
Appendix for the Report

Dosimetric Assessment of the Siemens C75 (FCC ID: PWX-C75)

According to the FCC Requirements

SAR Distribution Plots

June 06, 2005
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1 SAR Distribution Plots, PCS 1900 head, without flash

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [802yplm_1.da4](#)

DUT: Siemens; Type: Aries; Serial: 004400011069802

Program Name: Cheek Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ 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) = 0.528 mW/g

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

Reference Value = 17.8 V/m; Power Drift = 0.112 dB

Peak SAR (extrapolated) = 0.852 W/kg

SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.299 mW/g

Maximum value of SAR (measured) = 0.571 mW/g

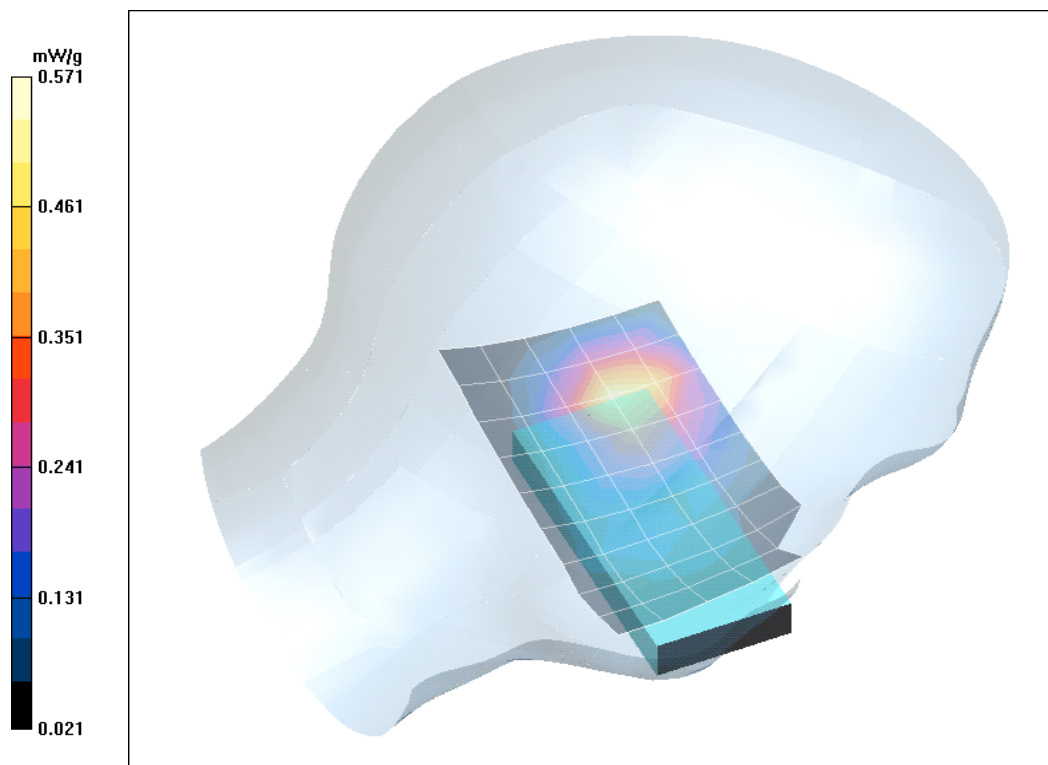


Fig. 1: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (05.24.2005; Ambient Temperature: 21.8° C; Liquid Temperature: 21.1° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [802yp1m_2.da4](#)

DUT: Siemens; **Type:** Aries; **Serial:** 004400011069802

Program Name: Tilted Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ 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) = 0.601 mW/g

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

Reference Value = 19.2 V/m; Power Drift = 0.160 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.575 mW/g; SAR(10 g) = 0.320 mW/g

Maximum value of SAR (measured) = 0.642 mW/g

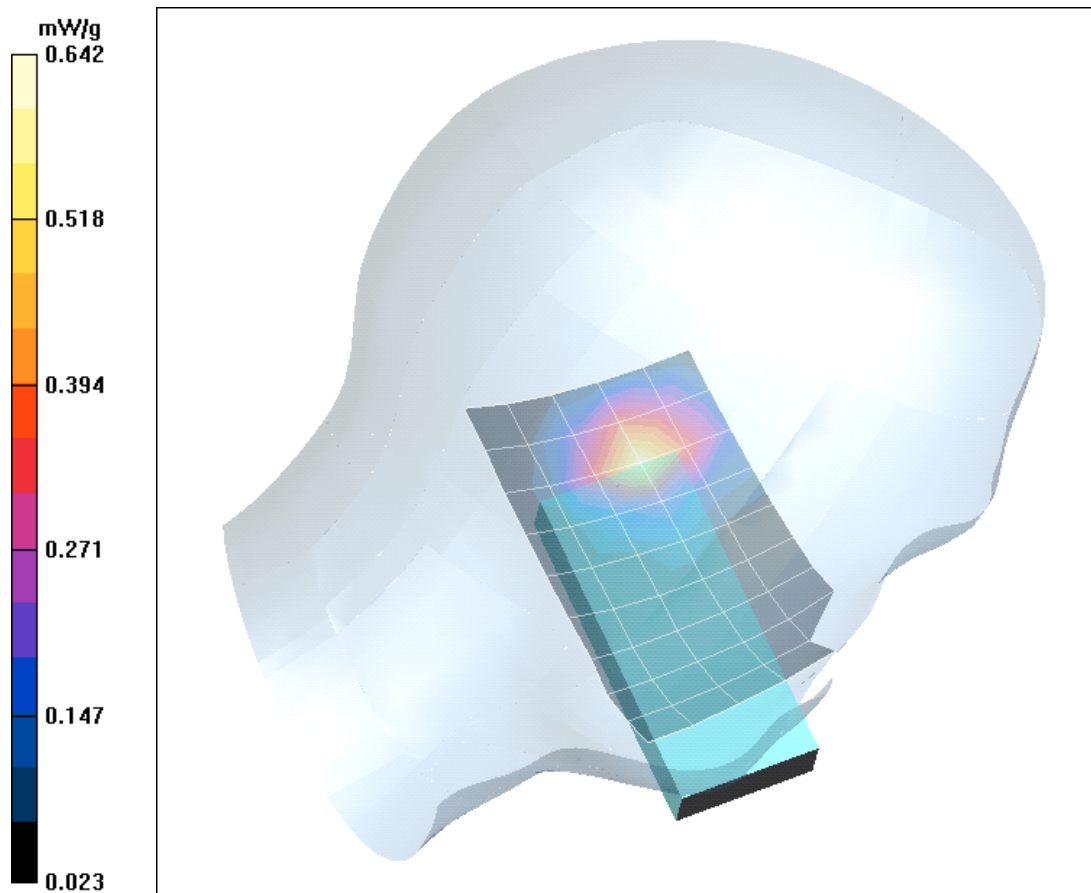


Fig. 2: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (05.24.2005; Ambient Temperature: 21.8° C; Liquid Temperature : 21.1° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [802yprm_1.da4](#)

DUT: Siemens; **Type:** Aries; **Serial:** 004400011069802

Program Name: Cheek Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ 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: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.377 mW/g

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

Reference Value = 16.9 V/m; Power Drift = 0.147 dB

Peak SAR (extrapolated) = 0.725 W/kg

SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.243 mW/g

Maximum value of SAR (measured) = 0.420 mW/g

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

Reference Value = 16.9 V/m; Power Drift = 0.147 dB

Peak SAR (extrapolated) = 0.436 W/kg

SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.203 mW/g

Maximum value of SAR (measured) = 0.344 mW/g

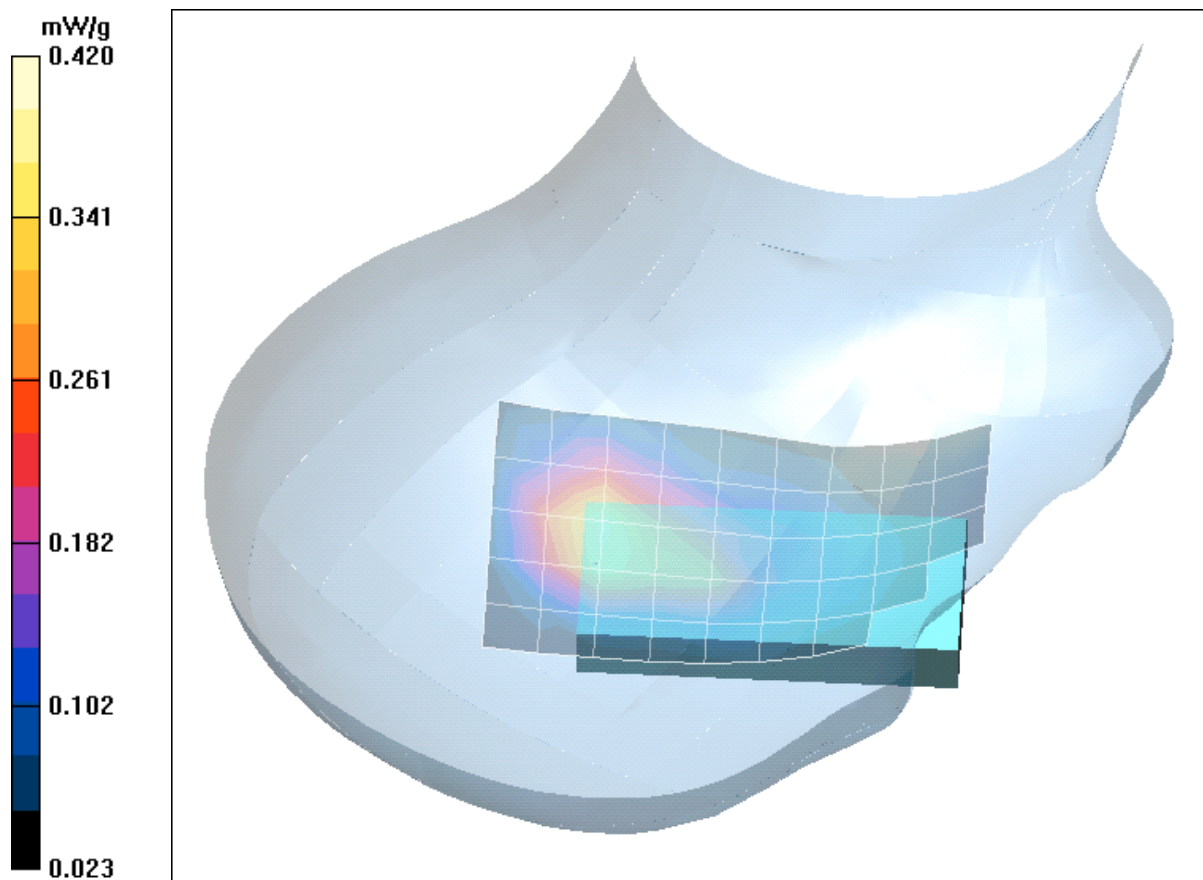


Fig. 3: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (05.24.2005; Ambient Temperature: 21.9° C; Liquid Temperature : 21.1° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [802yprm 2.da4](#)

DUT: Siemens; **Type:** Aries; **Serial:** 004400011069802

Program Name: Tilted Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ 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) = 0.482 mW/g

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

Reference Value = 19.4 V/m; Power Drift = 0.162 dB

Peak SAR (extrapolated) = 0.935 W/kg

SAR(1 g) = 0.526 mW/g; SAR(10 g) = 0.302 mW/g

Maximum value of SAR (measured) = 0.577 mW/g

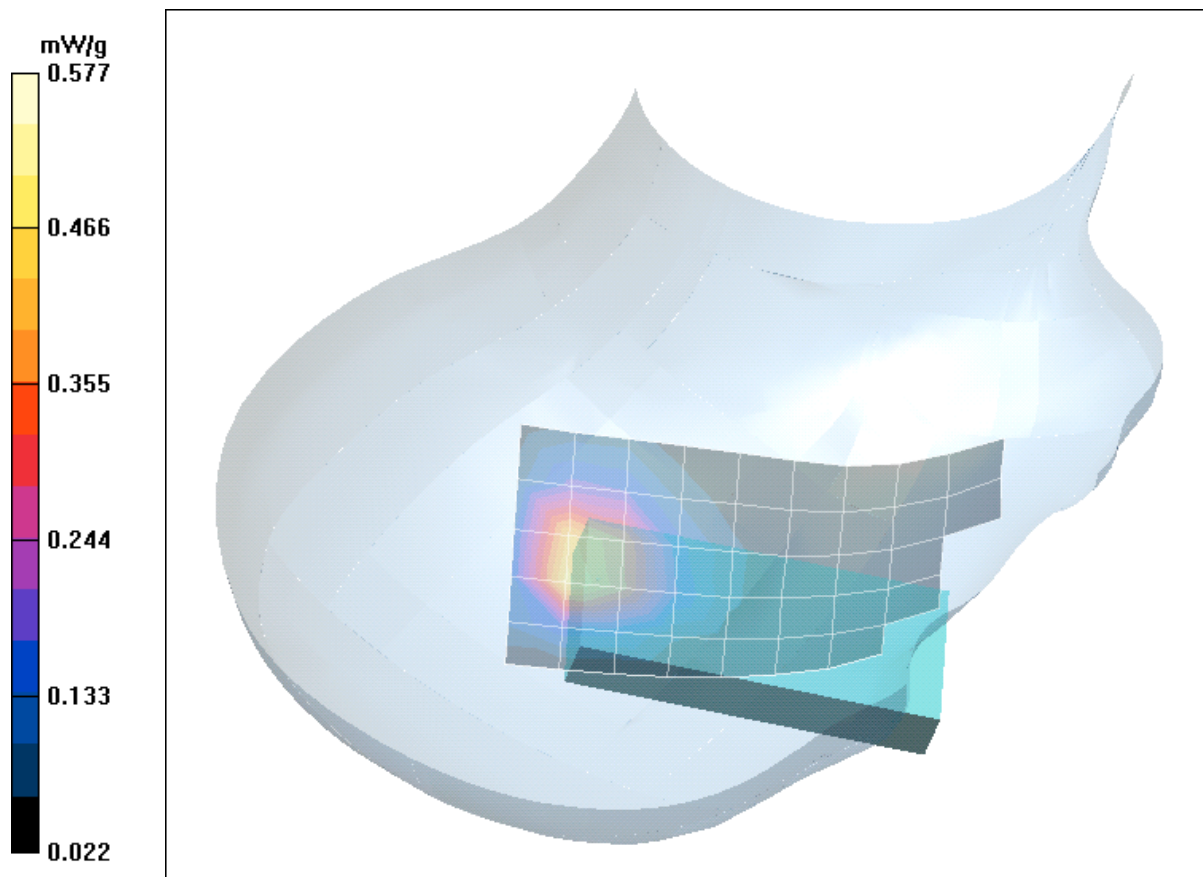


Fig. 4: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (05.24.2005; Ambient Temperature: 21.9° C; Liquid Temperature : 21.1° C).

2 SAR Distribution Plots, PCS 1900 head, with flash

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [802yplm_1_flash.da4](#)

DUT: Siemens; Type: Aries; Serial: 004400011069802

Program Name: Cheek Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ 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 145

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

Maximum value of SAR (measured) = 0.490 mW/g

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

Reference Value = 17.1 V/m; Power Drift = 0.104 dB

Peak SAR (extrapolated) = 0.902 W/kg

SAR(1 g) = 0.473 mW/g; SAR(10 g) = 0.264 mW/g

Maximum value of SAR (measured) = 0.524 mW/g

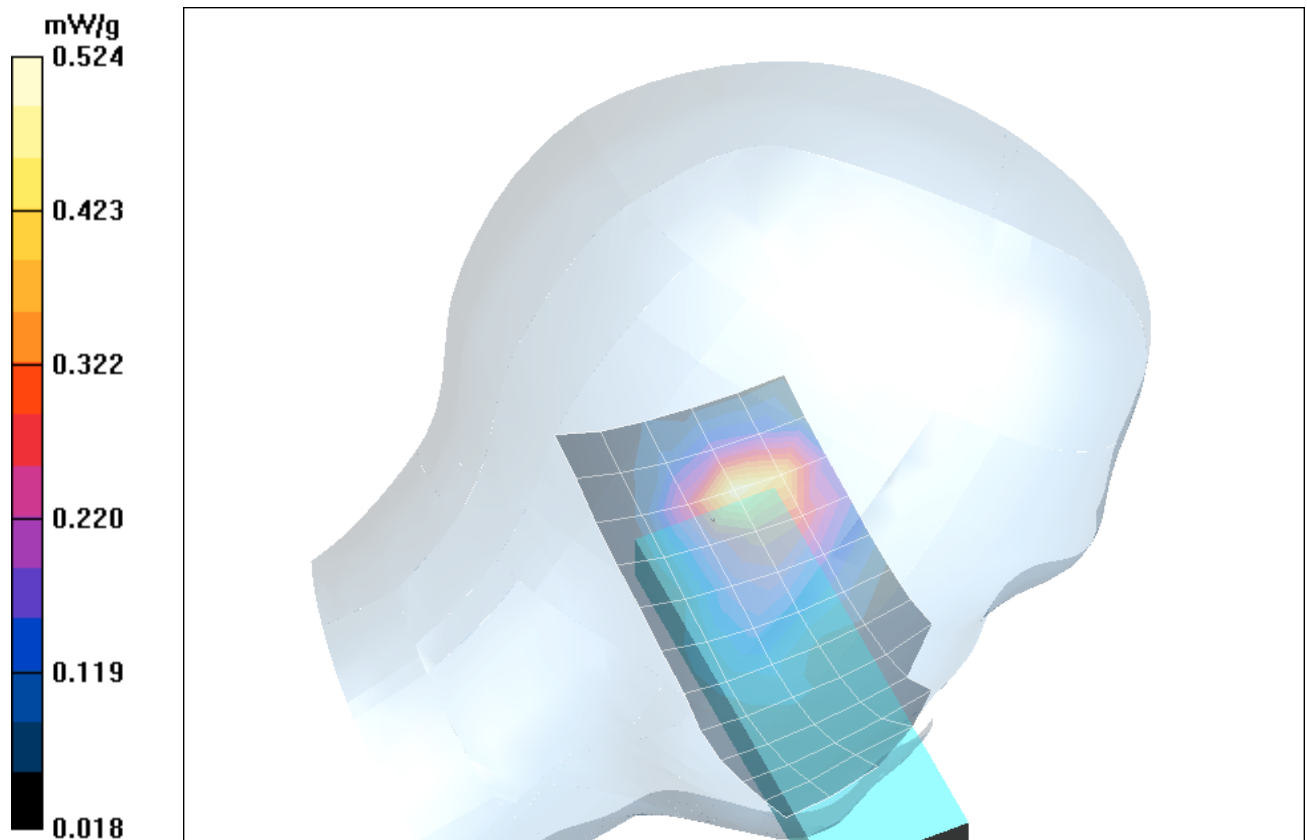


Fig. 5: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (05.24.2005; Ambient Temperature: 21.6° C; Liquid Temperature : 21.0° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [802yp1m 2 flash.da4](#)

DUT: Siemens; **Type:** Aries; **Serial:** 004400011069802

Program Name: Tilted Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ 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 (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.532 mW/g

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

Reference Value = 17.9 V/m; Power Drift = 0.103 dB

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.515 mW/g; SAR(10 g) = 0.283 mW/g

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

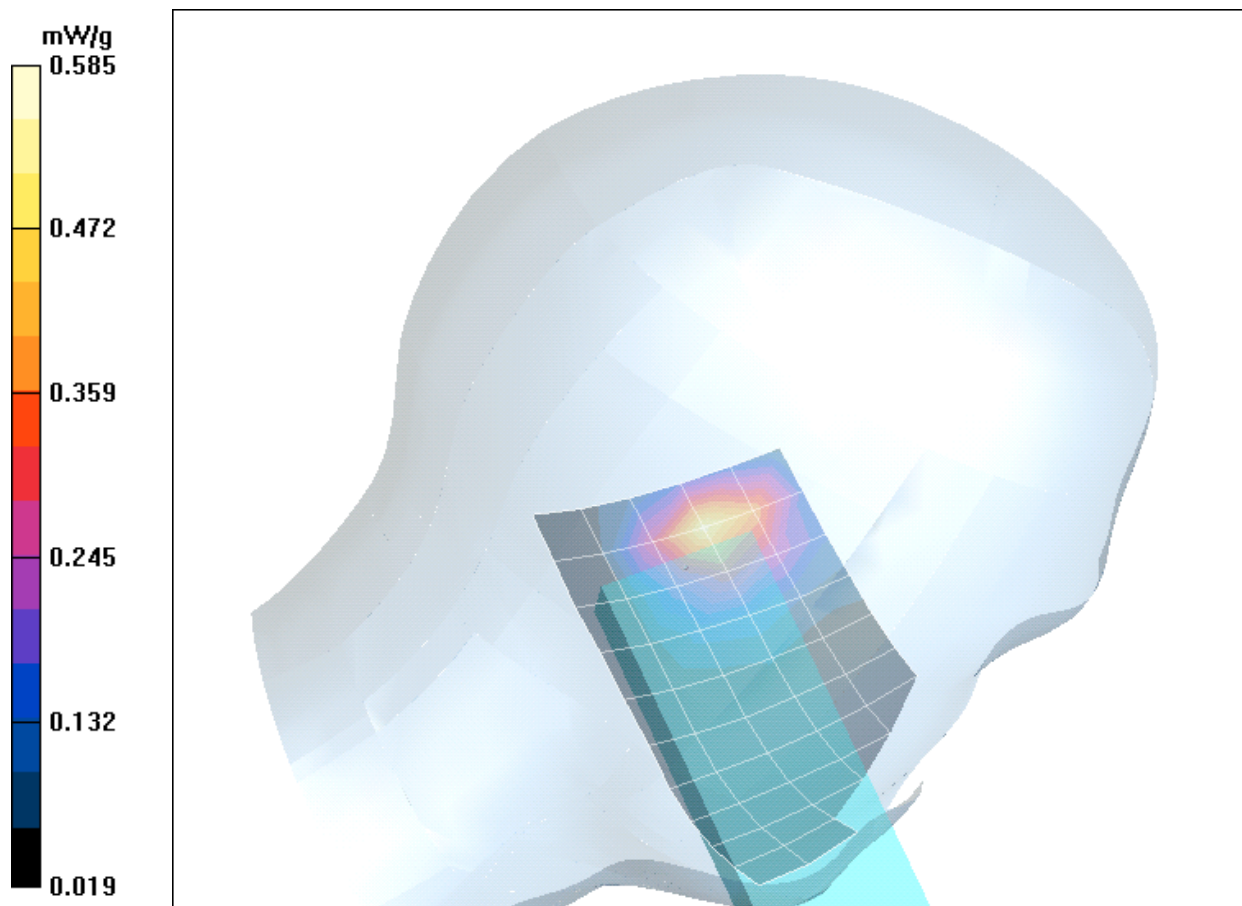


Fig. 6: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (05.24.2005; Ambient Temperature: 21.6° C; Liquid Temperature : 21.0° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [802yprm_1_flash.da4](#)

DUT: Siemens; **Type:** Aries; **Serial:** 004400011069802

Program Name: Cheek Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ 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 (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.392 mW/g

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

Reference Value = 16.8 V/m; Power Drift = 0.177 dB

Peak SAR (extrapolated) = 0.631 W/kg

SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.246 mW/g

Maximum value of SAR (measured) = 0.403 mW/g

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

Reference Value = 16.8 V/m; Power Drift = 0.177 dB

Peak SAR (extrapolated) = 0.481 W/kg

SAR(1 g) = 0.341 mW/g; SAR(10 g) = 0.235 mW/g

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

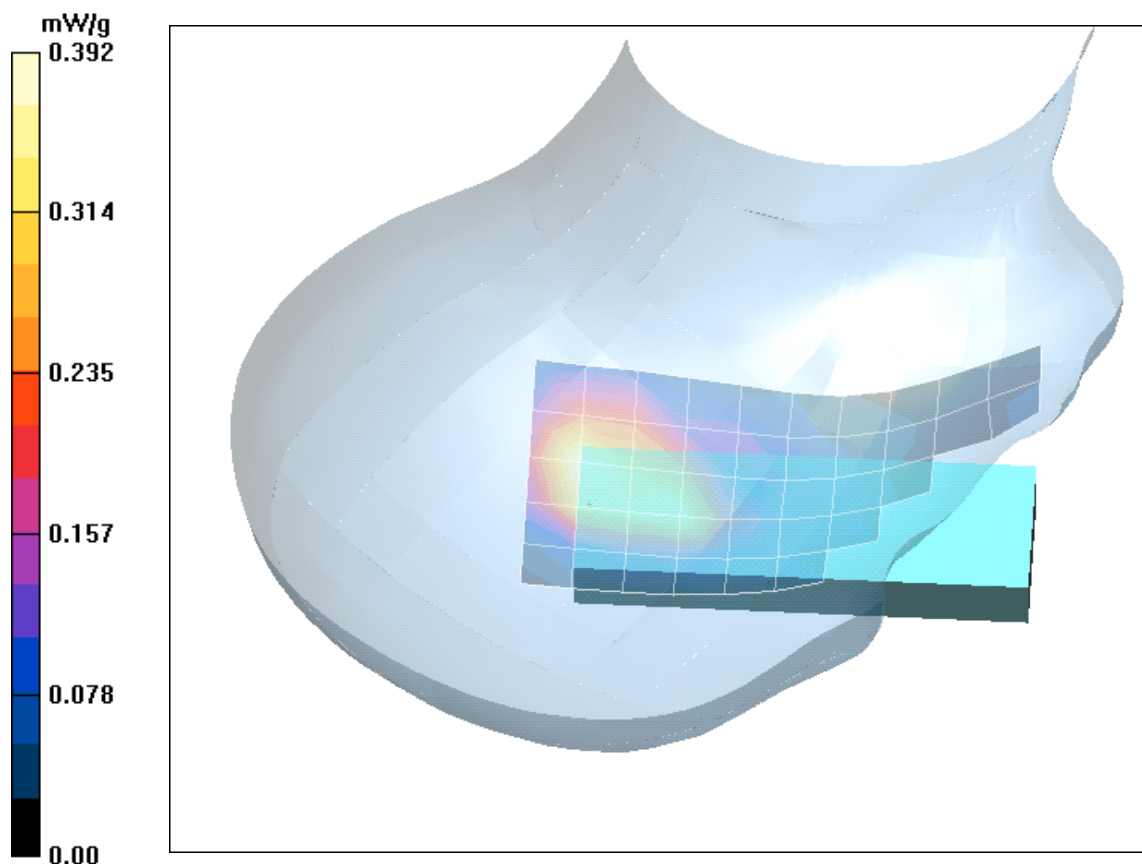


Fig. 7: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (05.24.2005; Ambient Temperature: 21.5° C; Liquid Temperature : 21.0° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [802yprm 2 flash.da4](#)

DUT: Siemens; **Type:** Aries; **Serial:** 004400011069802

Program Name: Tilted Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ 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 (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.439 mW/g

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

Reference Value = 18.7 V/m; Power Drift = 0.054 dB

Peak SAR (extrapolated) = 0.840 W/kg

SAR(1 g) = 0.509 mW/g; SAR(10 g) = 0.301 mW/g

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

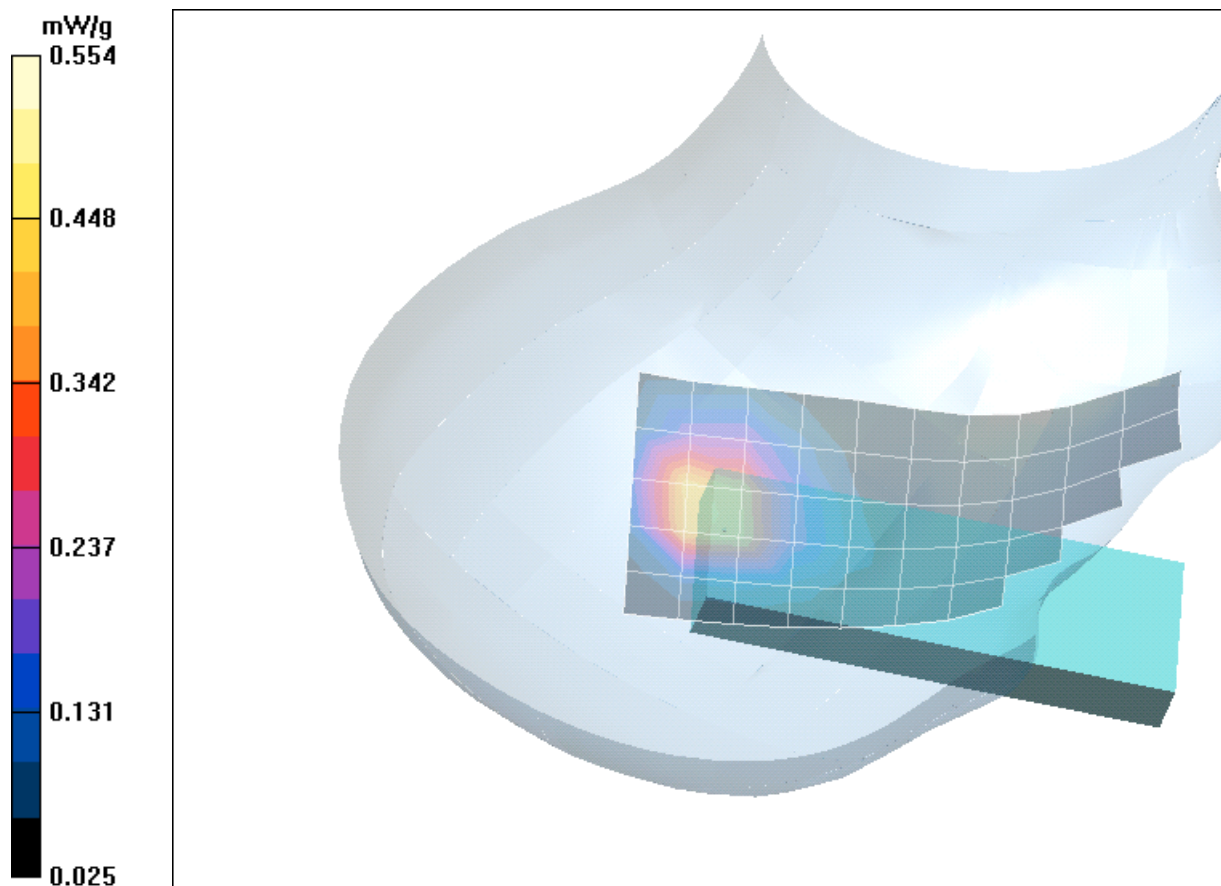


Fig. 8: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (05.24.2005; Ambient Temperature: 21.5 °C; Liquid Temperature : 21.0° C)

3 SAR Distribution Plots, PCS 1900 Body worn (gap = 20 mm)

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [802bphm_1_GSM_wdh.da4](#)

DUT: Siemens; Type: Aries; Serial: 004400011069802

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; $\epsilon_r = 54.2$; $\rho = 1000$ 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 (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.472 mW/g

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

Reference Value = 7.84 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.724 W/kg

SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.256 mW/g

Maximum value of SAR (measured) = 0.489 mW/g

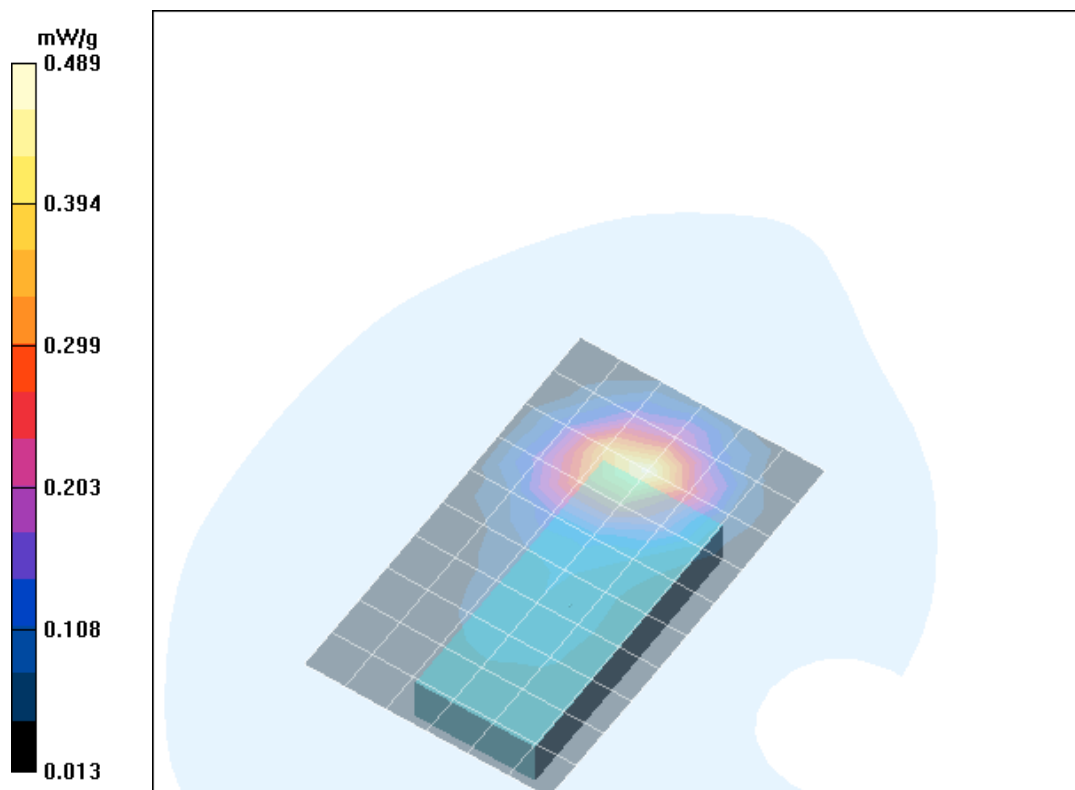


Fig. 9: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GSM, (06.03.2005; Ambient Temperature: 22.5° C; Liquid Temperature : 21.6° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [802bphm 2 GSM WDH.da4](#)

DUT: Siemens; **Type:** Aries; **Serial:** 004400011069802

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; $\epsilon_r = 54.2$; $\rho = 1000$ 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 (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.466 mW/g

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

Reference Value = 7.50 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 0.723 W/kg

SAR(1 g) = 0.444 mW/g; SAR(10 g) = 0.258 mW/g

Maximum value of SAR (measured) = 0.487 mW/g

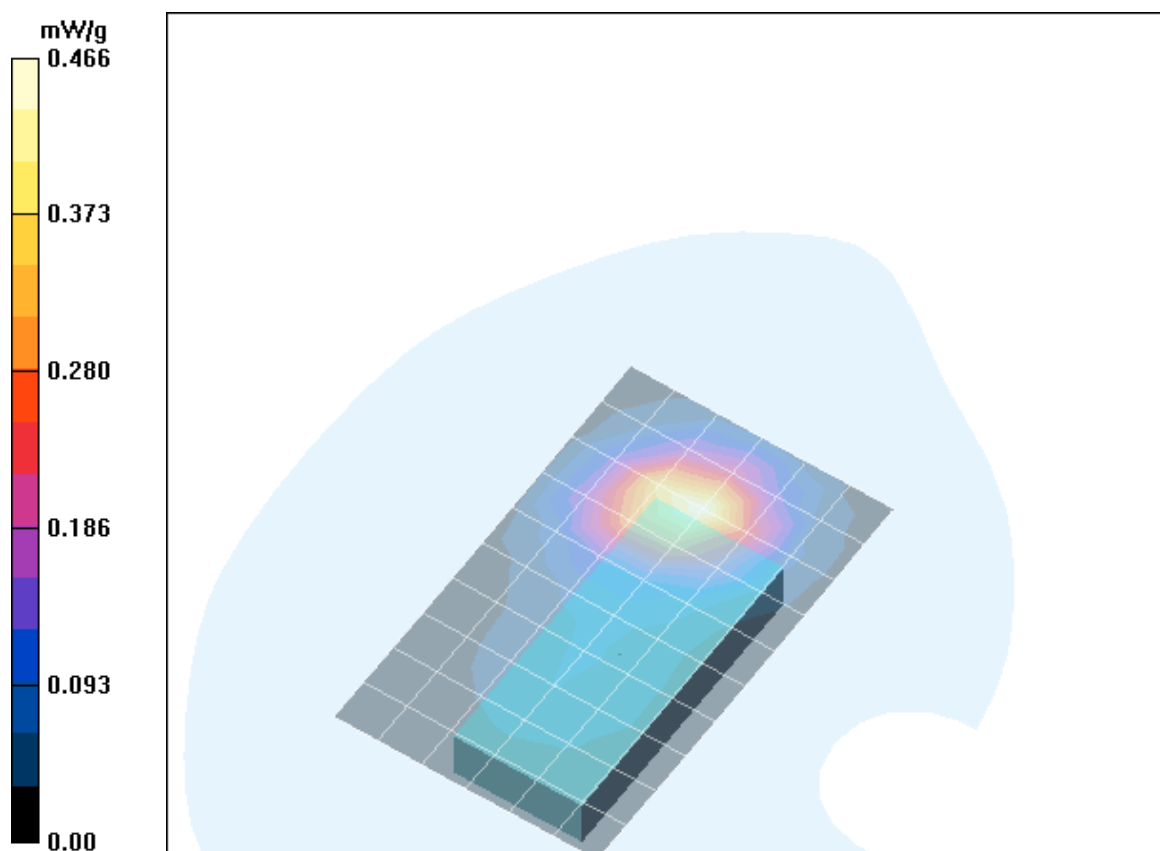


Fig. 10: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GSM with headset, (06.03.2005; Ambient Temperature: 22.5° C; Liquid Temperature : 21.6° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [802bphm 4 GPRS WDH.da4](#)

DUT: Siemens; **Type:** Aries; **Serial:** 004400011069802

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; $\epsilon_r = 54.2$; $\rho = 1000$ 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 (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.740 mW/g

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

Reference Value = 11.6 V/m; Power Drift = 0.150 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.777 mW/g; SAR(10 g) = 0.456 mW/g

Maximum value of SAR (measured) = 0.852 mW/g

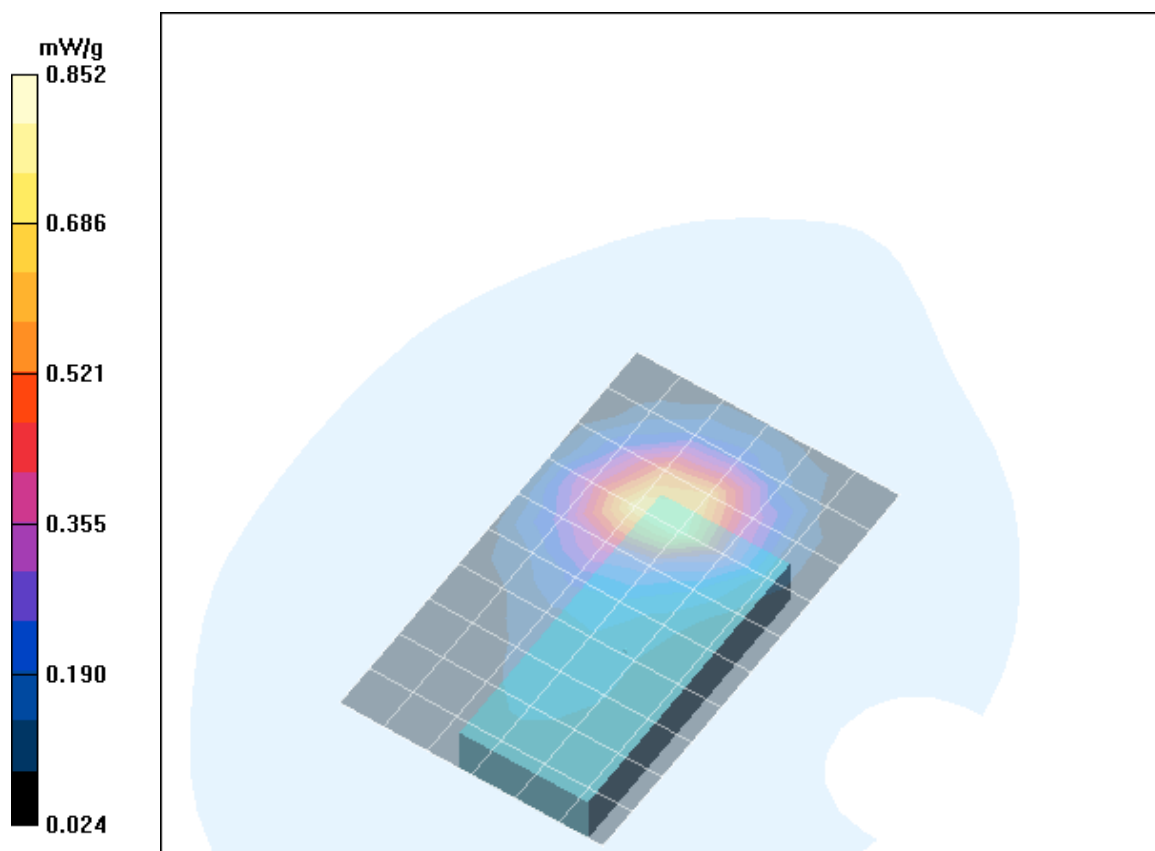


Fig. 11: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GPRS Class 10 with data cable (03.06.2005; Ambient Temperature: 22.5° C; Liquid Temperature : 21.6° C).

4 SAR z-axis scans (Validation)

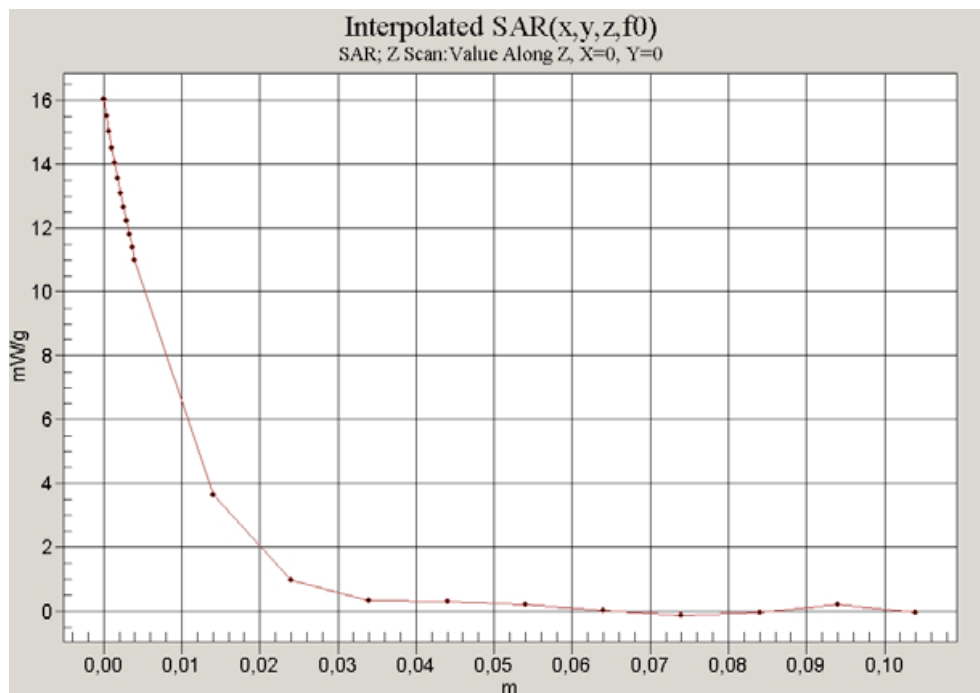


Fig. 12: SAR versus liquid depth, 1900 MHz, head (24.05.2005; Ambient Temperature: 21.8° C; Liquid Temperature : 21.1° C).

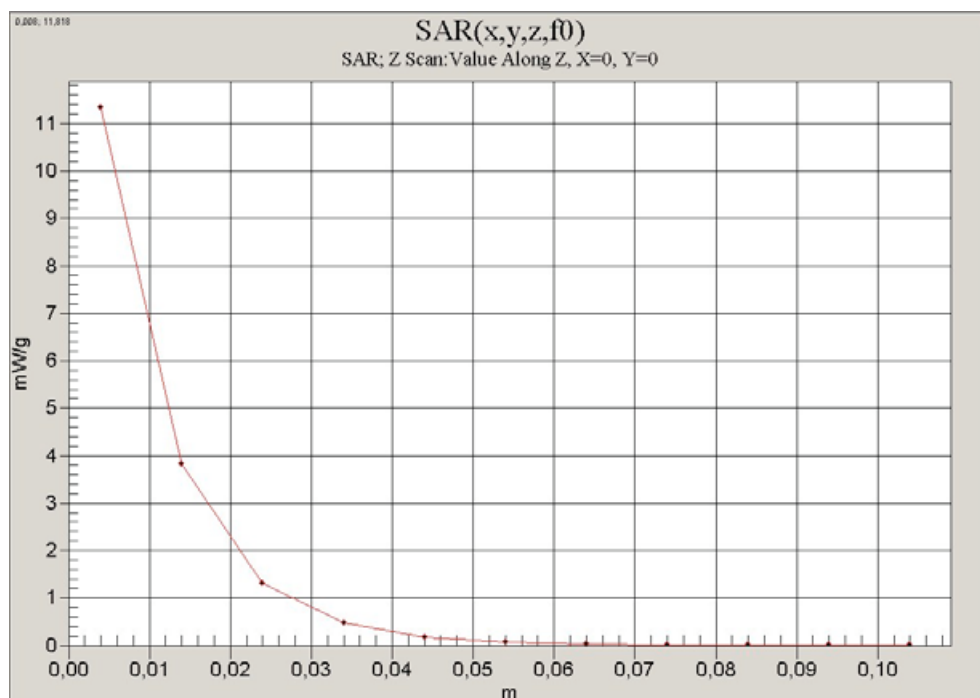


Fig. 13: SAR versus liquid depth, 1900 MHz, body (03.06.2005; Ambient Temperature: 22.5° C; Liquid Temperature : 21.6° C).

5 SAR z-axis scans (Measurements)

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

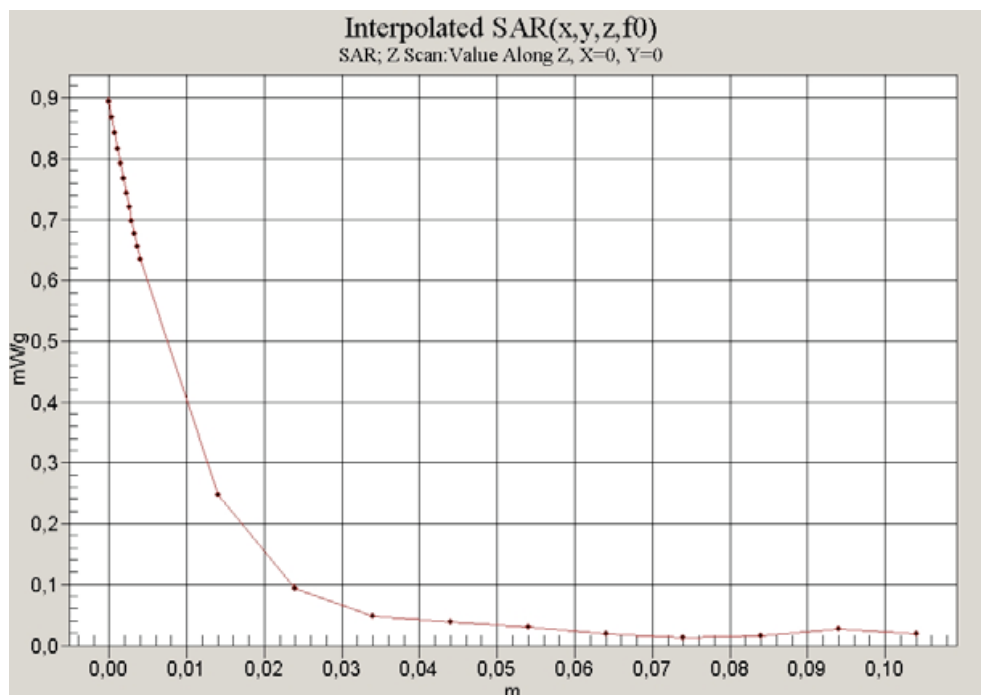


Fig. 14: SAR versus liquid depth, head: PCS 1900, channel 661, tilted position, left side of head without flash (24.05.2005, Ambient Temperature: 21.8° C; Liquid Temperature : 21.1° C).

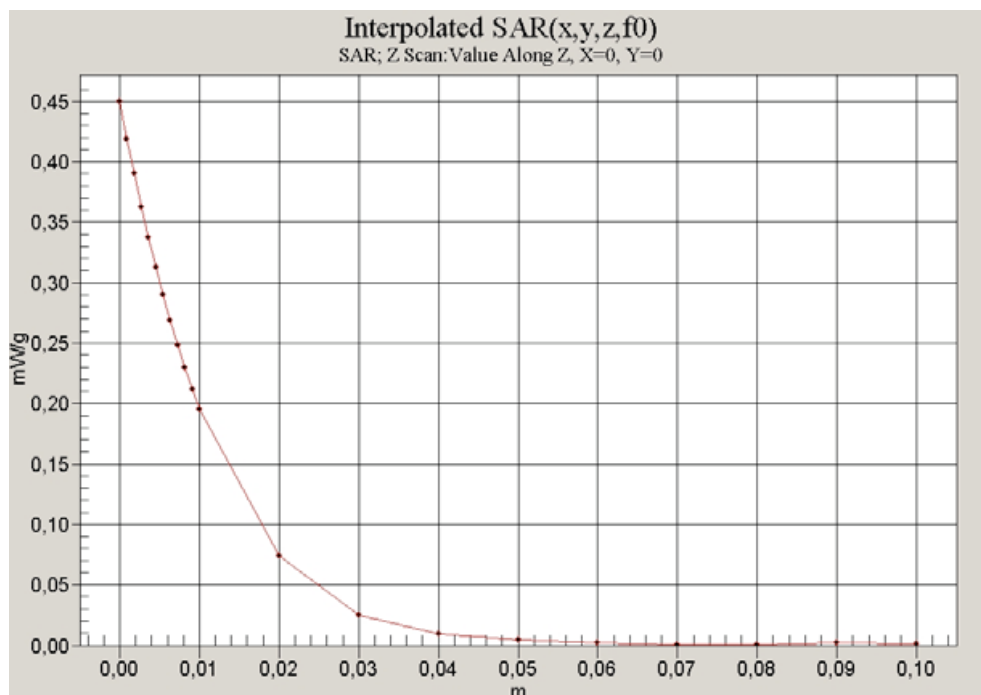


Fig. 15: SAR versus liquid depth, body: PCS 1900, channel 661, antenna towards the phantom, GPRS Class 10 with data cable, (03.06.2005; Ambient Temperature: 22.5° C; Liquid Temperature : 21.6° C).