
Appendix for the Report

Dosimetric Assessment of the GlobeTrotter Express from Option (FCC ID: NCMOGE0301E)

According to the FCC Requirements

SAR Distribution Plots

June 25, 2007
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1 SAR Distribution Plots, GPRS 850 Body

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [FS_393_bahm_1.da4](#)

DUT: Option; Type: Globetrotter Express; Serial: 004401440325393

Program Name: Body Worn

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:2.66

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.22, 6.22, 6.22); Calibrated: 15.02.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2007
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (measured) = 0.371 mW/g

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

Reference Value = 22.0 V/m; Power Drift = -0.101 dB

Peak SAR (extrapolated) = 0.495 W/kg

SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.236 mW/g

Maximum value of SAR (measured) = 0.376 mW/g

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

Reference Value = 22.0 V/m; Power Drift = -0.101 dB

Peak SAR (extrapolated) = 0.337 W/kg

SAR(1 g) = 0.224 mW/g; SAR(10 g) = 0.157 mW/g

Maximum value of SAR (measured) = 0.270 mW/g

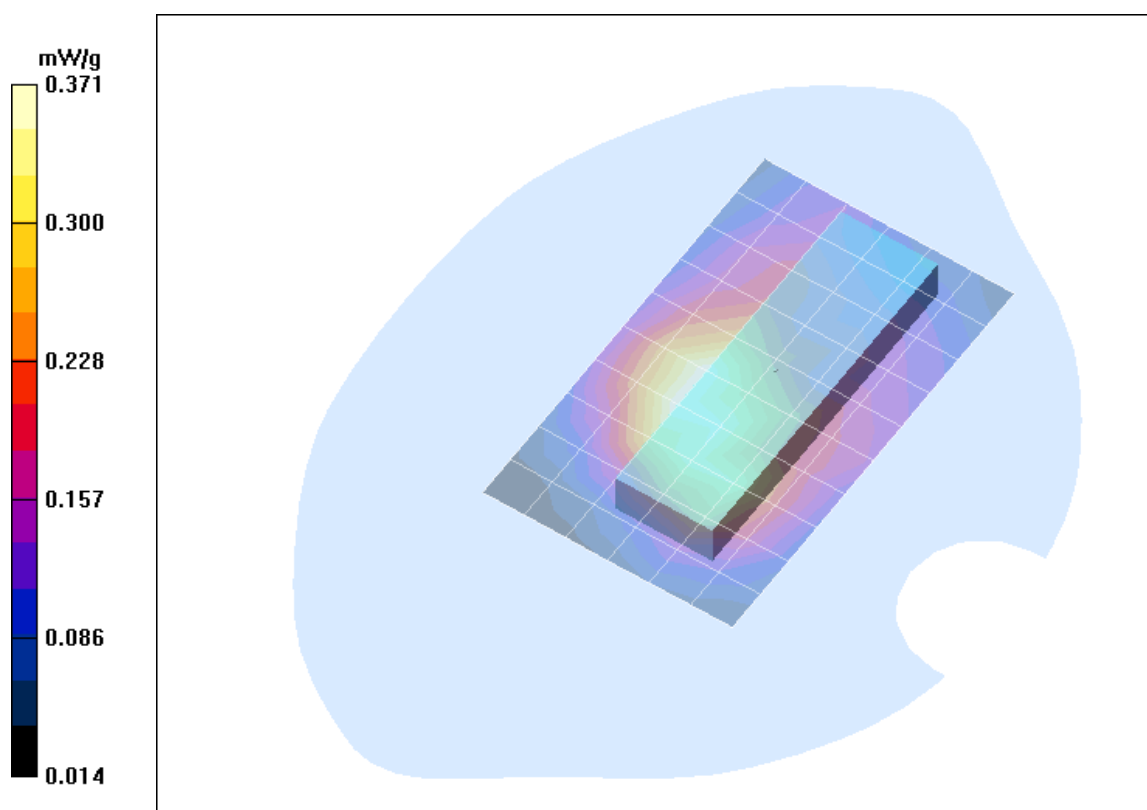


Fig. 1: SAR distribution for GPRS 850 (Class 11), channel 190, Lap Held Position (Fujitsu Siemens AMILO Pro V3205, March 28, 2007; Ambient Temperature: 22.4°C; Liquid Temperature: 21.4°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [AC_393_bahm_1.da4](#)

DUT: Option; Type: Globetrotter Express; Serial: 004401440325393

Program Name: Body Worn

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:2.66

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.22, 6.22, 6.22); Calibrated: 15.02.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2007
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (measured) = 0.699 mW/g

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

Reference Value = 24.2 V/m; Power Drift = -0.158 dB

Peak SAR (extrapolated) = 0.893 W/kg

SAR(1 g) = 0.655 mW/g; SAR(10 g) = 0.450 mW/g

Maximum value of SAR (measured) = 0.700 mW/g

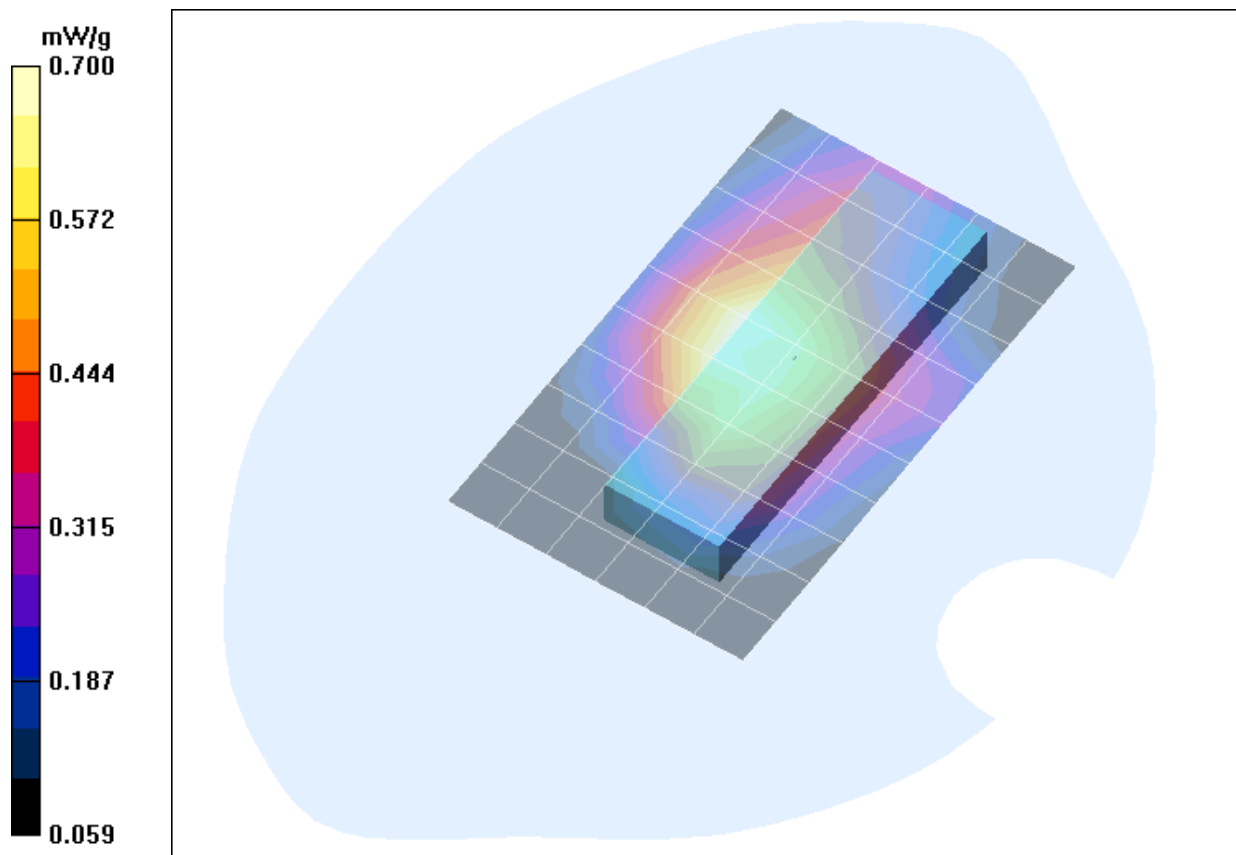


Fig. 2: SAR distribution for GPRS 850 (Class 11), channel 190, Lap Held Position (Acer TravelMate, March 28, 2007; Ambient Temperature: 22.4°C; Liquid Temperature: 21.4°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [HP_393_bahl_1.da4](#)

DUT: Option; Type: Globetrotter Express; Serial: 004401440325393

Program Name: Body Worn

Communication System: GPRS 850; Frequency: 824.2 MHz; Duty Cycle: 1:2.66

Medium parameters used: $f = 824.2$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.22, 6.22, 6.22); Calibrated: 15.02.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2007
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

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

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

Reference Value = 34.2 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.989 mW/g; SAR(10 g) = 0.663 mW/g

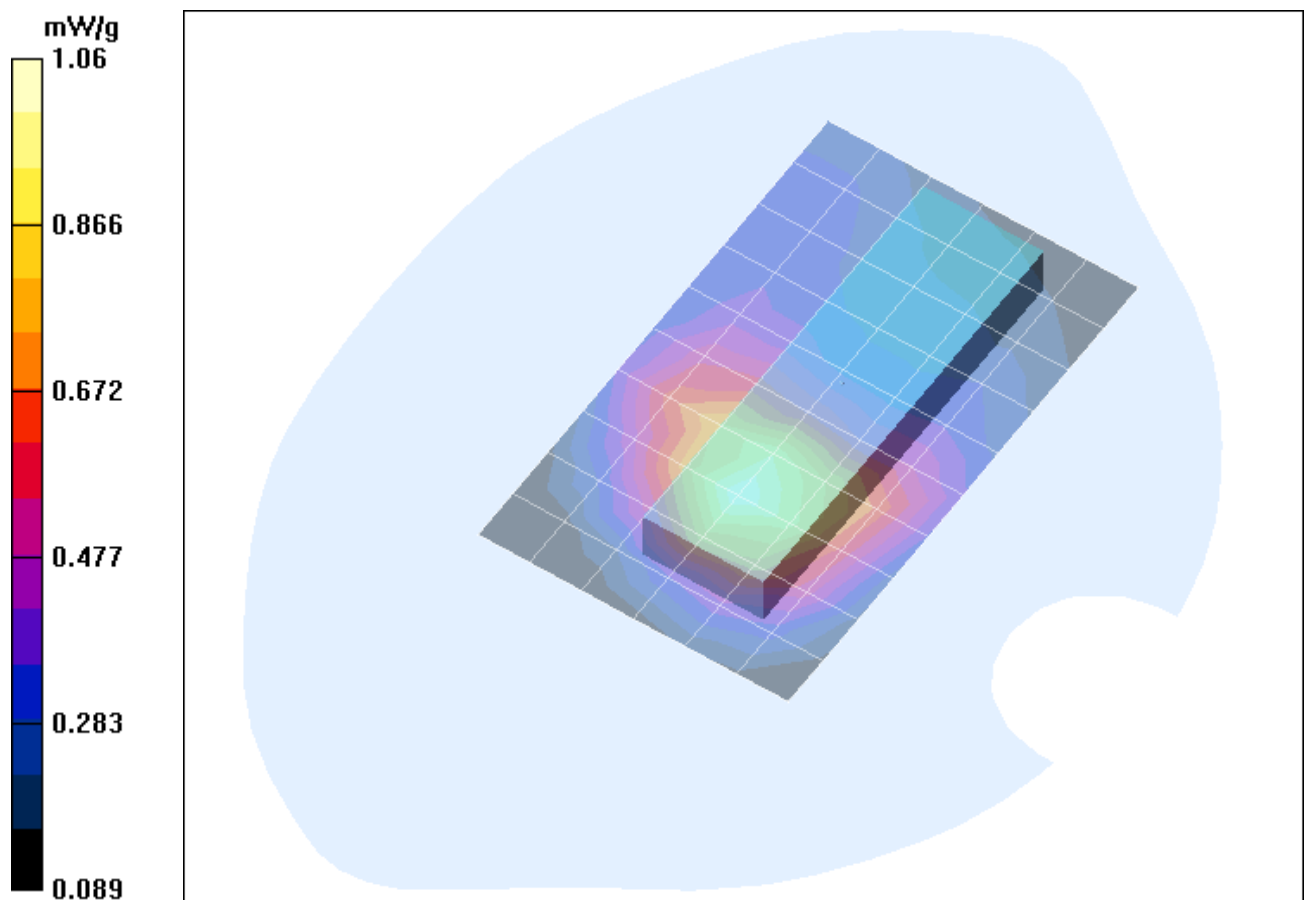


Fig. 3: SAR worst case distribution for GPRS 850 (Class 11), channel 128, Lap Held Position (HP Compaq nc6320, March 28, 2007; Ambient Temperature: 22.4°C; Liquid Temperature: 21.4°C).

2 SAR Distribution Plots, GPRS 1900 Body

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [FS_393_yphm_1.da4](#)

DUT: Option; Type: Globetrotter Express; Serial: 004401440325393

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 27.09.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (measured) = 0.214 mW/g

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

Reference Value = 9.43 V/m; Power Drift = -0.179 dB

Peak SAR (extrapolated) = 0.327 W/kg

SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.136 mW/g

Maximum value of SAR (measured) = 0.229 mW/g

Body Worn/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.43 V/m; Power Drift = -0.179 dB

Peak SAR (extrapolated) = 0.302 W/kg

SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.114 mW/g

Maximum value of SAR (measured) = 0.204 mW/g

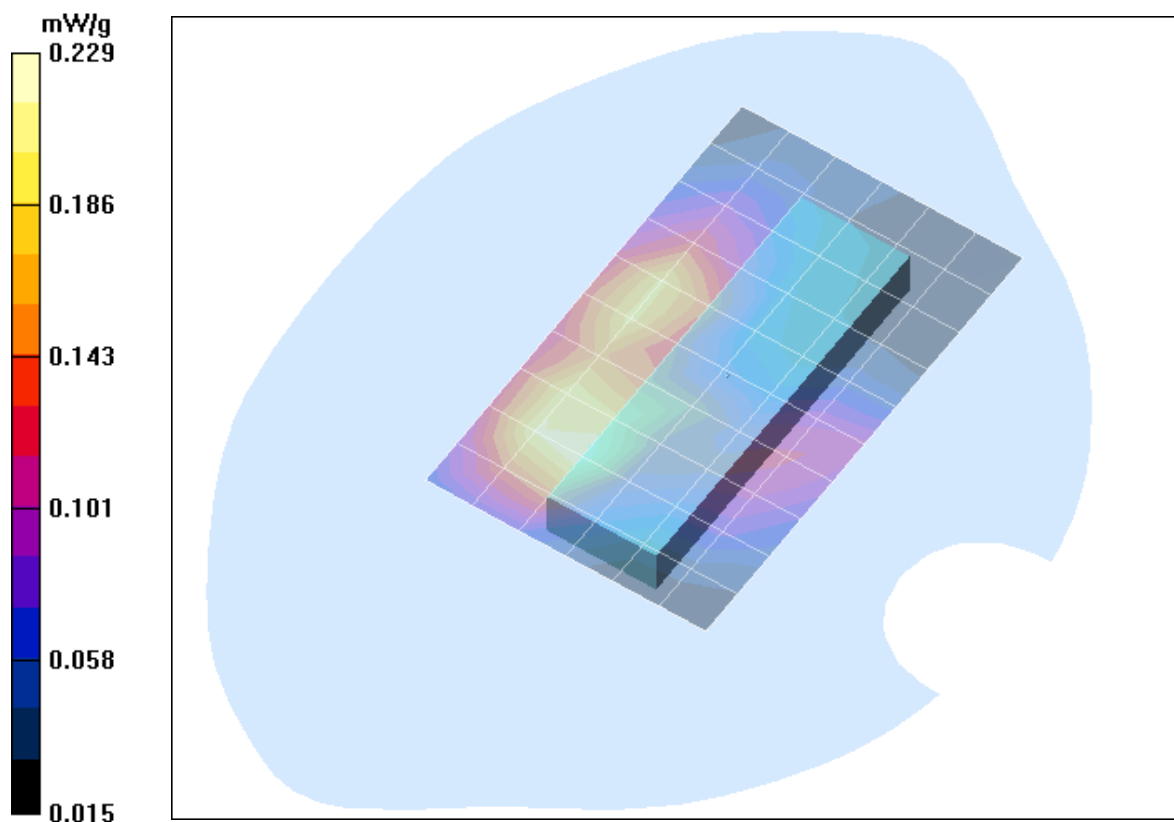


Fig. 4: SAR distribution for GPRS 1900 (Class 12), channel 661, Lap Held Position (Fujitsu Siemens AMILO Pro V3205, March 28, 2007; Ambient Temperature: 22.1° C; Liquid Temperature: 21.3 C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [AC_393_yphm_1.da4](#)

DUT: Option; Type: Globetrotter Express; Serial: 004401440325393

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 27.09.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (measured) = 0.362 mW/g

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

Reference Value = 11.9 V/m; Power Drift = -0.186 dB

Peak SAR (extrapolated) = 0.532 W/kg

SAR(1 g) = 0.337 mW/g; SAR(10 g) = 0.204 mW/g

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

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

Reference Value = 11.9 V/m; Power Drift = -0.186 dB

Peak SAR (extrapolated) = 0.501 W/kg

SAR(1 g) = 0.302 mW/g; SAR(10 g) = 0.178 mW/g

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

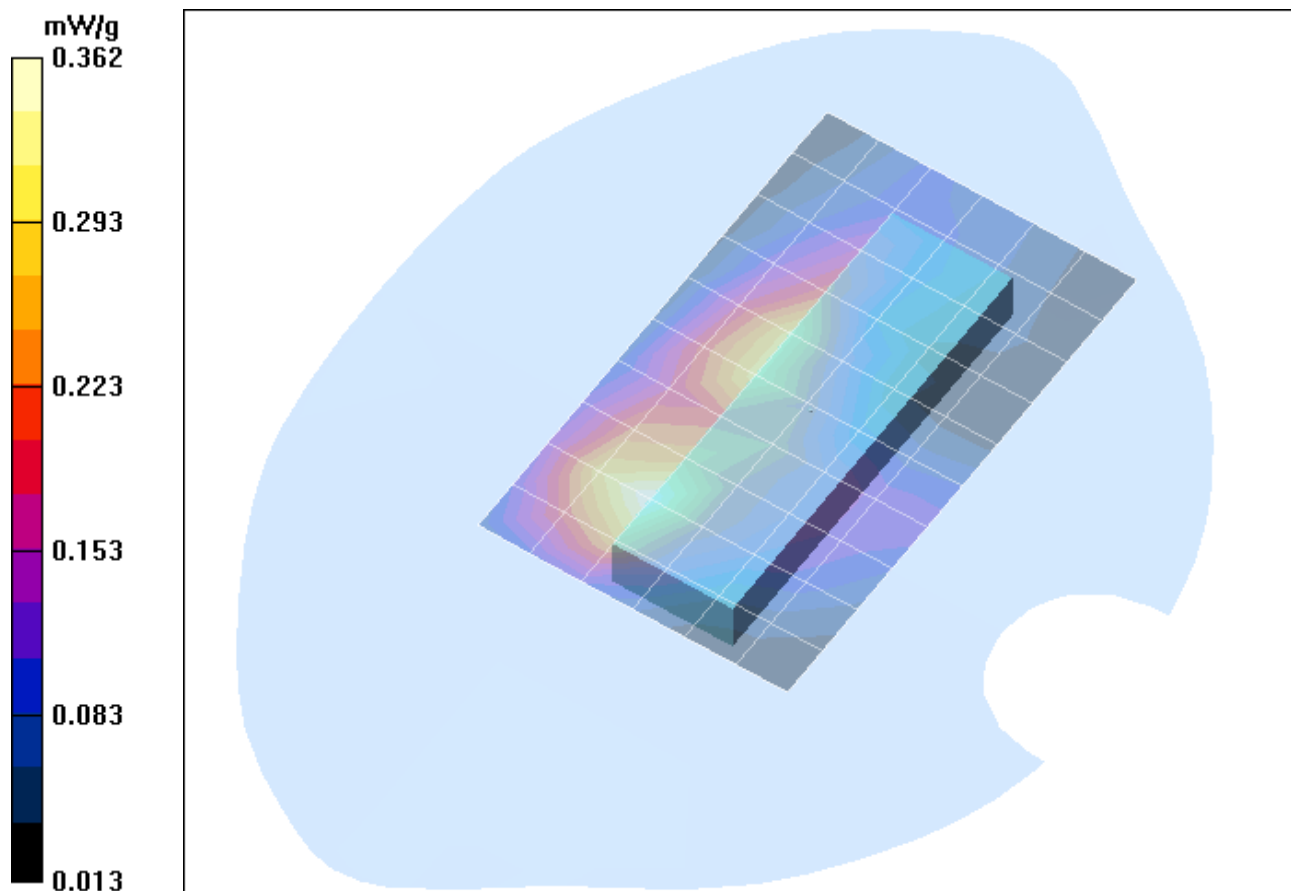


Fig. 5: SAR distribution for GPRS 1900 (Class 12), channel 661, Lap Held Position (Acer TravelMate, March 28, 2007; Ambient Temperature: 22.1° C; Liquid Temperature: 21.3 C).

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [HP_393_yphm_1.da4](#)

DUT: Option; **Type:** Globetrotter Express; **Serial:** 004401440325393

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 27.09.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (measured) = 0.241 mW/g

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

Reference Value = 8.20 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.368 W/kg

SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.146 mW/g

Maximum value of SAR (measured) = 0.252 mW/g

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

Reference Value = 8.20 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.384 W/kg

SAR(1 g) = 0.219 mW/g; SAR(10 g) = 0.124 mW/g

Maximum value of SAR (measured) = 0.239 mW/g

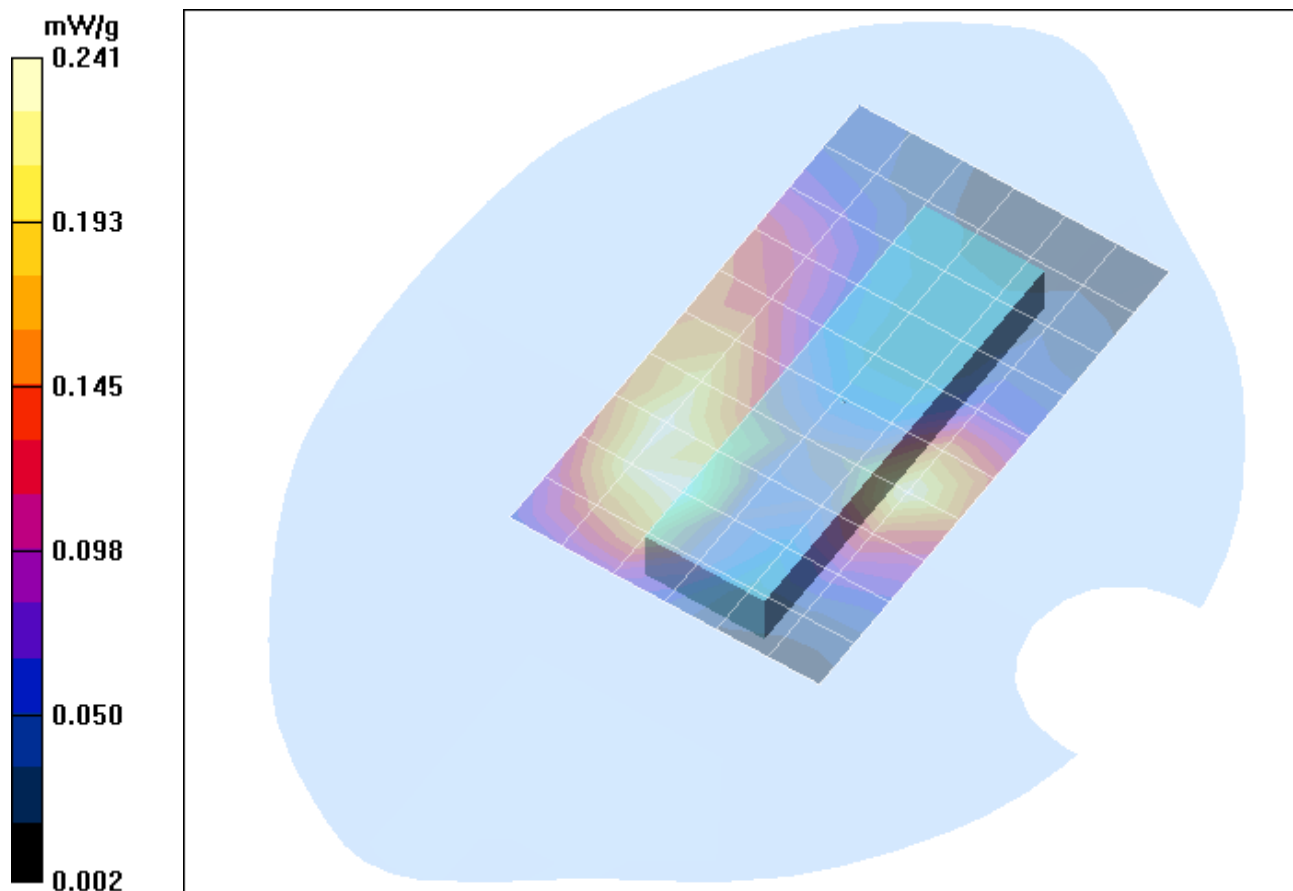


Fig. 6: SAR distribution for GPRS 1900 (Class 12), channel 661, Lap Held Position (HP Compaq nc6320, March 28, 2007; Ambient Temperature: 22.1° C; Liquid Temperature: 21.0C).

3 SAR Distribution Plots, WCDMA II (FDD) Body

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [FS_393_yullhm_1_wdh.da4](#)

DUT: Option; Type: Globetrotter Express; Serial: 004401440325393

Program Name: Body Worn

Communication System: WCDMA FDD Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 27.09.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Worn/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 5.40 V/m; Power Drift = -0.165 dB

Peak SAR (extrapolated) = 0.128 W/kg

SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.050 mW/g

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

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

Reference Value = 5.40 V/m; Power Drift = -0.165 dB

Peak SAR (extrapolated) = 0.137 W/kg

SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.049 mW/g

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

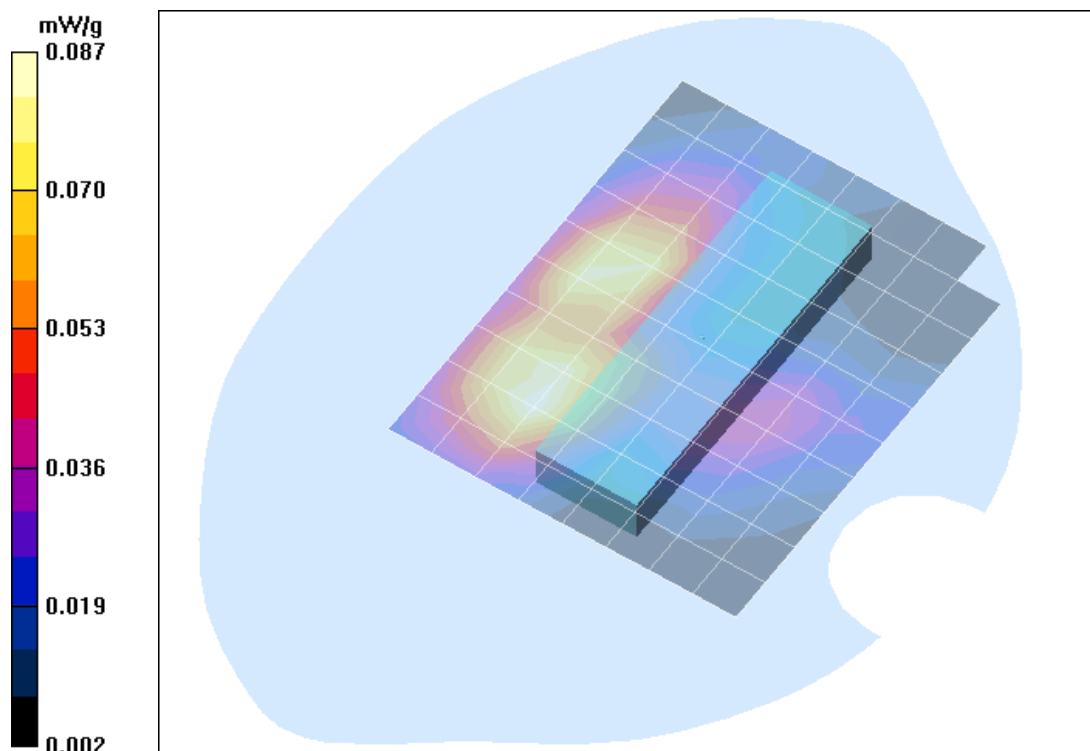


Fig. 7: SAR distribution for WCDMA II (FDD), channel 9400, Lap Held Position (Fujitsu Siemens AMILO Pro V3205, April 02, 2007; Ambient Temperature: 22.1° C; Liquid Temperature: 21.0° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [AC_393_yullhm_1.da4](#)

DUT: Option; Type: Globetrotter Express; Serial: 004401440325393

Program Name: Body Worn

Communication System: WCDMA FDD Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 27.09.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Worn/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.168 mW/g

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

Reference Value = 7.55 V/m; Power Drift = 0.074 dB

Peak SAR (extrapolated) = 0.271 W/kg

SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.098 mW/g

Maximum value of SAR (measured) = 0.183 mW/g

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

Reference Value = 7.55 V/m; Power Drift = 0.074 dB

Peak SAR (extrapolated) = 0.222 W/kg

SAR(1 g) = 0.135 mW/g; SAR(10 g) = 0.079 mW/g

Maximum value of SAR (measured) = 0.149 mW/g

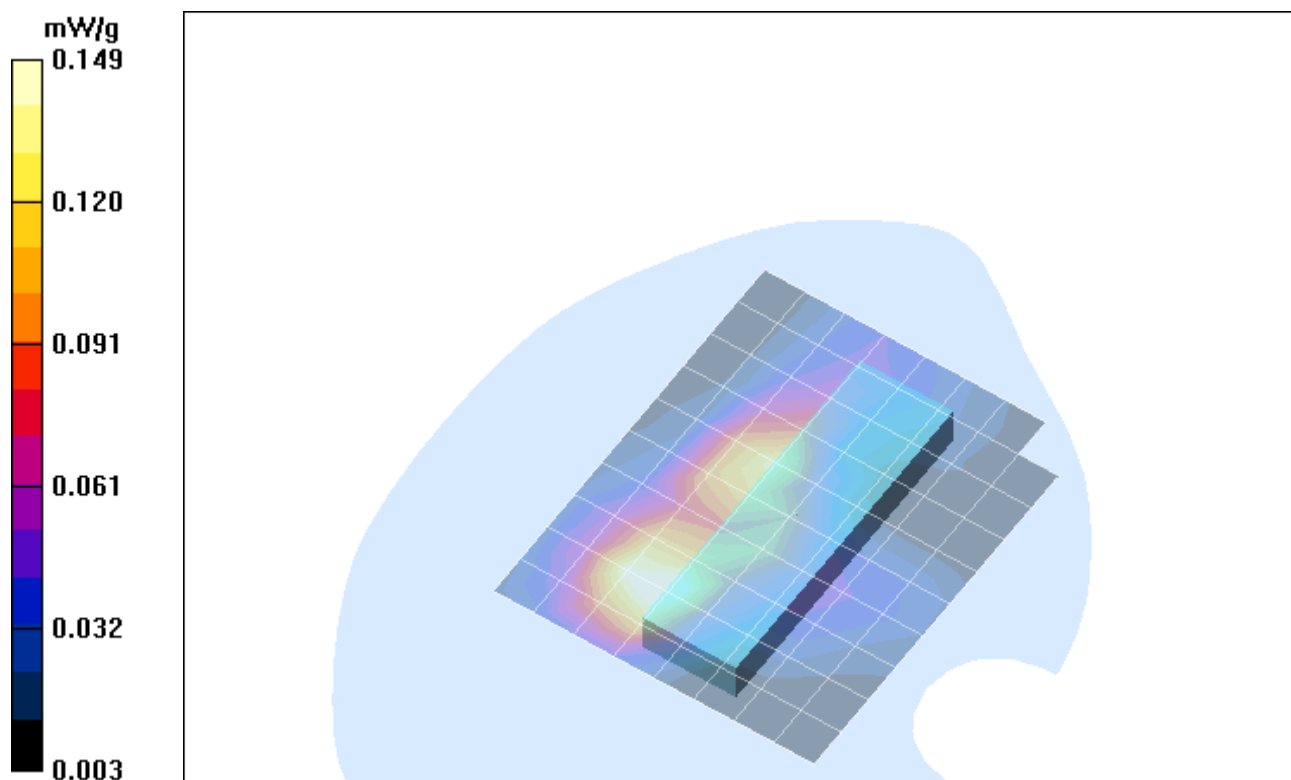


Fig. 8: SAR distribution for WCDMA II (FDD), channel 9400, Lap Held Position (Acer TravelMate, April 02, 2007; Ambient Temperature: 22.1° C; Liquid Temperature: 21.0° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [HP_393_yullhm_1_wdh.da4](#)

DUT: Option; Type: Globetrotter Express; Serial: 004401440325393

Program Name: Body Worn

Communication System: WCDMA FDD Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 27.09.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Worn/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.111 mW/g

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

Reference Value = 4.95 V/m; Power Drift = 0.113 dB

Peak SAR (extrapolated) = 0.165 W/kg

SAR(1 g) = 0.104 mW/g; SAR(10 g) = 0.064 mW/g

Maximum value of SAR (measured) = 0.112 mW/g

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

Reference Value = 4.95 V/m; Power Drift = 0.113 dB

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.050 mW/g

Maximum value of SAR (measured) = 0.098 mW/g

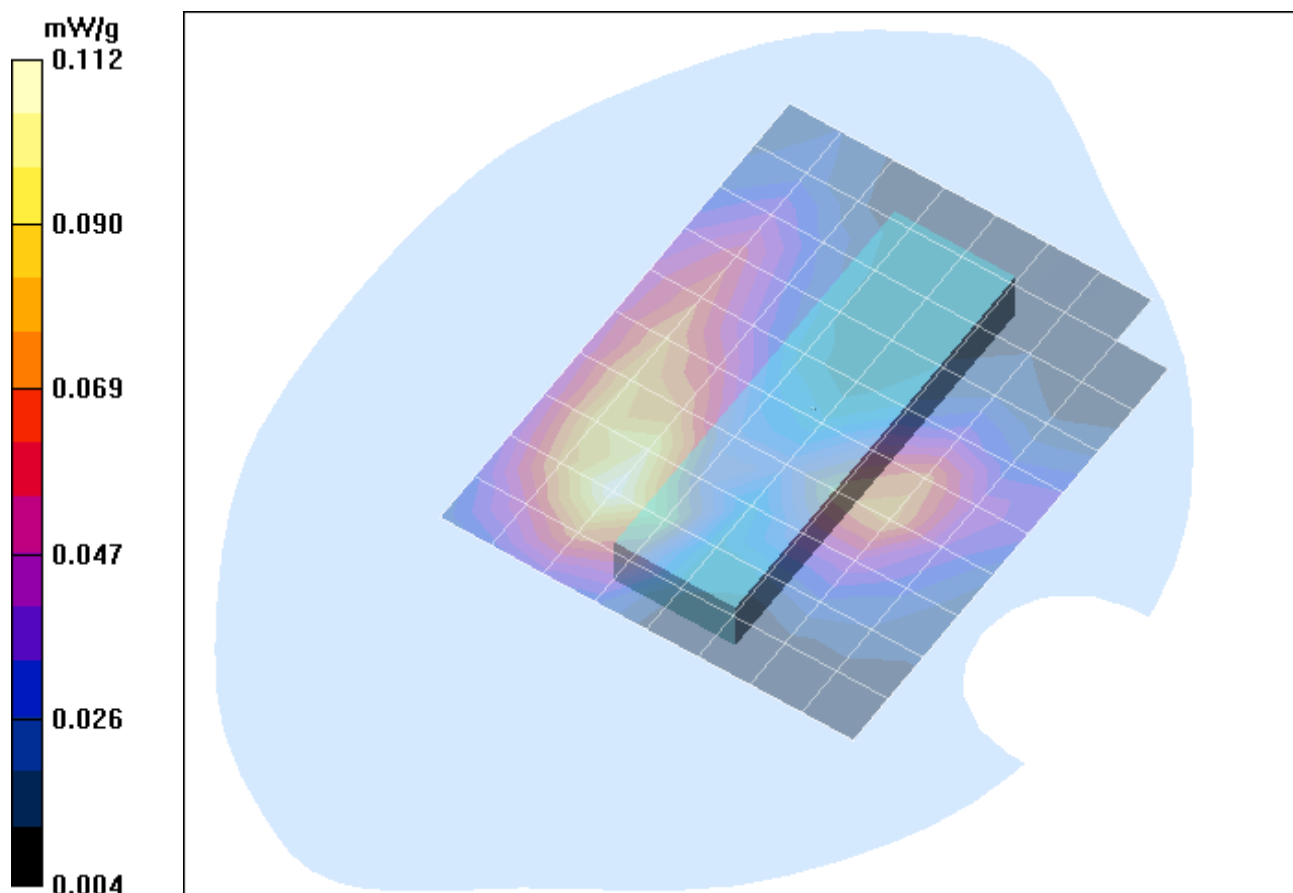


Fig. 9: SAR distribution for WCDMA II (FDD), channel 9400, Lap Held Position (HP Compaq nc6320, April 02, 2007; Ambient Temperature: 22.1° C; Liquid Temperature: 21.0° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [AC_393_yullhm_1_hsdpa.da4](#)

DUT: Option; Type: Globetrotter Express; Serial: 004401440325393

Program Name: Body Worn

Communication System: WCDMA FDD Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 27.09.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Worn/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.172 mW/g

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

Reference Value = 6.79 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 0.307 W/kg

SAR(1 g) = 0.188 mW/g; SAR(10 g) = 0.109 mW/g

Maximum value of SAR (measured) = 0.205 mW/g

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

Reference Value = 6.79 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 0.245 W/kg

SAR(1 g) = 0.142 mW/g; SAR(10 g) = 0.081 mW/g

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

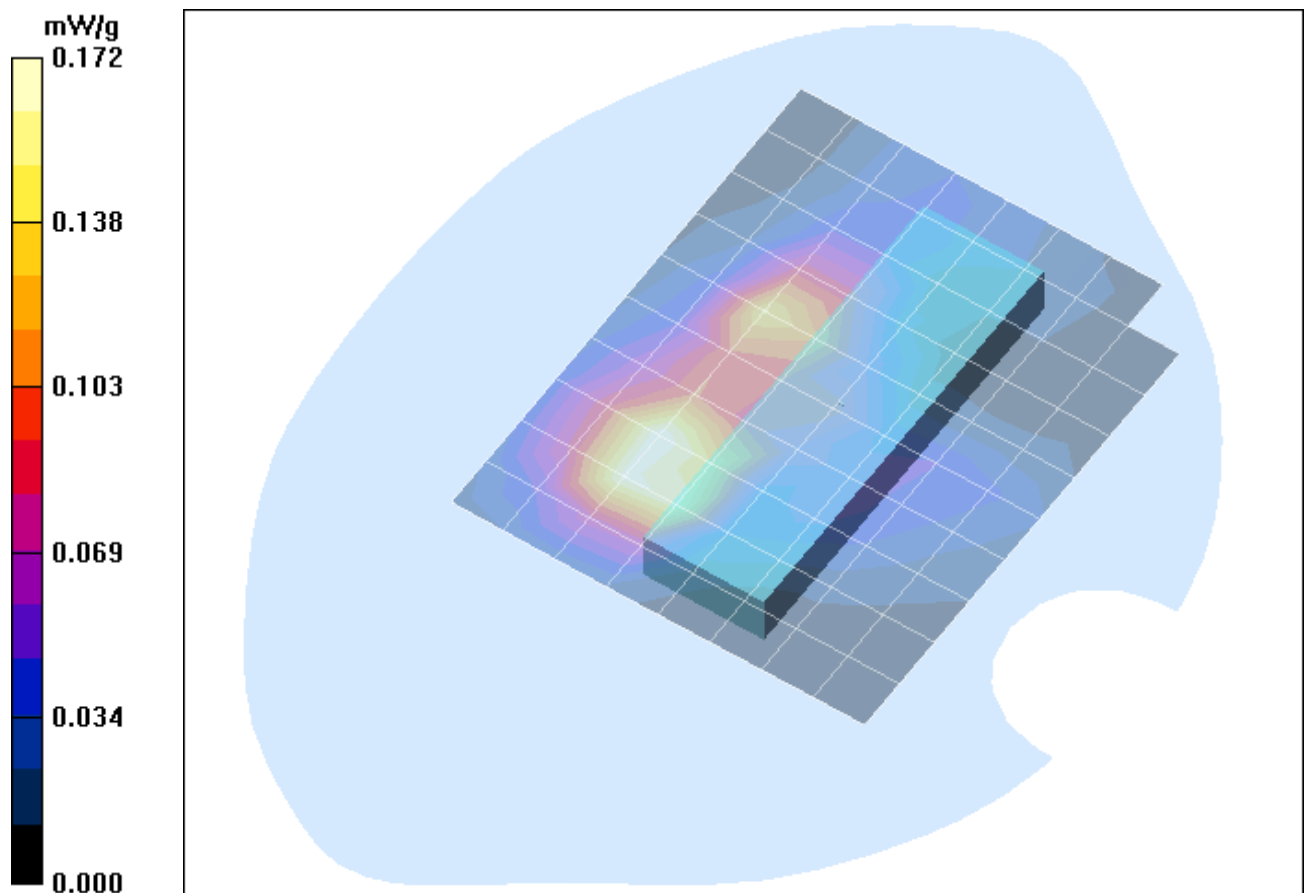


Fig. 10: SAR distribution for WCDMA II (FDD), HSDPA, channel 9400, Lap Held Position (Acer TravelMate, April 02, 2007; Ambient Temperature: 22.1° C; Liquid Temperature: 21.0° C).

4 SAR Distribution Plots, WCDMA V (FDD) Body

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [FS_393_buVhm_1.da4](#)

DUT: Option; Type: Globetrotter Express; Serial: 004401440325393

Program Name: Body Worn

Communication System: WCDMA (FDD) Band V; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.22, 6.22, 6.22); Calibrated: 15.02.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2007
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (measured) = 0.219 mW/g

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

Reference Value = 12.4 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 0.299 W/kg

SAR(1 g) = 0.200 mW/g; SAR(10 g) = 0.132 mW/g

Maximum value of SAR (measured) = 0.223 mW/g

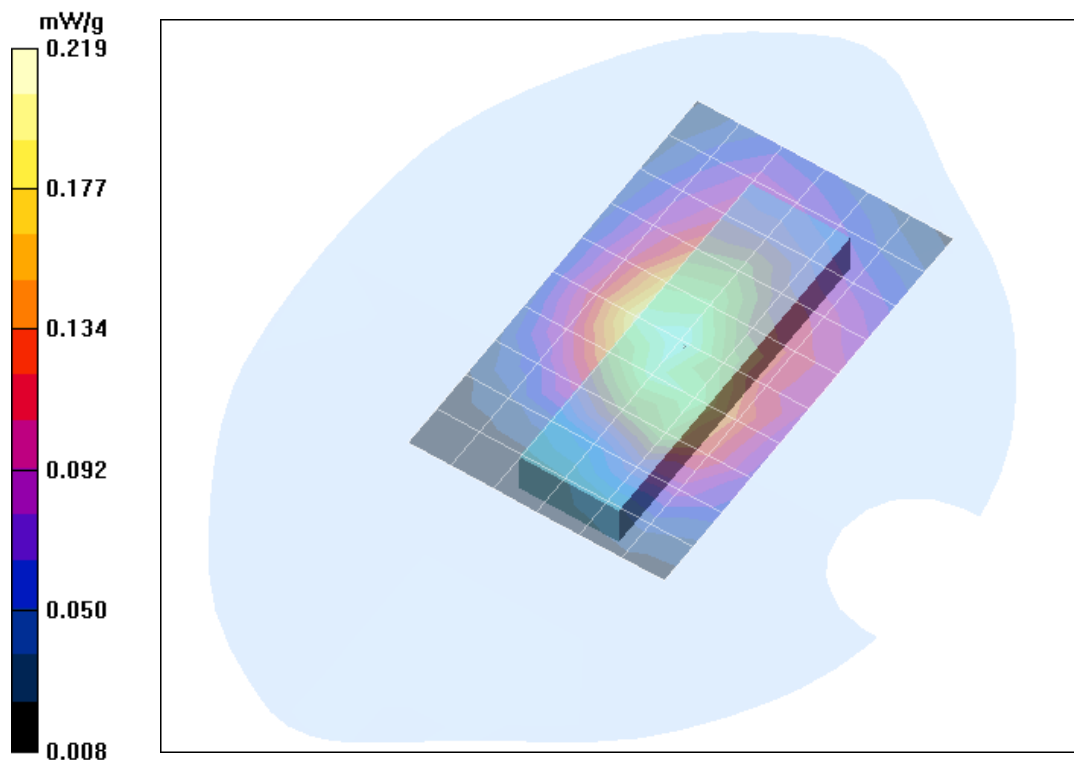


Fig. 11: SAR distribution for WCDMA V (FDD), channel 4183, Lap Held Position (Fujitsu Siemens AMILO Pro V3205, April 02, 2007; Ambient Temperature: 22.0° C; Liquid Temperature: 21.0° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [AC_393_buVhm_1.da4](#)

DUT: Option; Type: Globetrotter Express; Serial: 004401440325393

Program Name: Body Worn

Communication System: WCDMA (FDD) Band V; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 55.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.22, 6.22, 6.22); Calibrated: 15.02.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2007
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Worn/Area Scan (7x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.187 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 = 12.0 V/m; Power Drift = 0.163 dB

Peak SAR (extrapolated) = 0.260 W/kg

SAR(1 g) = 0.191 mW/g; SAR(10 g) = 0.136 mW/g

Maximum value of SAR (measured) = 0.203 mW/g

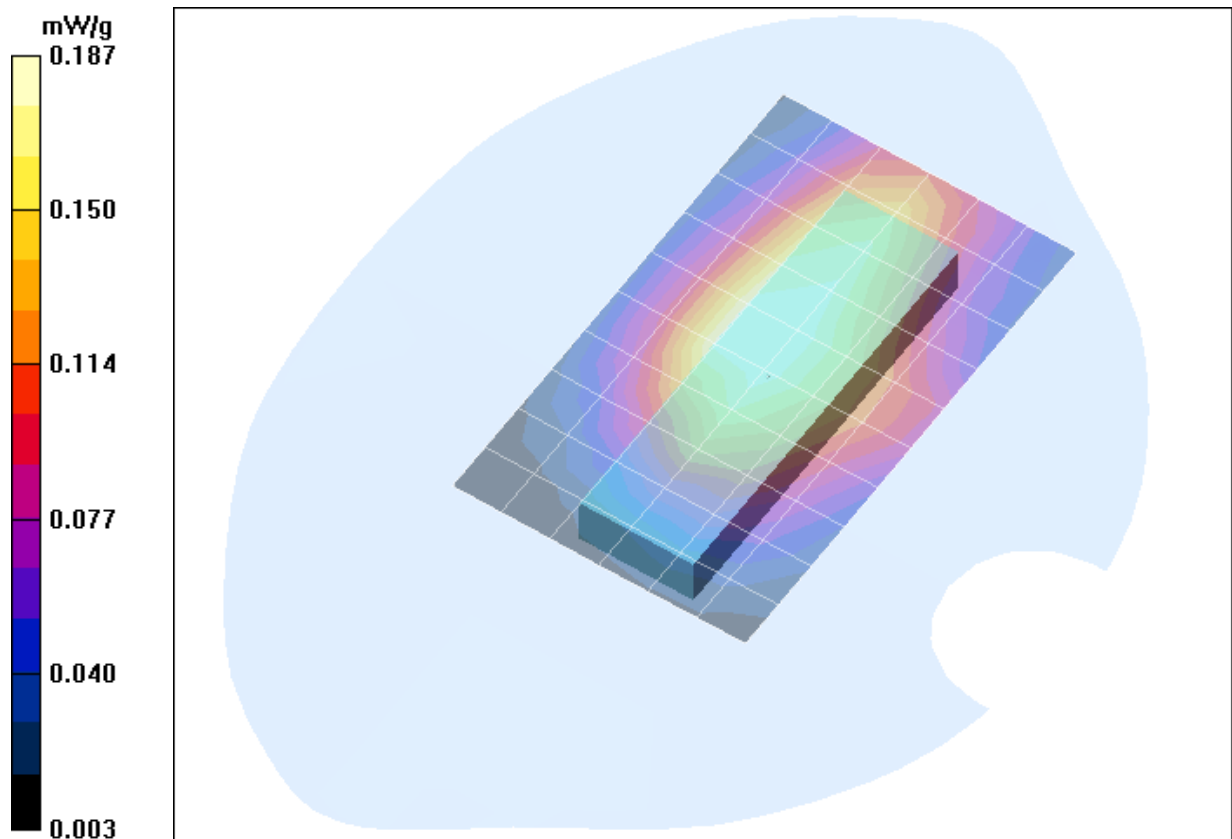


Fig. 12: SAR distribution for WCDMA V (FDD), channel 4183, Lap Held Position (Acer TravelMate, April 02, 2007; Ambient Temperature: 22.0° C; Liquid Temperature: 21.0° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [HP_393_buVhm_1.da4](#)

DUT: Option; Type: Globetrotter Express; Serial: 004401440325393

Program Name: Body Worn

Communication System: WCDMA (FDD) Band V; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.22, 6.22, 6.22); Calibrated: 15.02.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2007
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (measured) = 0.332 mW/g

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

Reference Value = 18.8 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.461 W/kg

SAR(1 g) = 0.316 mW/g; SAR(10 g) = 0.209 mW/g

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

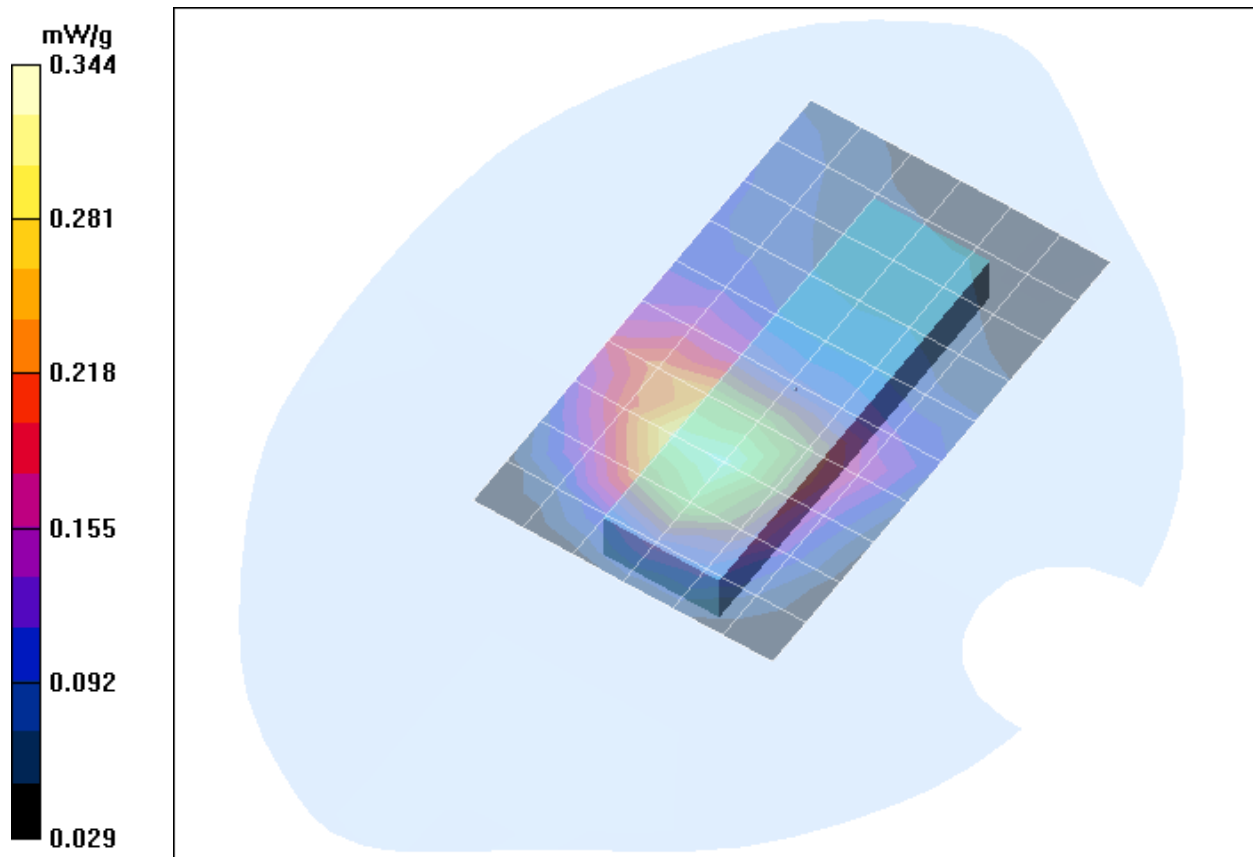


Fig. 13: SAR distribution for WCDMA V (FDD), channel 4183, Lap Held Position (HP Compaq nc6320, April 02 2007; Ambient Temperature: 22.0° C; Liquid Temperature: 21.0° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [HP_393_buVhm_1_hsdpa.da4](#)

DUT: Option; Type: Globetrotter Express; Serial: 004401440325393

Program Name: Body Worn

Communication System: WCDMA (FDD) Band V; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.22, 6.22, 6.22); Calibrated: 15.02.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2007
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

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

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

Reference Value = 19.1 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 0.470 W/kg

SAR(1 g) = 0.326 mW/g; SAR(10 g) = 0.217 mW/g

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

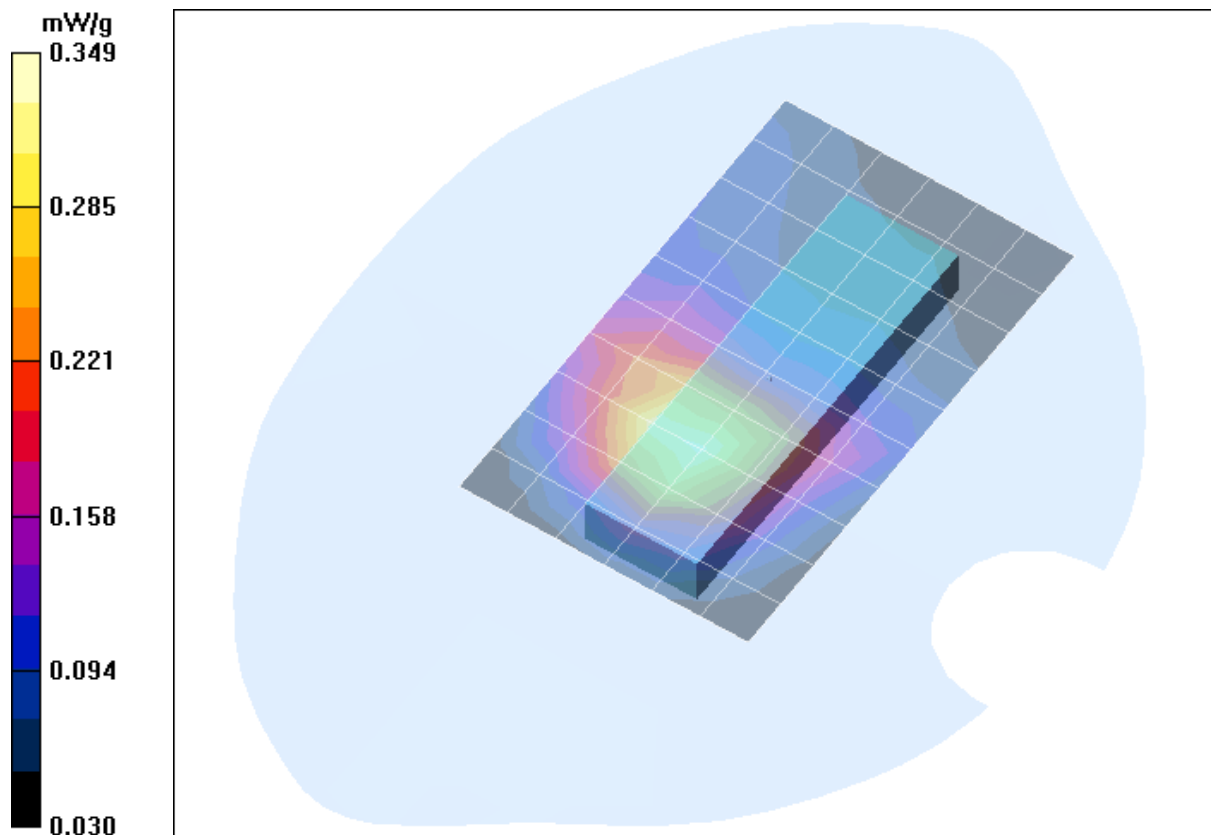


Fig. 14: SAR distribution for WCDMA V (FDD), HSDPA, channel 4183, Lap Held Position (HP Compaq nc6320, March 29, 2007; Ambient Temperature: 22.0° C; Liquid Temperature: 21.0° C).

5 SAR z-axis scans (Validation)

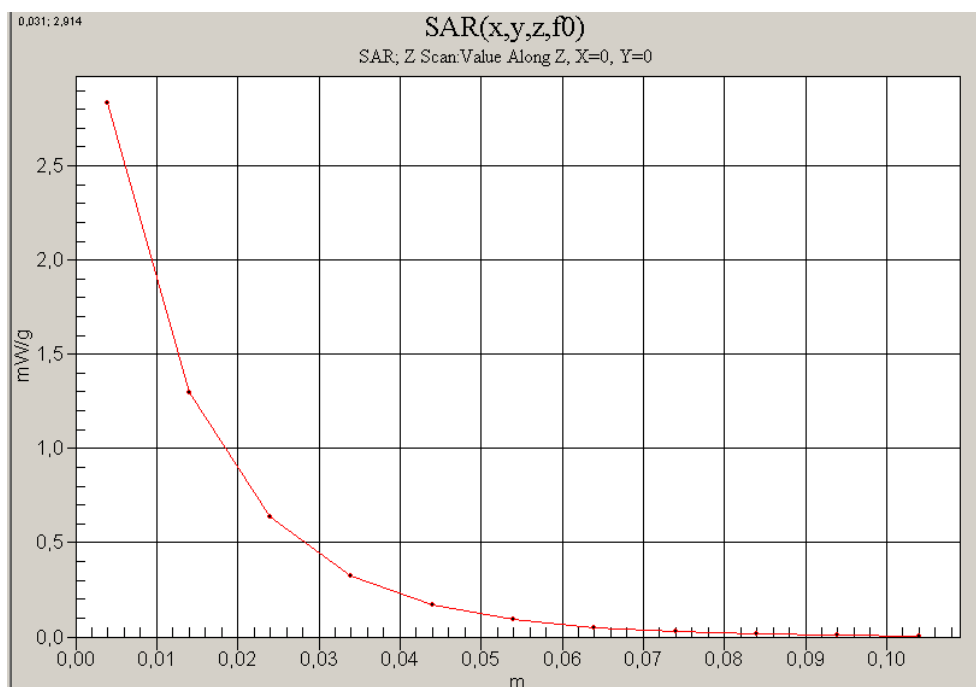


Fig. 15: SAR versus liquid depth, 835 MHz (GPRS 850), body (March 28, 2007; Ambient Temperature: 22.4° C; Liquid Temperature : 21.4° C).

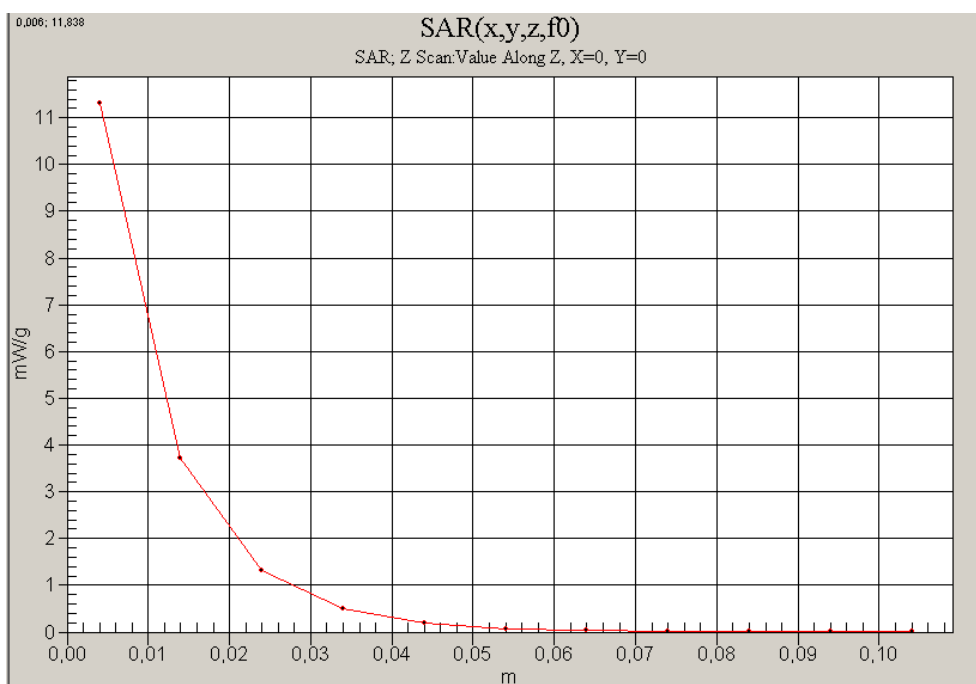


Fig. 16: SAR versus liquid depth, 1900 MHz (GPRS 1900), body (March 28, 2007; Ambient Temperature: 22.1° C; Liquid Temperature : 21.2° C).

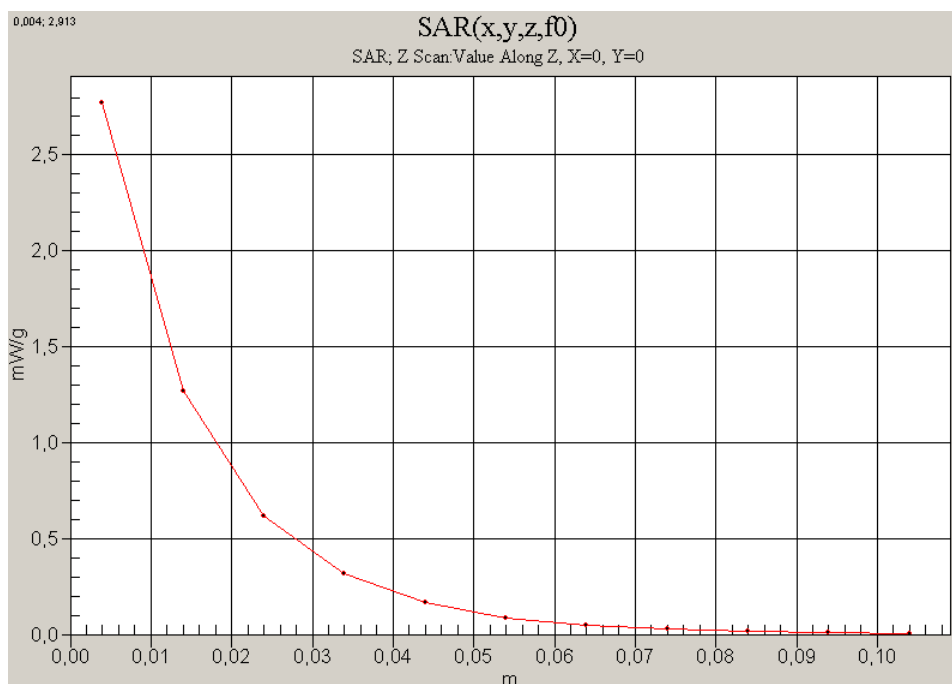


Fig. 17: SAR versus liquid depth, 835 MHz (WCDMA V), body (April 02, 2007; Ambient Temperature: 22.1° C; Liquid Temperature : 21.2° C).

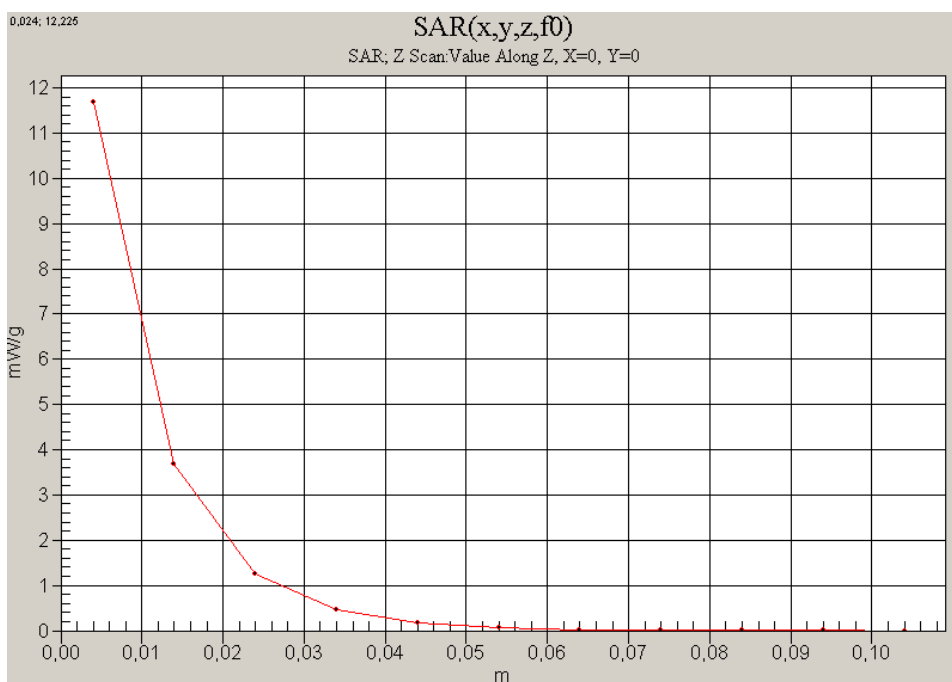


Fig. 18: SAR versus liquid depth, 1900 MHz (WCDMA II), body (April 02, 2007; Ambient Temperature: 22.1° C; Liquid Temperature : 21.0° C).

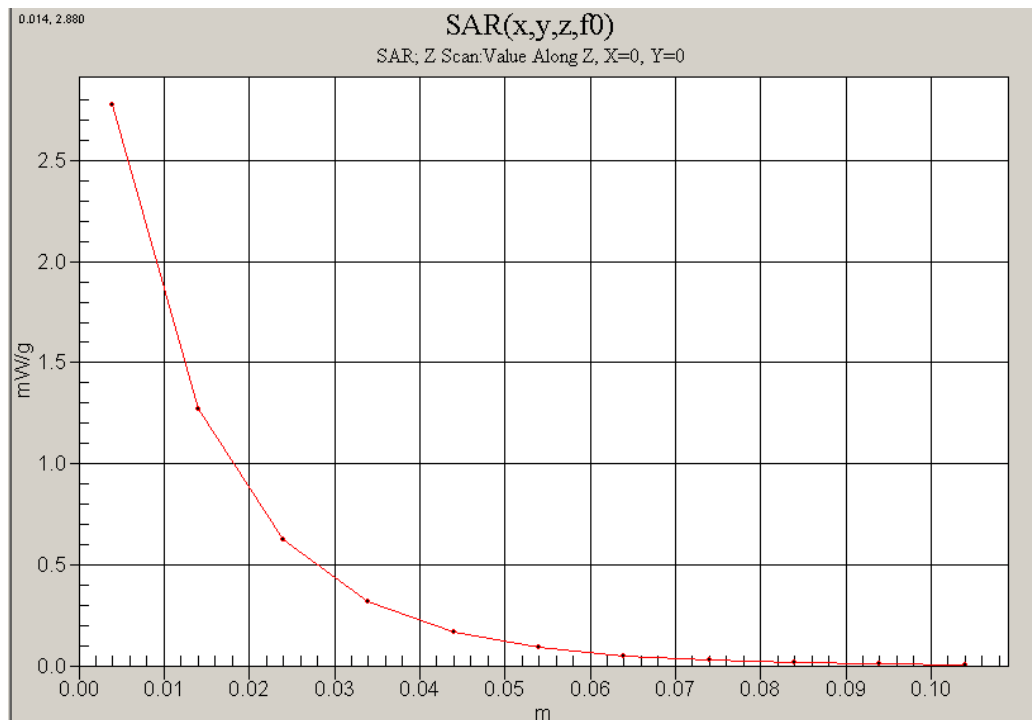


Fig. 19: SAR versus liquid depth, 835 MHz (WCDMA V), body May 03, 2007; Ambient Temperature: 21.4° C; Liquid Temperature : 20.8° C).

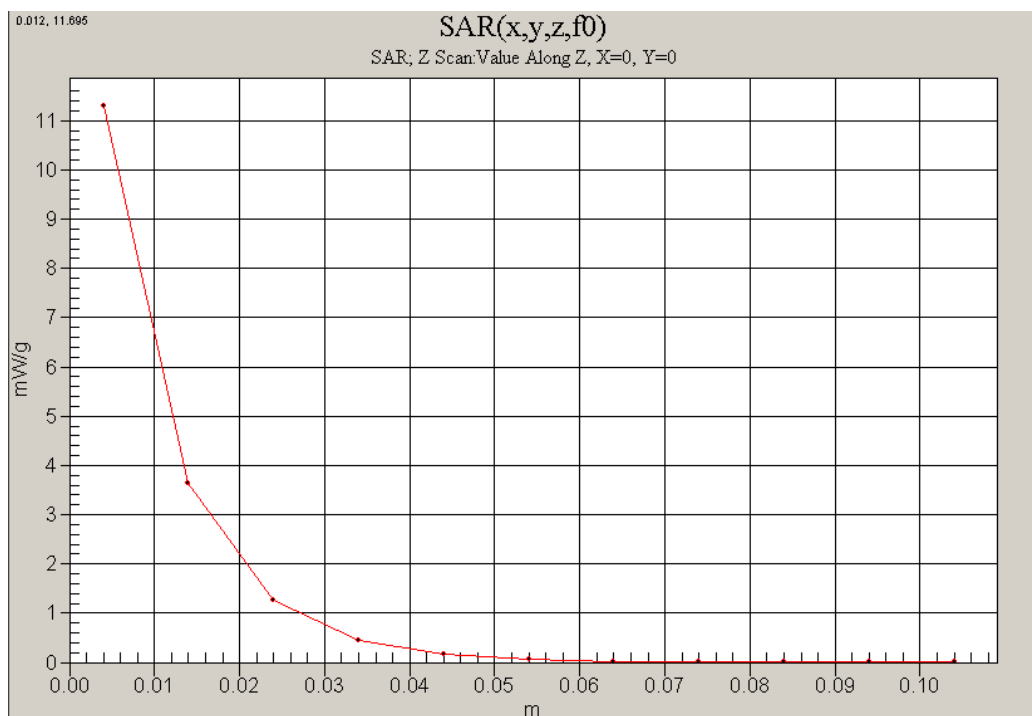


Fig. 20: SAR versus liquid depth, 1900 MHz (WCDMA II), body (May 03, 2007; Ambient Temperature: 22.0° C; Liquid Temperature : 21.2° C).

6 SAR z-axis scans (Measurements) (FCC ID: NCMOGE0301E)

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

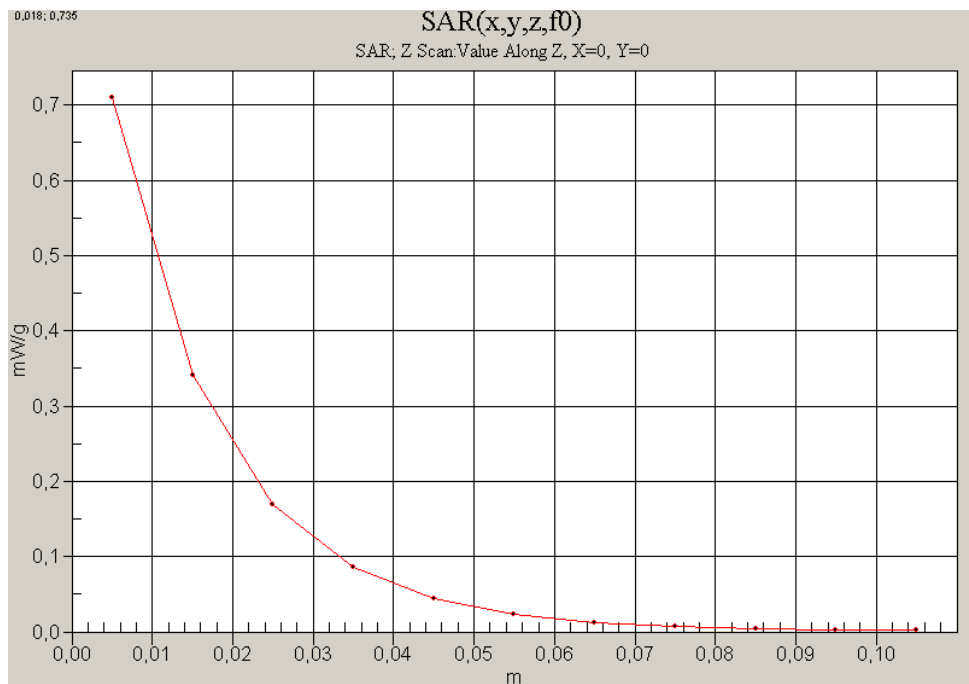


Fig. 21: SAR versus liquid depth, body: GPRS 850, channel 128 (HP Compaq nc 6320, March 28, 2007; Ambient Temperature: 22.4° C; Liquid Temperature: 21.4° C).

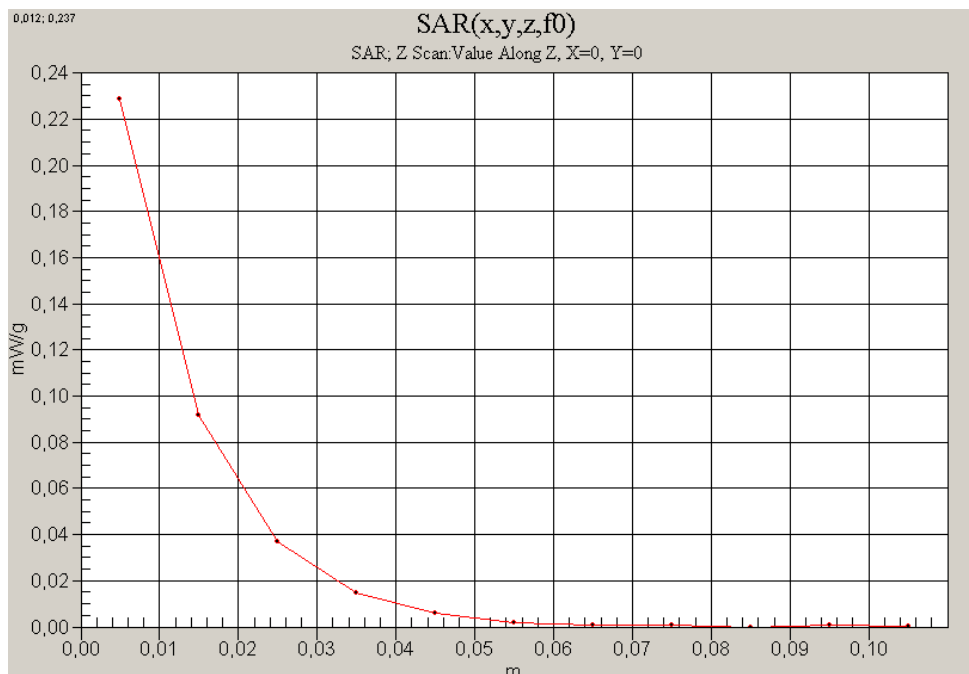


Fig. 22: SAR versus liquid depth, body: GPRS 1900, channel 661 (Acer TravelMate, March 28, 2007; Ambient Temperature: 22.1° C; Liquid Temperature: 21.3° C).

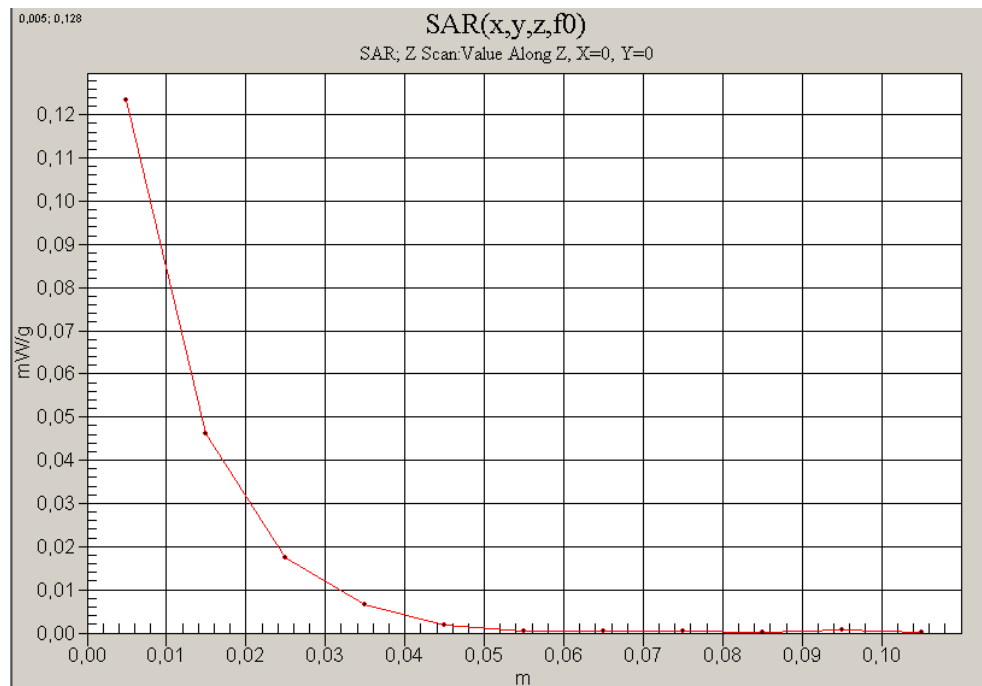


Fig. 23: SAR versus liquid depth, body: WCDMA II (FDD) in HSDPA, channel 9400 (Acer TravelMate, April 02, 2007; Ambient Temperature: 22.1° C; Liquid Temperature: 21.0° C).

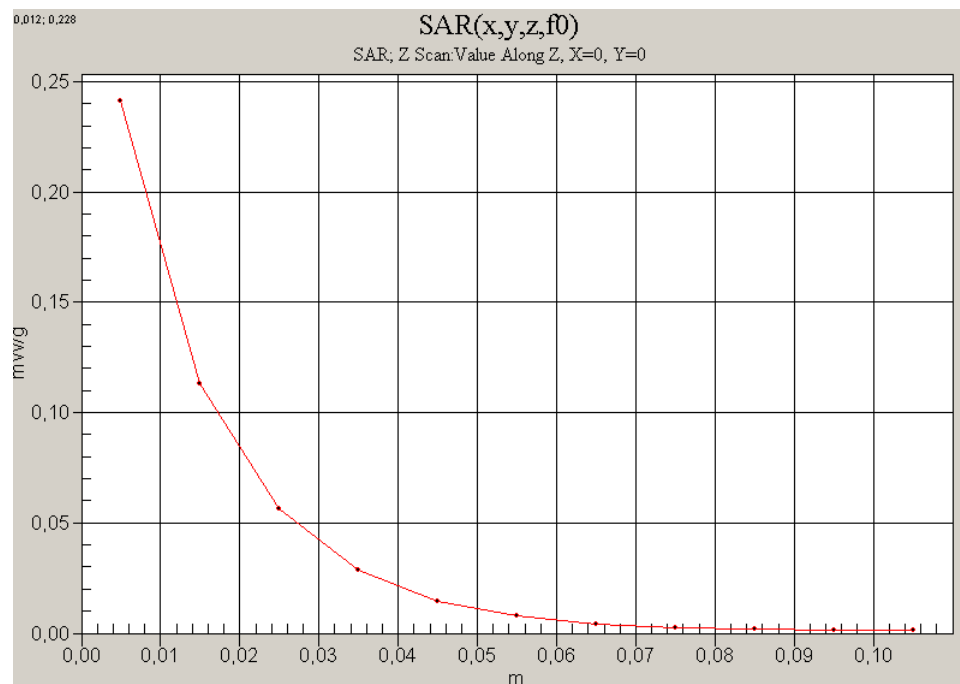


Fig. 24: SAR versus liquid depth, body: WCDMA V (FDD), channel 4183 (HP Compaq nc 6230, April 02, 2007; Ambient Temperature: 22.0° C; Liquid Temperature: 21.0° C).