
Appendix for the Report

Dosimetric Assessment of the Siemens A65 (FCC ID: PWXA65)

According to the FCC Requirements

SAR Distribution Plots

March 14, 2005
IMST GmbH
Carl-Friedrich-Gauß-Str. 2
D-47475 Kamp-Lintfort

Customer
Siemens Information & Communication Mobile LLC
16475 West Bernado Dirve, Suite 400
CA 92127 San Diego

The test results only relate to the items tested.
This report shall not be reproduced except in full without the written
approval of the testing laboratory.

Table of Contents

1	SAR DISTRIBUTION PLOTS, PCS 1900 HEAD, WITHOUT CAMERA.....	3
2	SAR DISTRIBUTION PLOTS, PCS 1900 HEAD, WITH CAMERA	7
3	SAR DISTRIBUTION PLOTS, PCS 1900 BODY WITH HEADSET IN GSM MODE	11
4	SAR DISTRIBUTION PLOTS, PCS 1900 BODY WITH DATA CABLE, GPRS CLASS 8	13
5	SAR Z-AXIS SCANS (VALIDATION)	14
6	SAR Z-AXIS SCANS (MEASUREMENTS).....	15

1 SAR Distribution Plots, PCS 1900 head, without camera

Test Laboratory: IMST GmbH; File Name: [944bplm_1.da4](#)

DUT: Siemens; Type: A65; Serial: 004400006010944

Program Name: Cheek Left

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

Medium parameters used: $\sigma = 1.41$; mho/m, $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$

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: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

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

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

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

Reference Value = 15.1 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.455 W/kg

SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.170 mW/g

Maximum value of SAR (measured) = 0.311 mW/g

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

Reference Value = 15.1 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.473 W/kg

SAR(1 g) = 0.284 mW/g; SAR(10 g) = 0.157 mW/g

Maximum value of SAR (measured) = 0.325 mW/g

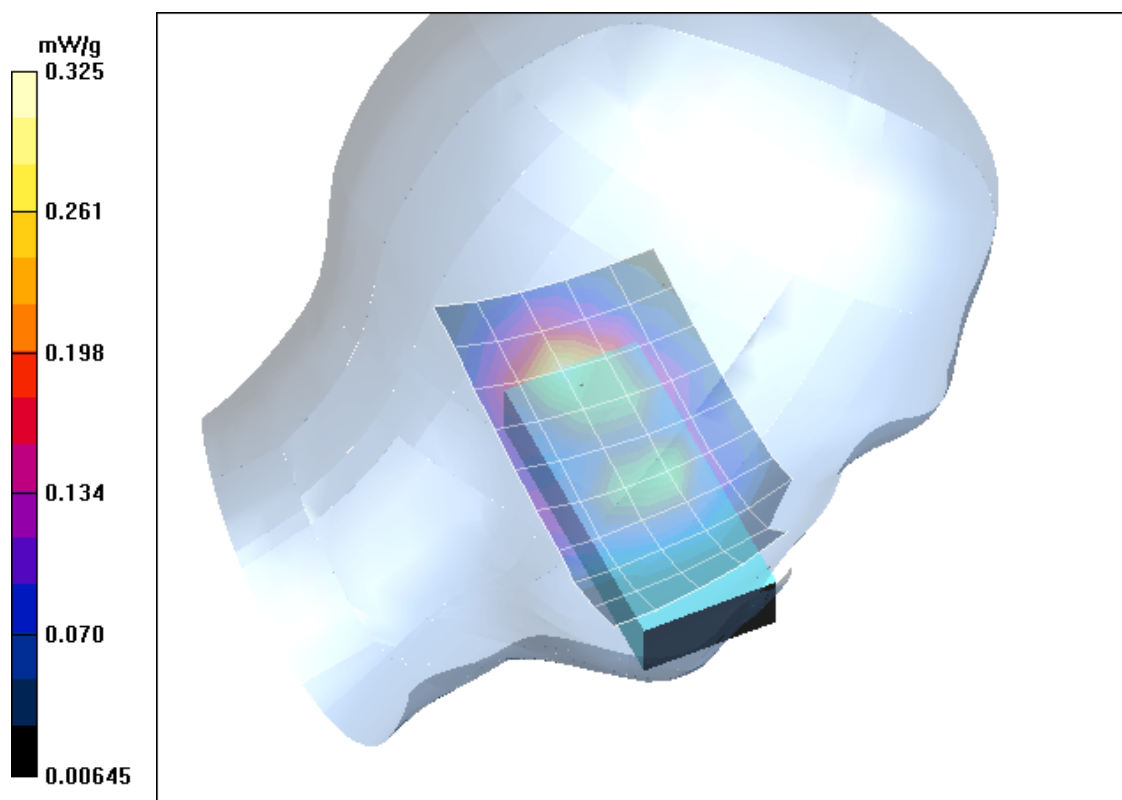


Fig. 1: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (19.01.2005; Ambient Temperature: 21.5° C; Liquid Temperature: 20.5° C).

Test Laboratory: IMST GmbH; **File Name:** [944bplm_2.da4](#)

DUT: Siemens; **Type:** A65; **Serial:** 004400006010944

Program Name: Tilted Left

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

Medium parameters used: $\sigma = 1.41$; mho/m, $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$

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: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

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

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

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

Reference Value = 15.1 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.498 W/kg

SAR(1 g) = 0.307 mW/g; SAR(10 g) = 0.177 mW/g

Maximum value of SAR (measured) = 0.336 mW/g

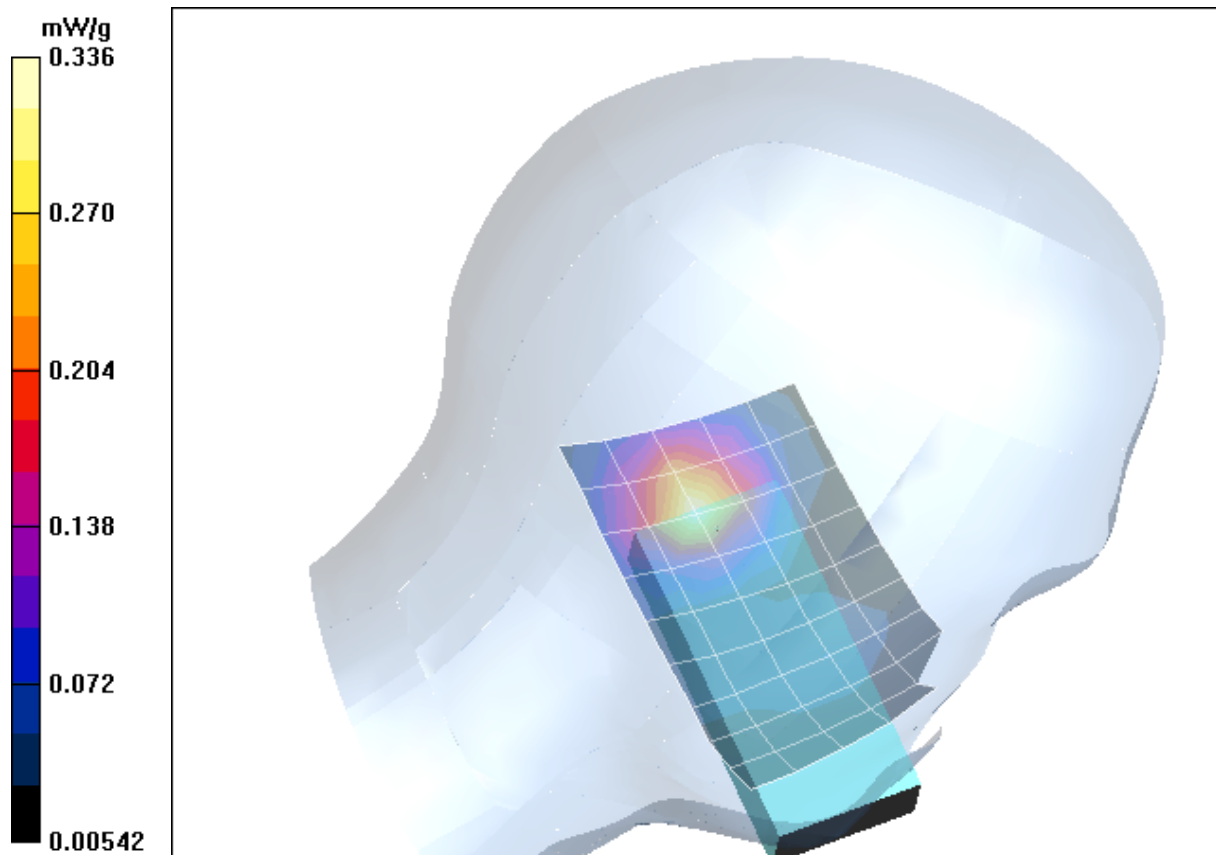


Fig. 2: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (19.01.2005; Ambient Temperature: 21.5° C; Liquid Temperature : 20.5° C).

Test Laboratory: IMST GmbH; **File Name:** [944bprm_1.da4](#)

DUT: Siemens; **Type:** A65; **Serial:** 004400006010944

Program Name: Cheek Right

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

Medium parameters used: $\sigma = 1.41$; mho/m, $\epsilon_r = 40$; $\rho = 1000$ 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: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

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

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

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

Reference Value = 11.8 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.782 W/kg

SAR(1 g) = 0.433 mW/g; SAR(10 g) = 0.233 mW/g

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

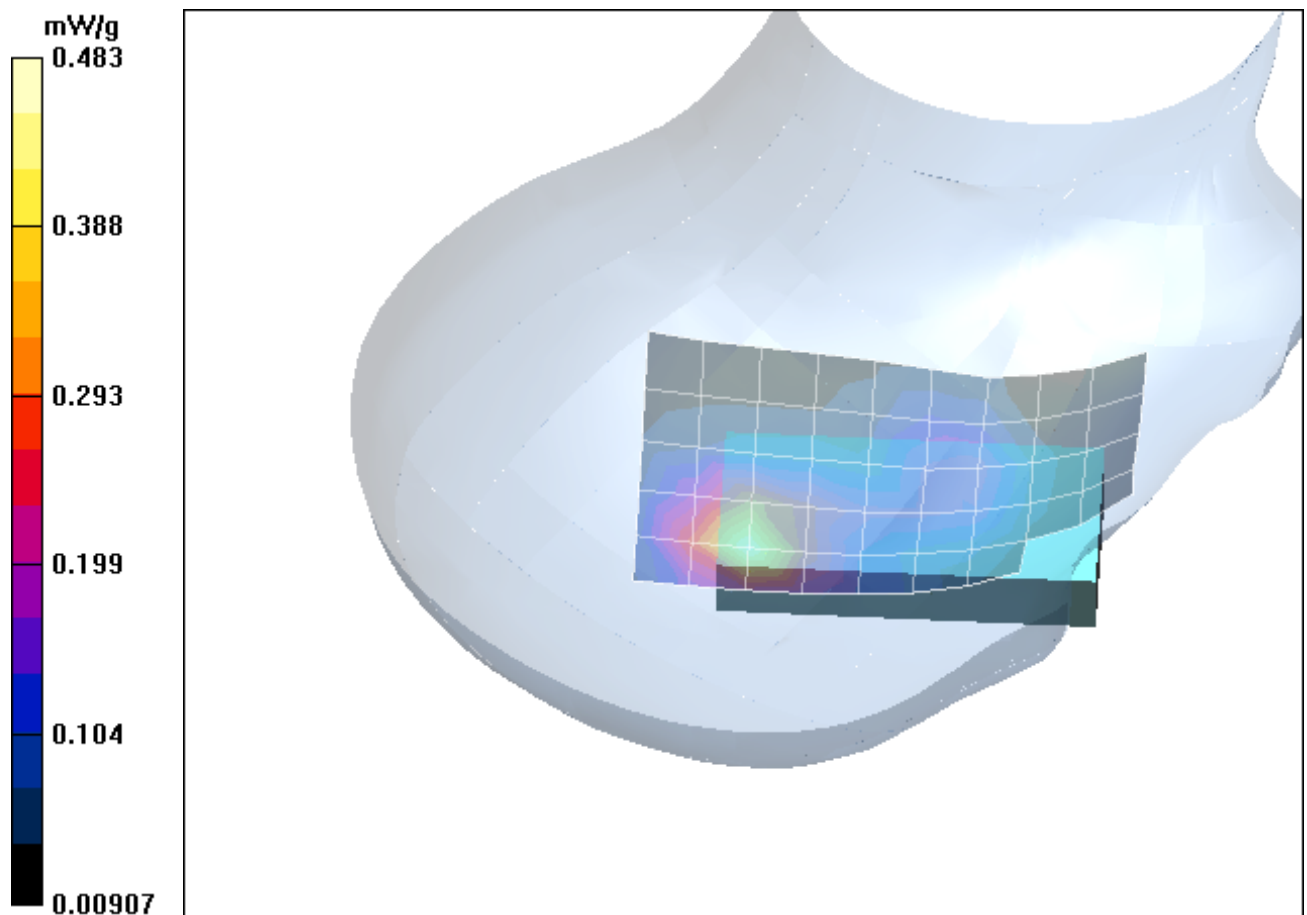


Fig. 3: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (19.01.2005; Ambient Temperature: 21.5° C; Liquid Temperature : 20.6° C).

Test Laboratory: IMST GmbH; **File Name:** [944bprm_2.da4](#)

DUT: Siemens; **Type:** A65; **Serial:** 004400006010944

Program Name: Tilted Right

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

Medium parameters used: $\sigma = 1.41$; mho/m, $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$

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: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

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

Maximum value of SAR (measured) = 0.388 mW/g

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

Reference Value = 11.5 V/m; Power Drift = 0.032 dB

Peak SAR (extrapolated) = 0.765 W/kg

SAR(1 g) = 0.435 mW/g; SAR(10 g) = 0.229 mW/g

Maximum value of SAR (measured) = 0.495 mW/g

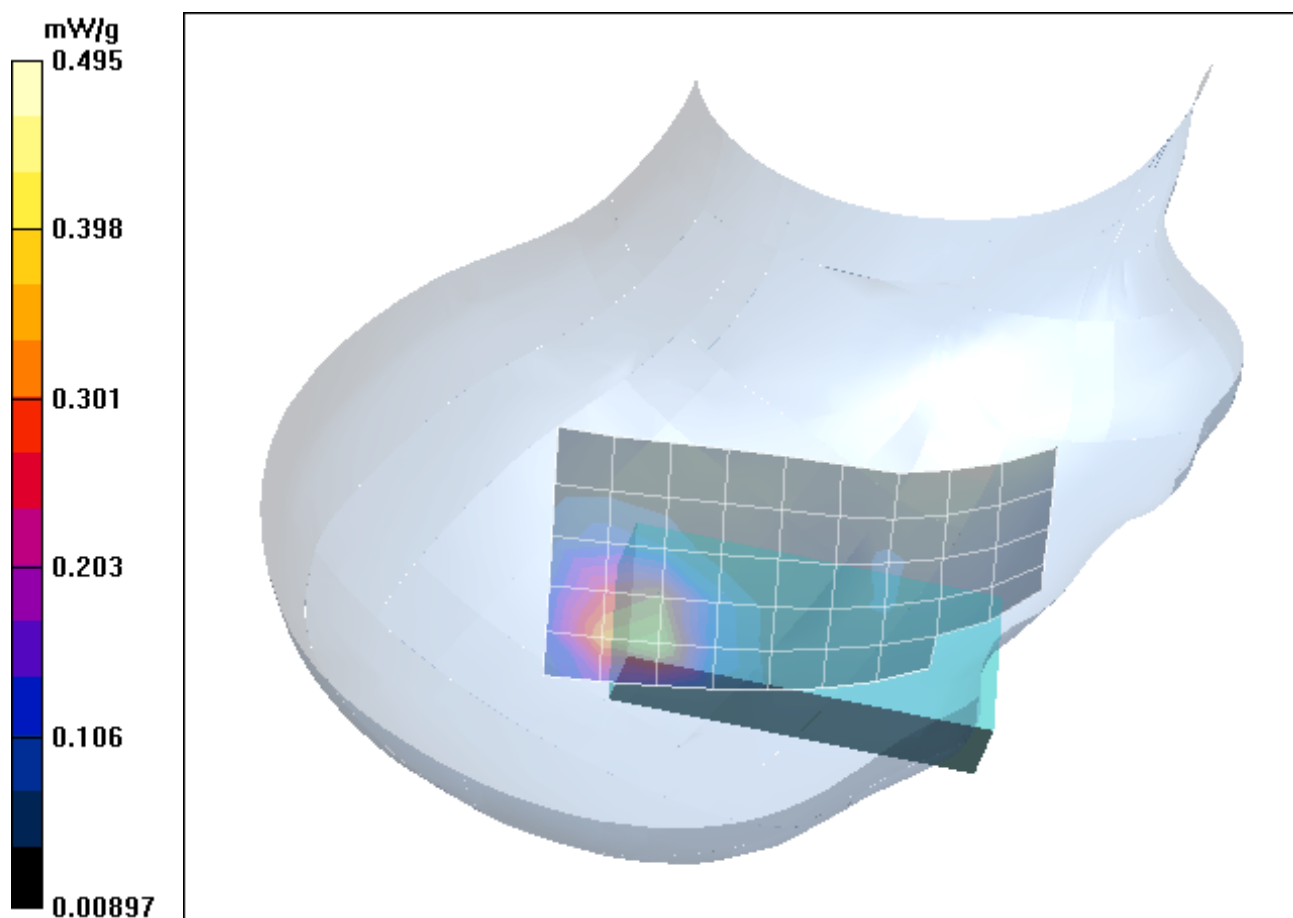


Fig. 4: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (19.01.2005; Ambient Temperature: 21.5° C; Liquid Temperature : 20.6° C).

2 SAR Distribution Plots, PCS 1900 head, with camera

Test Laboratory: IMST GmbH; File Name: [944bplm_1_camflash.da4](#)

DUT: Siemens; Type: A65; Serial: 004400006010944

Program Name: Cheek Left

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

Medium parameters used: $\sigma = 1.41$; mho/m, $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$

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: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

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

Maximum value of SAR (measured) = 0.298 mW/g

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

Reference Value = 18.8 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.499 W/kg

SAR(1 g) = 0.294 mW/g; SAR(10 g) = 0.168 mW/g

Maximum value of SAR (measured) = 0.324 mW/g

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

Reference Value = 18.8 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.350 W/kg

SAR(1 g) = 0.225 mW/g; SAR(10 g) = 0.133 mW/g

Maximum value of SAR (measured) = 0.243 mW/g

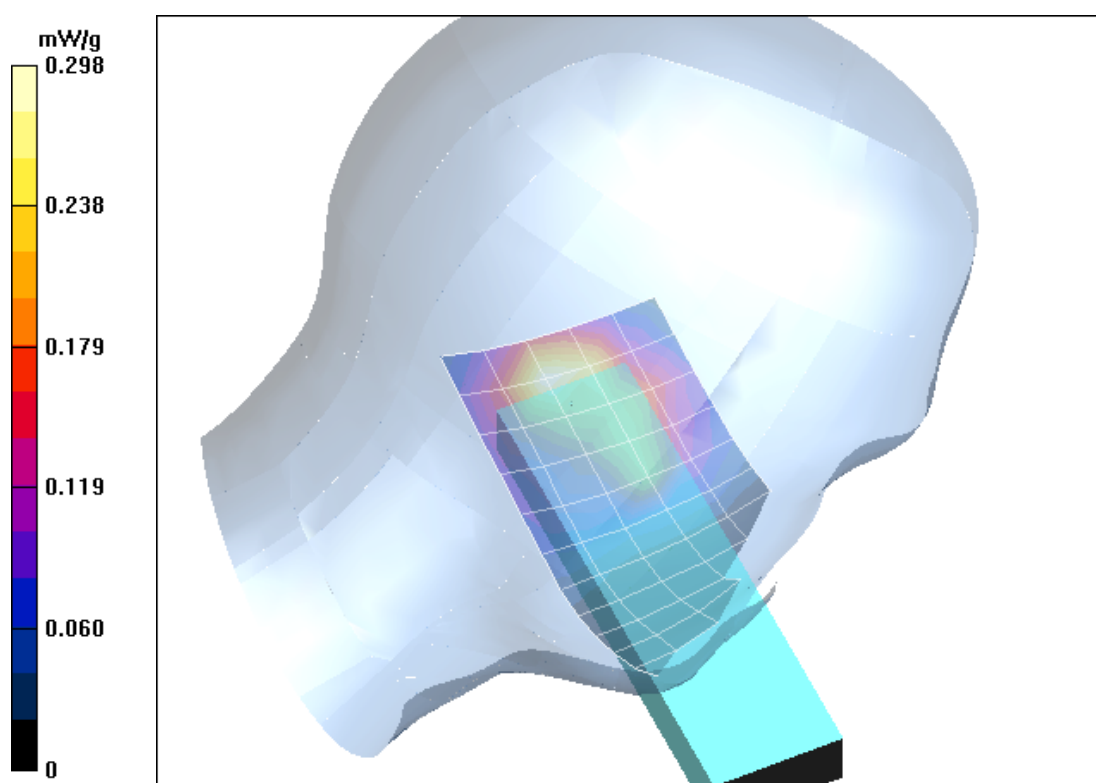


Fig. 5: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (19.01.2005; Ambient Temperature: 21.5° C; Liquid Temperature: 20.6° C).

Test Laboratory: IMST GmbH; File Name: [944bplm_2_camflash.da4](#)

DUT: Siemens; Type: A65; Serial: 004400006010944

Program Name: Tilted Left

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

Medium parameters used: $\sigma = 1.41$; mho/m, $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$

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: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

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

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

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

Reference Value = 15.7 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 0.580 W/kg

SAR(1 g) = 0.332 mW/g; SAR(10 g) = 0.184 mW/g

Maximum value of SAR (measured) = 0.370 mW/g

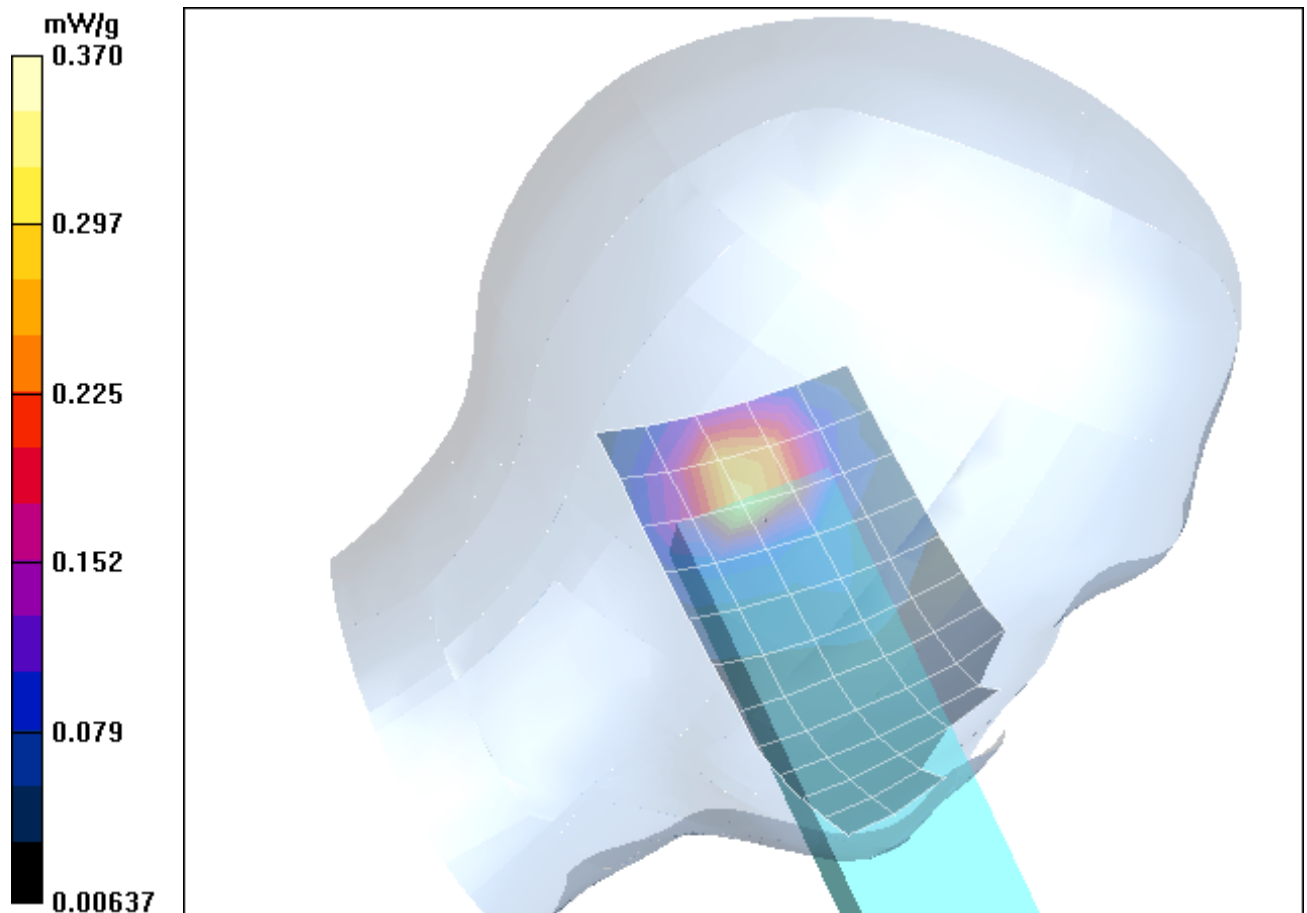


Fig. 6: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (19.01.2005; Ambient Temperature: 21.5° C; Liquid Temperature: 20.5° C).

Test Laboratory: IMST GmbH; **File Name:** [944bprm_1_camflash.da4](#)

DUT: Siemens; **Type:** A65; **Serial:** 004400006010944

Program Name: Cheek Right

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

Medium parameters used: $\sigma = 1.41$; mho/m, $\epsilon_r = 40$; $\rho = 1000$ 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: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

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

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

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

Reference Value = 12.4 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 0.762 W/kg

SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.219 mW/g

Maximum value of SAR (measured) = 0.464 mW/g

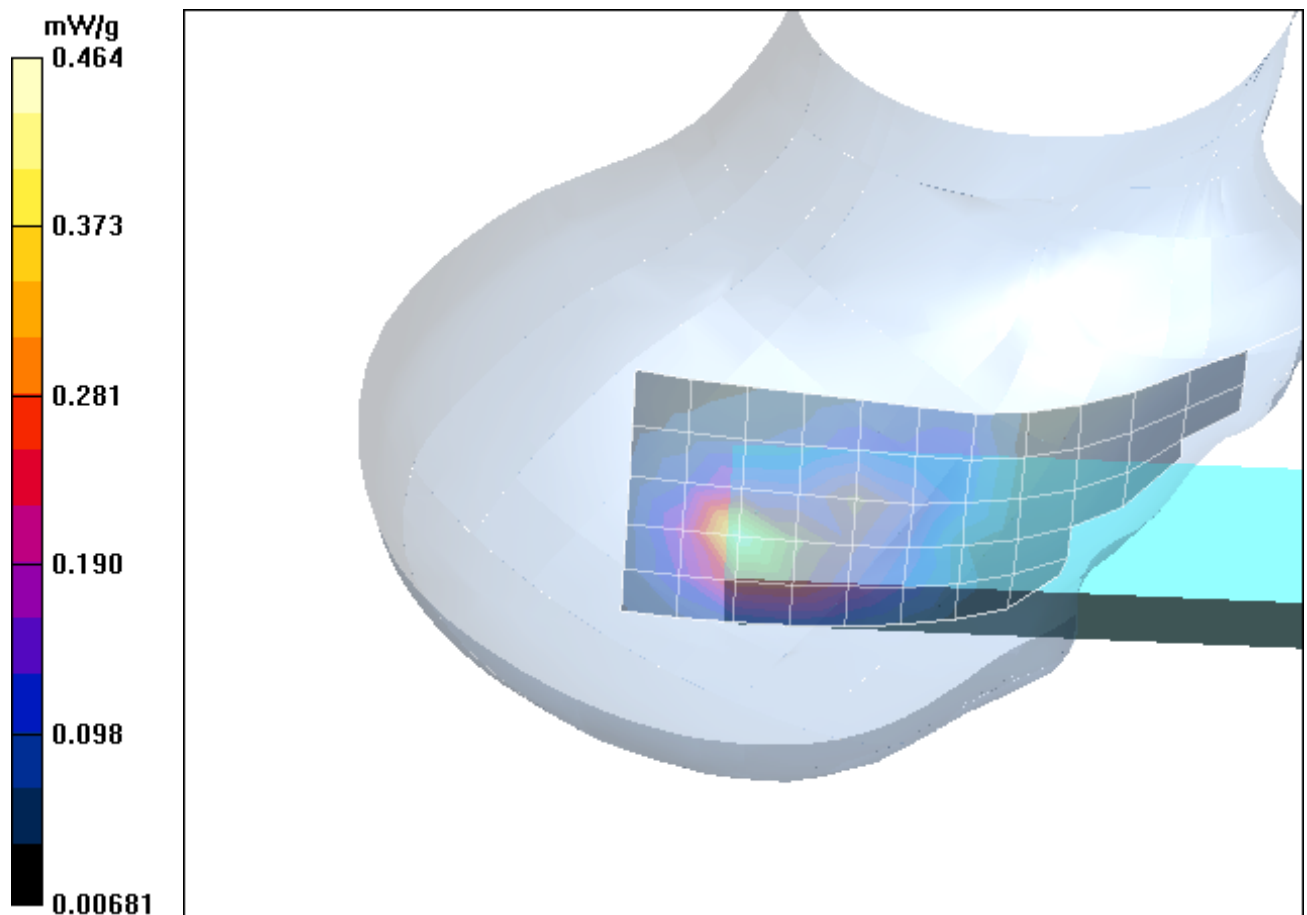


Fig. 7: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (19.01.2005; Ambient Temperature: 21.6° C; Liquid Temperature : 20.5° C).

Test Laboratory: IMST GmbH; **File Name:** [944bprm 2 camflash.da4](#)

DUT: Siemens; **Type:** A65; **Serial:** 004400006010944

Program Name: Tilted Right

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

Medium parameters used: $\sigma = 1.41$; mho/m, $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$

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: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

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

Maximum value of SAR (measured) = 0.325 mW/g

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

Reference Value = 11.7 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.696 W/kg

SAR(1 g) = 0.393 mW/g; SAR(10 g) = 0.206 mW/g

Maximum value of SAR (measured) = 0.443 mW/g

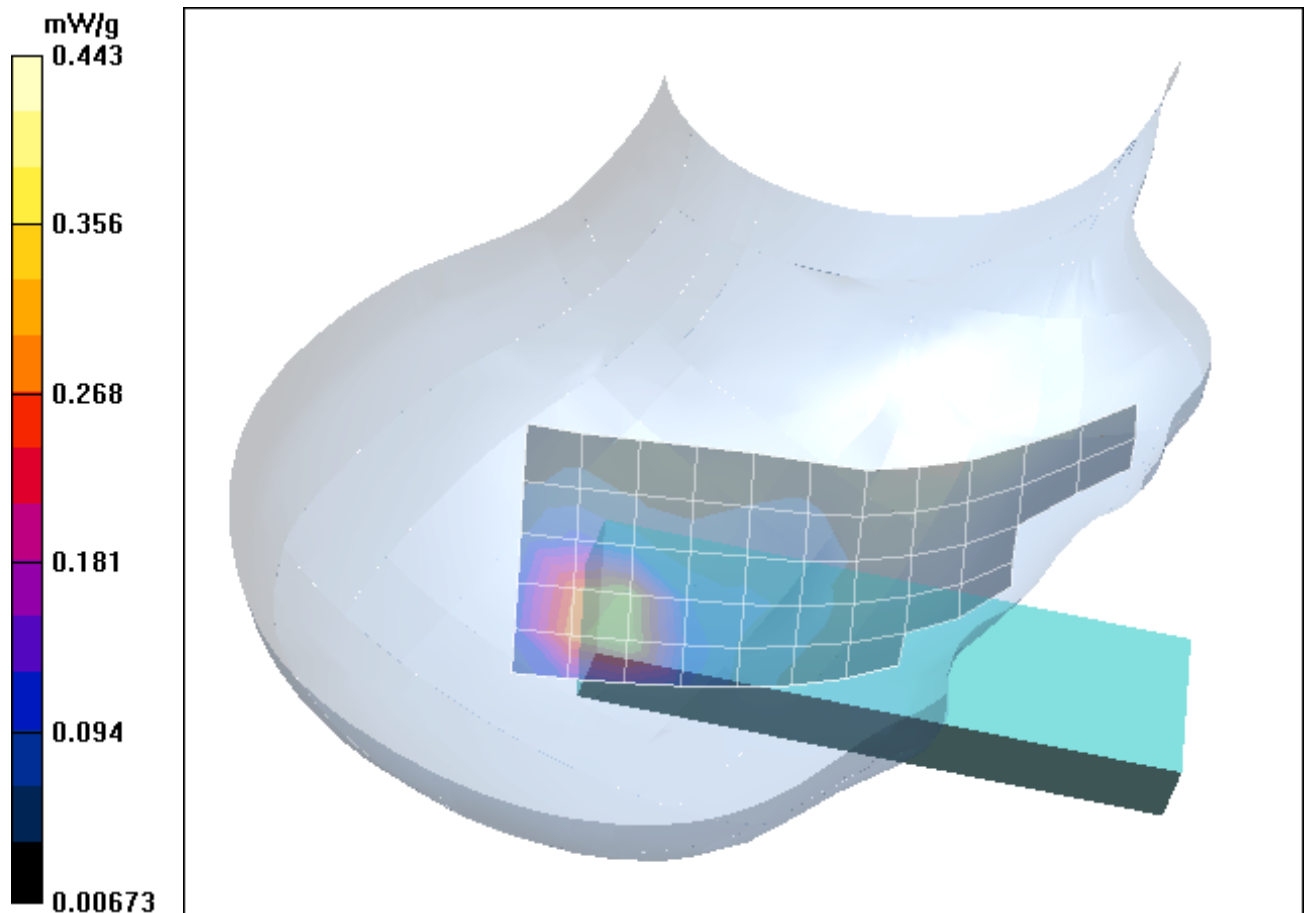


Fig. 8: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (19.01.2005; Ambient Temperature: 21.6 °C; Liquid Temperature : 20.6° C)

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

Test Laboratory: IMST GmbH; File Name: [944yphm_3.da4](#)

DUT: Siemens; Type: A65; Serial: 004400006010944

Program Name: Body Worn

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

Medium parameters used: $\sigma = 1.5$; mho/m, $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

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

Maximum value of SAR (measured) = 0.513 mW/g

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

Reference Value = 33.4 V/m; Power Drift = 0.057 dB

Peak SAR (extrapolated) = 0.686 W/kg

SAR(1 g) = 0.480 mW/g; SAR(10 g) = 0.302 mW/g

Maximum value of SAR (measured) = 0.520 mW/g

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

Reference Value = 33.4 V/m; Power Drift = 0.057 dB

Peak SAR (extrapolated) = 0.406 W/kg

SAR(1 g) = 0.248 mW/g; SAR(10 g) = 0.154 mW/g

Maximum value of SAR (measured) = 0.266 mW/g

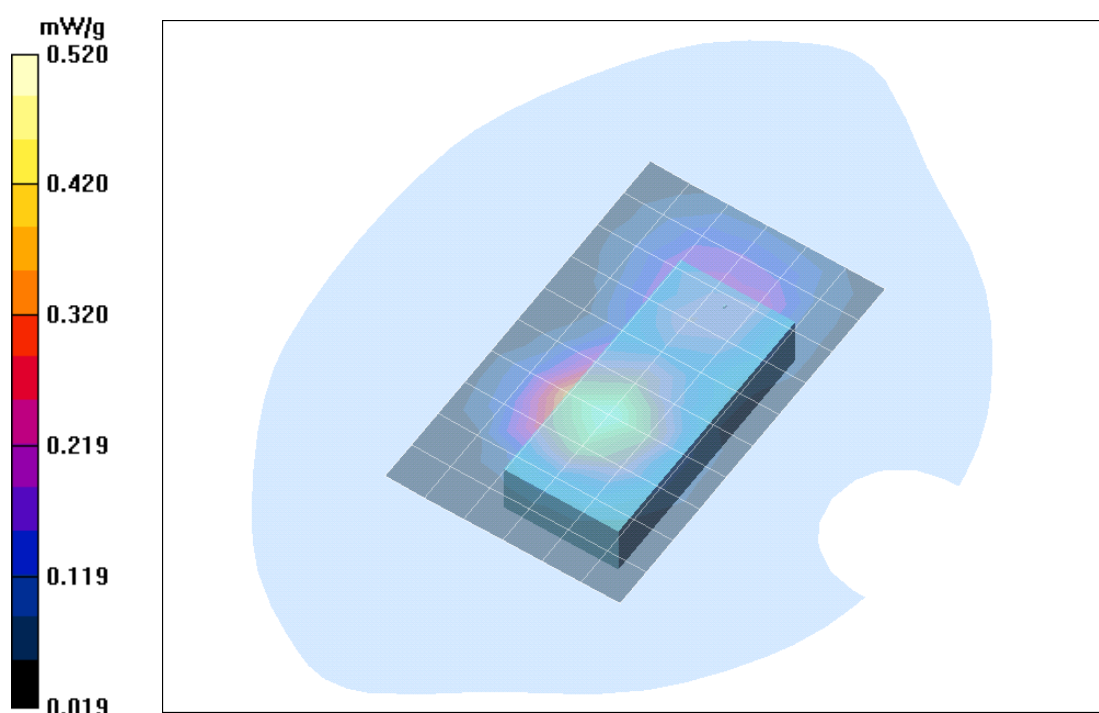


Fig. 9: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with headset and FCT 650 carry case with 10 mm distance (20.01.2005; Ambient Temperature: 22.1° C; Liquid Temperature: 21.1° C).

Test Laboratory: IMST GmbH; **File Name:** [944yphm_1.da4](#)

DUT: Siemens; **Type:** A65; **Serial:** 004400006010944

Program Name: Body Worn

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

Medium parameters used: $\sigma = 1.5$; mho/m, $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

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

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

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

Reference Value = 23.8 V/m; Power Drift = 0.002 dB

Peak SAR (extrapolated) = 0.457 W/kg

SAR(1 g) = 0.304 mW/g; SAR(10 g) = 0.192 mW/g

Maximum value of SAR (measured) = 0.329 mW/g

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

Reference Value = 23.8 V/m; Power Drift = 0.002 dB

Peak SAR (extrapolated) = 0.436 W/kg

SAR(1 g) = 0.304 mW/g; SAR(10 g) = 0.195 mW/g

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

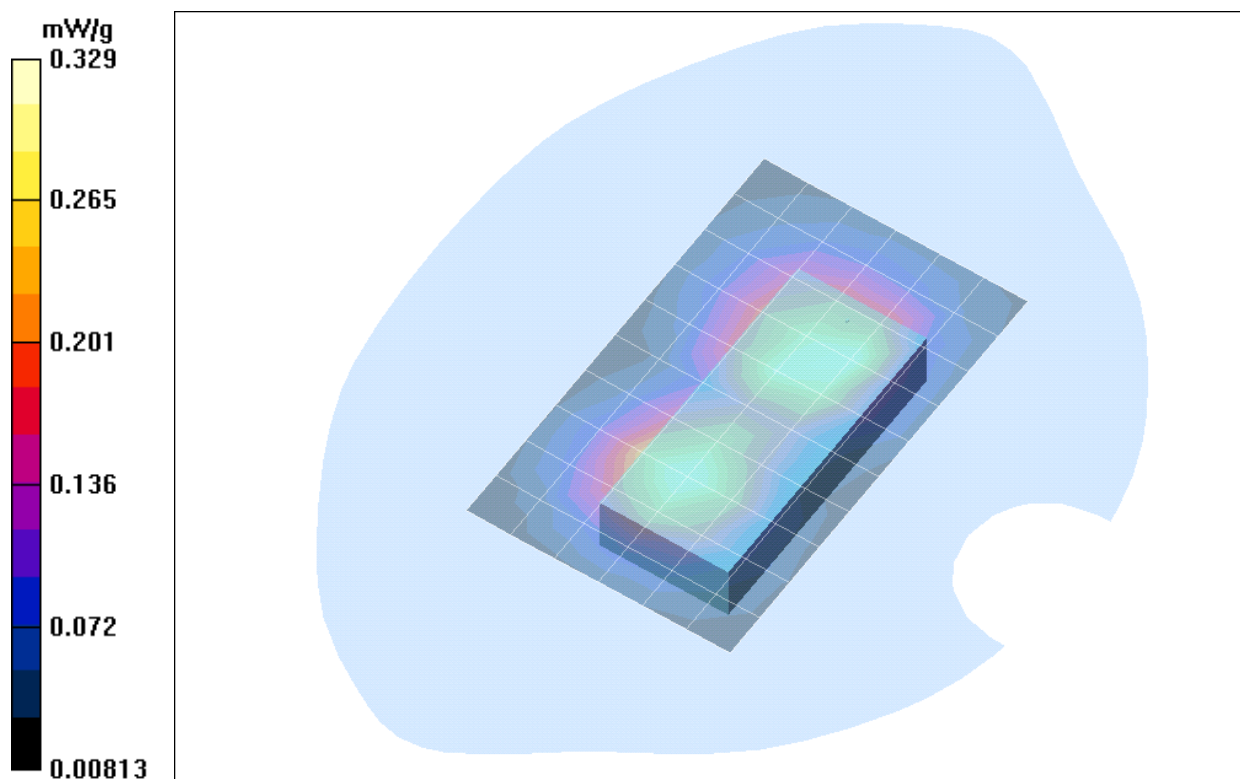


Fig. 10: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with headset and FCL 600 carry case with 13 mm distance (20.01.2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.0° C).

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

Test Laboratory: IMST GmbH; File Name: [944vphm_2.da4](#)

DUT: Siemens; Type: A65; Serial: 004400006010944

Program Name: Body Worn

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

Medium parameters used: $\sigma = 1.5$; mho/m, $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn631; Calibrated: 23.07.2004

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

- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

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

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

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

Reference Value = 24.1 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 0.393 W/kg

SAR(1 g) = 0.263 mW/g; SAR(10 g) = 0.166 mW/g

Maximum value of SAR (measured) = 0.283 mW/g

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

Reference Value = 24.1 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 0.316 W/kg

SAR(1 g) = 0.222 mW/g; SAR(10 g) = 0.143 mW/g

Maximum value of SAR (measured) = 0.238 mW/g

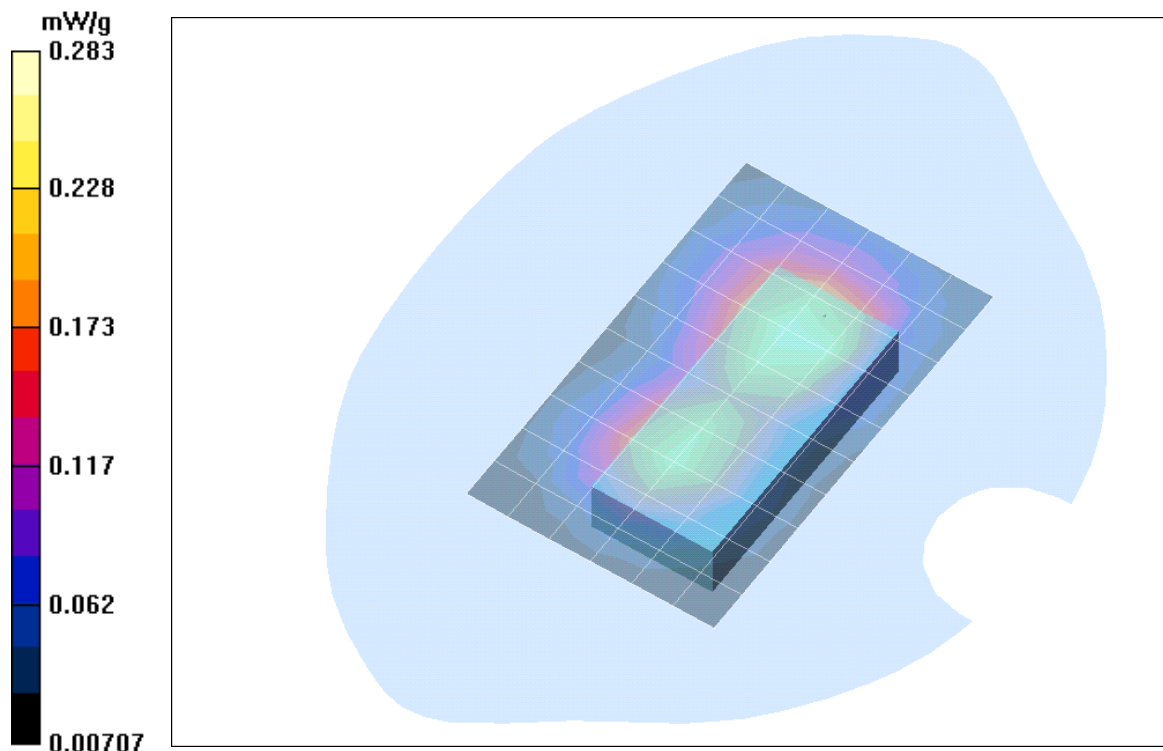


Fig. 11: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with data cable GPRS class 8 and FCL 600 carry case with 13 mm distance (20.01.2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.0° C).

5 SAR z-axis scans (Validation)

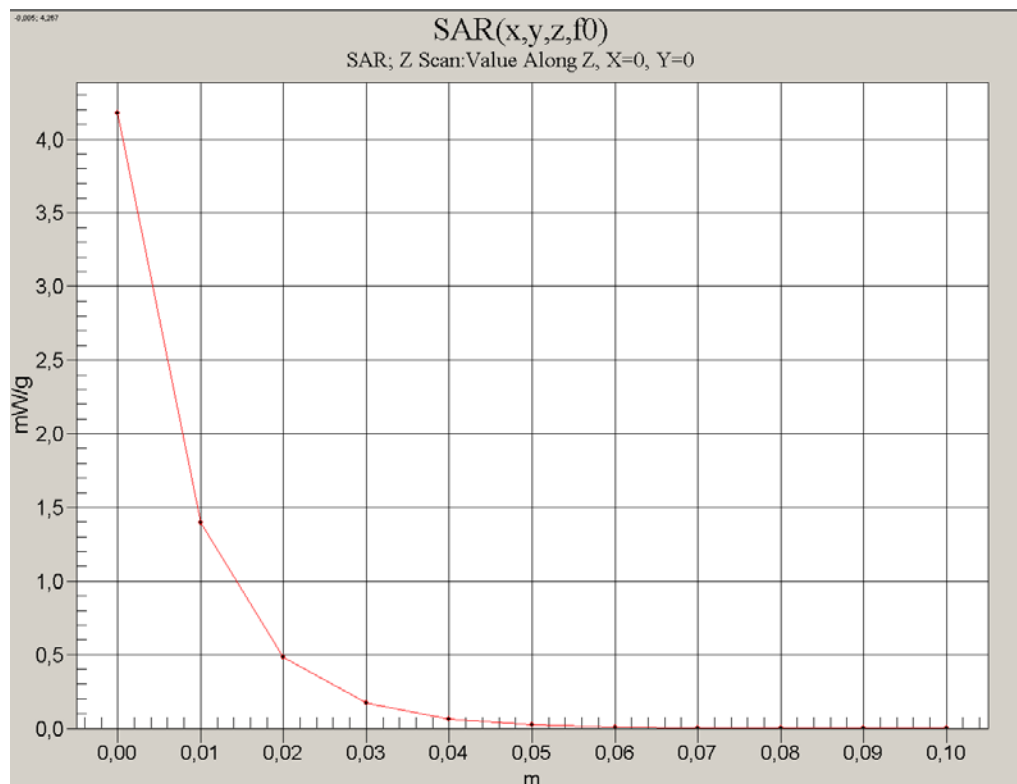


Fig. 12: SAR versus liquid depth, 1900 MHz, head (19.01.2005; Ambient Temperature: 21.8° C; Liquid Temperature : 21.4° C).

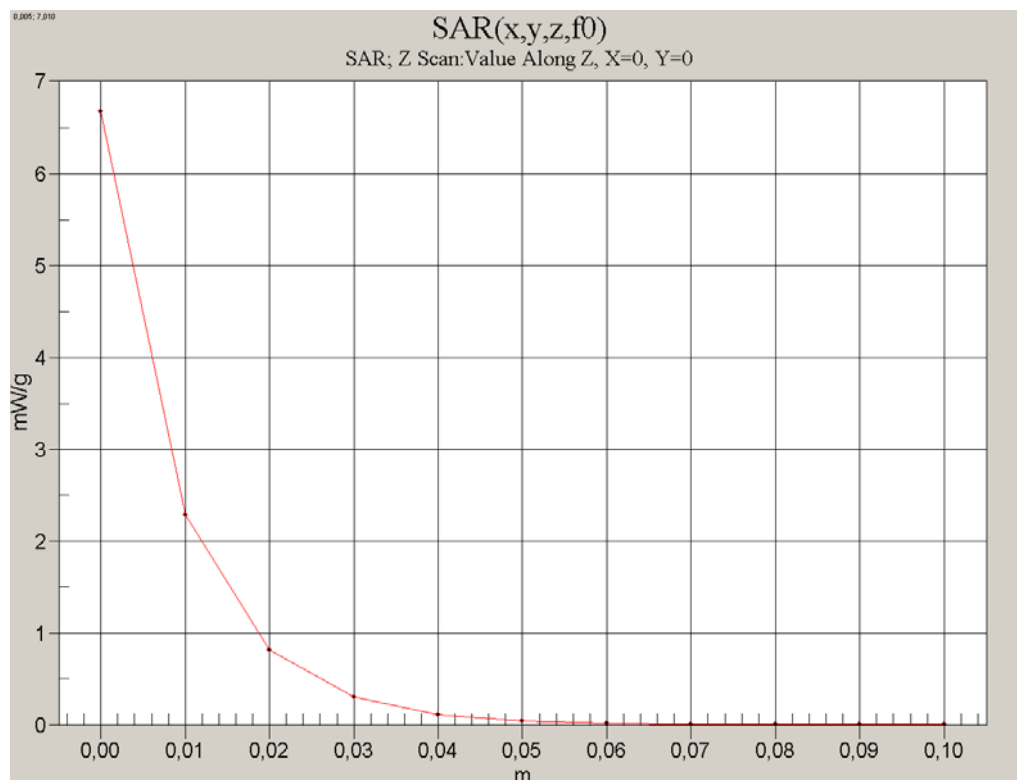


Fig. 13: SAR versus liquid depth, 1900 MHz, body (20.01.2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.0° C).

6 SAR z-axis scans (Measurements)

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

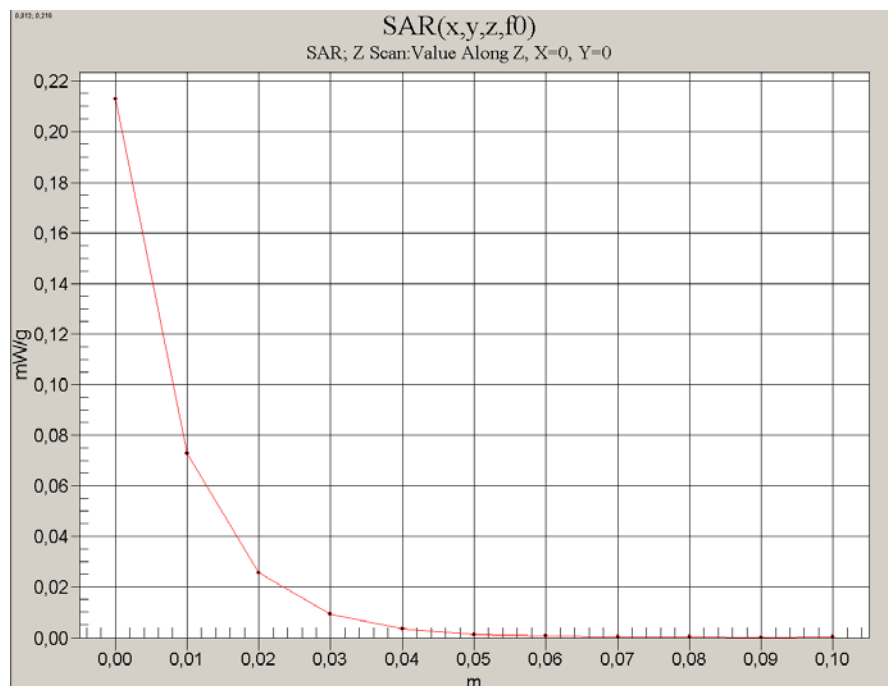


Fig. 14: SAR versus liquid depth, head: PCS 1900, channel 661, tilted position, right side of head without cam (19.01.2005, Ambient Temperature: 21.5° C; Liquid Temperature : 20.6° C).

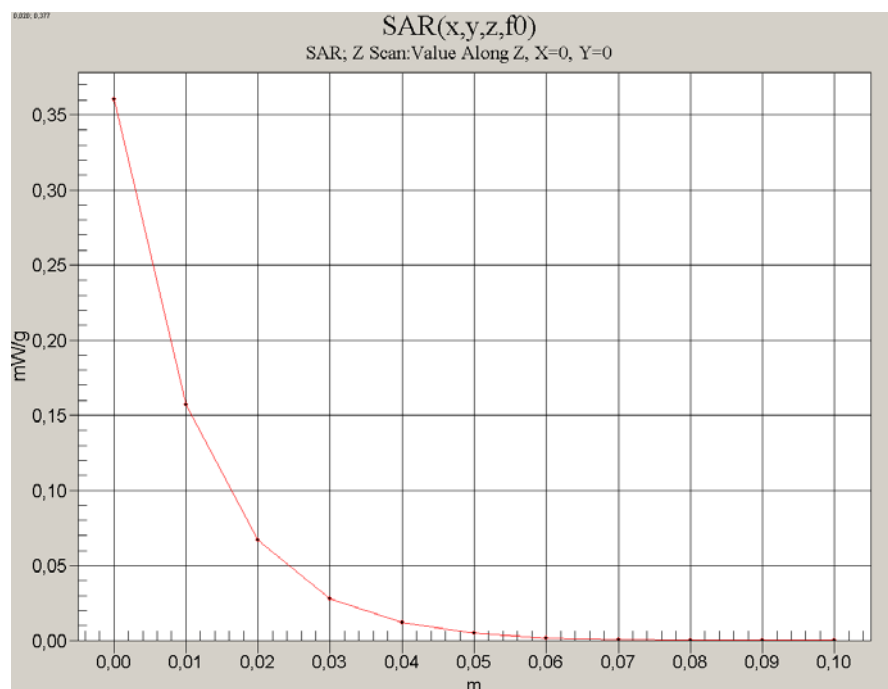


Fig. 15: SAR versus liquid depth: PCS 1900, channel 661, body worn configuration, antenna towards the phantom, headset, GSM mode and FCT 650 carry case with 10 mm distance (20.01.2005, Ambient Temperature: 22.1° C; Liquid Temperature: 21.1° C).