
Appendix for the Report

Dosimetric Assessment of the Portable Device 3000B4 from DAP Technologies (FCC ID: T5M3000B4)

According to the FCC Requirements

SAR Distribution Plots

December 15, 2008

IMST GmbH
Carl-Friedrich-Gauß-Str. 2
D-47475 Kamp-Lintfort

Customer
Nemko Canada Inc.
303 River Road
Ottawa, ON K1V 1H2
Canada

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, GPRS 850 BODY 3

2 SAR DISTRIBUTION PLOTS, GPRS 1900 BODY 9

3 SAR DISTRIBUTION PLOTS, IEEE 802.11 B BODY 15

4 SAR Z-AXIS SCANS (VALIDATION) 20

5 SAR Z-AXIS SCANS (MEASUREMENTS)..... 22

1 SAR Distribution Plots, GPRS 850 Body

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [DAP_847_bahm_1.da4](#)

DUT: DAP; Type: CE3000BW; Serial: 352678014495847

Program Name: Body GPRS 850

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.24, 6.24, 6.24); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2008
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (8x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.196 mW/g

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

Reference Value = 7.36 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.773 W/kg

SAR(1 g) = 0.256 mW/g; SAR(10 g) = 0.114 mW/g

Maximum value of SAR (measured) = 0.289 mW/g

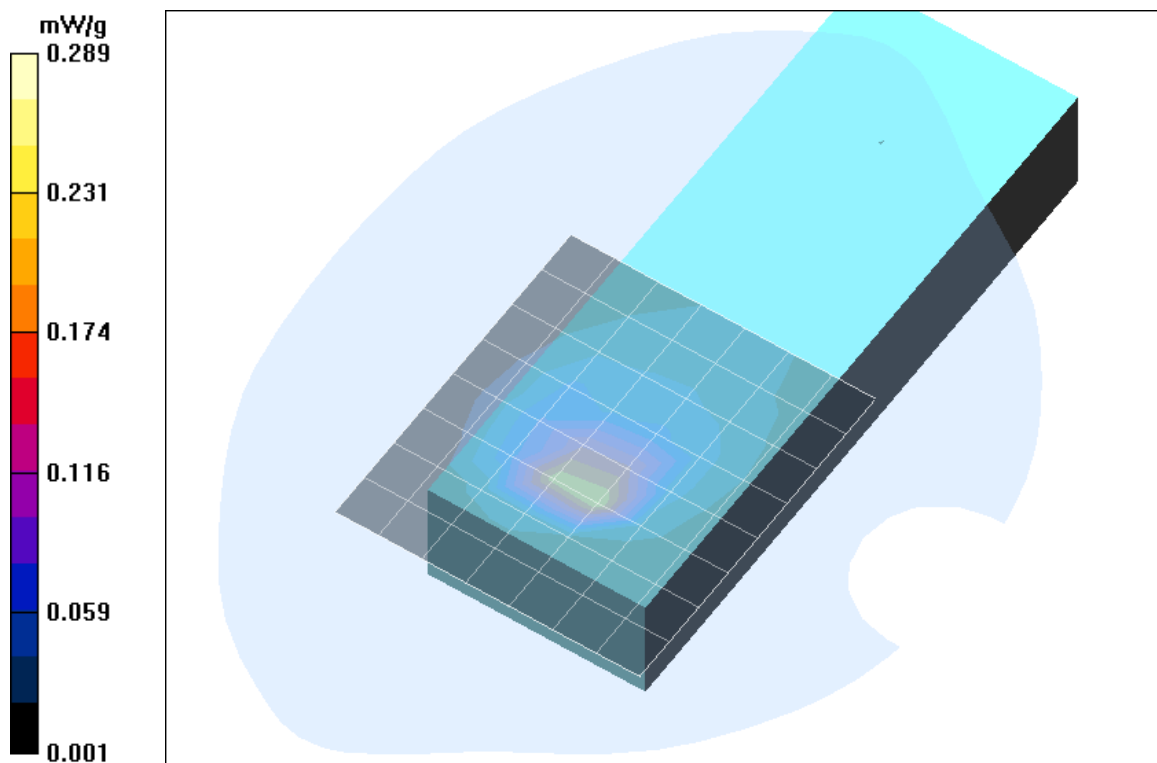


Fig. 1: SAR distribution for GPRS 850 (Class 12), channel 190, Position 1 (December 04, 2008; Ambient Temperature: 21.1°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [DAP_847_bahm_2.da4](#)

DUT: DAP; Type: CE3000BW; Serial: 352678014495847

Program Name: Body GPRS 850

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.24, 6.24, 6.24); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2008
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.025 mW/g

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

Reference Value = 4.00 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.030 W/kg

SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.017 mW/g

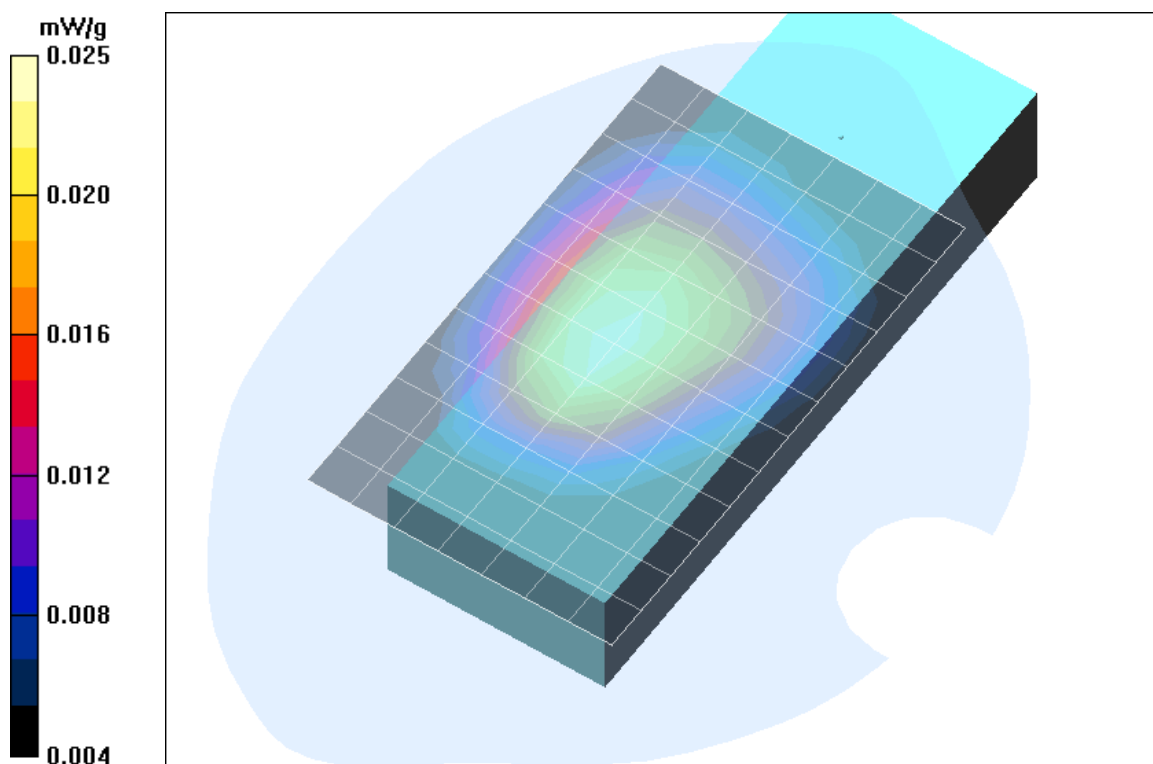


Fig. 2: SAR distribution for GPRS 850 (Class 12), channel 190, Position 2 (December 04, 2008; Ambient Temperature: 21.1°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [DAP_847_bahm_3.da4](#)

DUT: DAP; Type: CE3000BW; Serial: 352678014495847

Program Name: Body GPRS 850

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.24, 6.24, 6.24); Calibrated: 23.01.2008

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

- Electronics: DAE4 Sn631; Calibrated: 17.09.2008

- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.035 mW/g

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

Reference Value = 3.41 V/m; Power Drift = -0.166 dB

Peak SAR (extrapolated) = 0.047 W/kg

SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.021 mW/g

Maximum value of SAR (measured) = 0.036 mW/g

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

Reference Value = 3.41 V/m; Power Drift = -0.166 dB

Peak SAR (extrapolated) = 0.031 W/kg

SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.015 mW/g

Maximum value of SAR (measured) = 0.025 mW/g

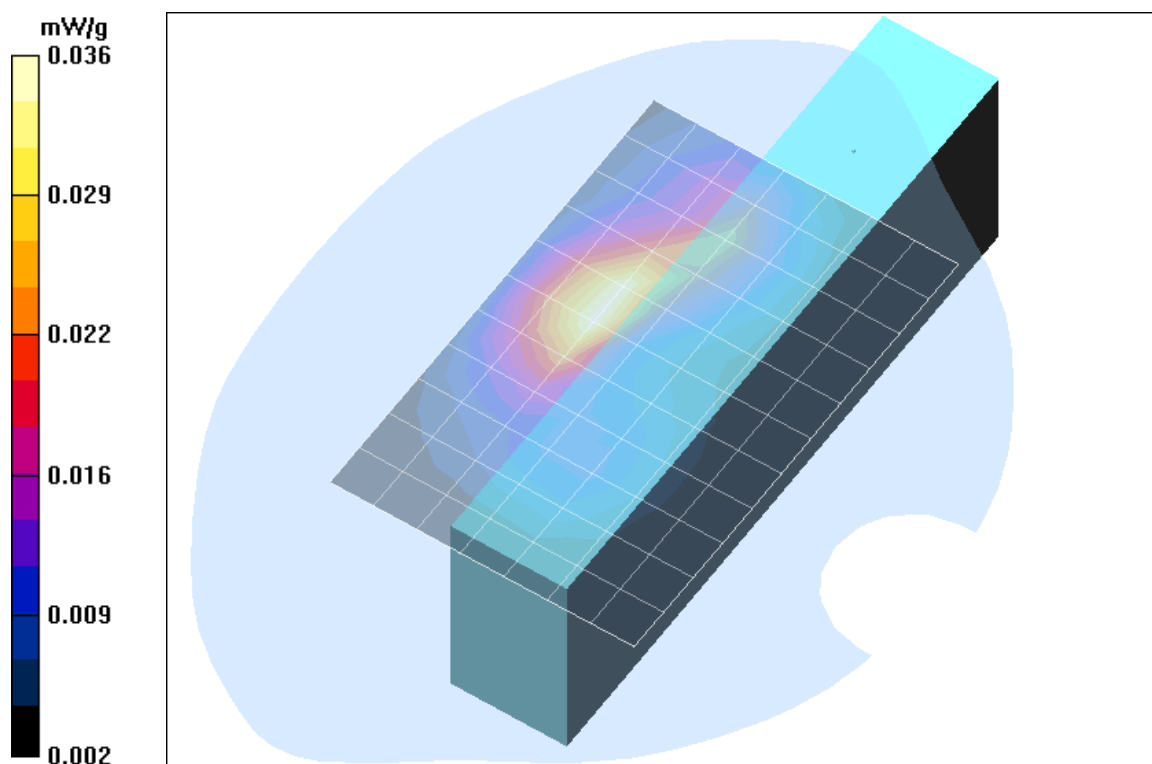


Fig. 3: SAR distribution for GPRS 850 (Class 12), channel 190, Position 3 (December 04, 2008; Ambient Temperature: 21.1°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [DAP 847 bahm 4.da4](#)

DUT: DAP; Type: CE3000BW; Serial: 352678014495847

Program Name: Body GPRS 850

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.24, 6.24, 6.24); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2008
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.076 mW/g

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

Reference Value = 8.39 V/m; Power Drift = -0.139 dB

Peak SAR (extrapolated) = 0.126 W/kg

SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.052 mW/g

Maximum value of SAR (measured) = 0.090 mW/g

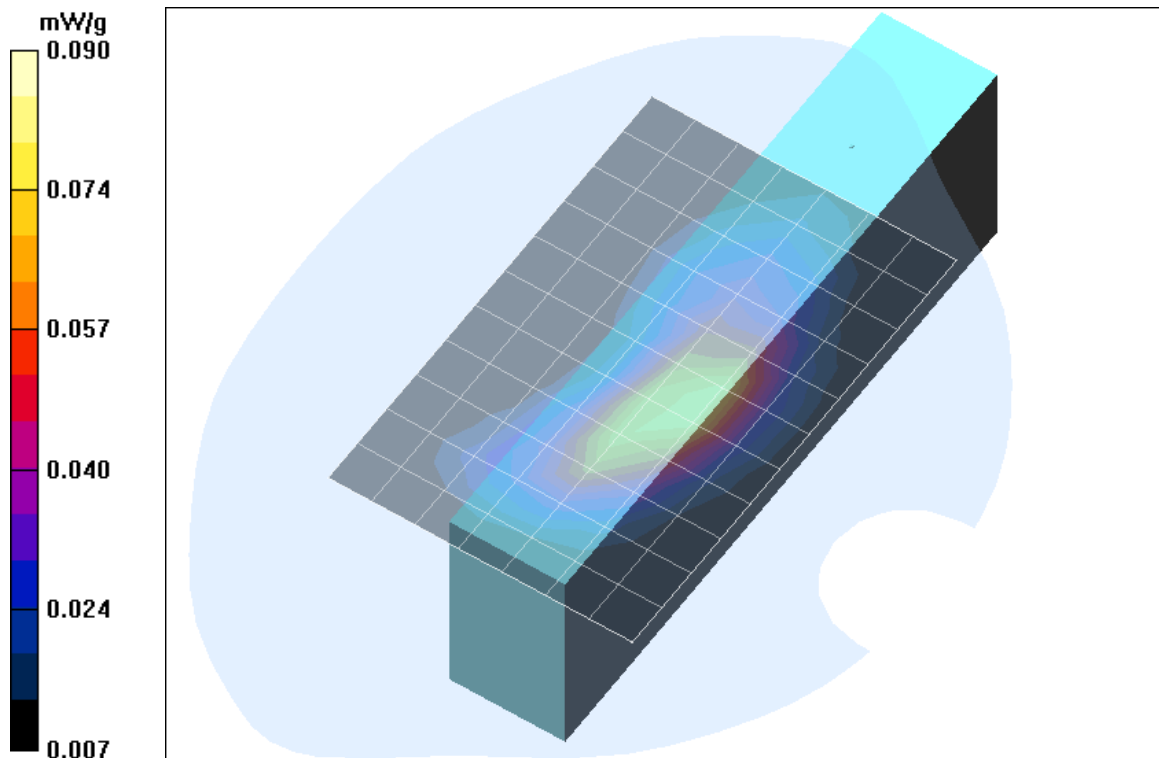


Fig. 4: SAR distribution for GPRS 850 (Class 12), channel 190, Position 4 (December 04, 2008; Ambient Temperature: 21.1°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [DAP_847_bahm_5.da4](#)

DUT: DAP; Type: CE3000BW; Serial: 352678014495847

Program Name: Body GPRS 850

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.24, 6.24, 6.24); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2008
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (9x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.116 mW/g

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

Reference Value = 8.29 V/m; Power Drift = -0.079 dB

Peak SAR (extrapolated) = 0.414 W/kg

SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.054 mW/g

Maximum value of SAR (measured) = 0.126 mW/g

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

Reference Value = 8.29 V/m; Power Drift = -0.079 dB

Peak SAR (extrapolated) = 0.086 W/kg

SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.040 mW/g

Maximum value of SAR (measured) = 0.072 mW/g

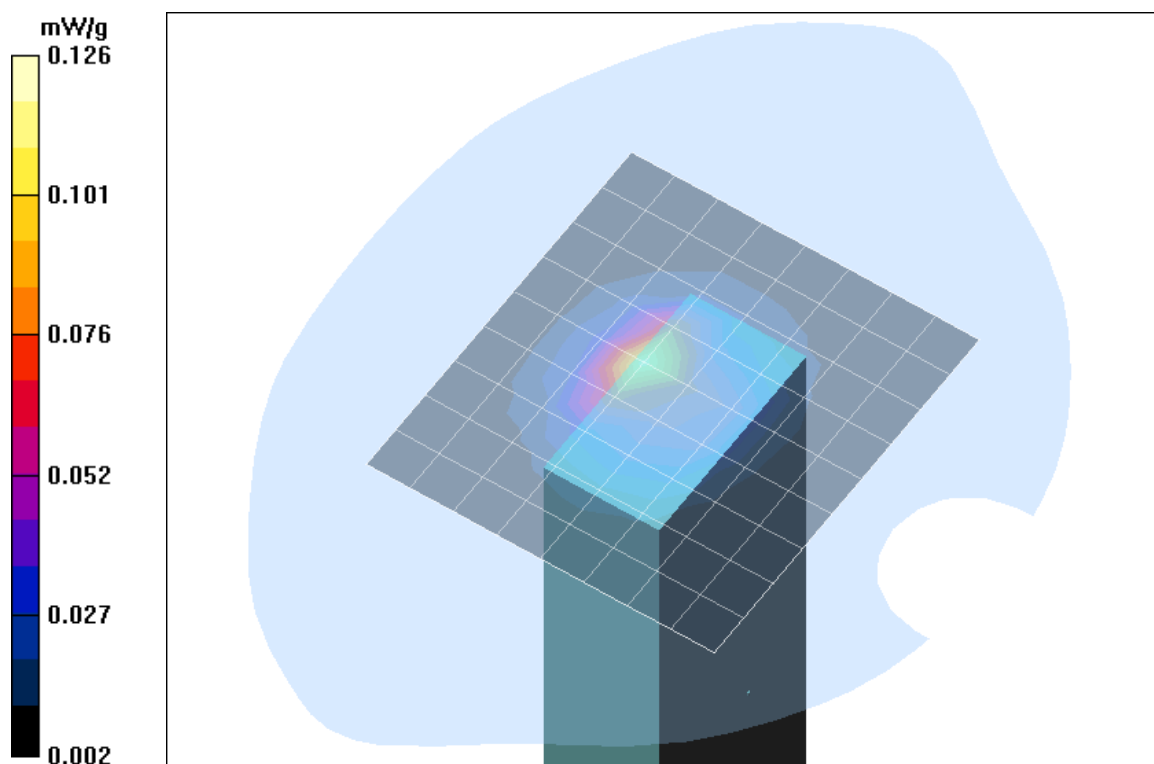


Fig. 5: SAR distribution for GPRS 850 (Class 12), channel 190, Position 5 (December 04, 2008; Ambient Temperature: 21.1°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [DAP 847 bahm 1 CR.da4](#)

DUT: DAP; Type: CE3000BW; Serial: 352678014495847

Program Name: Body GPRS 850

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.24, 6.24, 6.24); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2008
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.021 mW/g

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

Reference Value = 4.82 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 0.058 W/kg

SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.012 mW/g

Maximum value of SAR (measured) = 0.024 mW/g

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

Reference Value = 4.82 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 0.055 W/kg

SAR(1 g) = 0.021 mW/g; SAR(10 g) = 0.011 mW/g

Maximum value of SAR (measured) = 0.023 mW/g

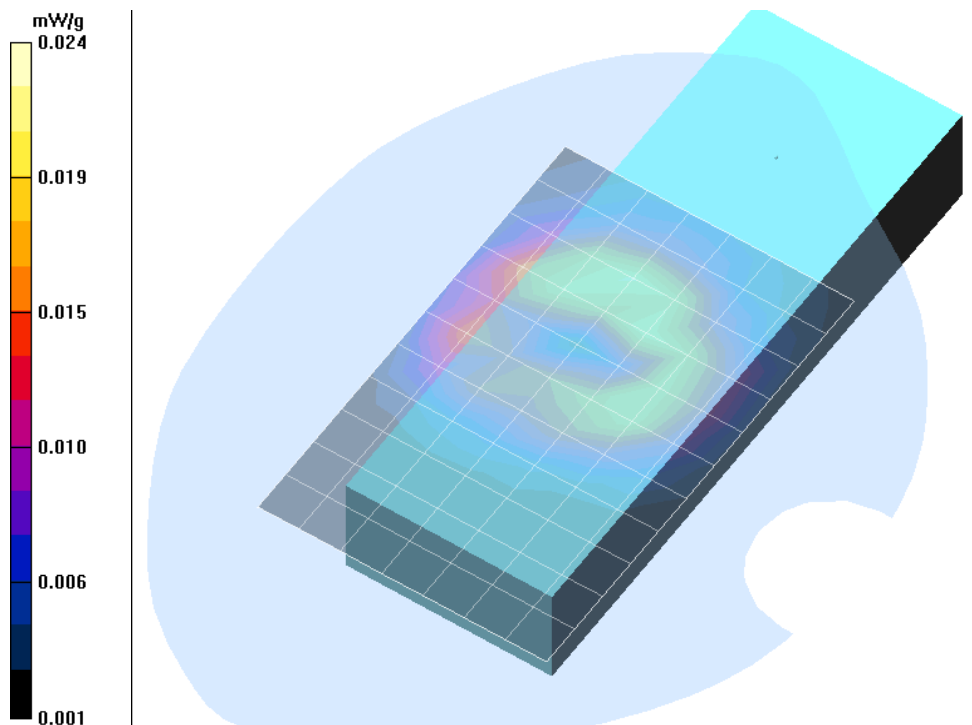


Fig. 6: SAR distribution for GPRS 850 (Class 12), channel 190, Position 1 with attached smart card reader (December 04, 2008; Ambient Temperature: 21.1°C; Liquid Temperature: 20.6°C).

2 SAR Distribution Plots, GPRS 1900 Body

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [DAP_847_yphm_1.da4](#)

DUT: DAP; Type: CE3000BW; Serial: 352678014495847

Program Name: Body GPRS 1900

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.91, 4.91, 4.91); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2008
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.226 mW/g

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

Reference Value = 8.34 V/m; Power Drift = -0.069 dB

Peak SAR (extrapolated) = 0.409 W/kg

SAR(1 g) = 0.251 mW/g; SAR(10 g) = 0.134 mW/g

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

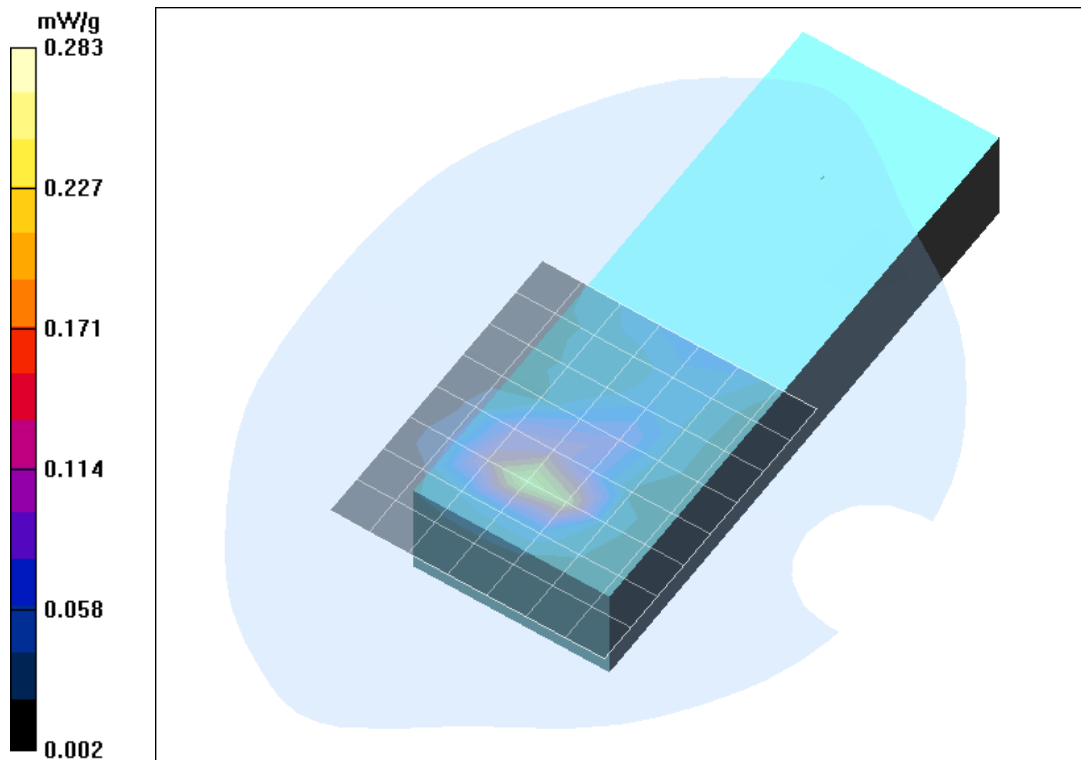


Fig. 7: SAR distribution for GPRS 1900 (Class 12), channel 661, Position 1 (November 27, 2008; Ambient Temperature: 21.4°C; Liquid Temperature: 20.6°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [DAP_847_yphm_2.da4](#)

DUT: DAP; Type: CE3000BW; Serial: 352678014495847

Program Name: Body GPRS 1900

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.91, 4.91, 4.91); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2008
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.020 mW/g

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

Reference Value = 2.29 V/m; Power Drift = 0.158 dB

Peak SAR (extrapolated) = 0.032 W/kg

SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.012 mW/g

Maximum value of SAR (measured) = 0.022 mW/g

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

Reference Value = 2.29 V/m; Power Drift = 0.158 dB

Peak SAR (extrapolated) = 0.020 W/kg

SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.00869 mW/g

Maximum value of SAR (measured) = 0.015 mW/g

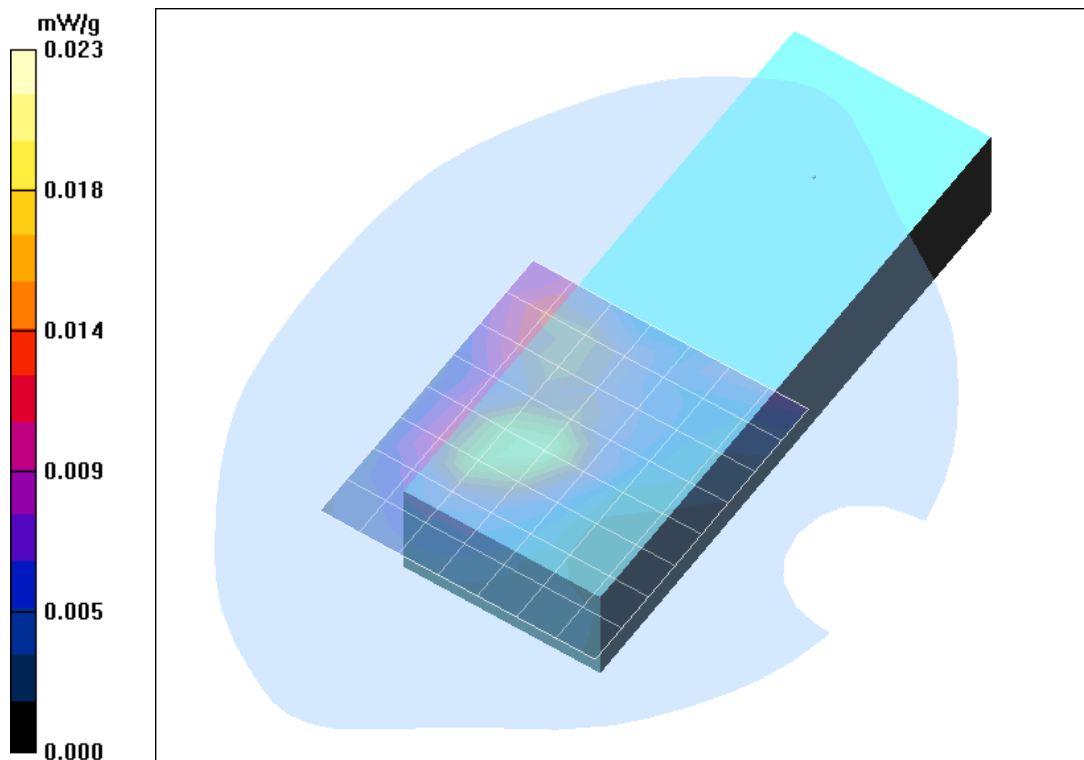


Fig. 8: SAR distribution for GPRS 1900 (Class 12), channel 661, Position 2 (November 27, 2008; Ambient Temperature: 21.4°C; Liquid Temperature: 20.6°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [DAP_847_yphm_3.da4](#)

DUT: DAP; **Type:** CE3000BW; **Serial:** 352678014495847

Program Name: Body GPRS 1900

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.91, 4.91, 4.91); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2008
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.087 mW/g

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

Reference Value = 3.50 V/m; Power Drift = -0.055 dB

Peak SAR (extrapolated) = 0.128 W/kg

SAR(1 g) = 0.083 mW/g; SAR(10 g) = 0.051 mW/g

Maximum value of SAR (measured) = 0.091 mW/g

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

Reference Value = 3.50 V/m; Power Drift = -0.055 dB

Peak SAR (extrapolated) = 0.125 W/kg

SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.048 mW/g

Maximum value of SAR (measured) = 0.089 mW/g

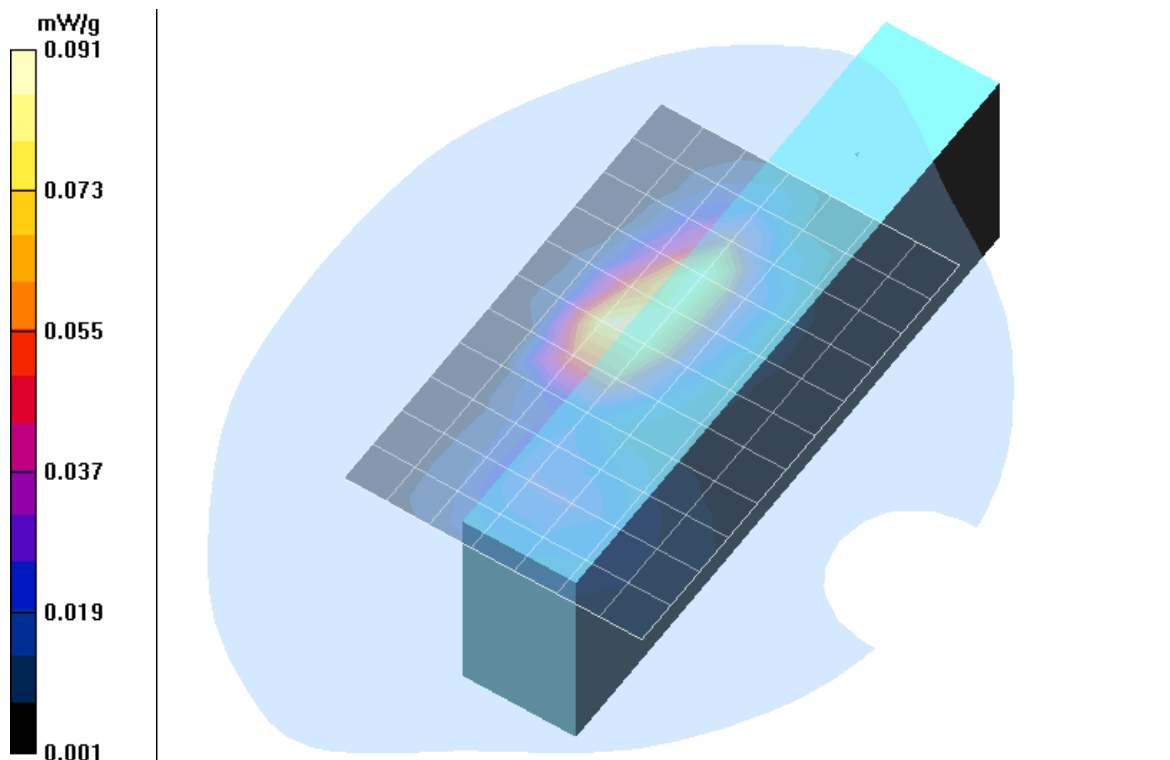


Fig. 9: SAR distribution for GPRS 1900 (Class 12), channel 661, Position 3 (November 27, 2008; Ambient Temperature: 21.4°C; Liquid Temperature: 20.6°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [DAP 847 yphm 4.da4](#)

DUT: DAP; Type: CE3000BW; Serial: 352678014495847

Program Name: Body GPRS 1900

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.91, 4.91, 4.91); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2008
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.087 mW/g

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

Reference Value = 7.23 V/m; Power Drift = -0.196 dB

Peak SAR (extrapolated) = 0.120 W/kg

SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.048 mW/g

Maximum value of SAR (measured) = 0.086 mW/g

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

Reference Value = 7.23 V/m; Power Drift = -0.196 dB

Peak SAR (extrapolated) = 0.119 W/kg

SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.079 mW/g

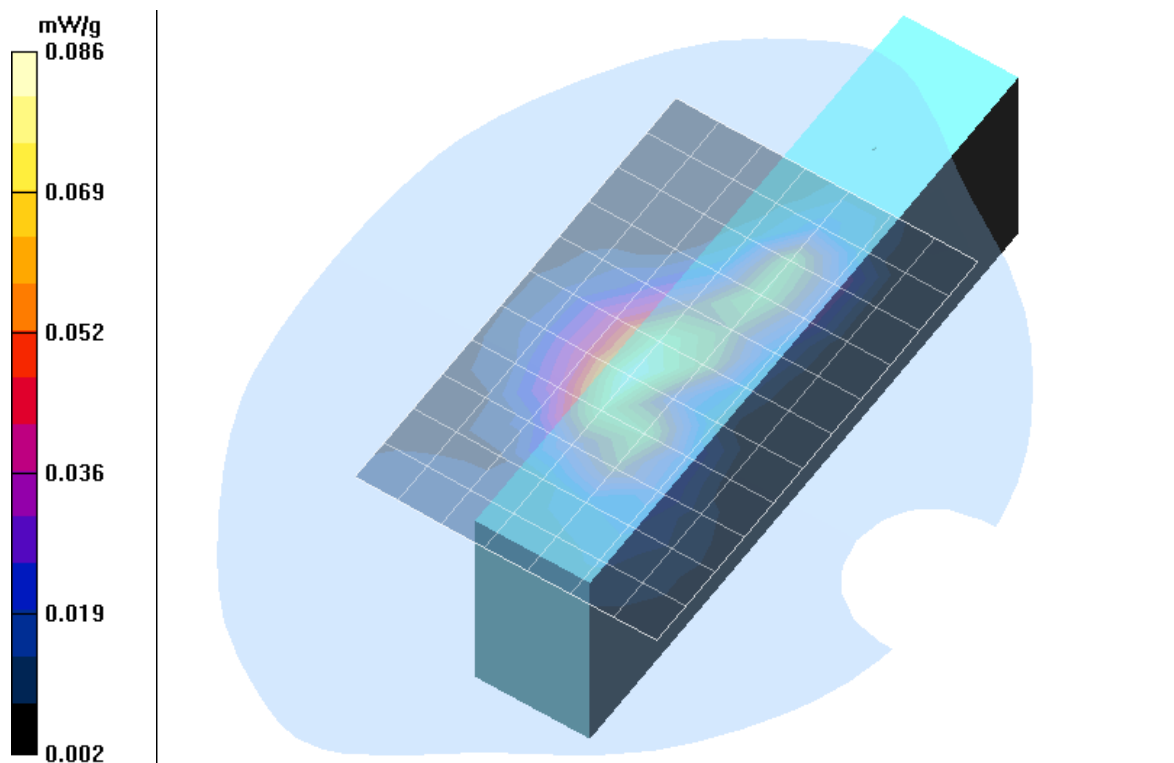


Fig. 10: SAR distribution for GPRS 1900 (Class 12), channel 661, Position 4 (November 27, 2008; Ambient Temperature: 21.4°C; Liquid Temperature: 20.6°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [DAP 847 yphm 5.da4](#)

DUT: DAP; **Type:** CE3000BW; **Serial:** 352678014495847

Program Name: Body GPRS 1900

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.91, 4.91, 4.91); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2008
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (9x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.290 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 = 0.121 dB

Peak SAR (extrapolated) = 0.436 W/kg

SAR(1 g) = 0.266 mW/g; SAR(10 g) = 0.146 mW/g

Maximum value of SAR (measured) = 0.297 mW/g

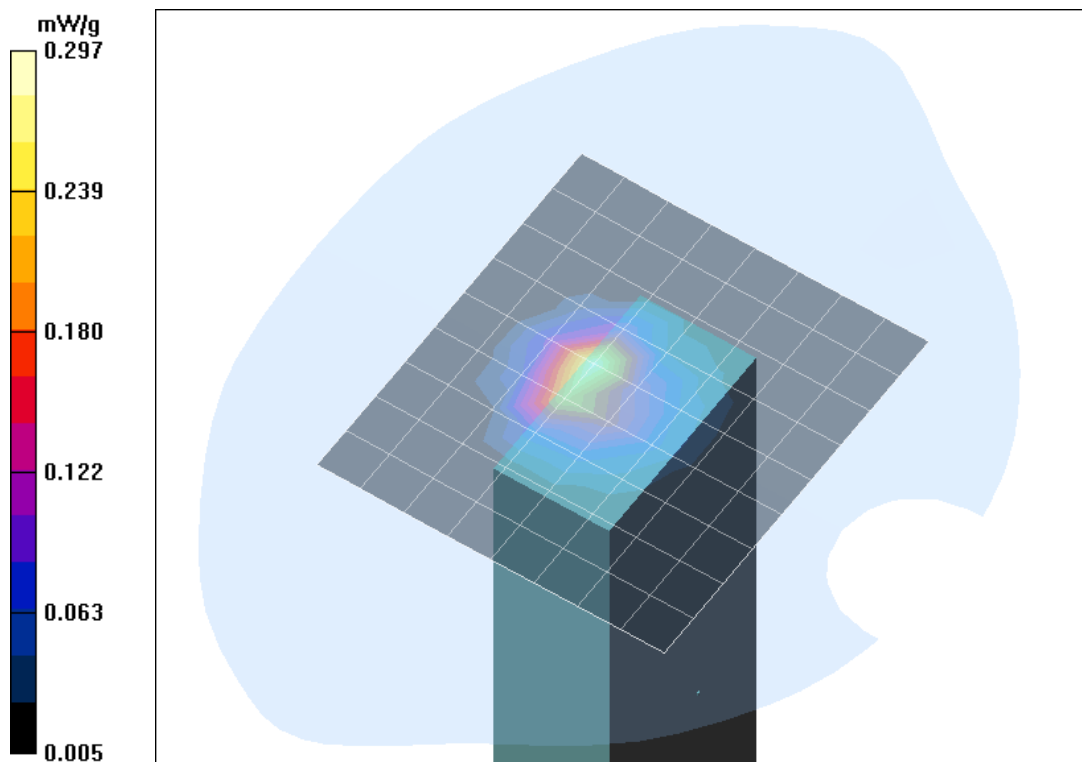


Fig. 11: SAR distribution for GPRS 1900 (Class 12), channel 661, Position 5 (November 27, 2008; Ambient Temperature: 21.4°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [DAP_847_yphm_5_CR.da4](#)

DUT: DAP; Type: CE3000BW; Serial: 352678014495847

Program Name: Body GPRS 1900

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.91, 4.91, 4.91); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2008
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (11x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.156 mW/g

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

Reference Value = 4.49 V/m; Power Drift = -0.083 dB

Peak SAR (extrapolated) = 0.224 W/kg

SAR(1 g) = 0.143 mW/g; SAR(10 g) = 0.084 mW/g

Maximum value of SAR (measured) = 0.155 mW/g

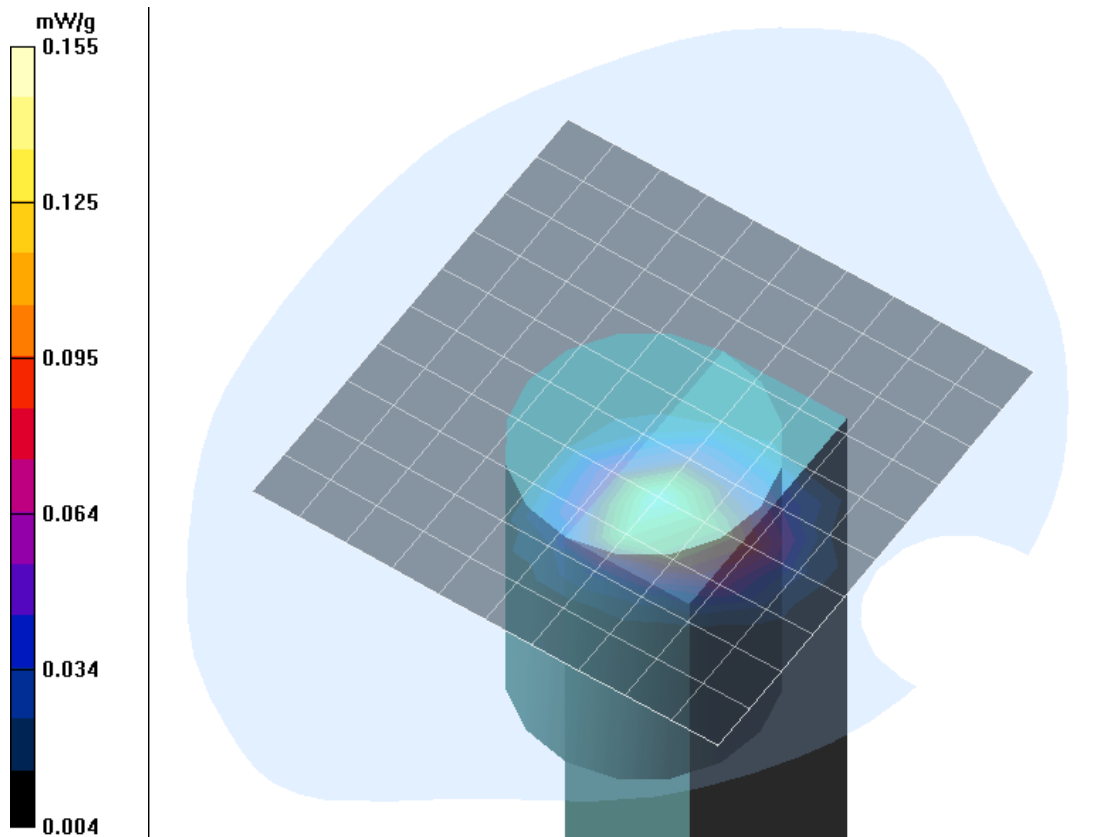


Fig. 12: SAR distribution for GPRS 1900 (Class 12), channel 661, Position 5 with attached smart card reader (November 27, 2008, 2008; Ambient Temperature: 21.2°C; Liquid Temperature: 20.4°C).

3 SAR Distribution Plots, IEEE 802.11 b Body

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [DAP_847_ywhm_b_CH6_1.da4](#)

DUT: DAP; Type: CE3000BW; Serial: 352678014495847

Program Name: WLAN

Communication System: WLAN 2450; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.39, 7.39, 7.39); Calibrated: 19.09.2008

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

- Electronics: DAE3 Sn335; Calibrated: 08.02.2008

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

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (12x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.001 mW/g

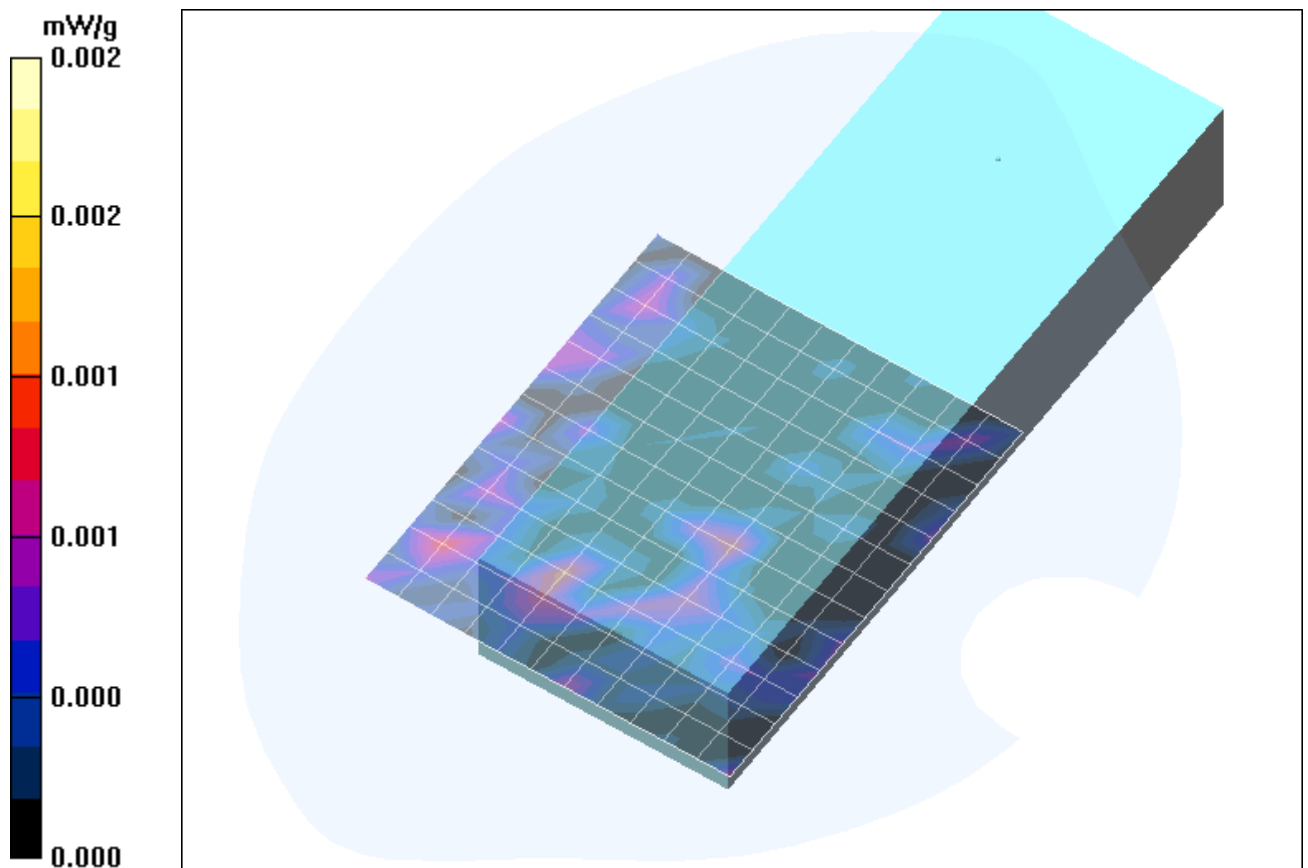


Fig. 13: SAR distribution for IEEE 802.11 b, channel 6, Position 1 (December 05, 2008; Ambient Temperature: 21.4°C; Liquid Temperature: 20.7°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [DAP 847_ywhm_b_CH6_2.da4](#)

DUT: DAP; Type: CE3000BW; Serial: 352678014495847

Program Name: WLAN

Communication System: WLAN 2450; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.39, 7.39, 7.39); Calibrated: 19.09.2008

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

- Electronics: DAE3 Sn335; Calibrated: 08.02.2008

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

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (12x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.001 mW/g

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

Reference Value = 0.000 V/m; Power Drift = 999.0 dB

Peak SAR (extrapolated) = 0.001 W/kg

SAR(1 g) = 0.000131 mW/g; SAR(10 g) = 2.33e-005 mW/g

Maximum value of SAR (measured) = 0.002 mW/g

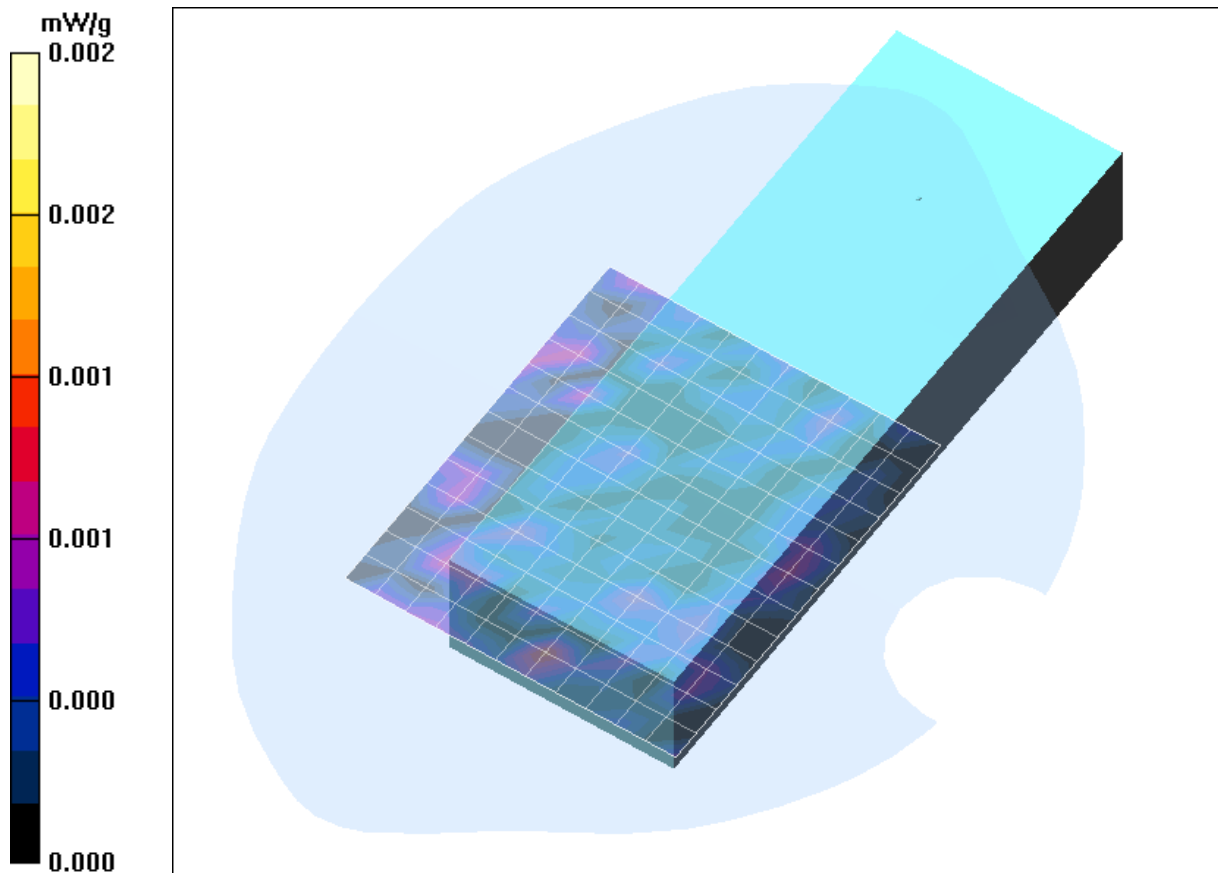


Fig. 14: SAR distribution for IEEE 802.11 b, channel 6, Position 2 (December 05, 2008; Ambient Temperature: 21.4°C; Liquid Temperature: 20.7°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [DAP 847_ywhm_b_CH6_3.da4](#)

DUT: DAP; Type: CE3000BW; Serial: 352678014495847

Program Name: WLAN

Communication System: WLAN 2450; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.39, 7.39, 7.39); Calibrated: 19.09.2008

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

- Electronics: DAE3 Sn335; Calibrated: 08.02.2008

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

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (12x17x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.001 mW/g

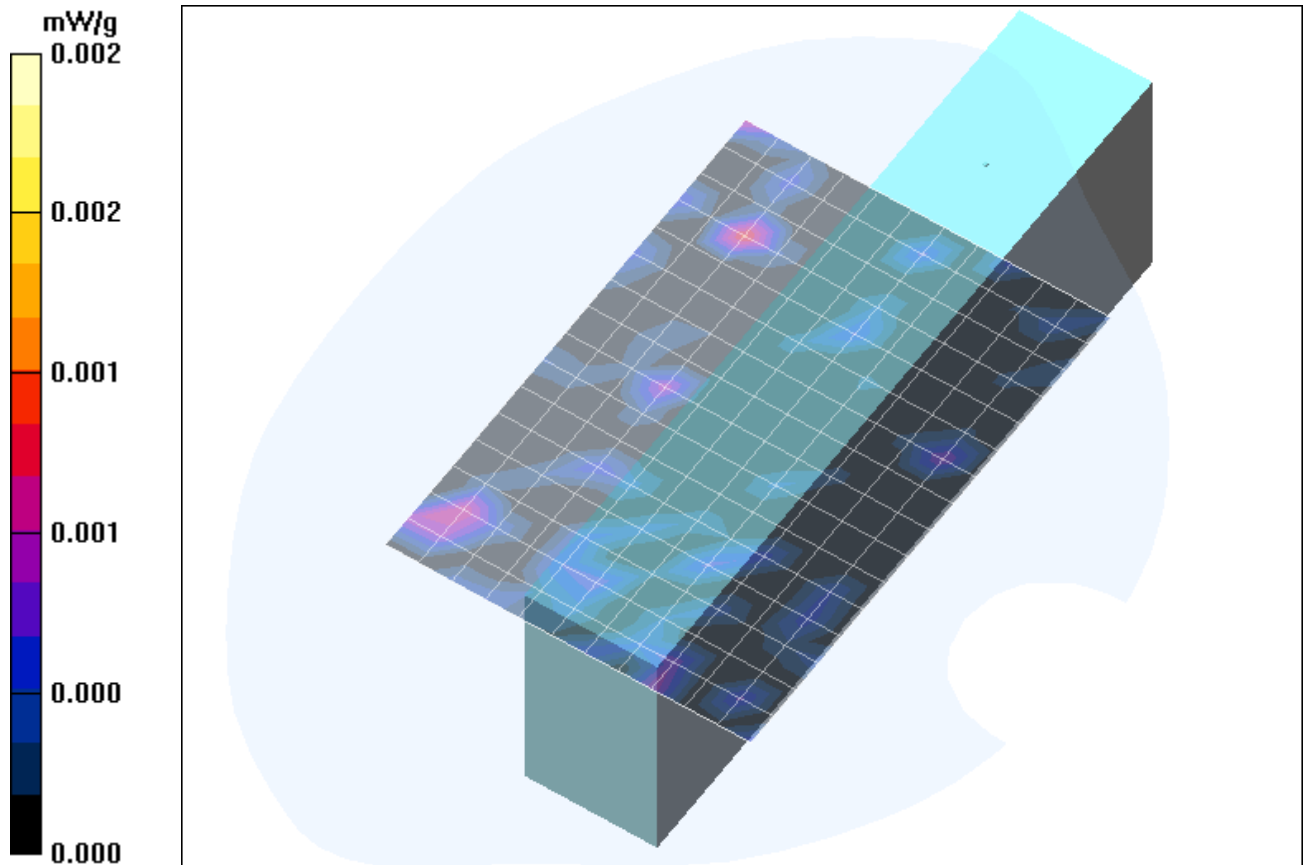


Fig. 15: SAR distribution for IEEE 802.11 b, channel 6, Position 3 (December 05, 2008; Ambient Temperature: 21.4°C; Liquid Temperature: 20.7°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [DAP 847_ywhm_b_CH6_4.da4](#)

DUT: DAP; Type: CE3000BW; Serial: 352678014495847

Program Name: WLAN

Communication System: WLAN 2450; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.39, 7.39, 7.39); Calibrated: 19.09.2008

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

- Electronics: DAE3 Sn335; Calibrated: 08.02.2008

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

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (12x17x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.001 mW/g

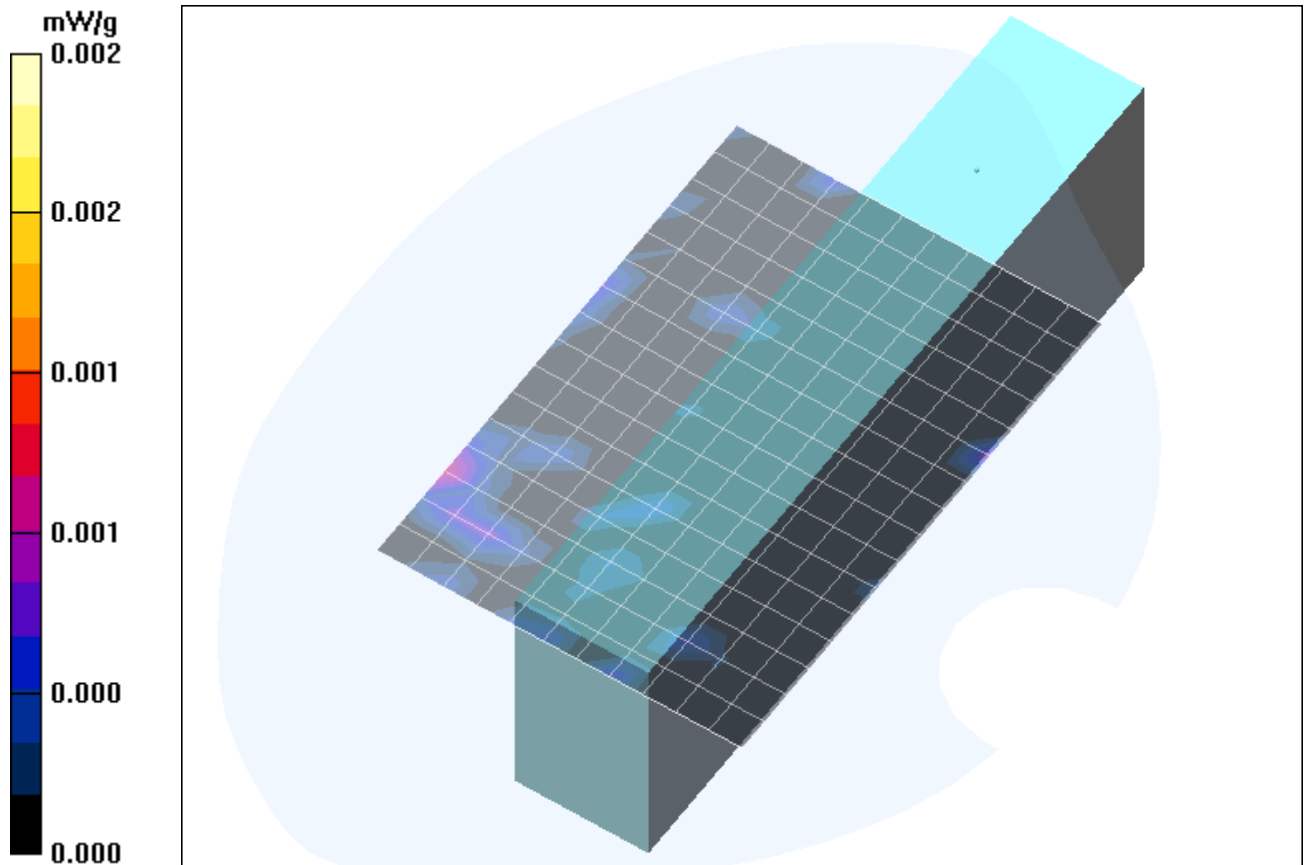


Fig. 16: SAR distribution for IEEE 802.11 b, channel 6, Position 4 (December 05, 2008; Ambient Temperature: 21.4°C; Liquid Temperature: 20.7°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [DAP 847_ywhm_b_CH6_5.da4](#)

DUT: DAP; Type: CE3000BW; Serial: 352678014495847

Program Name: WLAN

Communication System: WLAN 2450; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.39, 7.39, 7.39); Calibrated: 19.09.2008

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

- Electronics: DAE3 Sn335; Calibrated: 08.02.2008

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

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (13x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.001 mW/g

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

Reference Value = 0.302 V/m; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 0.001 W/kg

SAR(1 g) = 6.03e-005 mW/g; SAR(10 g) = 1.55e-005 mW/g

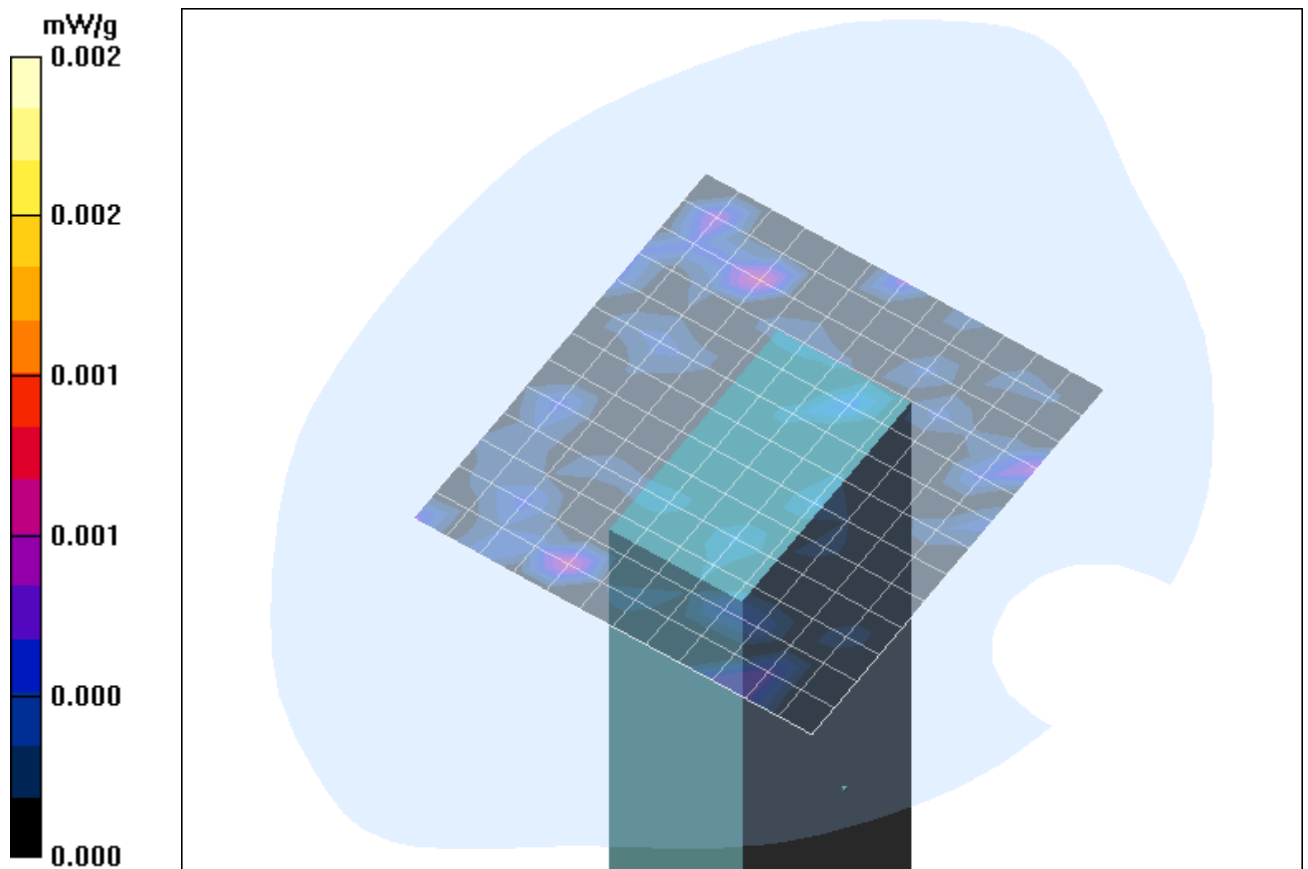


Fig. 17: SAR distribution for IEEE 802.11 b, channel 6, Position 5 (December 05, 2008; Ambient Temperature: 21.4°C; Liquid Temperature: 20.7°C).

4 SAR z-axis scans (Validation)

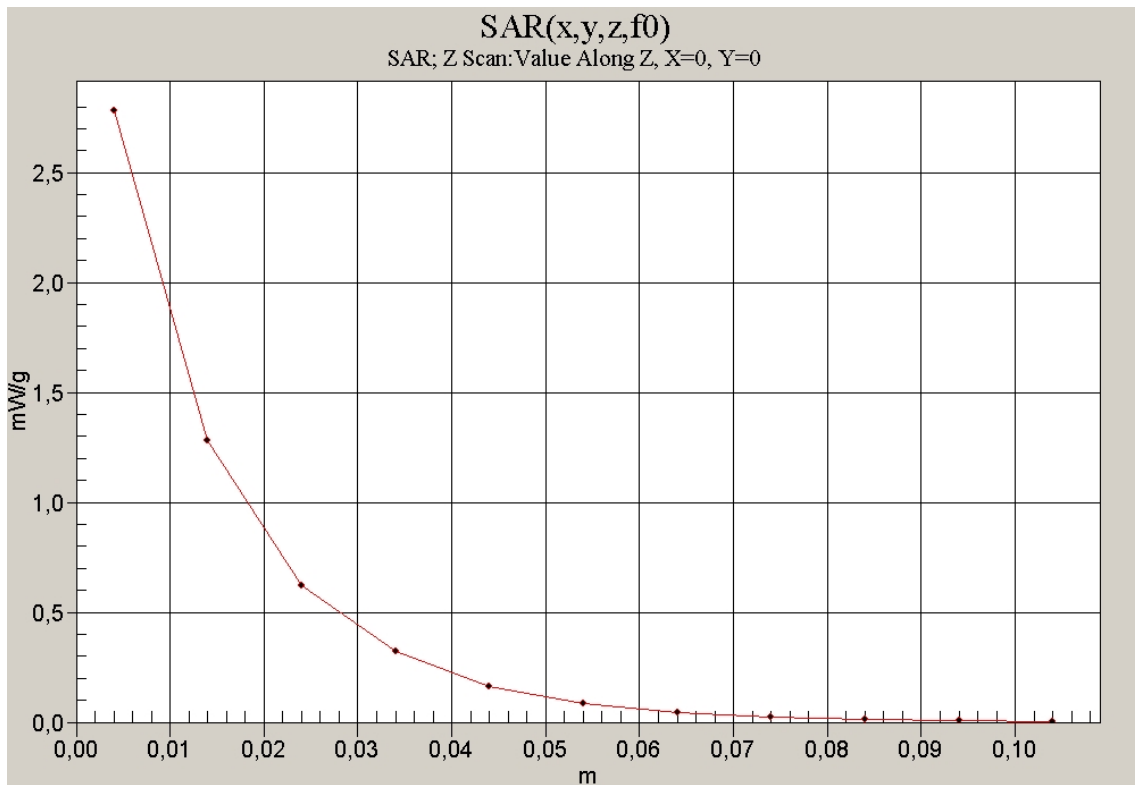


Fig. 18: SAR versus liquid depth, 835 MHz, body (December 04, 2008; Ambient Temperature: 21.0°C; Liquid Temperature: 20.6°C).

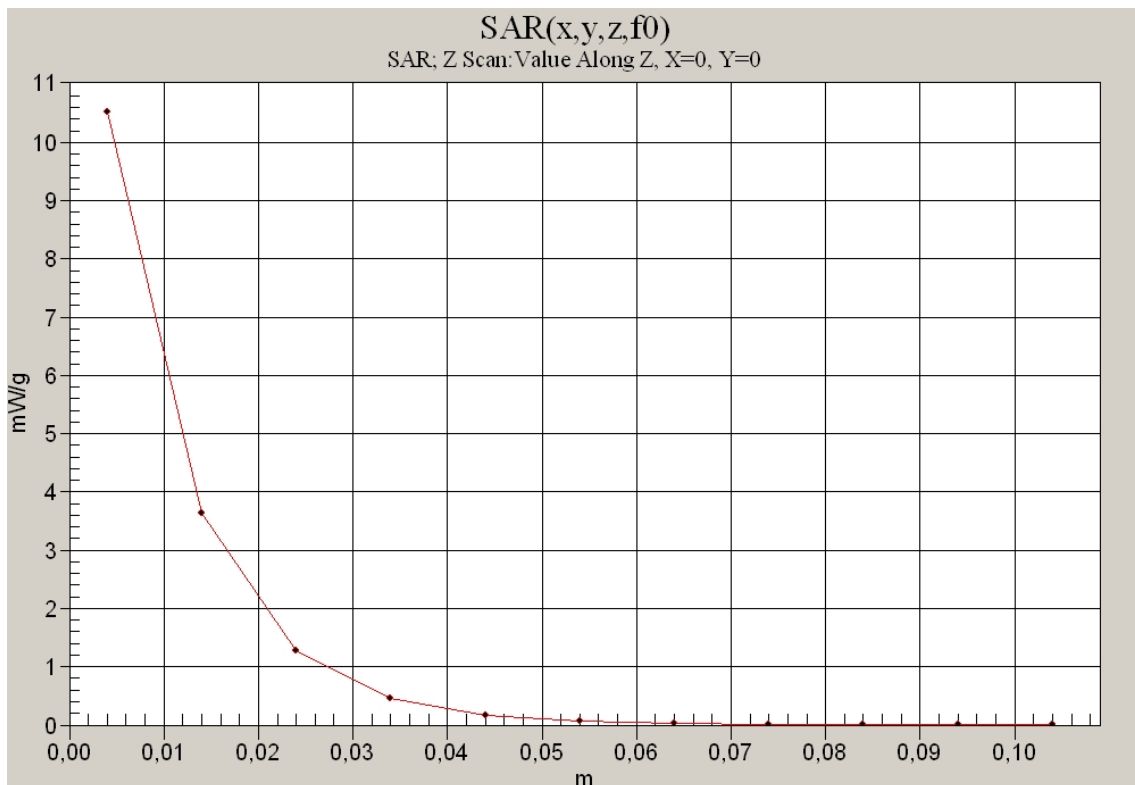


Fig. 19: SAR versus liquid depth, 1900 MHz, body (November 27, 2008; Ambient Temperature: 21.5°C; Liquid Temperature: 20.6°C).

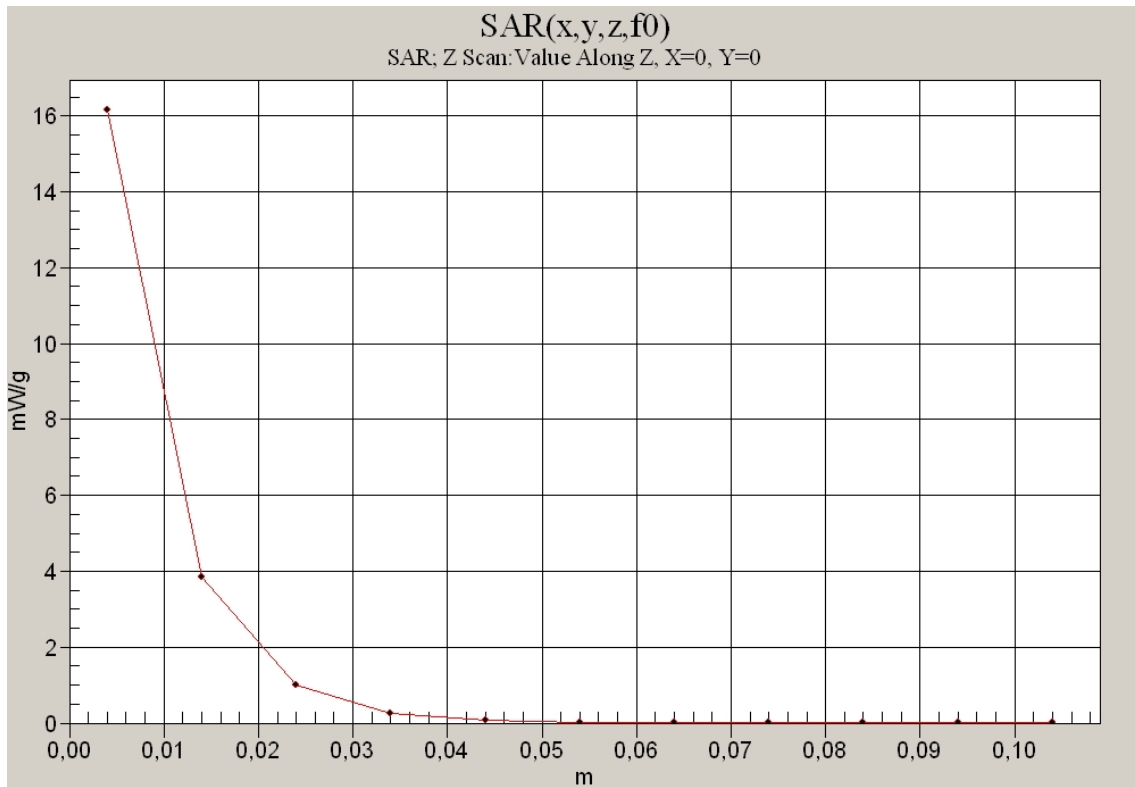


Fig. 20: SAR versus liquid depth, 2450 MHz, body (December 05, 2008; Ambient Temperature: 21.3°C; Liquid Temperature: 20.7°C).

5 SAR z-axis scans (Measurements)

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

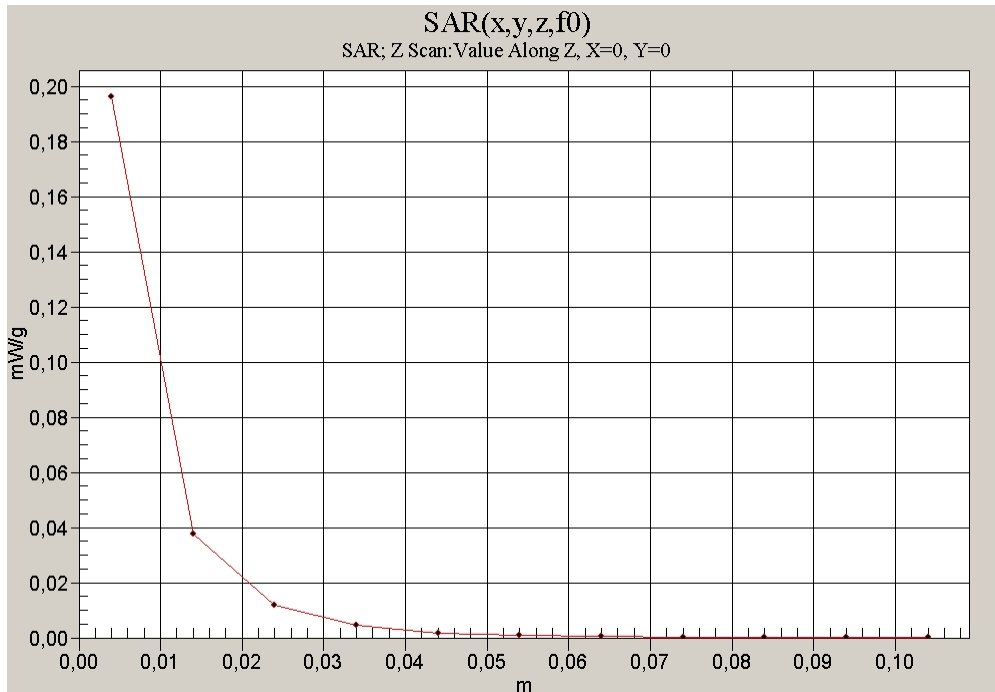


Fig. 21: SAR versus liquid depth, body: GPRS 850 (Class 12), channel 190, Position 1 without smart card reader (December 04, 2008; Ambient Temperature: 21.1°C; Liquid Temperature: 20.6°C).

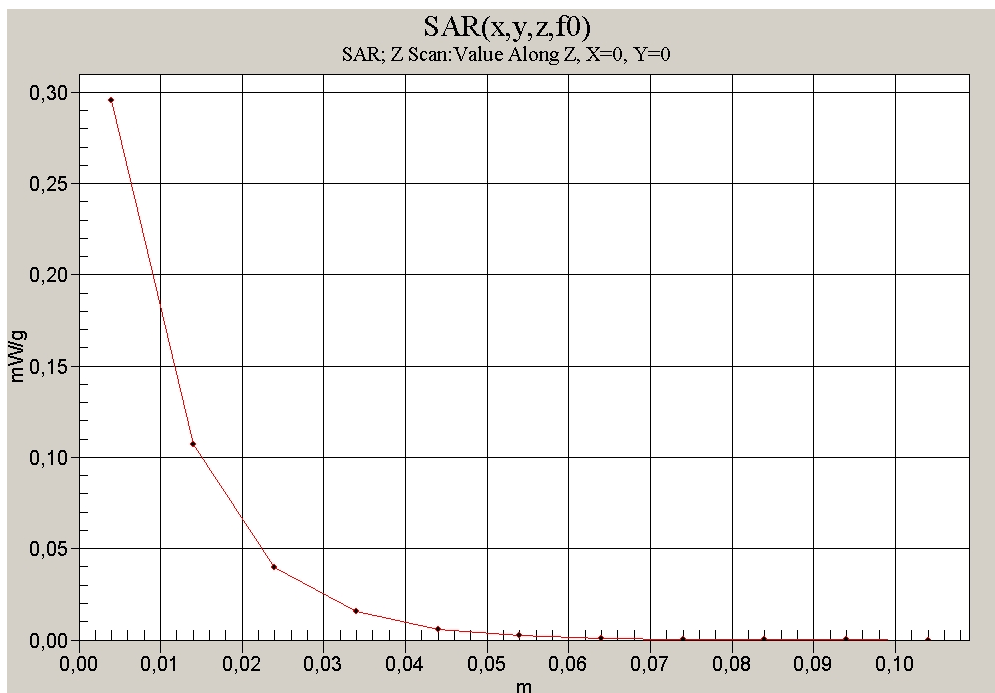


Fig. 22: SAR versus liquid depth, body: GPRS 1900 (Class 12), channel 661, Position 5 without smart card reader (November 27, 2008; Ambient Temperature: 21.4°C; Liquid Temperature: 20.6°C).