
Appendix for the Report

Dosimetric Assessment of the Siemens CF75 (FCC ID: PWX-CF75)

According to the FCC Requirements

SAR Distribution Plots

May 25, 2005
IMST GmbH
Carl-Friedrich-Gauß-Str. 2
D-47475 Kamp-Lintfort

Customer
Roke Manor Research Limited
Romsey
Hampshire UK
SO51 0ZN

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 FLASH	3
2	SAR DISTRIBUTION PLOTS, PCS 1900 HEAD, WITH FLASH.....	9
3	SAR DISTRIBUTION PLOTS, PCS 1900 BODY WORN (GAP = 15 MM)	13
4	SAR Z-AXIS SCANS (VALIDATION)	16
5	SAR Z-AXIS SCANS (MEASUREMENTS).....	17

1 SAR Distribution Plots, PCS 1900 head, without flash

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [085yp1m_1.da4](#)

DUT: Siemens; Type: CF75; Serial: 004400008886085

Program Name: Cheek Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ 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) = 0.764 mW/g

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

Reference Value = 9.86 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.955 W/kg

SAR(1 g) = 0.672 mW/g; SAR(10 g) = 0.364 mW/g

Maximum value of SAR (measured) = 0.762 mW/g

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

Reference Value = 9.86 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.948 W/kg

SAR(1 g) = 0.669 mW/g; SAR(10 g) = 0.377 mW/g

Maximum value of SAR (measured) = 0.757 mW/g

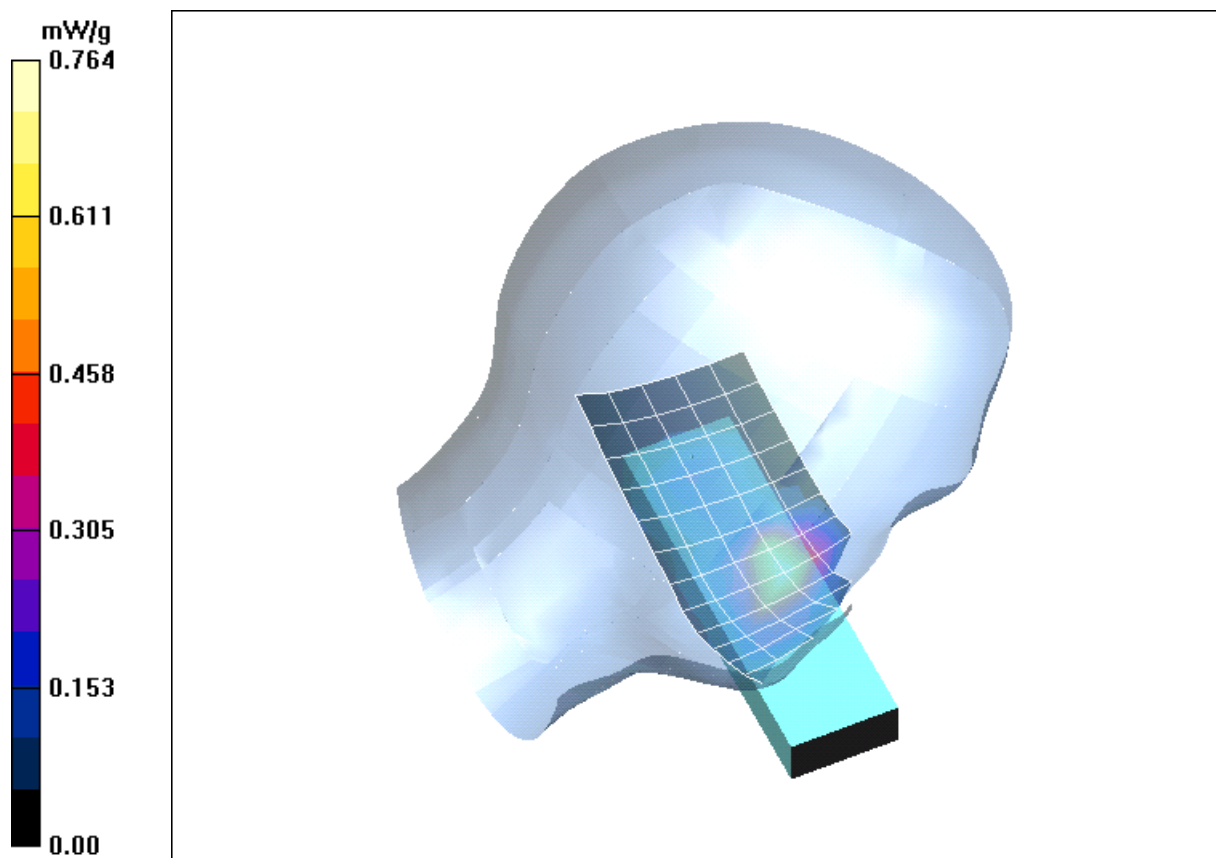


Fig. 1: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (05.23.2005; Ambient Temperature: 21.8° C; Liquid Temperature: 21.0° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [085yp1m_2.da4](#)

DUT: Siemens; **Type:** CF75; **Serial:** 004400008886085

Program Name: Tilted Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ 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 (6x14x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 15.0 V/m; Power Drift = -0.132 dB

Peak SAR (extrapolated) = 0.595 W/kg

SAR(1 g) = 0.453 mW/g; SAR(10 g) = 0.281 mW/g

Maximum value of SAR (measured) = 0.492 mW/g

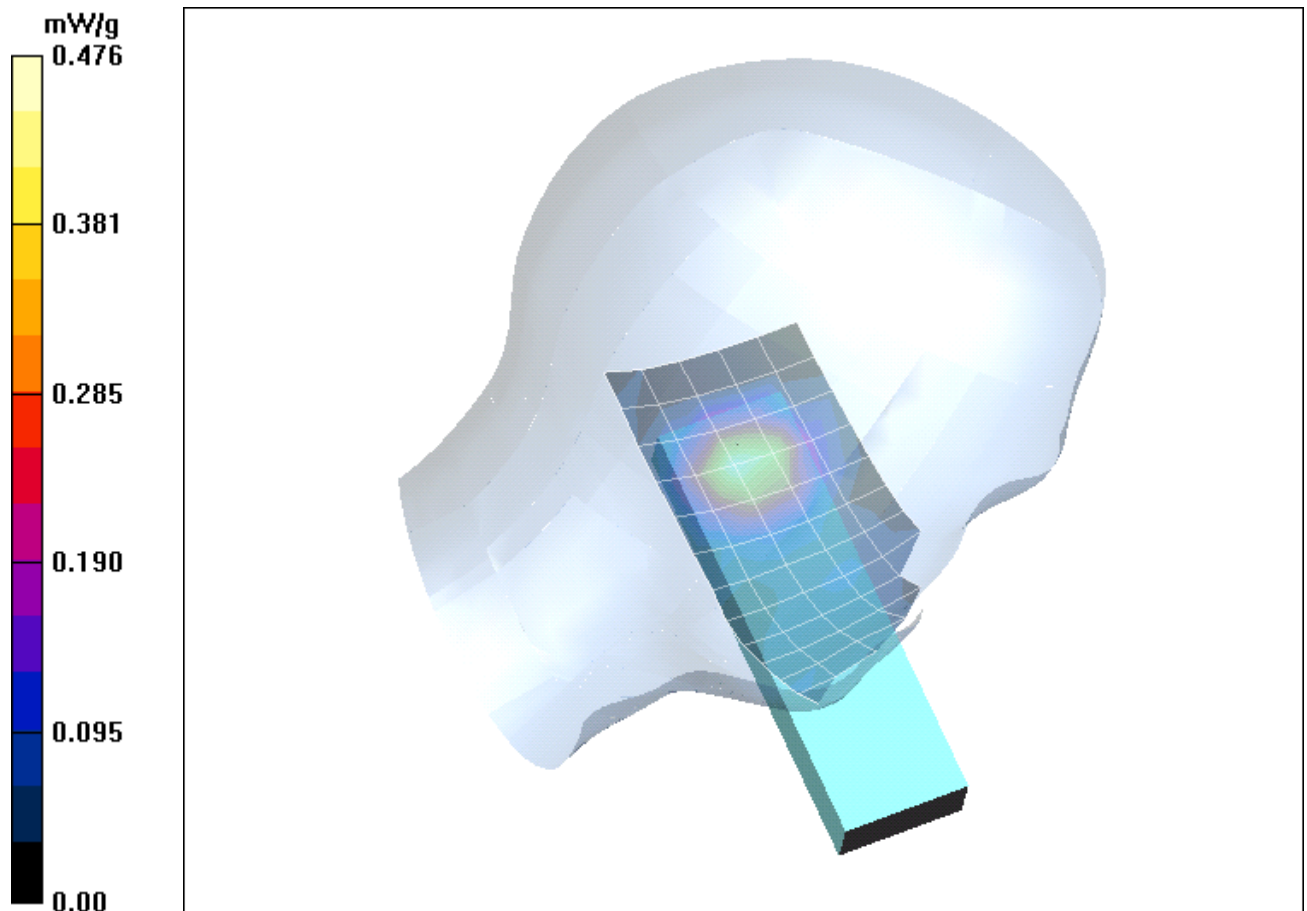


Fig. 2: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (05.23.2005; Ambient Temperature: 21.7° C; Liquid Temperature: 21.0° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [085yprm_1.da4](#)

DUT: Siemens; **Type:** CF75; **Serial:** 004400008886085

Program Name: Cheek Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ 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) = 0.947 mW/g

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

Reference Value = 9.24 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 0.949 mW/g; SAR(10 g) = 0.515 mW/g

Maximum value of SAR (measured) = 1.06 mW/g

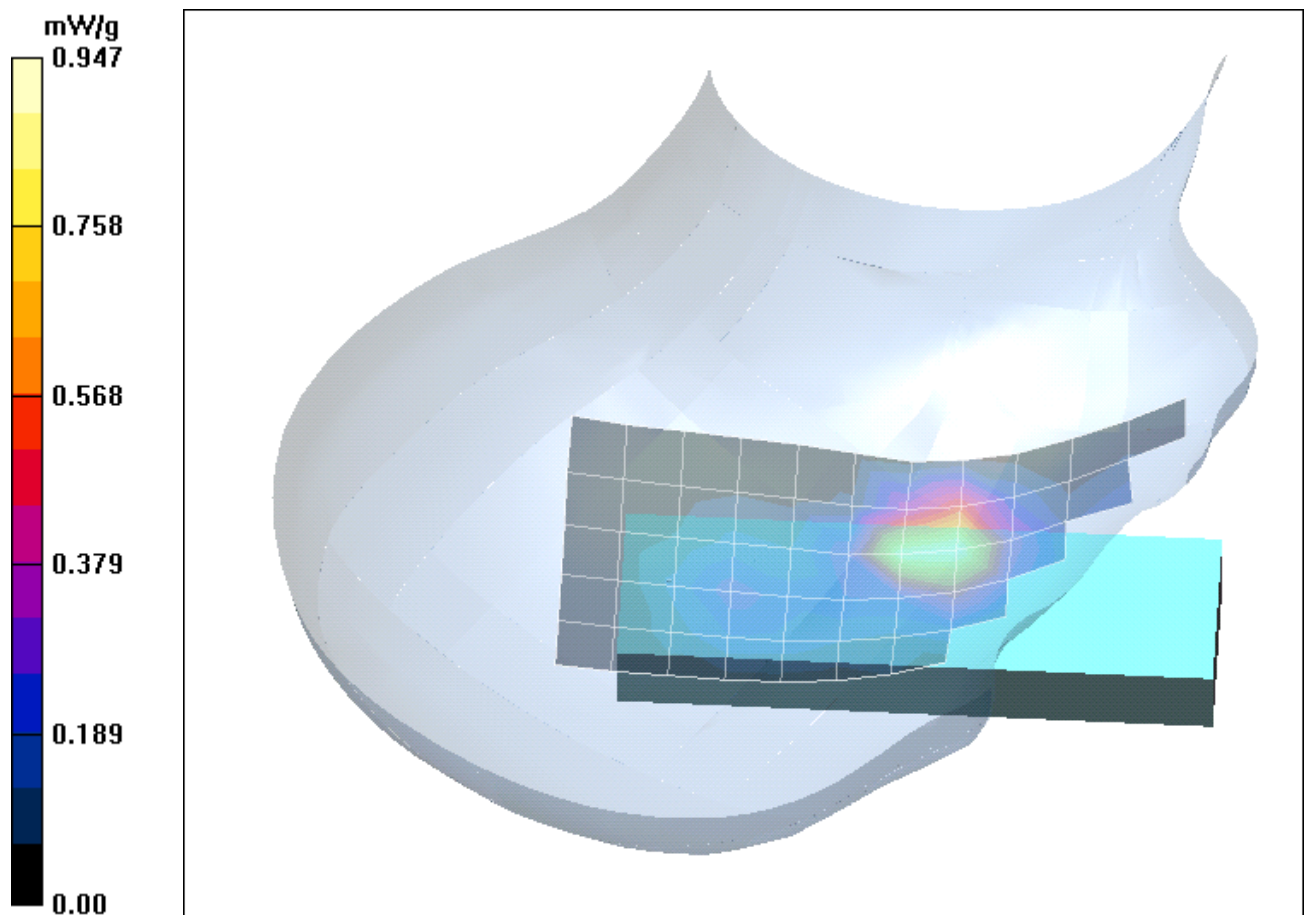


Fig. 3: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (05.23.2005; Ambient Temperature: 21.8° C; Liquid Temperature : 21.0° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [085yprm_2.da4](#)

DUT: Siemens; **Type:** CF75; **Serial:** 004400008886085

Program Name: Tilted Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ 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) = 0.547 mW/g

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

Reference Value = 14.9 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.524 mW/g; SAR(10 g) = 0.321 mW/g

Maximum value of SAR (measured) = 0.566 mW/g

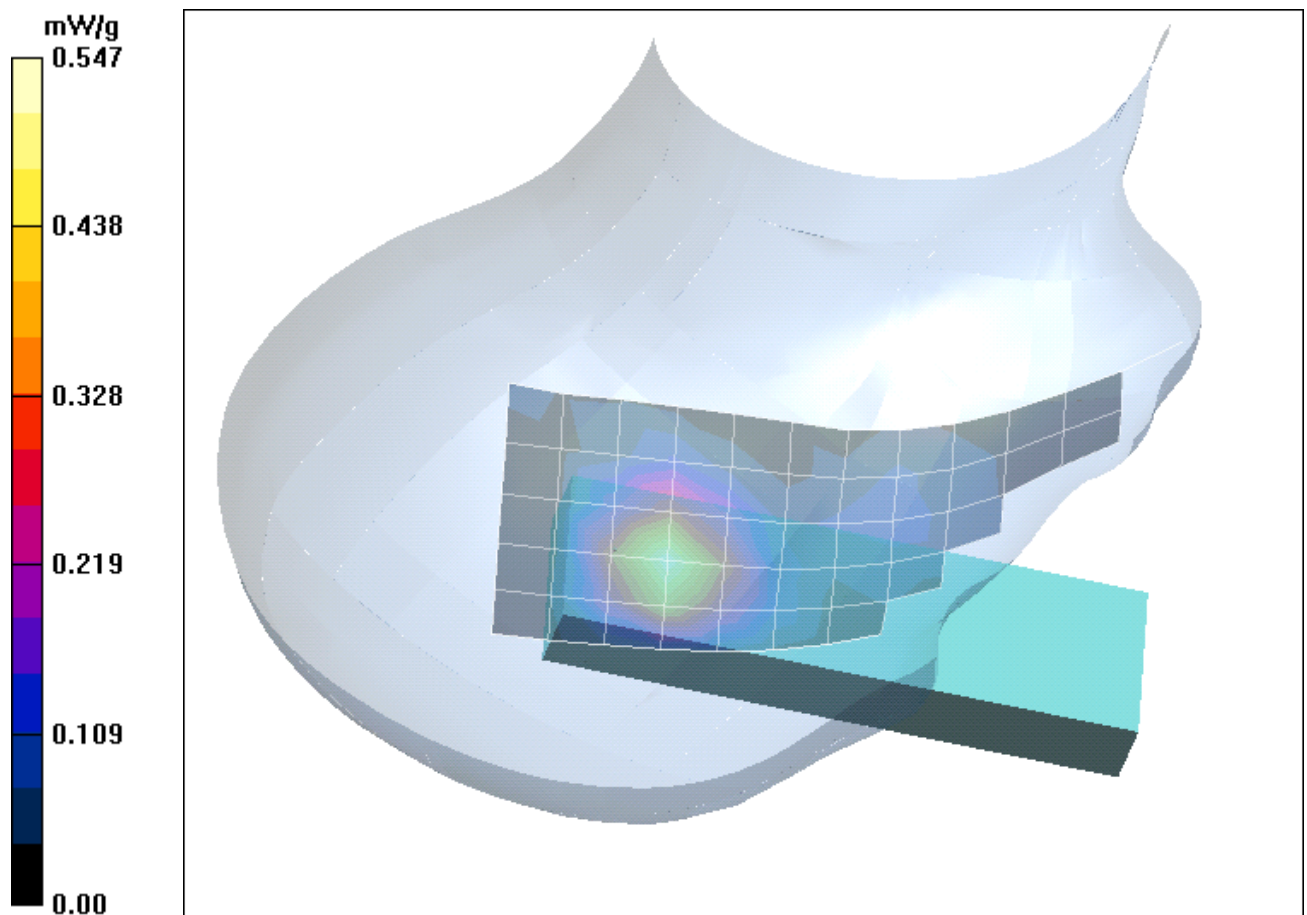


Fig. 4: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (05.23.2005; Ambient Temperature: 21.8° C; Liquid Temperature : 21.1° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [085ypri_1.da4](#)

DUT: Siemens; Type: CF75; Serial: 004400008886085

Program Name: Cheek Right

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ 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) = 0.931 mW/g

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

Reference Value = 10.9 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 0.923 mW/g; SAR(10 g) = 0.516 mW/g

Maximum value of SAR (measured) = 1.02 mW/g

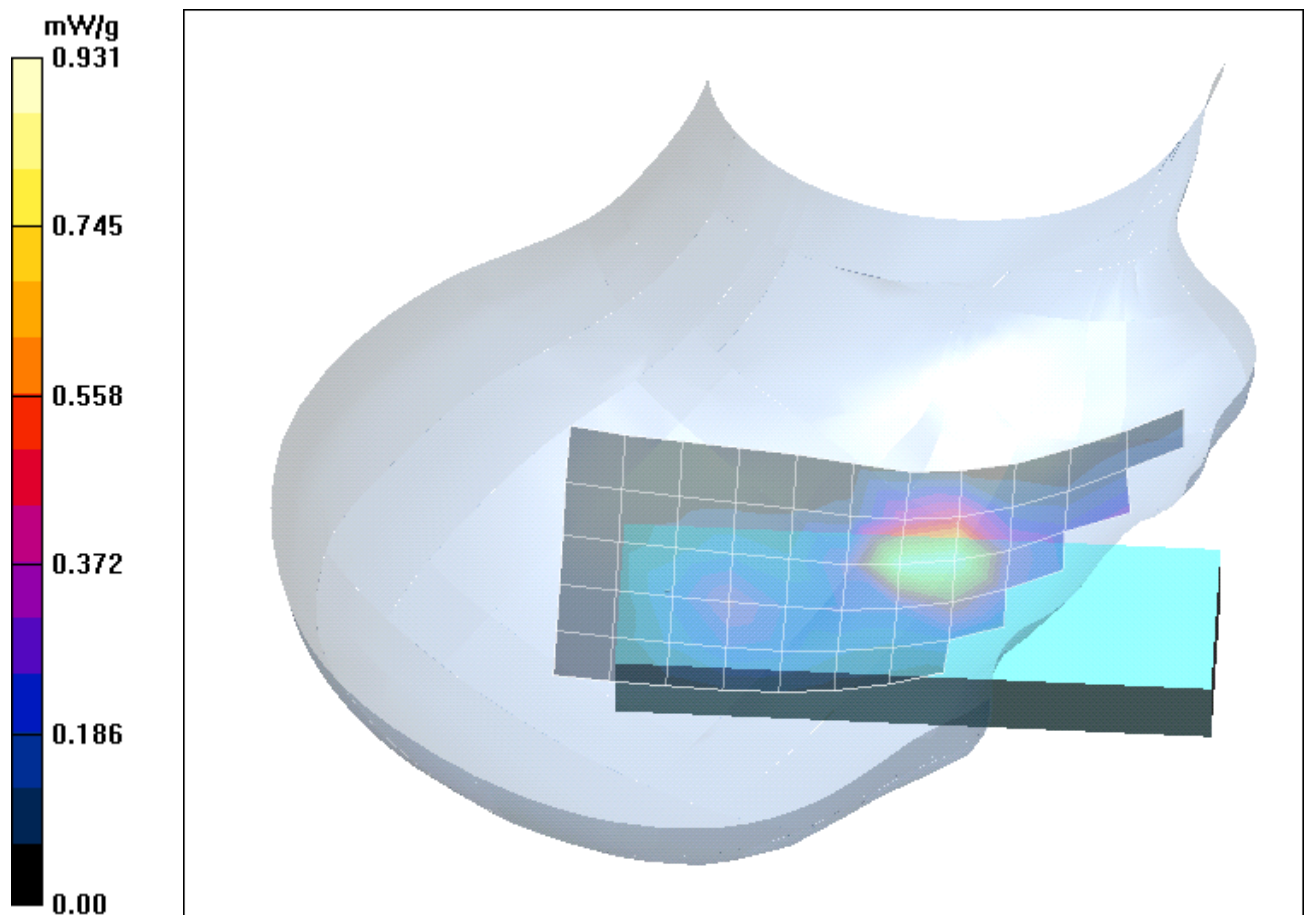


Fig. 5: SAR distribution for PCS 1900, channel 512, cheek position, right side of head (05.23.2005; Ambient Temperature: 21.8° C; Liquid Temperature : 21.1° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [085yprh_1.da4](#)

DUT: Siemens; **Type:** CF75; **Serial:** 004400008886085

Program Name: Cheek Right

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ 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) = 0.918 mW/g

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

Reference Value = 9.96 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.928 mW/g; SAR(10 g) = 0.509 mW/g

Maximum value of SAR (measured) = 1.03 mW/g

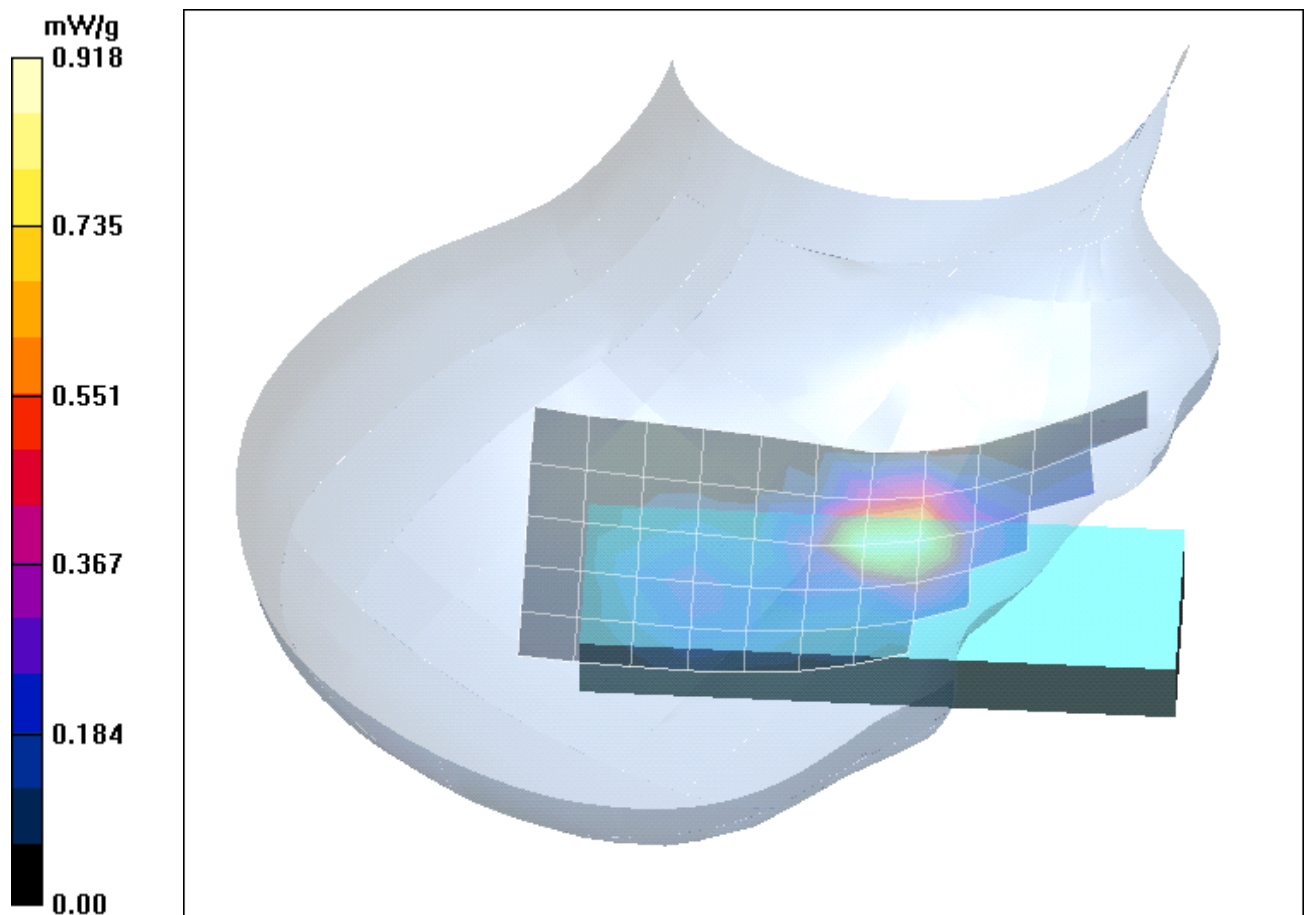


Fig. 6: SAR distribution for PCS 1900, channel 810, cheek position, right side of head (05.23.2005; Ambient Temperature: 21.9° C; Liquid Temperature : 21.2° C).

2 SAR Distribution Plots, PCS 1900 head, with flash

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [085yplm_1_flash.da4](#)

DUT: Siemens; Type: CF75 flash; Serial: 004400008886085

Program Name: Cheek Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ 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) = 0.574 mW/g

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

Reference Value = 6.96 V/m; Power Drift = -0.145 dB

Peak SAR (extrapolated) = 0.815 W/kg

SAR(1 g) = 0.613 mW/g; SAR(10 g) = 0.390 mW/g

Maximum value of SAR (measured) = 0.651 mW/g

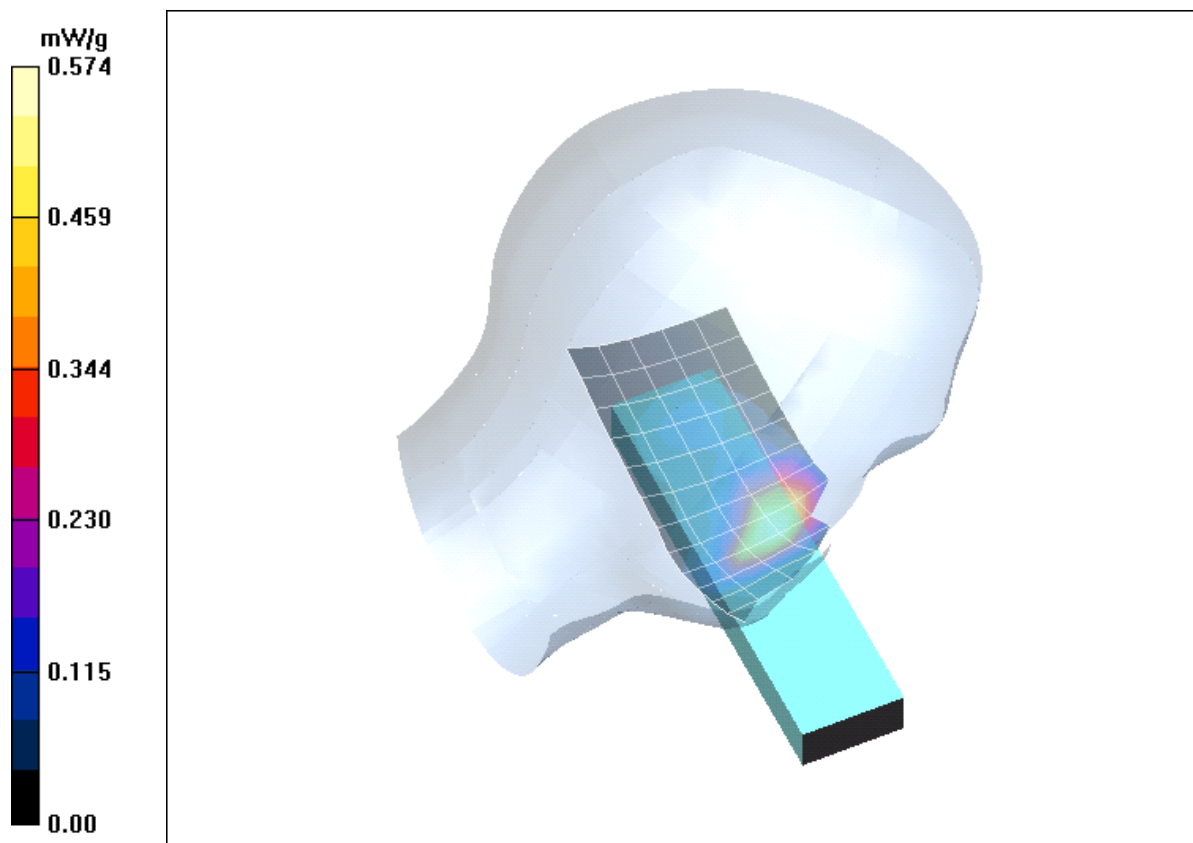


Fig. 7: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (05.23.2005; Ambient Temperature: 21.7° C; Liquid Temperature : 21.0° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [085yp1m_2_flash.da4](#)

DUT: Siemens; **Type:** CF75 flash; **Serial:** 004400008886085

Program Name: Tilted Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ 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 (6x14x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 12.1 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.431 W/kg

SAR(1 g) = 0.262 mW/g; SAR(10 g) = 0.163 mW/g

Maximum value of SAR (measured) = 0.291 mW/g

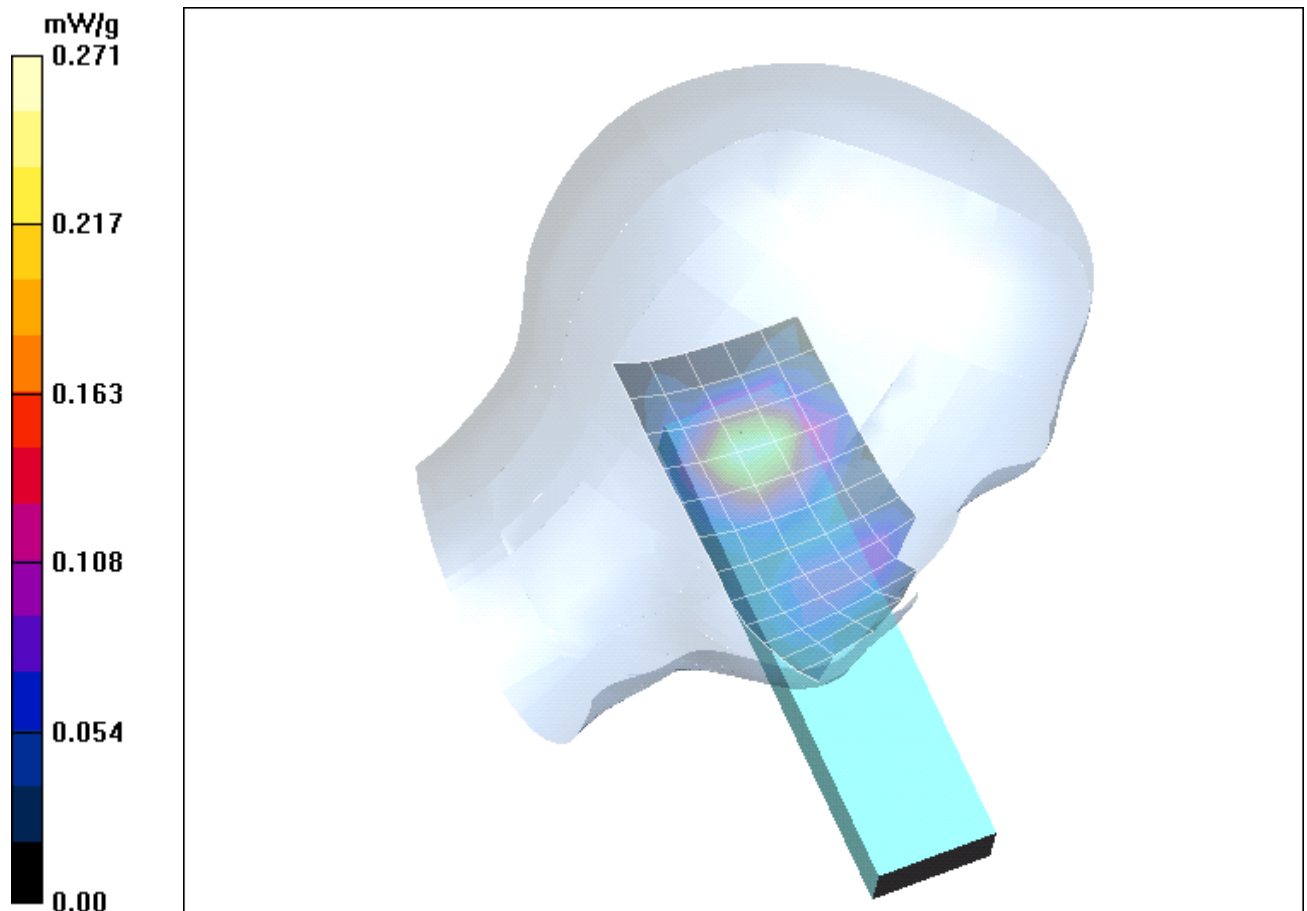


Fig. 8: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (05.23.2005; Ambient Temperature: 21.7° C; Liquid Temperature : 21.0° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [085yprm_1_flash.da4](#)

DUT: Siemens; **Type:** CF75; **Serial:** 004400008886085

Program Name: Cheek Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ 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 (6x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.781 mW/g

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

Reference Value = 6.73 V/m; Power Drift = -0.193 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.729 mW/g; SAR(10 g) = 0.423 mW/g

Maximum value of SAR (measured) = 0.771 mW/g

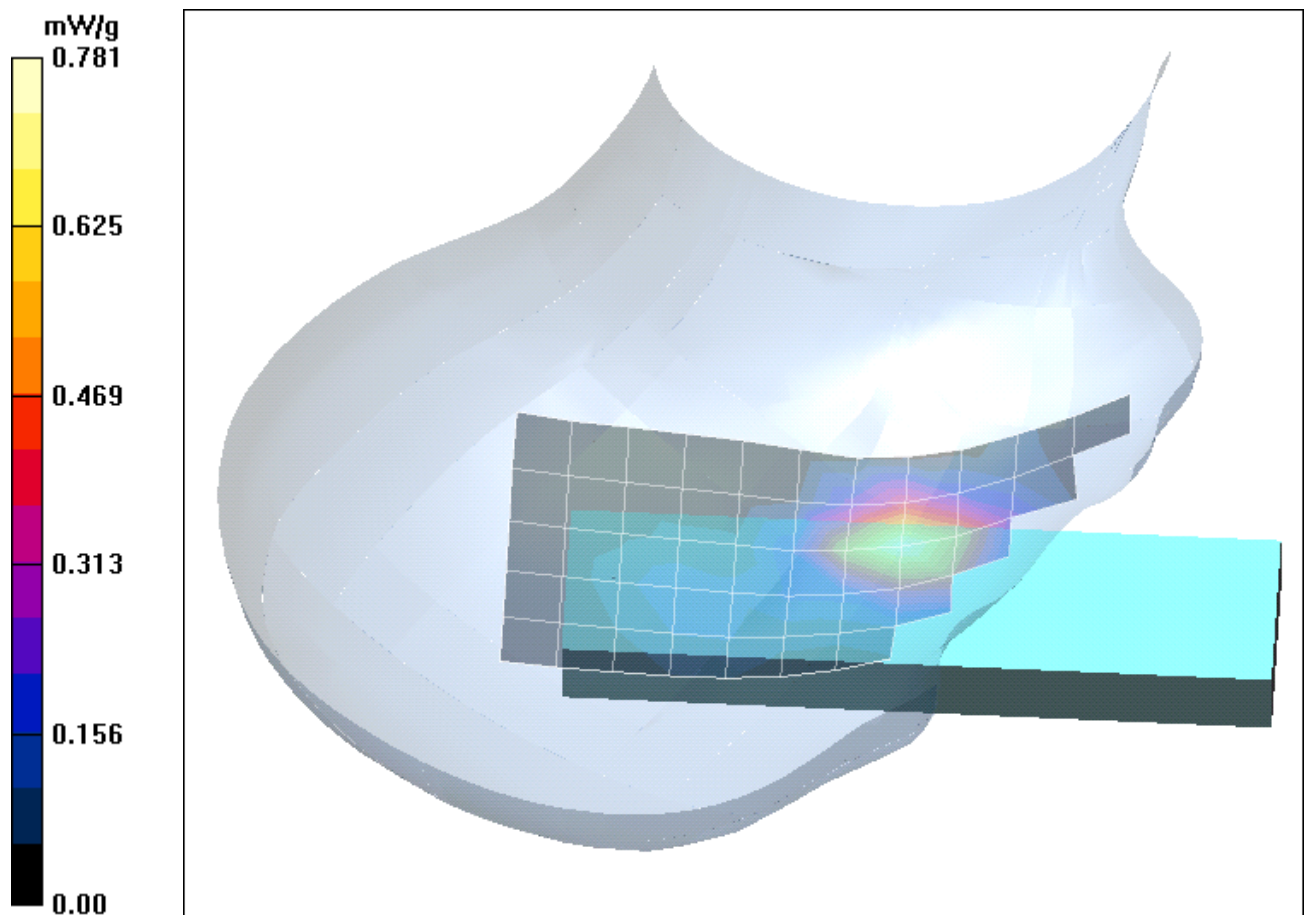


Fig. 9: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (05.23.2005; Ambient Temperature: 21.8° C; Liquid Temperature : 21.0° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [085yprm 2 flash.da4](#)

DUT: Siemens; **Type:** CF75; **Serial:** 004400008886085

Program Name: Tilted Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ 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) = 0.300 mW/g

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

Reference Value = 10.9 V/m; Power Drift = 0.182 dB

Peak SAR (extrapolated) = 0.429 W/kg

SAR(1 g) = 0.298 mW/g; SAR(10 g) = 0.181 mW/g

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

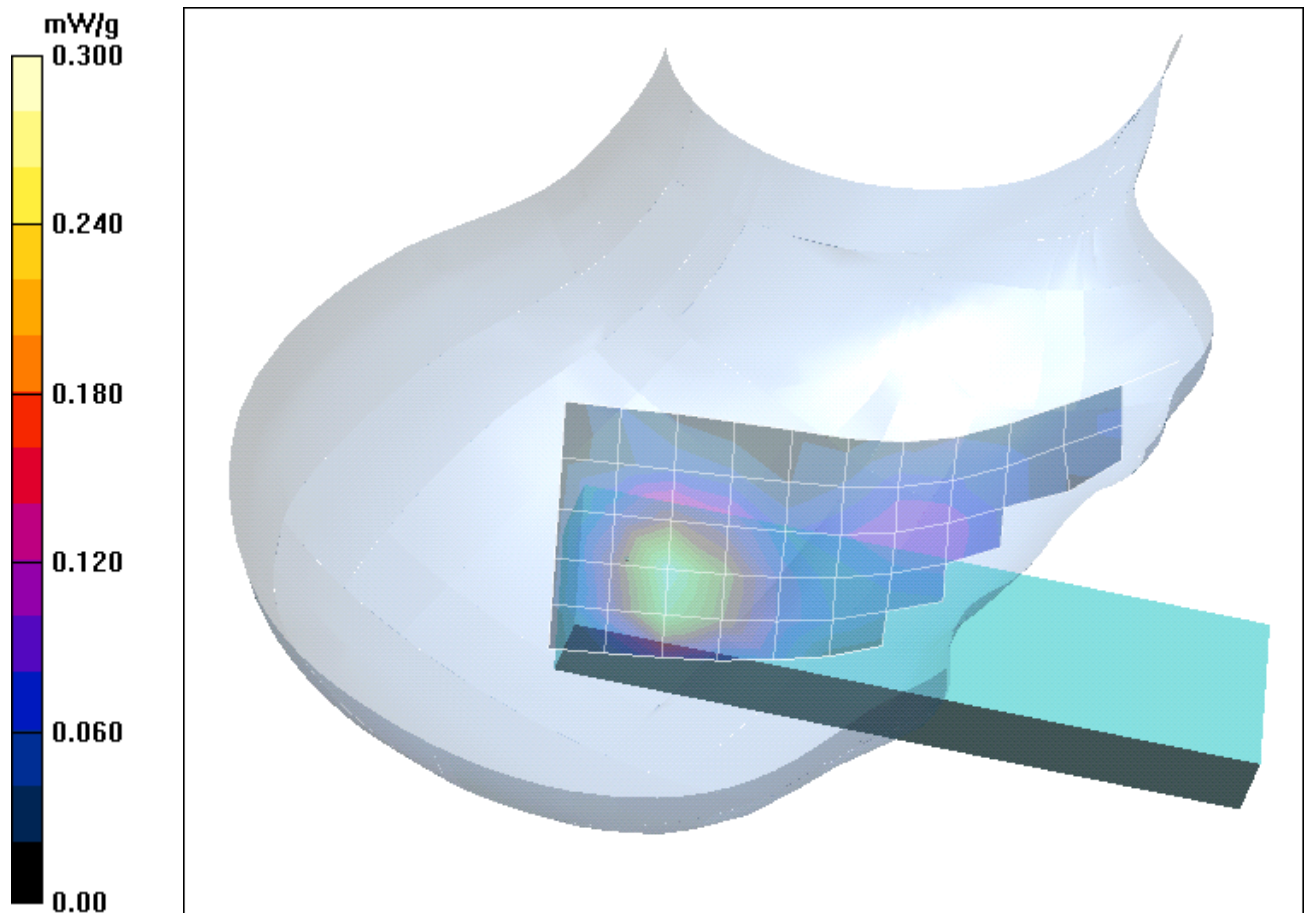


Fig. 10: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (05.23.2005; Ambient Temperature: 21.8 °C; Liquid Temperature : 21.0° C)

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

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [085bphm 4 GSM wdh.da4](#)

DUT: Siemens; Type: CF75; Serial: 004400008886085

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 53.7$; $\rho = 1000$ 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 (6x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.125 mW/g

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

Reference Value = 9.56 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 0.179 W/kg

SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.076 mW/g

Maximum value of SAR (measured) = 0.127 mW/g

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

Reference Value = 9.56 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 0.168 W/kg

SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.119 mW/g

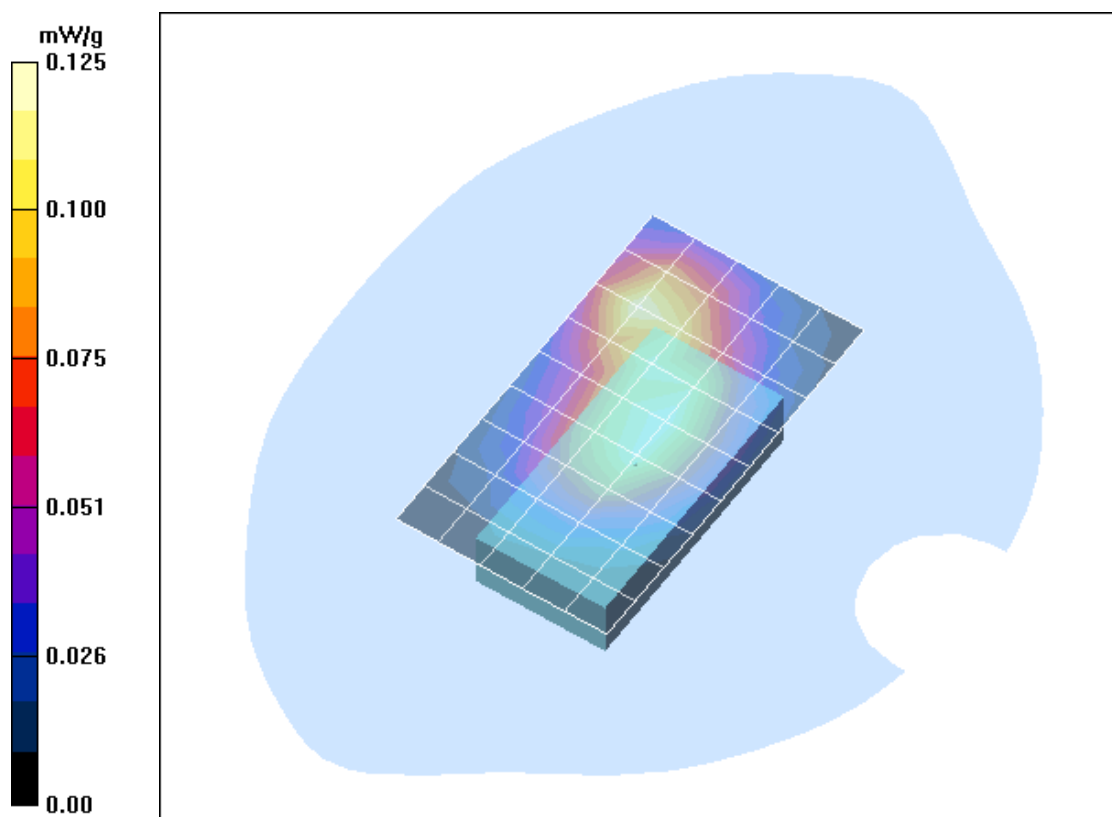


Fig. 11: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GSM mode (05.25.2005; Ambient Temperature: 21.8° C; Liquid Temperature: 21.0°C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [085bphm_1_gprs.da4](#)

DUT: Siemens; **Type:** CF75; **Serial:** 004400008886085

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 53.7$; $\rho = 1000$ 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 (6x10x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.288 mW/g

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

Reference Value = 14.4 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 0.415 W/kg

SAR(1 g) = 0.273 mW/g; SAR(10 g) = 0.174 mW/g

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

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

Reference Value = 14.4 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 0.350 W/kg

SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.136 mW/g

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

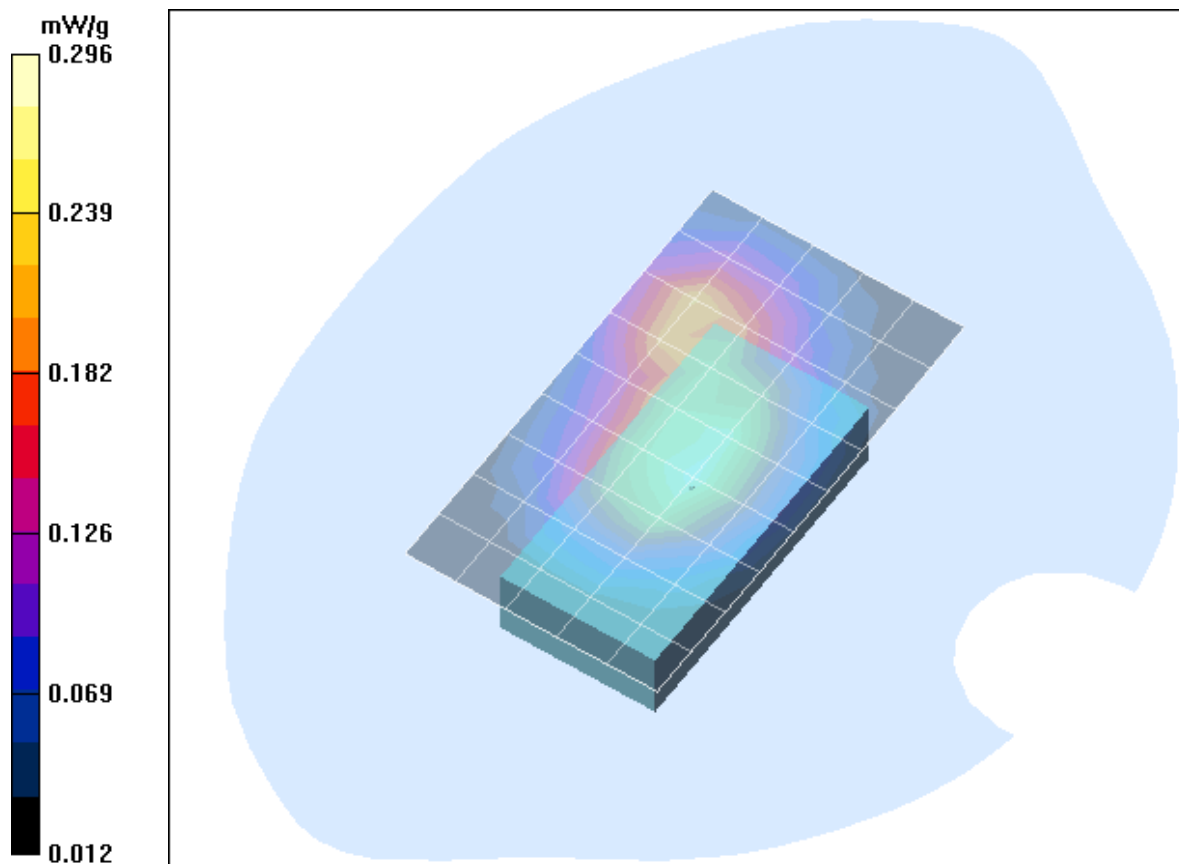


Fig. 12: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GPRS class 10 (05.25.2005; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [085bphm_2_gprs.da4](#)

DUT: Siemens; **Type:** CF75; **Serial:** 004400008886085

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 53.7$; $\rho = 1000$ 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 (6x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.254 mW/g

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

Reference Value = 13.3 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.359 W/kg

SAR(1 g) = 0.234 mW/g; SAR(10 g) = 0.149 mW/g

Maximum value of SAR (measured) = 0.251 mW/g

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

Reference Value = 13.3 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.347 W/kg

SAR(1 g) = 0.224 mW/g; SAR(10 g) = 0.139 mW/g

Maximum value of SAR (measured) = 0.249 mW/g

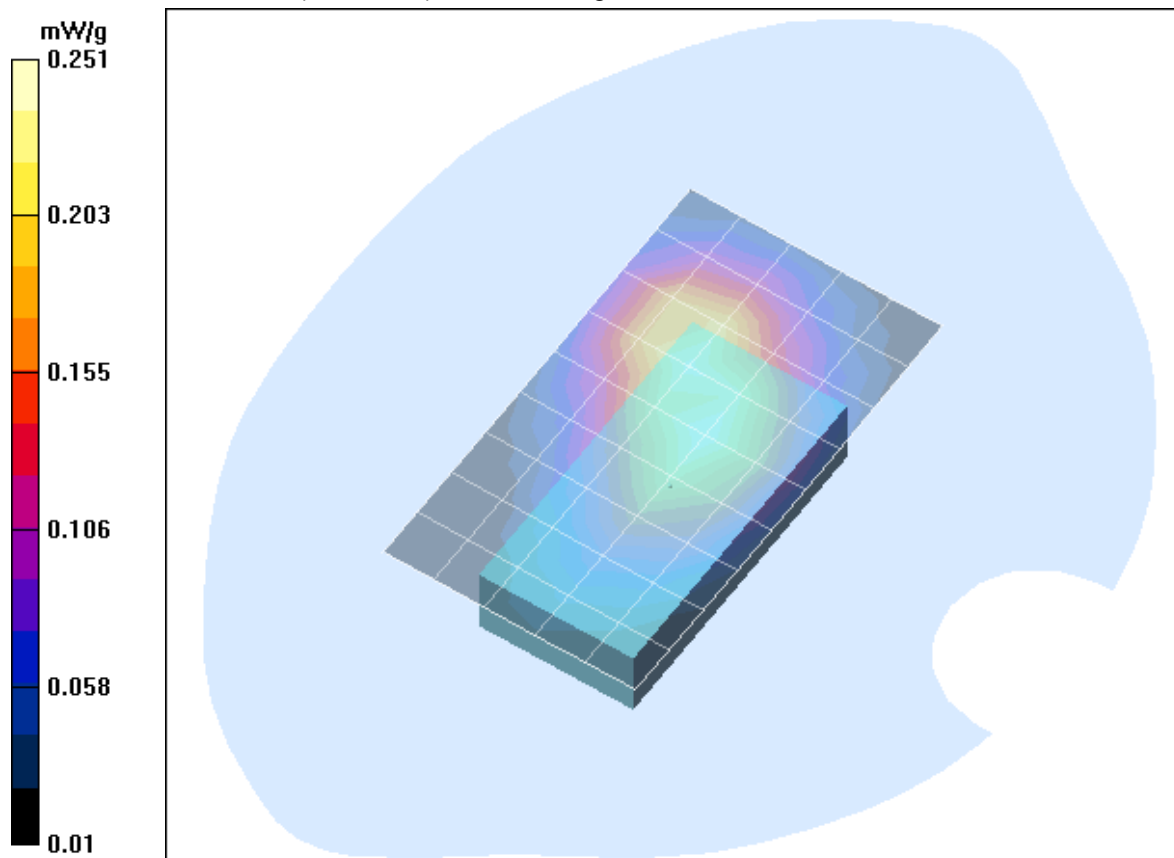


Fig. 13: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GPRS class 10, with data cable (05.25.2005; Ambient Temperature: 21.7° C; Liquid Temperature : 21.1° C).

4 SAR z-axis scans (Validation)

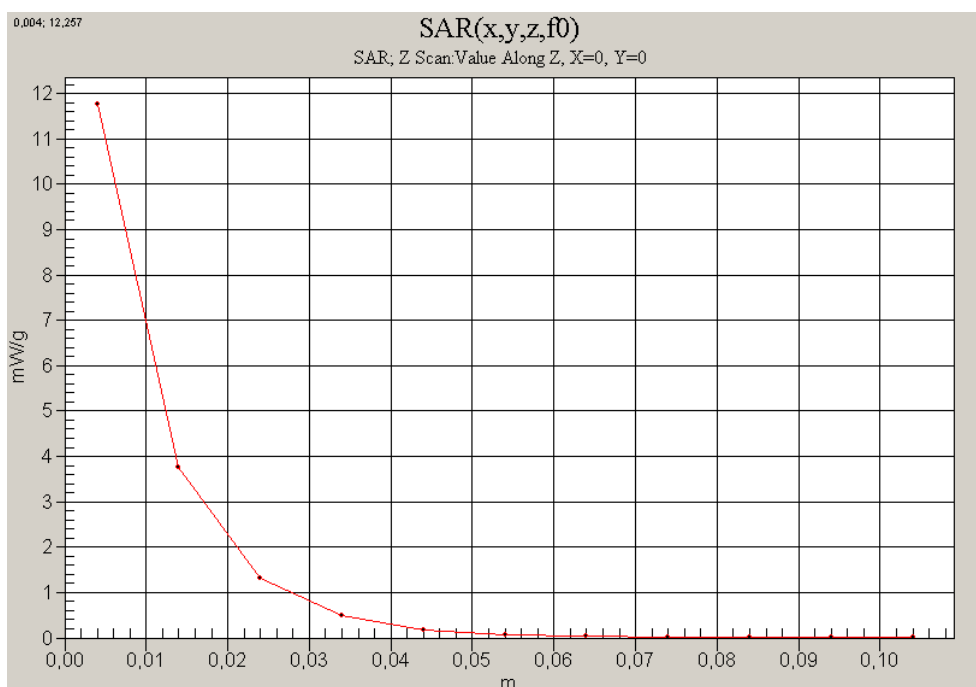


Fig. 14: SAR versus liquid depth, 1900 MHz, head (05.23.2005; Ambient Temperature: 21.7° C; Liquid Temperature : 21.0° C).

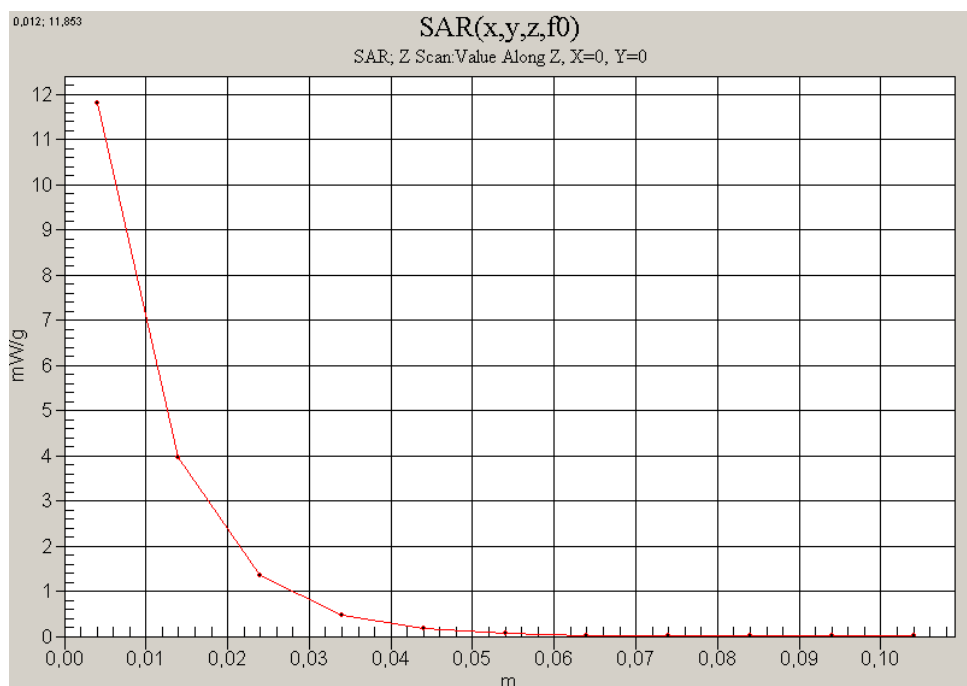


Fig. 15: SAR versus liquid depth, 1900 MHz, body (05.25.2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.1° C).

5 SAR z-axis scans (Measurements)

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

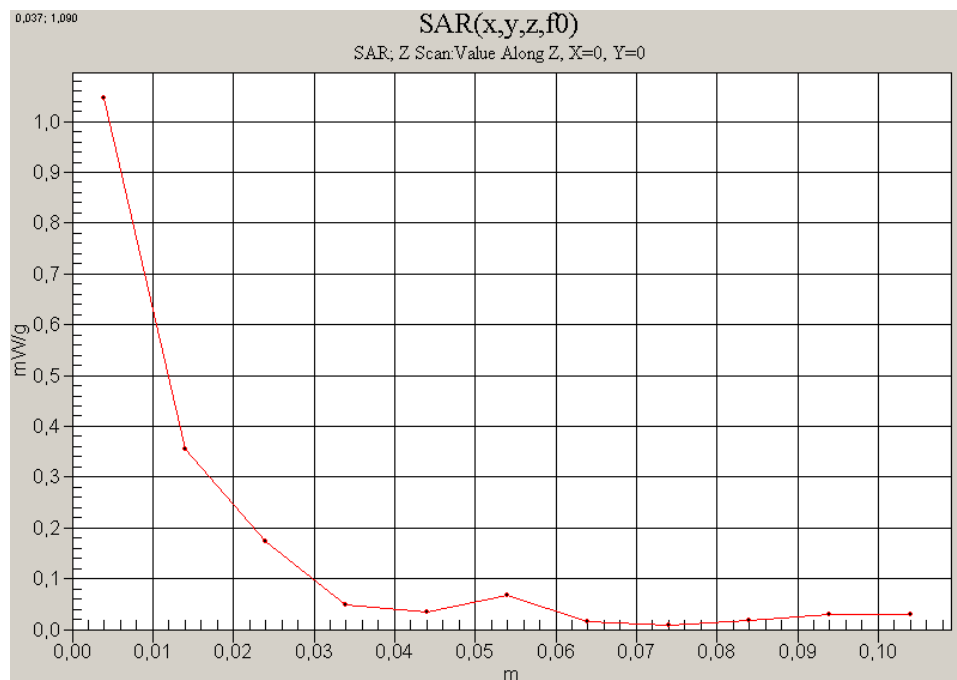


Fig. 16: SAR versus liquid depth, head: PCS 1900, channel 661, cheek position, right side of head without flash (05.23.2005, Ambient Temperature: 21.8° C; Liquid Temperature : 21.0° C).

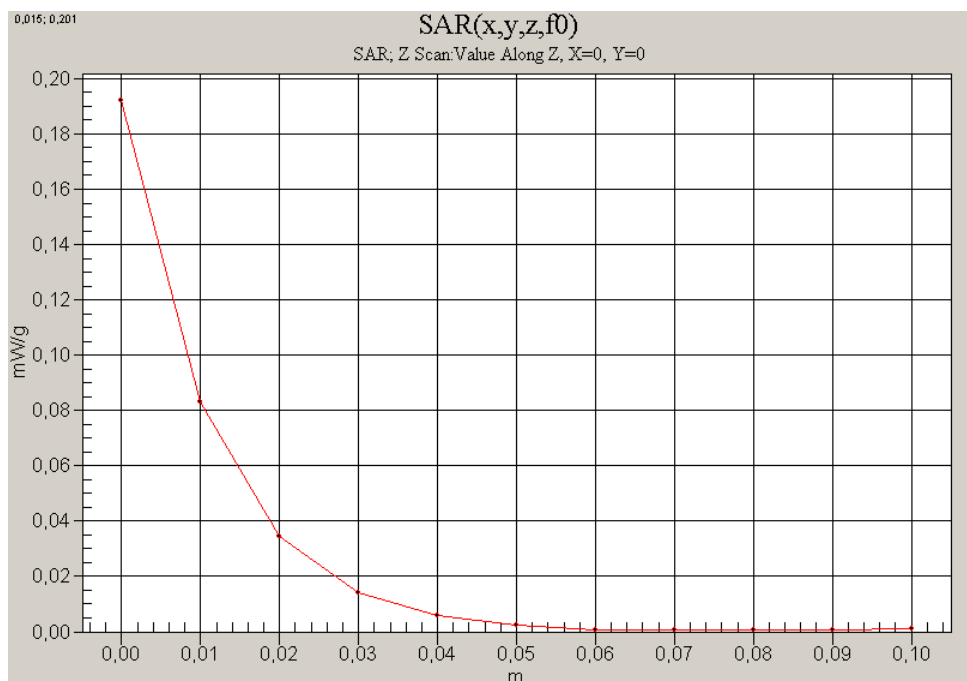


Fig. 17: SAR versus liquid depth, body: PCS 1900, channel 661, antenna towards the phantom, GPRS Class 10 (05.25.2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.2° C).