
Appendix for the Report

Dosimetric Assessment of the Siemens AX75 (FCC ID: PWX-AX75)

According to the FCC Requirements

SAR Distribution Plots

May 20, 2005
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1 SAR Distribution Plots, PCS 1900 head, without camera

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [090yplm_1.da4](#)

DUT: Siemens; Type: AX75 ; Serial: 004400009038090

Program Name: Cheek Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004

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

- Electronics: DAE4 Sn631; Calibrated: 23.07.2004

- 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

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

Maximum value of SAR (measured) = 0.342 mW/g

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

Value = 15.5 V/m; Power Drift = 0.198 dB

Peak SAR (extrapolated) = 0.504 W/kg

SAR(1 g) = 0.326 mW/g; SAR(10 g) = 0.194 mW/g

Maximum value of SAR (measured) = 0.369 mW/g

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

Value = 15.5 V/m; Power Drift = 0.198 dB

Peak SAR (extrapolated) = 0.239 W/kg

SAR(1 g) = 0.203 mW/g; SAR(10 g) = 0.136 mW/g

Maximum value of SAR (measured) = 0.220 mW/g

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

Value = 15.5 V/m; Power Drift = 0.198 dB

Peak SAR (extrapolated) = 0.426 W/kg

SAR(1 g) = 0.288 mW/g; SAR(10 g) = 0.168 mW/g

Maximum value of SAR (measured) = 0.322 mW/g

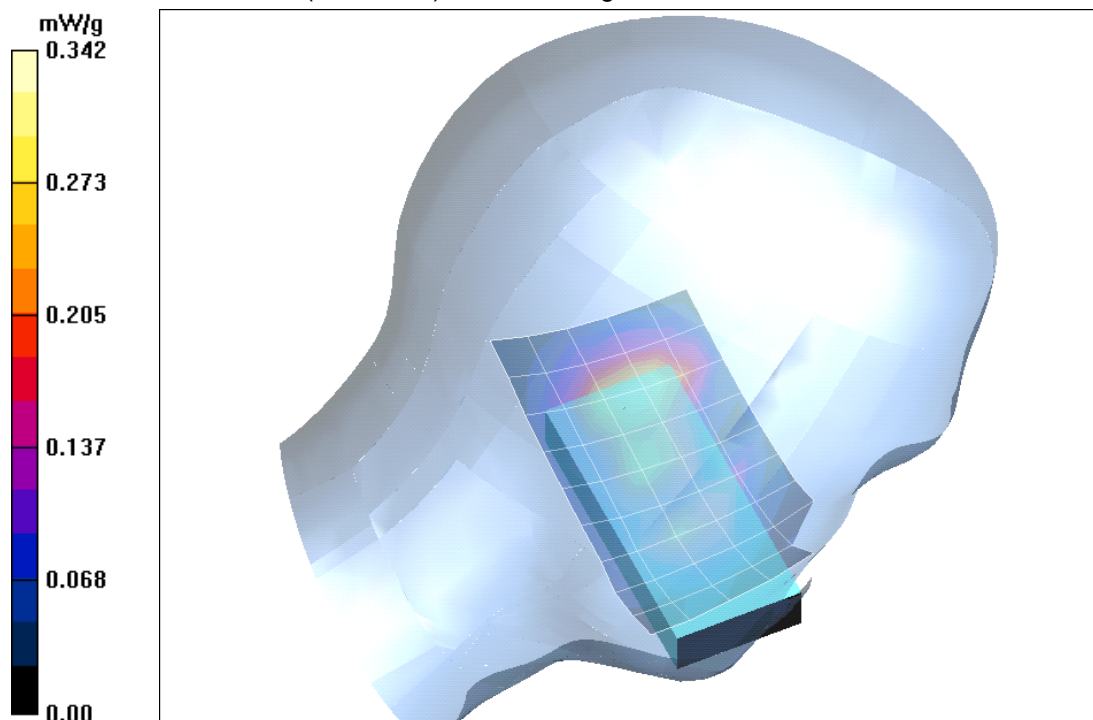


Fig. 1: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (05.13.2005; Ambient Temperature: 21.1° C; Liquid Temperature: 20.6° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [090yplm 2.da4](#)

DUT: Siemens; **Type:** AX75 ; **Serial:** 004400009038090

Program Name: Tilted Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- 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

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

Maximum value of SAR (measured) = 0.444 mW/g

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

Reference Value = 17.1 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.588 W/kg

SAR(1 g) = 0.415 mW/g; SAR(10 g) = 0.234 mW/g

Maximum value of SAR (measured) = 0.467 mW/g

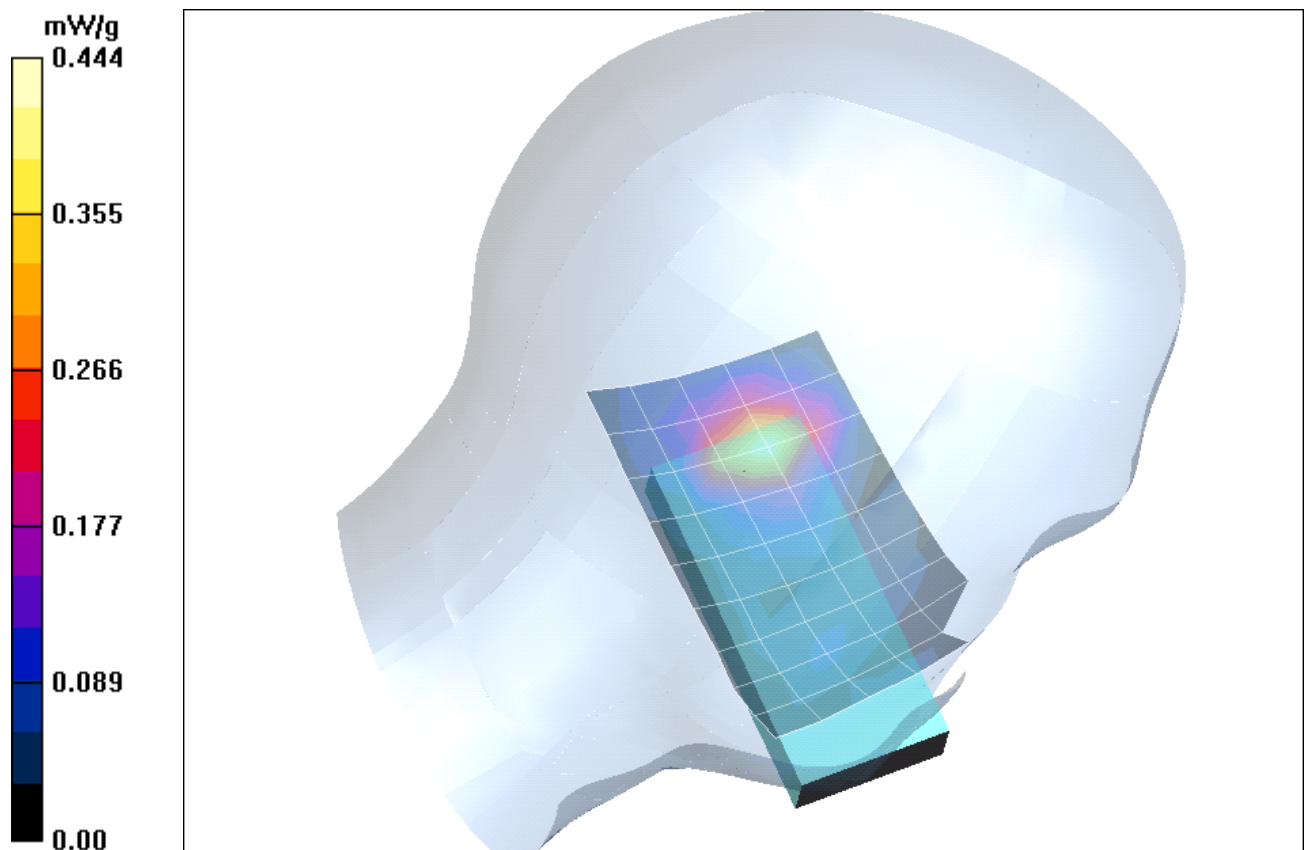


Fig. 2: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (05.13.2005; Ambient Temperature: 21.1° C; Liquid Temperature: 20.6° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [090yprm_1.da4](#)

DUT: Siemens; **Type:** AX75 ; **Serial:** 004400009038090

Program Name: Cheek Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004

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

- Electronics: DAE4 Sn631; Calibrated: 23.07.2004

- 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

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

Maximum value of SAR (measured) = 0.267 mW/g

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

Reference Value = 13.5 V/m; Power Drift = 0.067 dB

Peak SAR (extrapolated) = 0.404 W/kg

SAR(1 g) = 0.261 mW/g; SAR(10 g) = 0.175 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 = 13.5 V/m; Power Drift = 0.067 dB

Peak SAR (extrapolated) = 0.376 W/kg

SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.147 mW/g

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

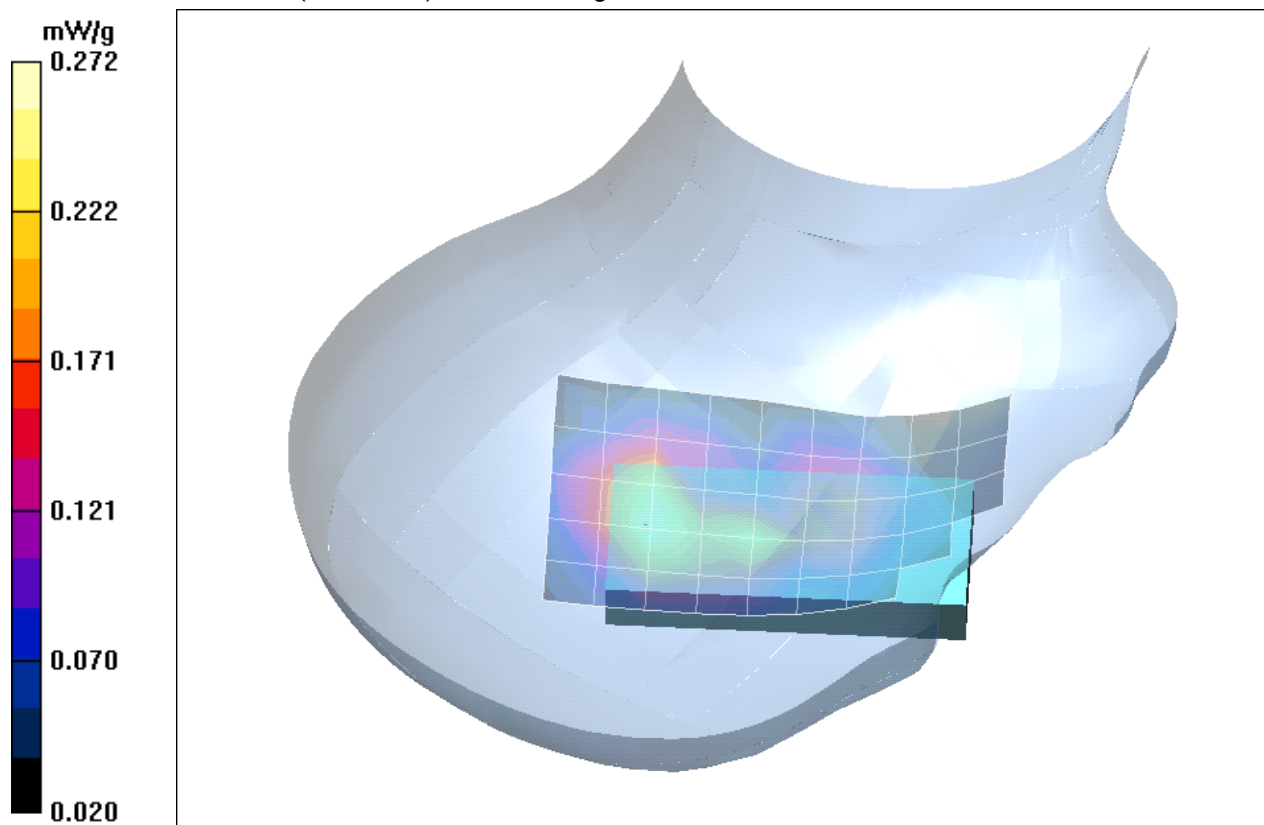


Fig. 3: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (05.13.2005; Ambient Temperature: 21.1° C; Liquid Temperature: 20.6° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [090yprm_2.da4](#)

DUT: Siemens; **Type:** AX75 ; **Serial:** 004400009038090

Program Name: Tilted Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004

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

- Electronics: DAE4 Sn631; Calibrated: 23.07.2004

- 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

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

Maximum value of SAR (measured) = 0.373 mW/g

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

Reference Value = 16.0 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.580 W/kg

SAR(1 g) = 0.382 mW/g; SAR(10 g) = 0.225 mW/g

Maximum value of SAR (measured) = 0.425 mW/g

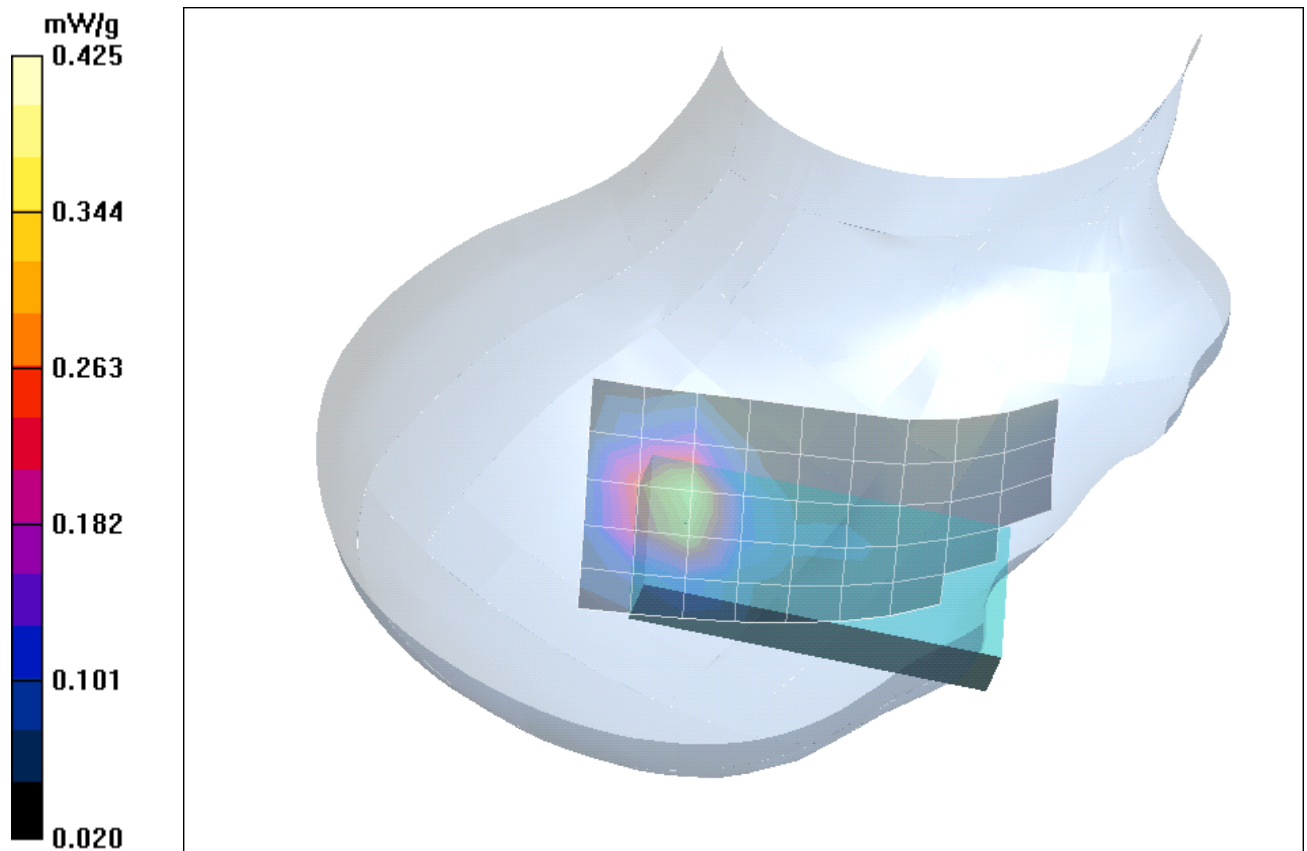


Fig. 4: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (05.13.2005; Ambient Temperature: 21.2° C; Liquid Temperature: 20.6° C).

2 SAR Distribution Plots, PCS 1900 head, with camera.

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [090yplm_1_cam.da4](#)

DUT: Siemens; Type: AX75 ; Serial: 004400009038090

Program Name: Cheek Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004

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

- Electronics: DAE4 Sn631; Calibrated: 23.07.2004

- 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

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

Maximum value of SAR (measured) = 0.292 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 = 0.064 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.313 mW/g; SAR(10 g) = 0.165 mW/g

Maximum value of SAR (measured) = 0.359 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 = 0.064 dB

Peak SAR (extrapolated) = 0.516 W/kg

SAR(1 g) = 0.313 mW/g; SAR(10 g) = 0.182 mW/g

Maximum value of SAR (measured) = 0.350 mW/g

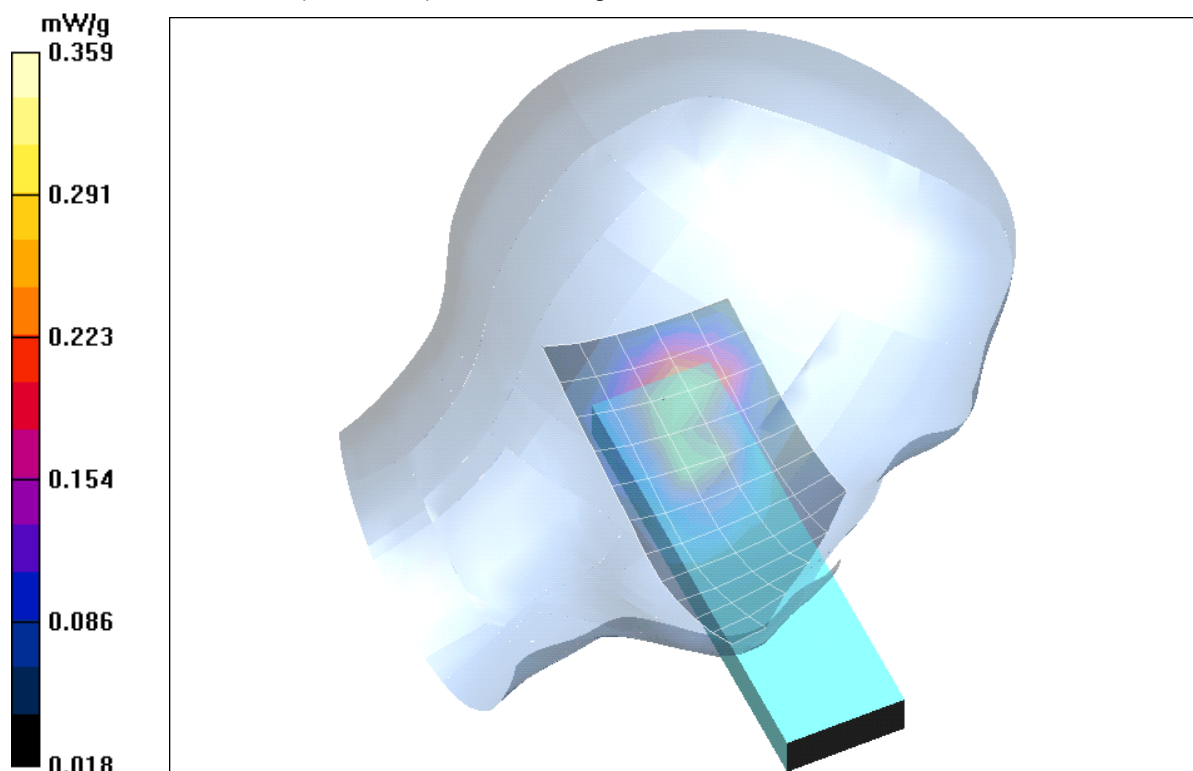


Fig. 5: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (05.13.2005; Ambient Temperature: 21.3° C; Liquid Temperature: 20.6° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [090yplm_2_cam.da4](#)

DUT: Siemens; **Type:** AX75 ; **Serial:** 004400009038090

Program Name: Tilted Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- 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

Tilted Left/Area Scan (6x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.354 mW/g

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

Reference Value = 14.9 V/m; Power Drift = 0.101 dB

Peak SAR (extrapolated) = 0.486 W/kg

SAR(1 g) = 0.325 mW/g; SAR(10 g) = 0.182 mW/g

Maximum value of SAR (measured) = 0.367 mW/g

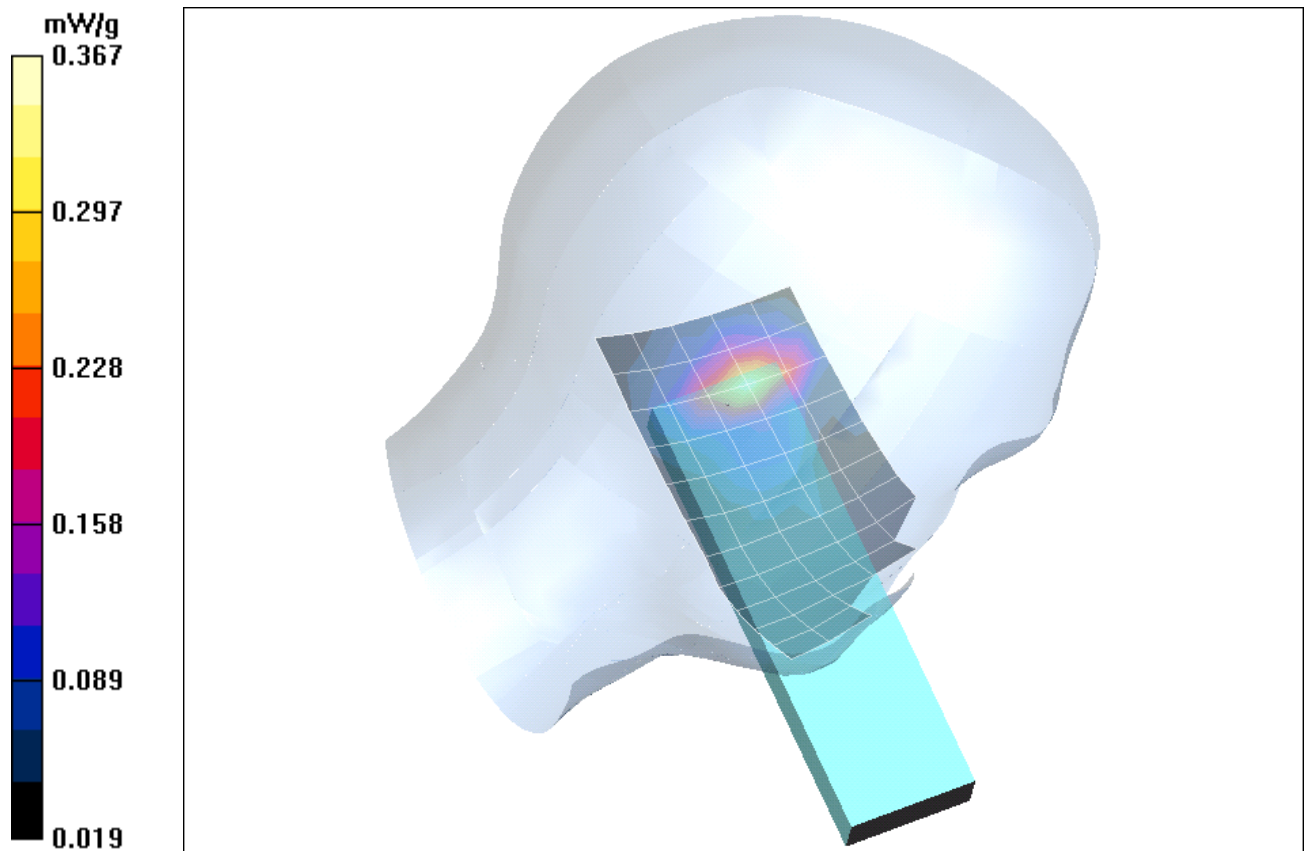


Fig. 6: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (05.13.2005; Ambient Temperature: 21.3° C; Liquid Temperature: 20.7° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [090yprm_1_cam.da4](#)

DUT: Siemens; **Type:** AX75 ; **Serial:** 004400009038090

Program Name: Cheek Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004

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

- Electronics: DAE4 Sn631; Calibrated: 23.07.2004

- 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

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

Maximum value of SAR (measured) = 0.281 mW/g

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

Reference Value = 12.3 V/m; Power Drift = 0.054 dB

Peak SAR (extrapolated) = 0.477 W/kg

SAR(1 g) = 0.311 mW/g; SAR(10 g) = 0.180 mW/g

Maximum value of SAR (measured) = 0.353 mW/g

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

Reference Value = 12.3 V/m; Power Drift = 0.054 dB

Peak SAR (extrapolated) = 0.329 W/kg

SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.130 mW/g

Maximum value of SAR (measured) = 0.231 mW/g

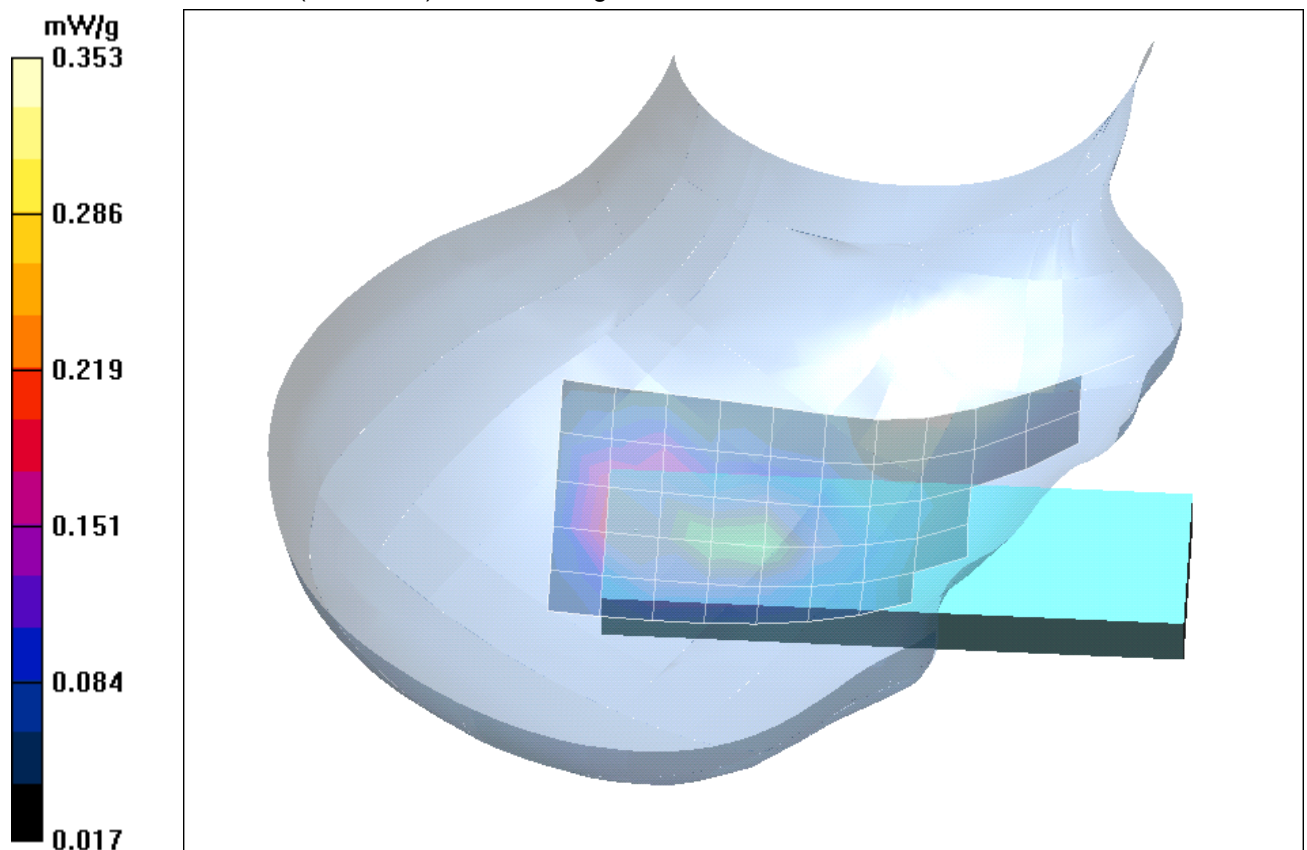


Fig. 7: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (05.13.2005; Ambient Temperature: 21.3° C; Liquid Temperature: 20.7° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [090yprm_2_cam.da4](#)

DUT: Siemens; **Type:** AX75 ; **Serial:** 004400009038090

Program Name: Tilted Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- 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

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

Maximum value of SAR (measured) = 0.257 mW/g

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

Reference Value = 13.8 V/m; Power Drift = 0.198 dB

Peak SAR (extrapolated) = 0.459 W/kg

SAR(1 g) = 0.275 mW/g; SAR(10 g) = 0.147 mW/g

Maximum value of SAR (measured) = 0.318 mW/g

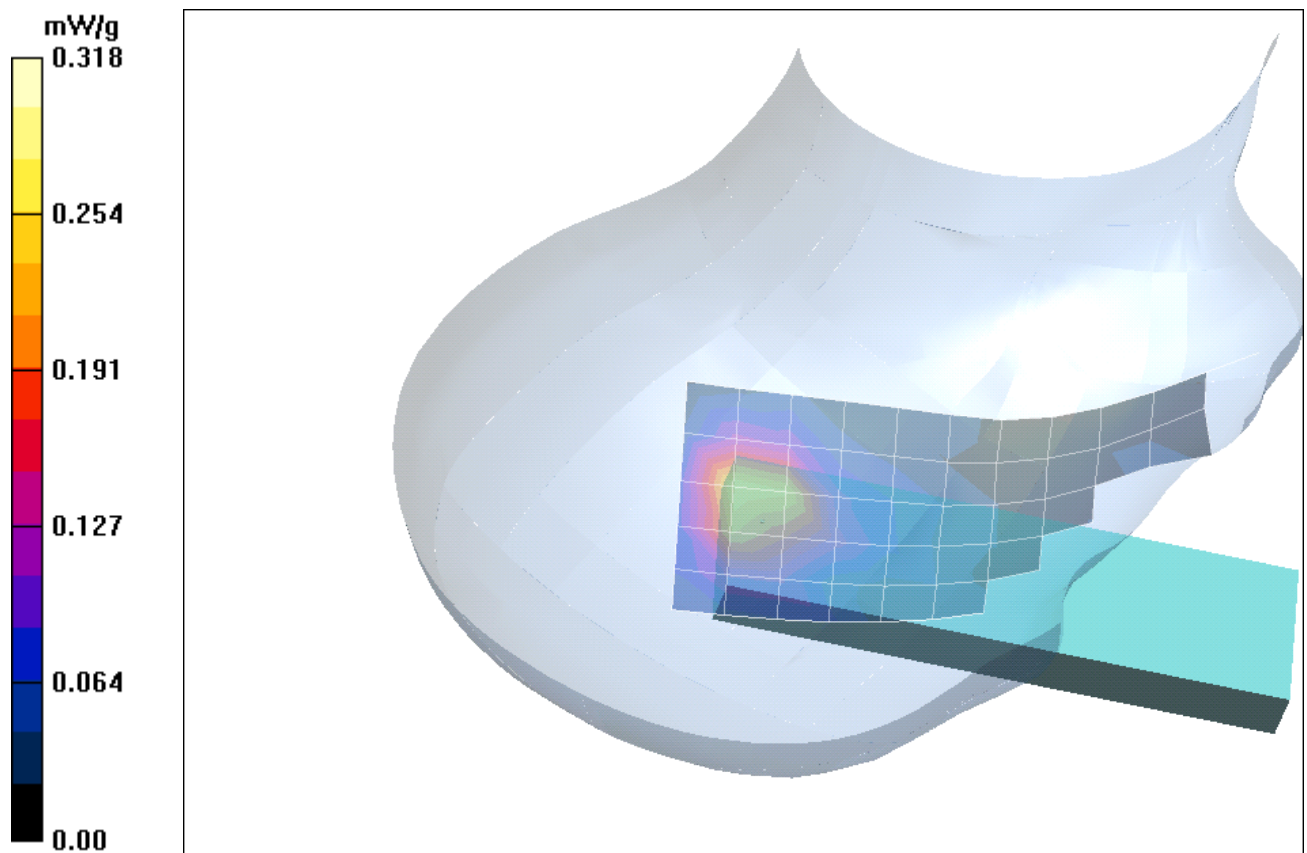


Fig. 8: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (05.13.2005; Ambient Temperature: 21.1° C; Liquid Temperature: 20.7° C).

3 SAR Distribution Plots, PCS 1900 Body worn (gap = 15 mm)

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [090bphm_1_15mm.da4](#)

DUT: Siemens; Type: AX75 ; Serial: 004400009038090

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ 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 1176; Type: Speag; Serial: 1176

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

Body Worn/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 10.3 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.412 W/kg

SAR(1 g) = 0.275 mW/g; SAR(10 g) = 0.175 mW/g

Maximum value of SAR (measured) = 0.296 mW/g

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

Reference Value = 10.3 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.362 W/kg

SAR(1 g) = 0.220 mW/g; SAR(10 g) = 0.131 mW/g

Maximum value of SAR (measured) = 0.242 mW/g

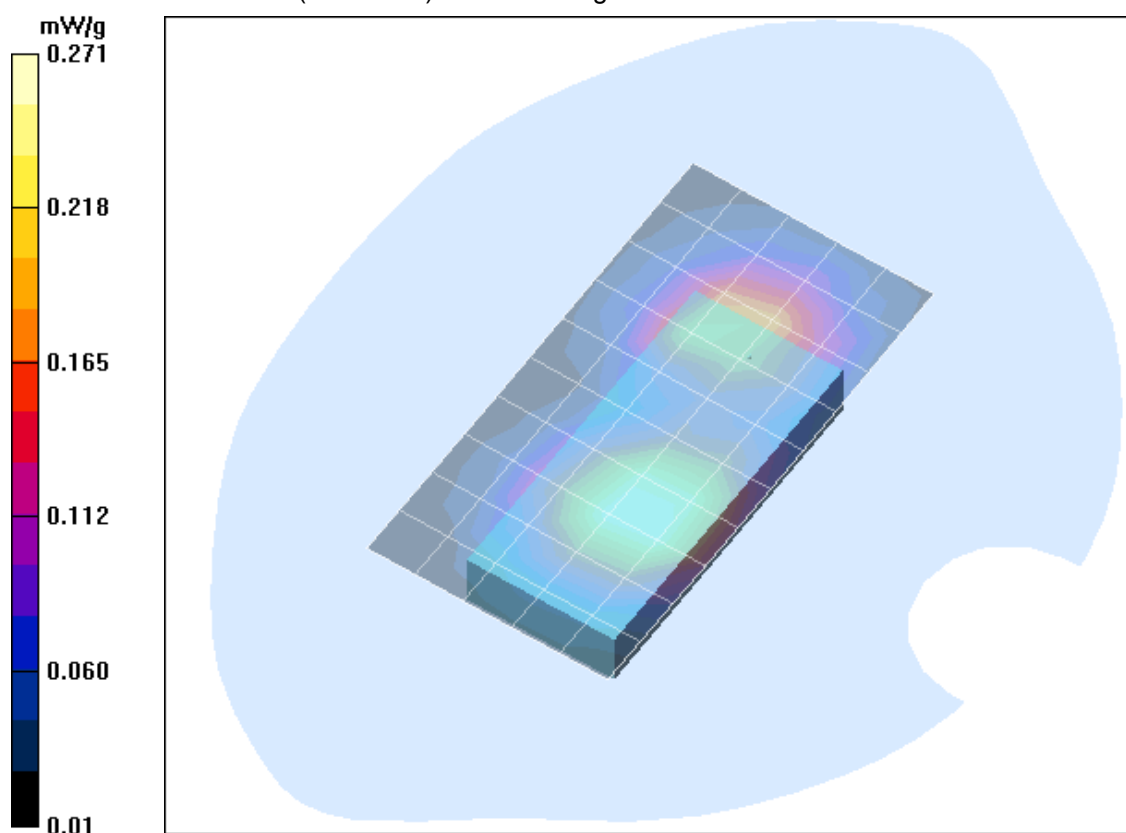


Fig. 9: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GSM without accessory, (05.20.2005; Ambient Temperature: 21.3° C; Liquid Temperature: 20.7° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [090bphm 2 15mm.da4](#)

DUT: Siemens; **Type:** AX75 ; **Serial:** 004400009038090

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ 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 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.248 mW/g

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

Reference Value = 10.4 V/m; Power Drift = 0.044 dB

Peak SAR (extrapolated) = 0.382 W/kg

SAR(1 g) = 0.256 mW/g; SAR(10 g) = 0.162 mW/g

Maximum value of SAR (measured) = 0.276 mW/g

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

Reference Value = 10.4 V/m; Power Drift = 0.044 dB

Peak SAR (extrapolated) = 0.366 W/kg

SAR(1 g) = 0.223 mW/g; SAR(10 g) = 0.133 mW/g

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

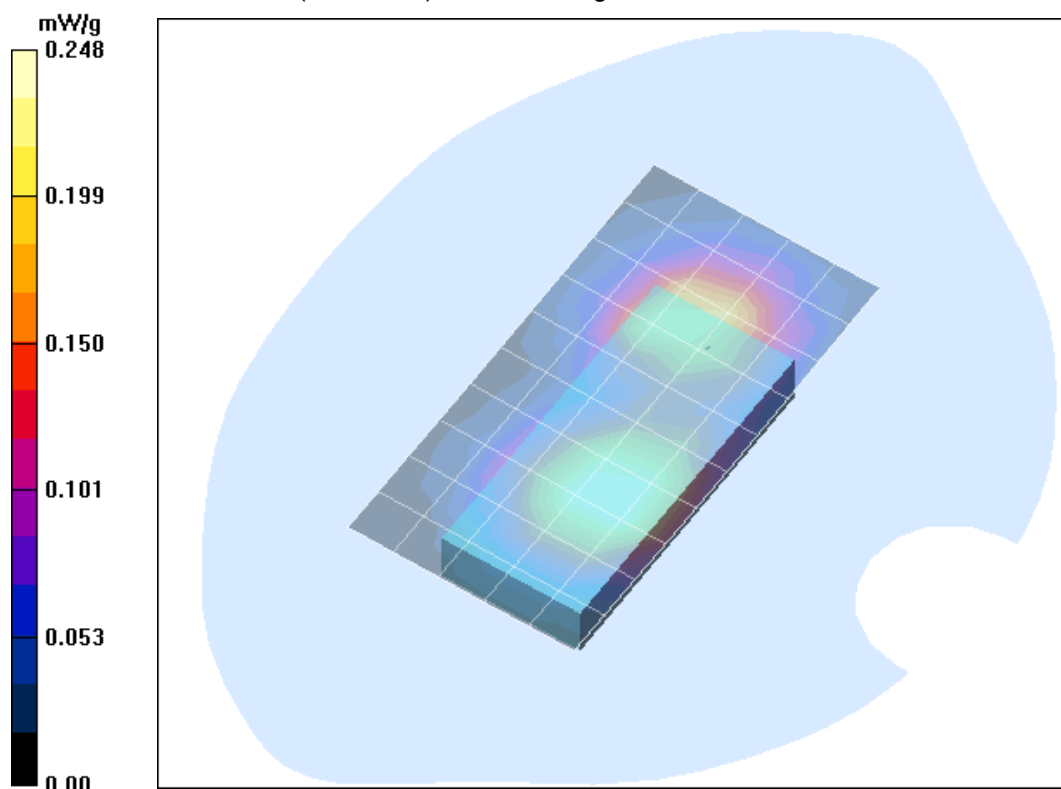


Fig. 10: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GSM with headset, (05.20.2005; Ambient Temperature: 21.4° C; Liquid Temperature: 20.7° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [090bphm 3 15mm.da4](#)

DUT: Siemens; **Type:** AX75 ; **Serial:** 004400009038090

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ 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 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.236 mW/g

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

Reference Value = 11.2 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.409 W/kg

SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.151 mW/g

Maximum value of SAR (measured) = 0.274 mW/g

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

Reference Value = 11.2 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.272 W/kg

SAR(1 g) = 0.181 mW/g; SAR(10 g) = 0.117 mW/g

Maximum value of SAR (measured) = 0.194 mW/g

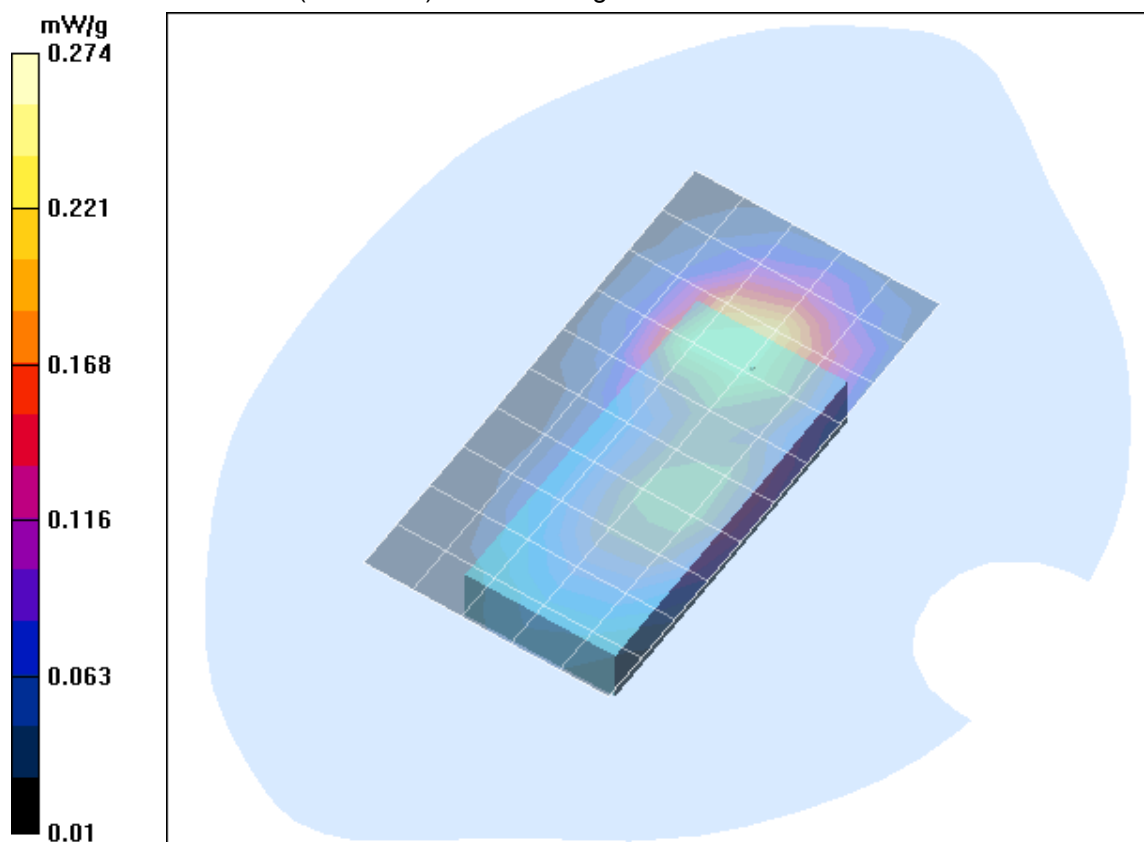


Fig. 11: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GSM with data cable, (05.20.2005; Ambient Temperature: 21.4° C; Liquid Temperature: 20.6° C).

4 SAR z-axis scans (Validation)

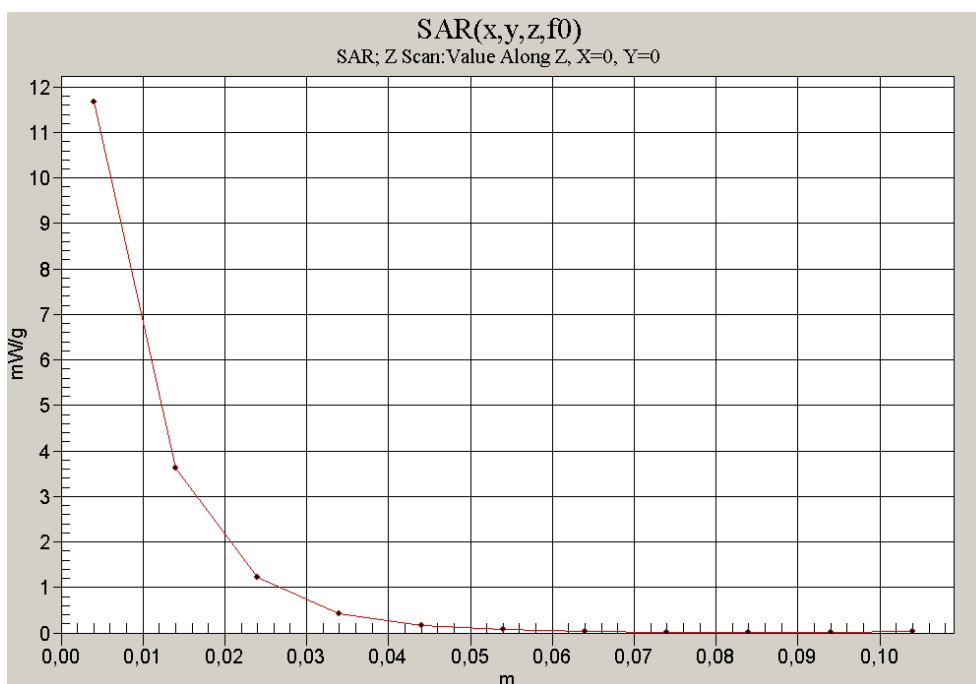


Fig. 12: SAR versus liquid depth, 1900 MHz, head (05.13.2005; Ambient Temperature: 21.1° C; Liquid Temperature : 20.6° C).

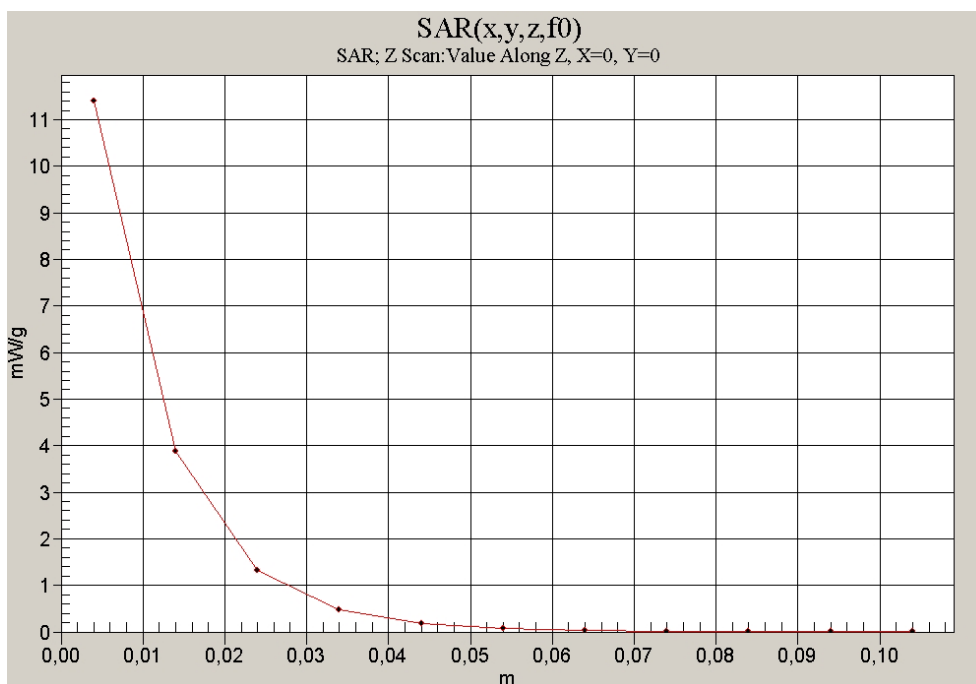


Fig. 13: SAR versus liquid depth, 1900 MHz, body (05.20.2005; Ambient Temperature: 21.3° C; Liquid Temperature : 20.7° C).

5 SAR z-axis scans (Measurements)

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

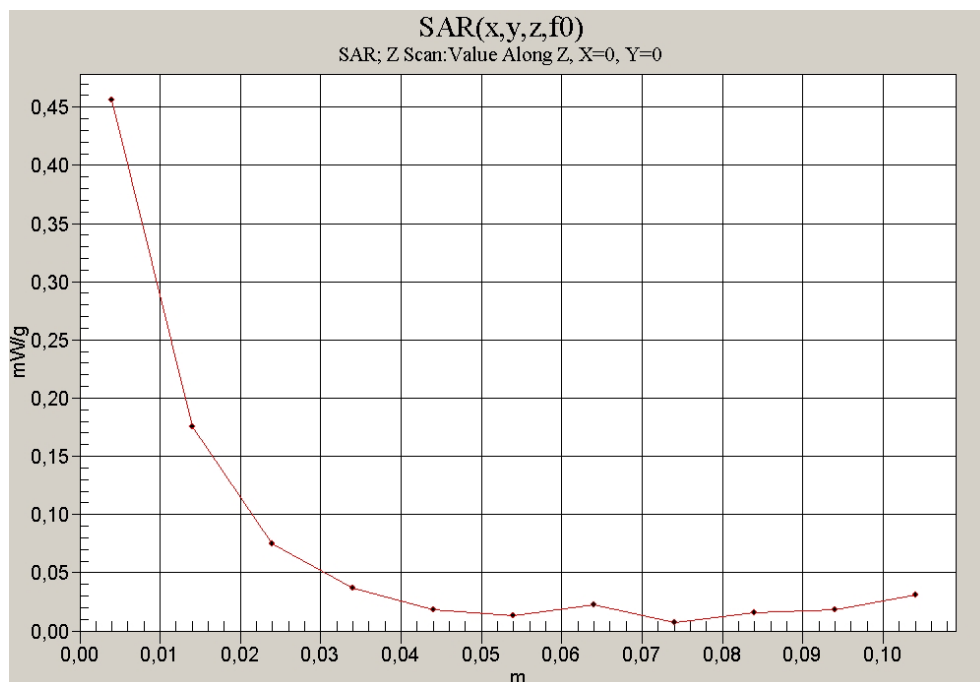


Fig. 14: SAR versus liquid depth, head: PCS 1900, channel 661, tilted position, left side of head without flash, with headset (05.13.2005, Ambient Temperature: 21.1 °C; Liquid Temperature : 20.6° C).

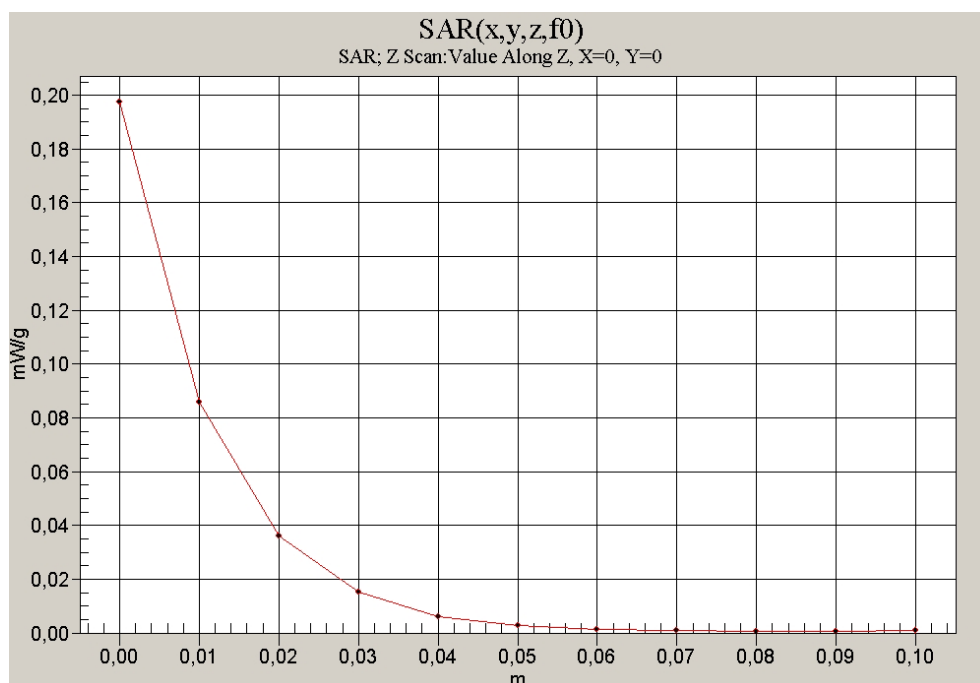


Fig. 15: SAR versus liquid depth, body: PCS 1900, channel 661, antenna towards the phantom, GSM without accessory, (05.20.2005; Ambient Temperature: 21.3 °C; Liquid Temperature : 20.7° C).