
Appendix for the Report

Dosimetric Assessment of the Siemens A75 (FCC ID: PWX-A75)

According to the FCC Requirements

SAR Distribution Plots

March 18, 2005
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1 SAR Distribution Plots, PCS 1900 head

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [125bplm_1.da4](#)

DUT: Siemens; Type: A75; Serial: 004400000061125

Program Name: Cheek Left

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

Medium parameters used: $\sigma = 1.4$ mho/m, $\epsilon_r = 38.4$; $\rho = 1000$ 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 Sn489; Calibrated: 03.09.2004
- 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) = 0.307 mW/g

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

Reference Value = 14.5 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.461 W/kg

SAR(1 g) = 0.278 mW/g; SAR(10 g) = 0.156 mW/g

Maximum value of SAR (measured) = 0.314 mW/g

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

Reference Value = 14.5 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.334 W/kg

SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.109 mW/g

Maximum value of SAR (measured) = 0.212 mW/g

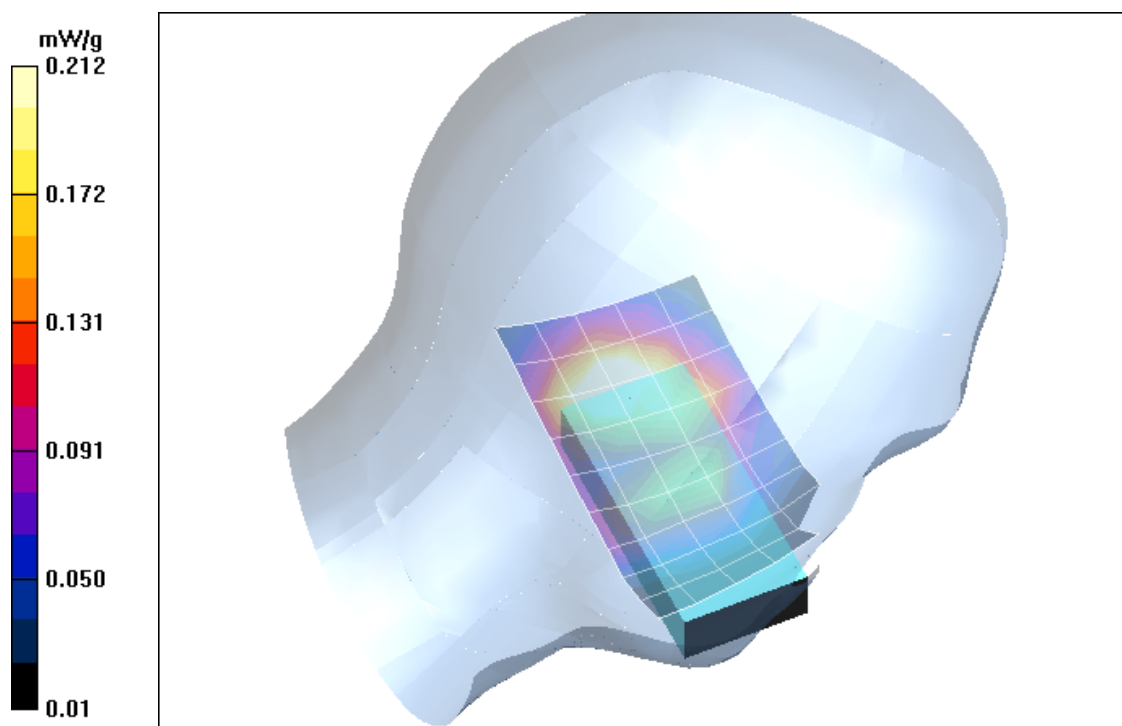


Fig. 1: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (16.03.2005; Ambient Temperature: 21.6° C; Liquid Temperature: 20.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [125bplm 2.da4](#)

DUT: Siemens; **Type:** A75; **Serial:** 004400000061125

Program Name: Tilted Left

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

Medium parameters used: $\sigma = 1.4$ mho/m, $\epsilon_r = 38.4$; $\rho = 1000$ 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 Sn489; Calibrated: 03.09.2004
- 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) = 0.352 mW/g

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

Reference Value = 15.9 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 0.516 W/kg

SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.174 mW/g

Maximum value of SAR (measured) = 0.349 mW/g

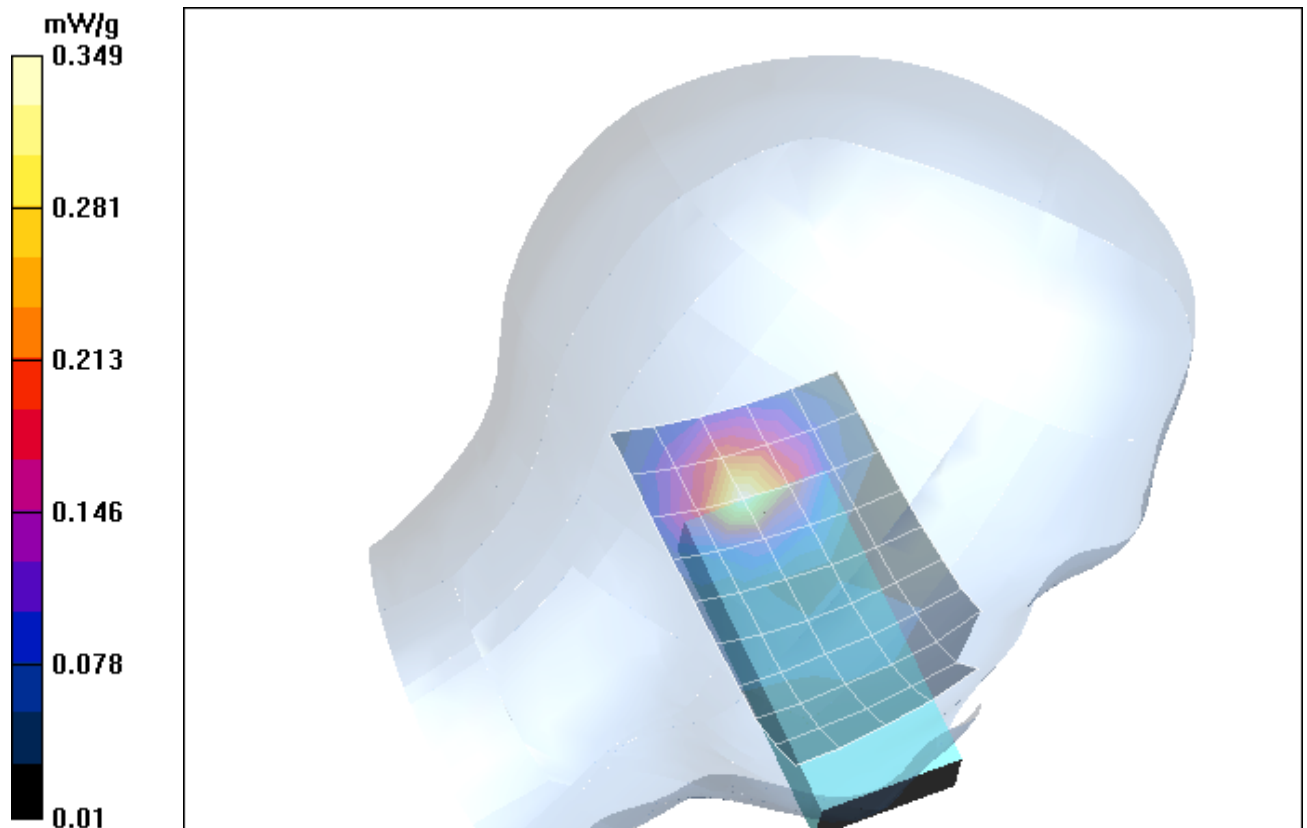


Fig. 2: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (16.03.2005; Ambient Temperature: 21.6° C; Liquid Temperature : 20.4° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [125bprm_1.da4](#)

DUT: Siemens; **Type:** A75; **Serial:** 004400000061125

Program Name: Cheek Right

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

Medium parameters used: $\sigma = 1.4$ mho/m, $\epsilon_r = 38.4$; $\rho = 1000$ 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 Sn489; Calibrated: 03.09.2004
- 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) = 0.459 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 = -0.149 dB

Peak SAR (extrapolated) = 0.800 W/kg

SAR(1 g) = 0.442 mW/g; SAR(10 g) = 0.236 mW/g

Maximum value of SAR (measured) = 0.504 mW/g

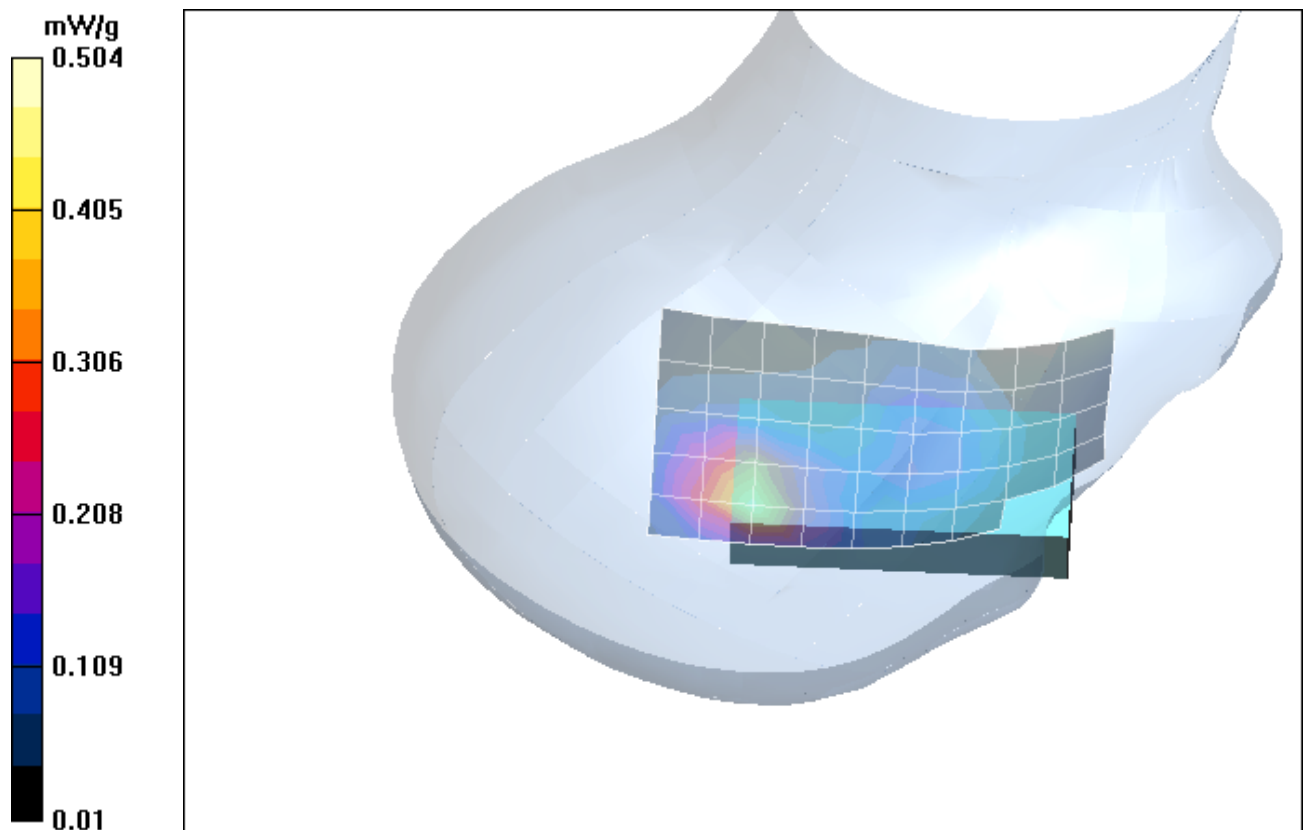


Fig. 3: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (16.03.2005; Ambient Temperature: 21.6° C; Liquid Temperature : 20.4° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [125bprm_2.da4](#)

DUT: Siemens; **Type:** A75; **Serial:** 004400000061125

Program Name: Tilted Right

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

Medium parameters used: $\sigma = 1.4$ mho/m, $\epsilon_r = 38.4$; $\rho = 1000$ 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 Sn489; Calibrated: 03.09.2004
- 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) = 0.370 mW/g

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

Reference Value = 12.2 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.800 W/kg

SAR(1 g) = 0.452 mW/g; SAR(10 g) = 0.240 mW/g

Maximum value of SAR (measured) = 0.512 mW/g

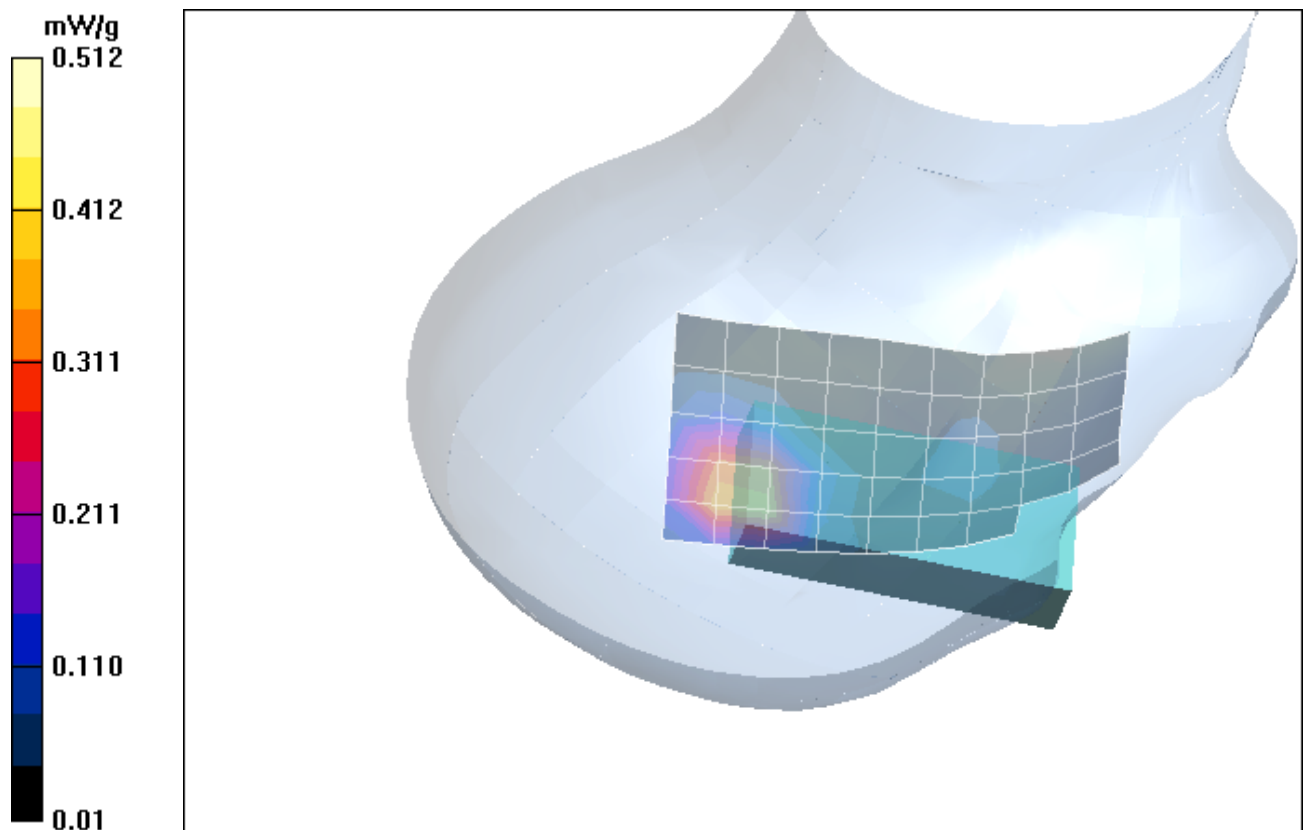


Fig. 4: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (16.03.2005; Ambient Temperature: 21.6° C; Liquid Temperature : 20.4° C).

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

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [195yphm_1.da4](#)

DUT: Siemens; Type: A75; Serial: 004400000061125

Program Name: Cheek Left

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

Medium parameters used: $\sigma = 1.52$ mho/m, $\epsilon_r = 51.1$; $\rho = 1000$ 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: 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

Body 1900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.359 mW/g

Body 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.160 dB

Peak SAR (extrapolated) = 0.616 W/kg

SAR(1 g) = 0.393 mW/g; SAR(10 g) = 0.236 mW/g

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

Body 1900/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.160 dB

Peak SAR (extrapolated) = 0.477 W/kg

SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.220 mW/g

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

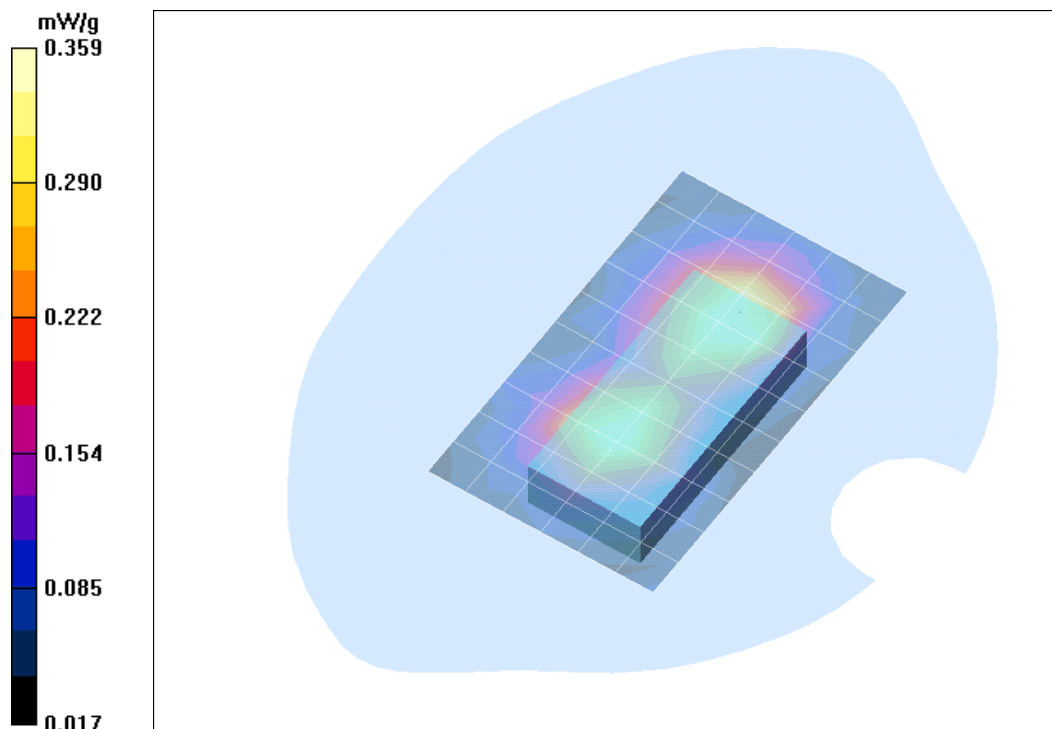


Fig. 5: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with headset and FCT 650 carry case with 10 mm distance (17.03.2005; Ambient Temperature: 21.7° C; Liquid Temperature: 20.5° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [195yphm_2.da4](#)

DUT: Siemens; Type: A75; Serial: 004400000061125

Program Name: Cheek Left

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

Medium parameters used: $\sigma = 1.52$ mho/m, $\epsilon_r = 51.1$; $\rho = 1000$ 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: 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

Body 1900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.366 mW/g

Body 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.9 V/m; Power Drift = -0.094 dB

Peak SAR (extrapolated) = 0.515 W/kg

SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.221 mW/g

Maximum value of SAR (measured) = 0.375 mW/g

Body 1900/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.9 V/m; Power Drift = -0.094 dB

Peak SAR (extrapolated) = 0.340 W/kg

SAR(1 g) = 0.259 mW/g; SAR(10 g) = 0.166 mW/g

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

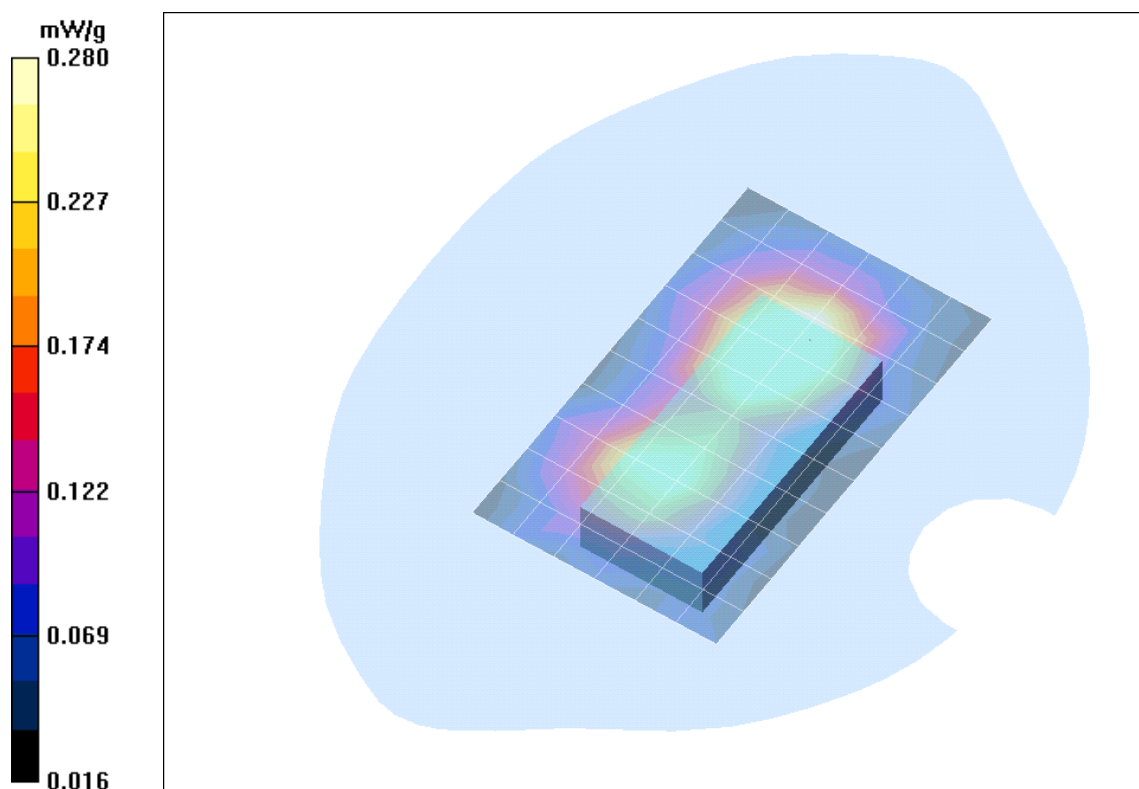


Fig. 6: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with headset and FCL 600 carry case with 13 mm distance (17.03.2005; Ambient Temperature: 21.7° C; Liquid Temperature : 20.5° C).

3 SAR Distribution Plots, PCS 1900 Body with data cable, GPRS class 8

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [195yphm 3.da4](#)

DUT: Siemens; Type: A75; Serial: 004400000061125

Program Name: Cheek Left

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

Medium parameters used: $\sigma = 1.52$ mho/m, $\epsilon_r = 51.1$; $\rho = 1000$ 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: 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

Body 1900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.351 mW/g

Body 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 0.493 W/kg

SAR(1 g) = 0.341 mW/g; SAR(10 g) = 0.210 mW/g

Maximum value of SAR (measured) = 0.365 mW/g

Body 1900/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 0.370 W/kg

SAR(1 g) = 0.253 mW/g; SAR(10 g) = 0.160 mW/g

Maximum value of SAR (measured) = 0.275 mW/g

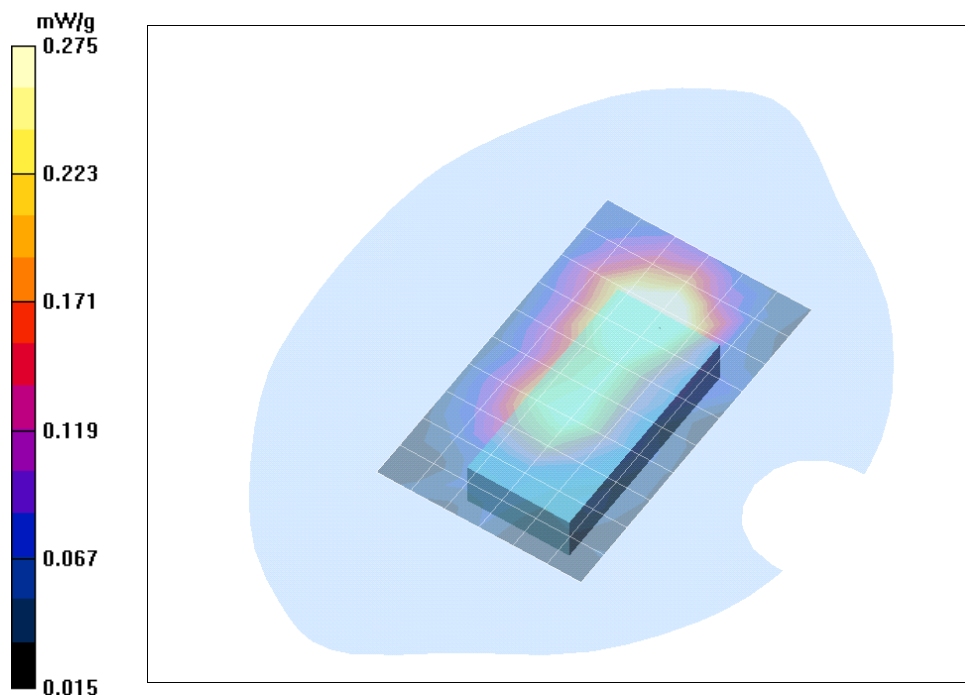


Fig. 7: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with data cable GPRS class 8 and FCL 600 carry case with 13 mm distance (17.03.2005; Ambient Temperature: 21.6° C; Liquid Temperature : 20.6° C).

4 SAR z-axis scans (Validation)

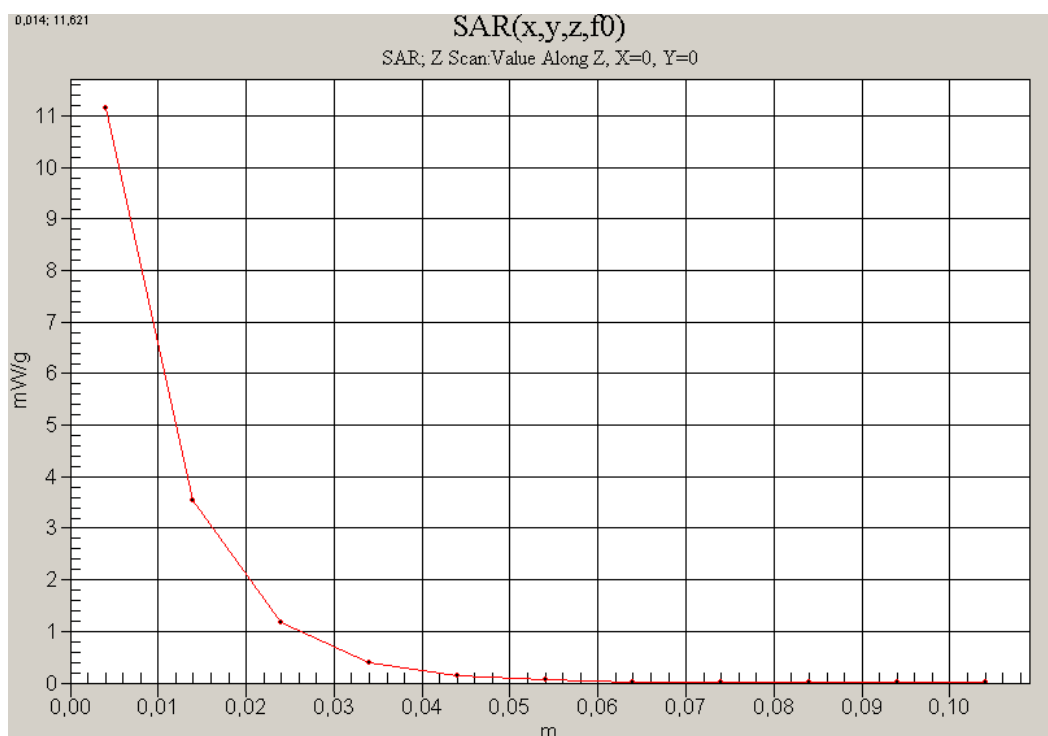


Fig. 8: SAR versus liquid depth, 1900 MHz, head (16.03.2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.0° C).

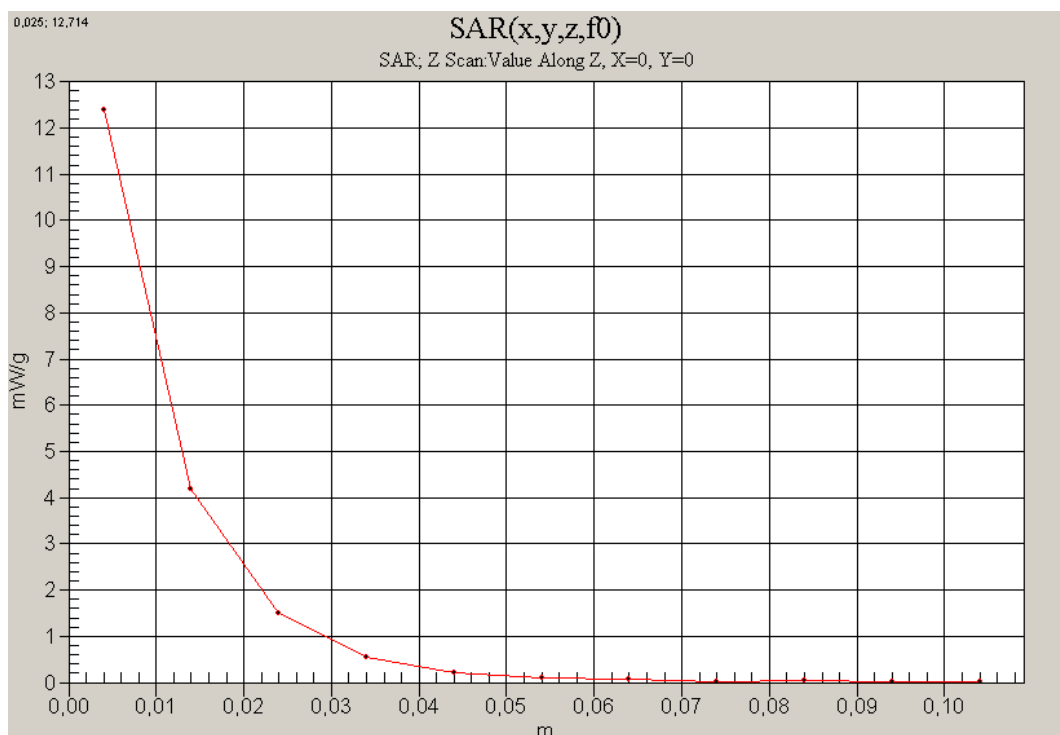


Fig. 9: SAR versus liquid depth, 1900 MHz, body (17.03.2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.0° C).

5 SAR z-axis scans (Measurements)

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

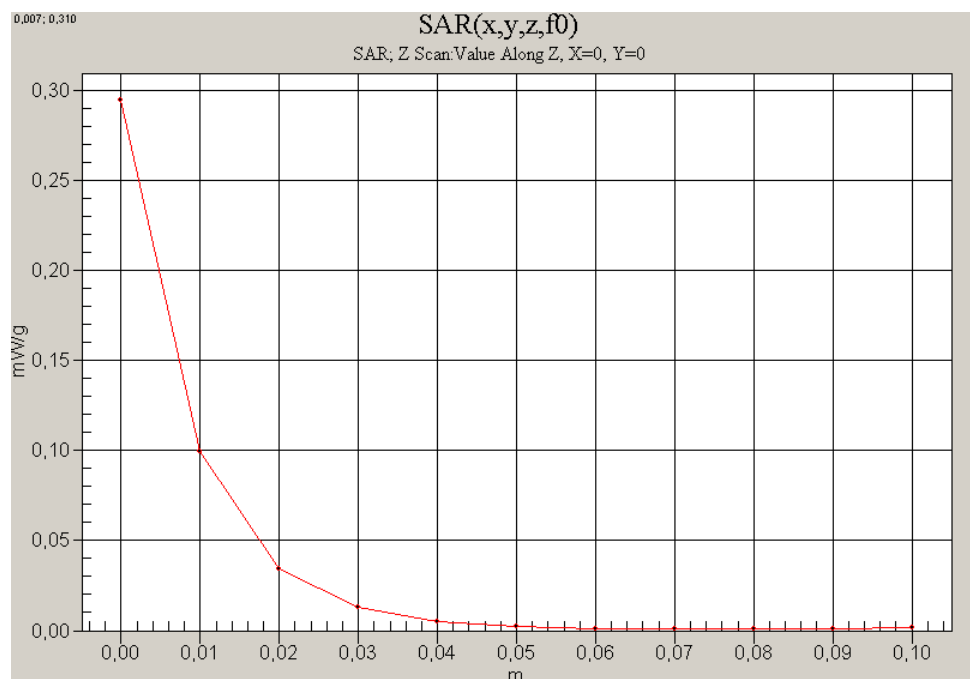


Fig. 10: SAR versus liquid depth, head: PCS 1900, channel 661, tilted position, right side of head (16.03.2005, Ambient Temperature: 21.6° C; Liquid Temperature : 20.4° C).

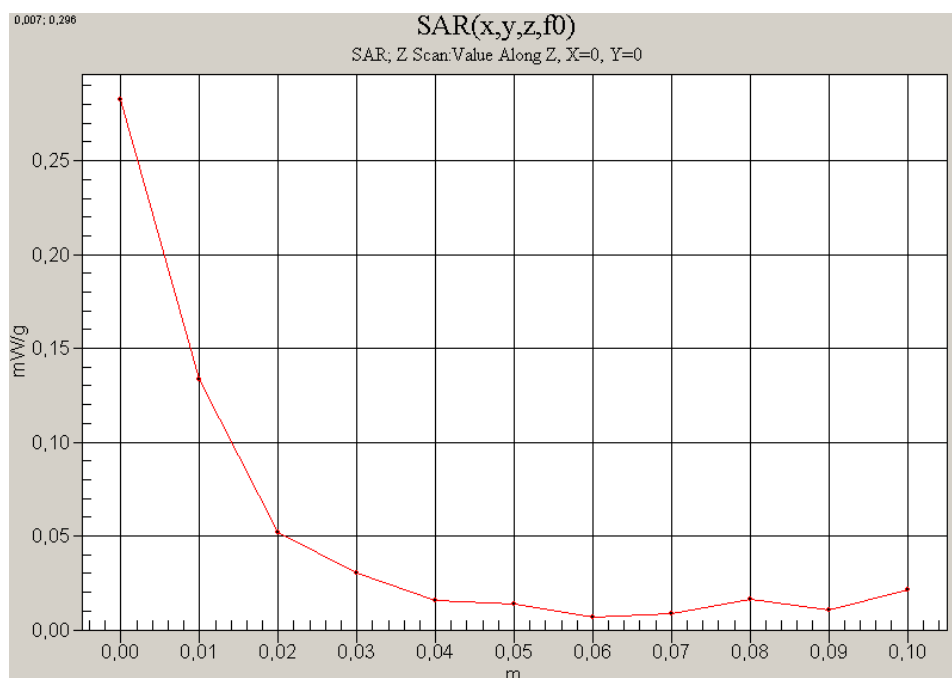


Fig. 11: SAR versus liquid depth: PCS 1900, channel 661, body worn configuration, antenna towards the phantom, headset, GSM and FCT 650 carry case with 10 mm distance (17.03.2005, Ambient Temperature: 21.7° C; Liquid Temperature: 20.5° C).