
Appendix for the Report

Dosimetric Assessment of the Avaya Tenovis BlueVoice L Home (FCC ID: TYM-BLUEVOICEL)

According to the FCC Requirements

SAR Distribution Plots

July 10, 2006
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The test results only relate to the items tested.
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1 SAR Distribution Plots, Body Measurements

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [Tenb2hl_1.da4](#)

DUT: Tenovis ; Type: Blue Voice L; Serial: 00 07 3b 00 0 C0 EWM01 04 NR16

Program Name: Body Worn

Communication System: Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1.2

Medium parameters used (interpolated): $f = 2402$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.58, 7.58, 7.58); Calibrated: 23.09.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.03.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.46 mW/g

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

Reference Value = 7.96 V/m; Power Drift = 0.192 dB

Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 1.46 mW/g; SAR(10 g) = 0.601 mW/g

Maximum value of SAR (measured) = 1.68 mW/g

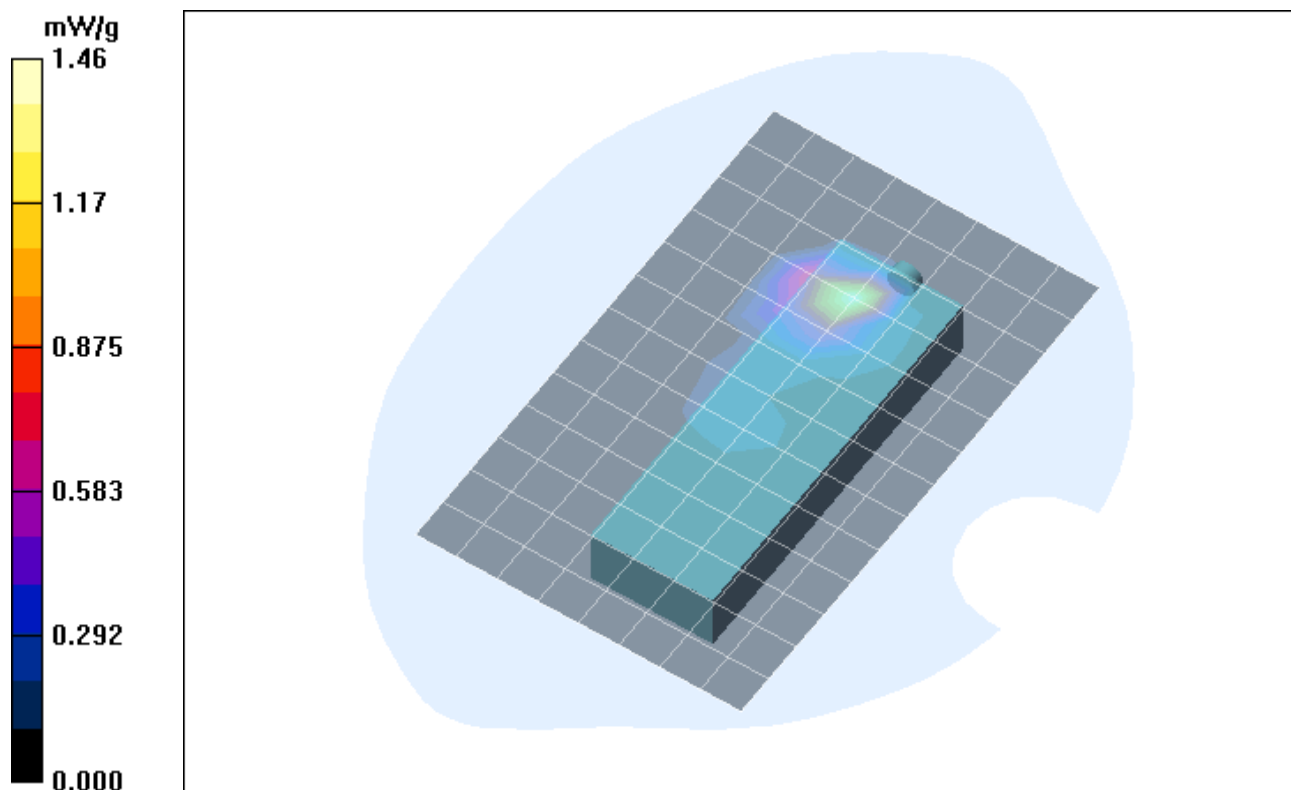


Fig. 1: SAR distribution for Bluetooth, channel 0, body worn configuration, display towards the ground, without accessory and 0 mm distance (July 06, 2006; Ambient Temperature: 22.1° C; Liquid Temperature: 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [Tenb2hl 2 HS.da4](#)

DUT: Tenovis ; **Type:** Blue Voice L; **Serial:** 00 07 3b 00 0 C0 EWM01 04 NR16

Program Name: Body Worn

Communication System: Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1.2

Medium parameters used (interpolated): $f = 2402$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.58, 7.58, 7.58); Calibrated: 23.09.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.03.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.43 mW/g

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

Reference Value = 6.99 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 3.57 W/kg

SAR(1 g) = 1.49 mW/g; SAR(10 g) = 0.611 mW/g

Maximum value of SAR (measured) = 1.77 mW/g

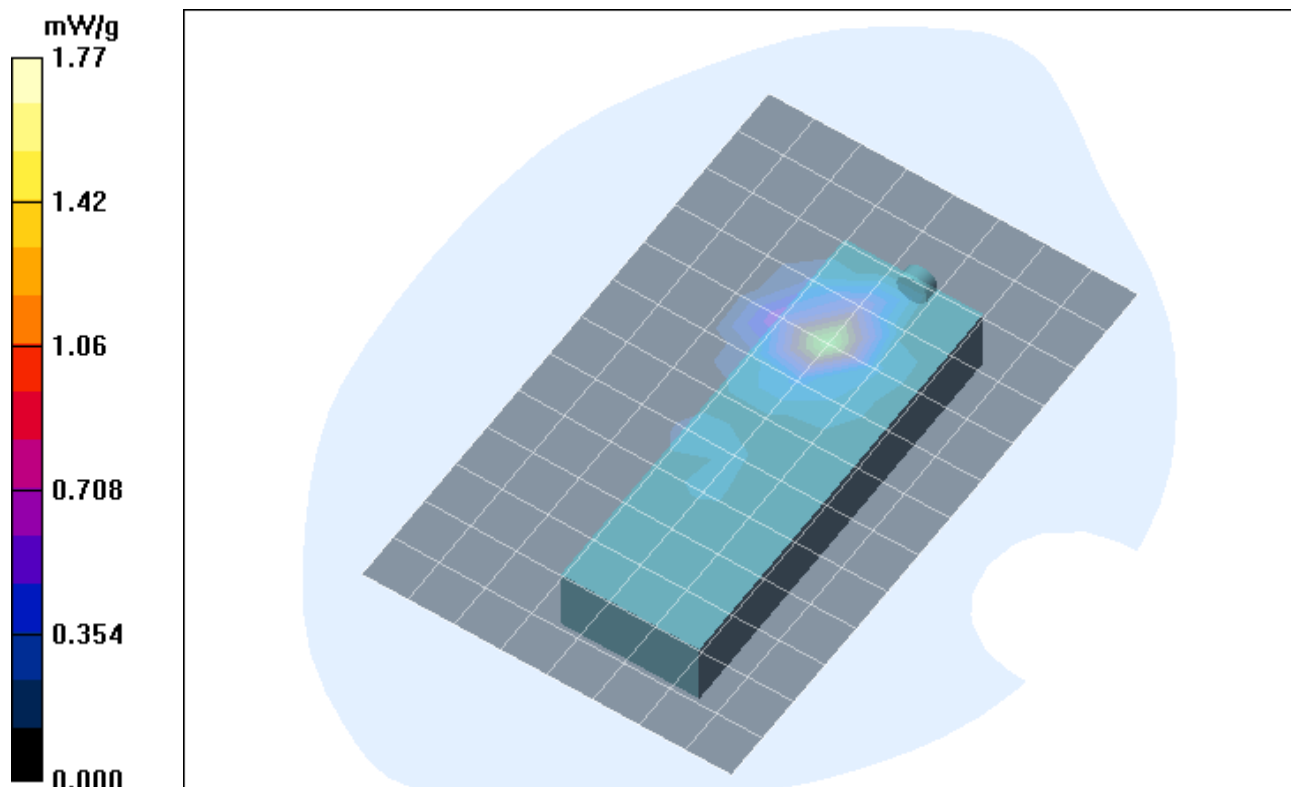


Fig. 2: SAR distribution for Bluetooth, channel 0, body worn configuration, display towards the ground, with headset and 0 mm distance (July 06, 2006; Ambient Temperature: 22.1° C; Liquid Temperature: 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [Tenb2hl_3_HS_Clip.da4](#)

DUT: Tenovis ; **Type:** Blue Voice L; **Serial:** 00 07 3b 00 0 C0 EWM01 04 NR16

Program Name: Body Worn

Communication System: Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1.2

Medium parameters used (interpolated): $f = 2402$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.58, 7.58, 7.58); Calibrated: 23.09.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.03.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.05 mW/g

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

Reference Value = 8.30 V/m; Power Drift = 0.003 dB

Peak SAR (extrapolated) = 2.23 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.463 mW/g

Maximum value of SAR (measured) = 1.21 mW/g

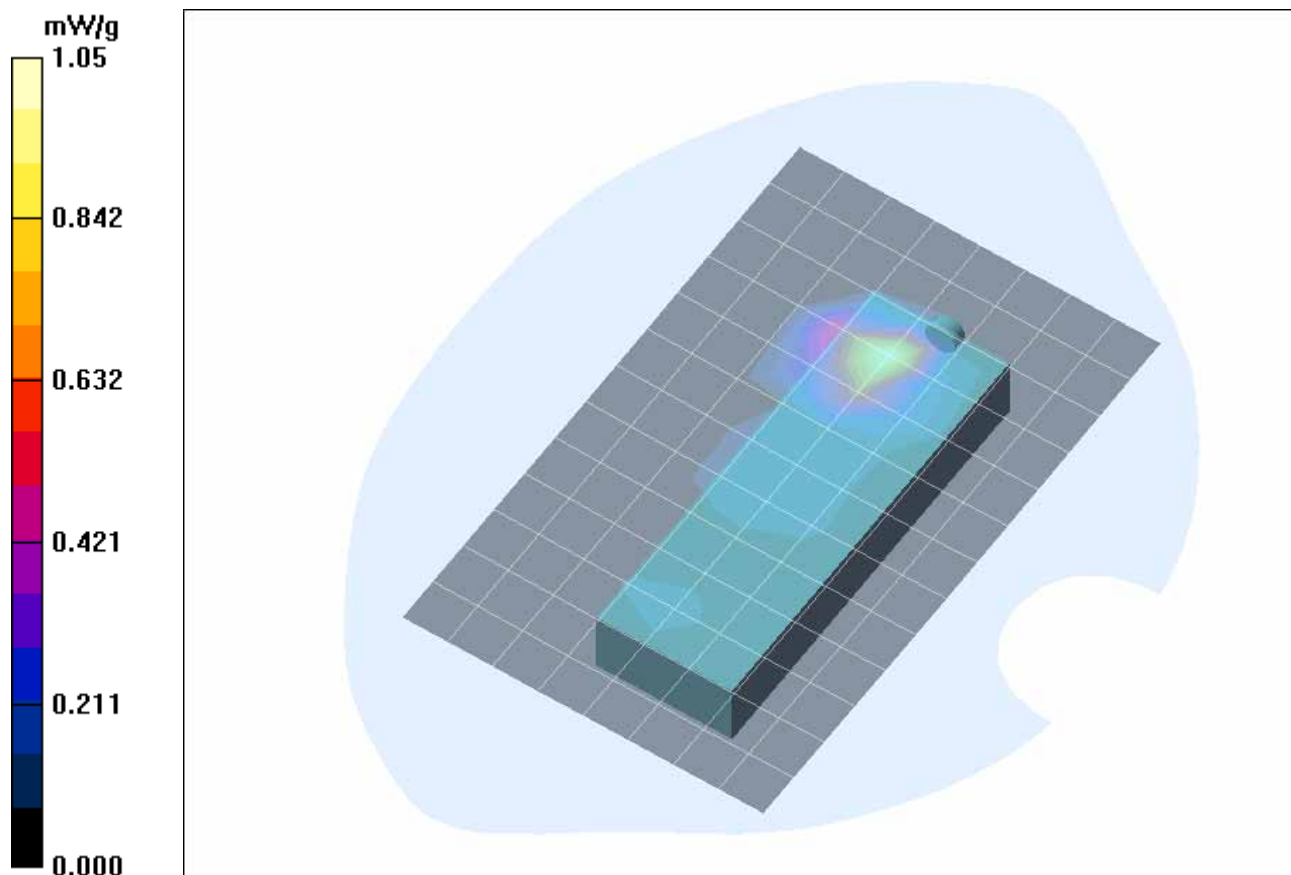


Fig. 3: SAR distribution for Bluetooth, channel 0, body worn configuration, display towards the ground, with headset and clip, with 3 mm distance (July 06, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [Tenb2hm 4 HS Tasche.da4](#)

DUT: Tenovis ; **Type:** Blue Voice L; **Serial:** 00 07 3b 00 0 C0 EWM01 04 NR16

Program Name: Body Worn

Communication System: Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.2

Medium parameters used (interpolated): $f = 2480$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.58, 7.58, 7.58); Calibrated: 23.09.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.03.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 3.09 V/m; Power Drift = -0.114 dB

Peak SAR (extrapolated) = 0.059 W/kg

SAR(1 g) = 0.026 mW/g; SAR(10 g) = 0.010 mW/g

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

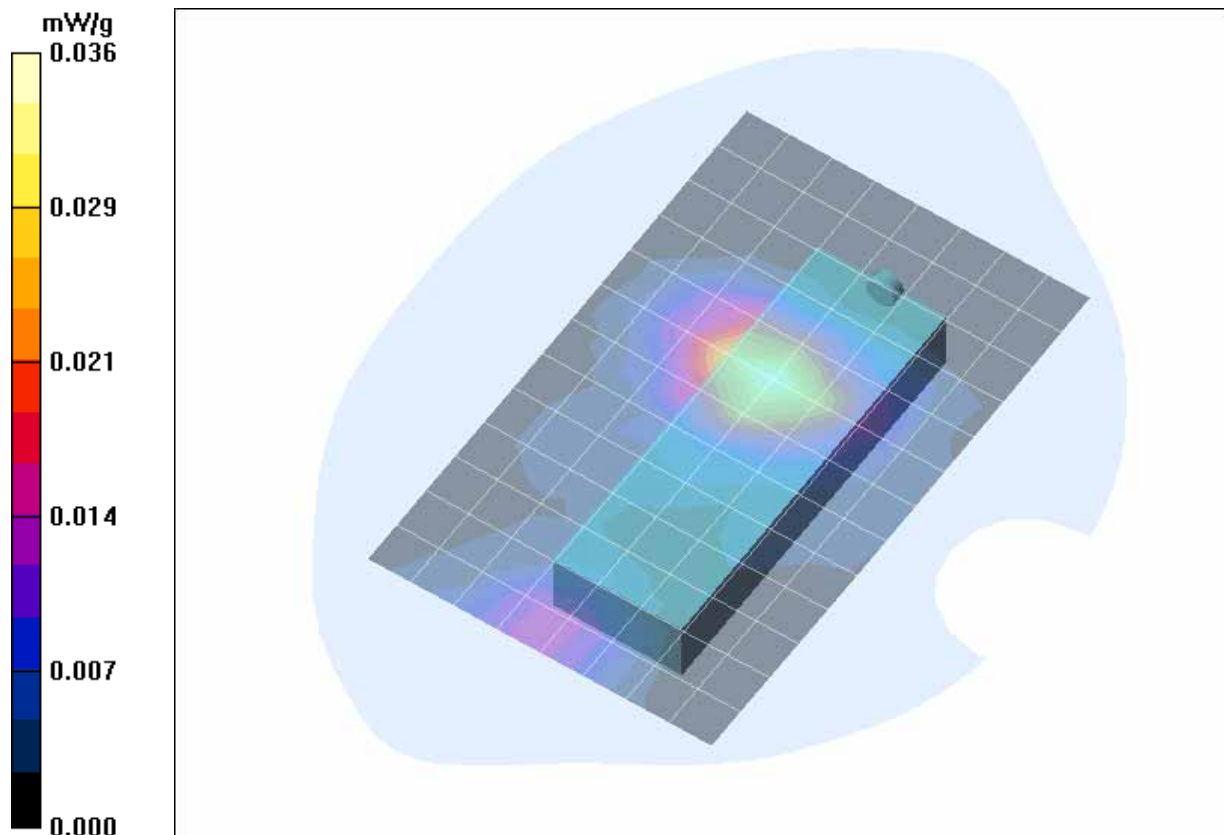


Fig. 4: SAR distribution for Bluetooth, channel 39, body worn configuration, display towards the ground, with headset and leather case and rotation clip, with 30 mm distance (July 06, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.4° C).

2 SAR z-axis scans (Validation)

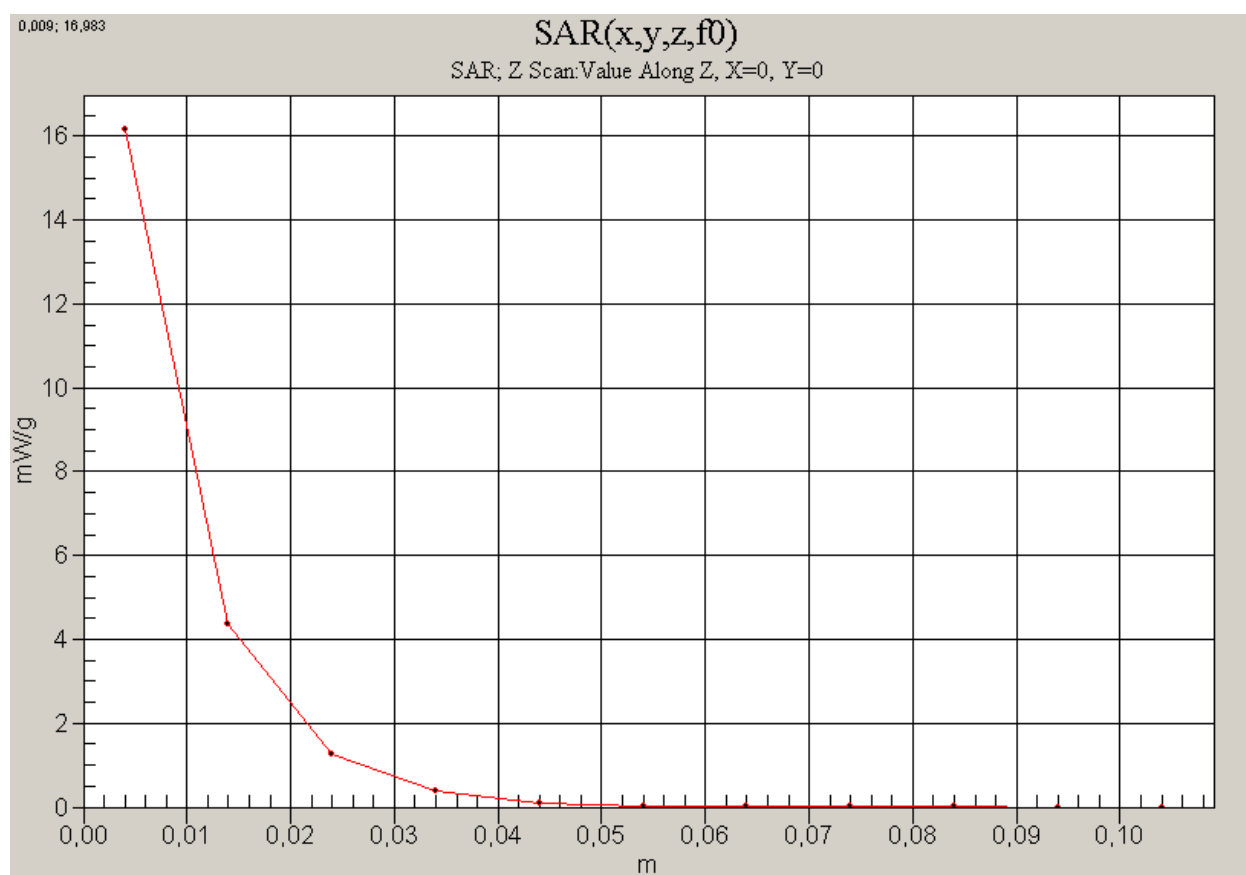


Fig. 5: SAR versus liquid depth, 2450 MHz, body (July 06, 2006; Ambient Temperature: 22.5° C; Liquid Temperature : 21.4° C).

3 SAR z-axis scans (Measurements)

The following picture shows the plot of SAR versus liquid depth for the worst case values.

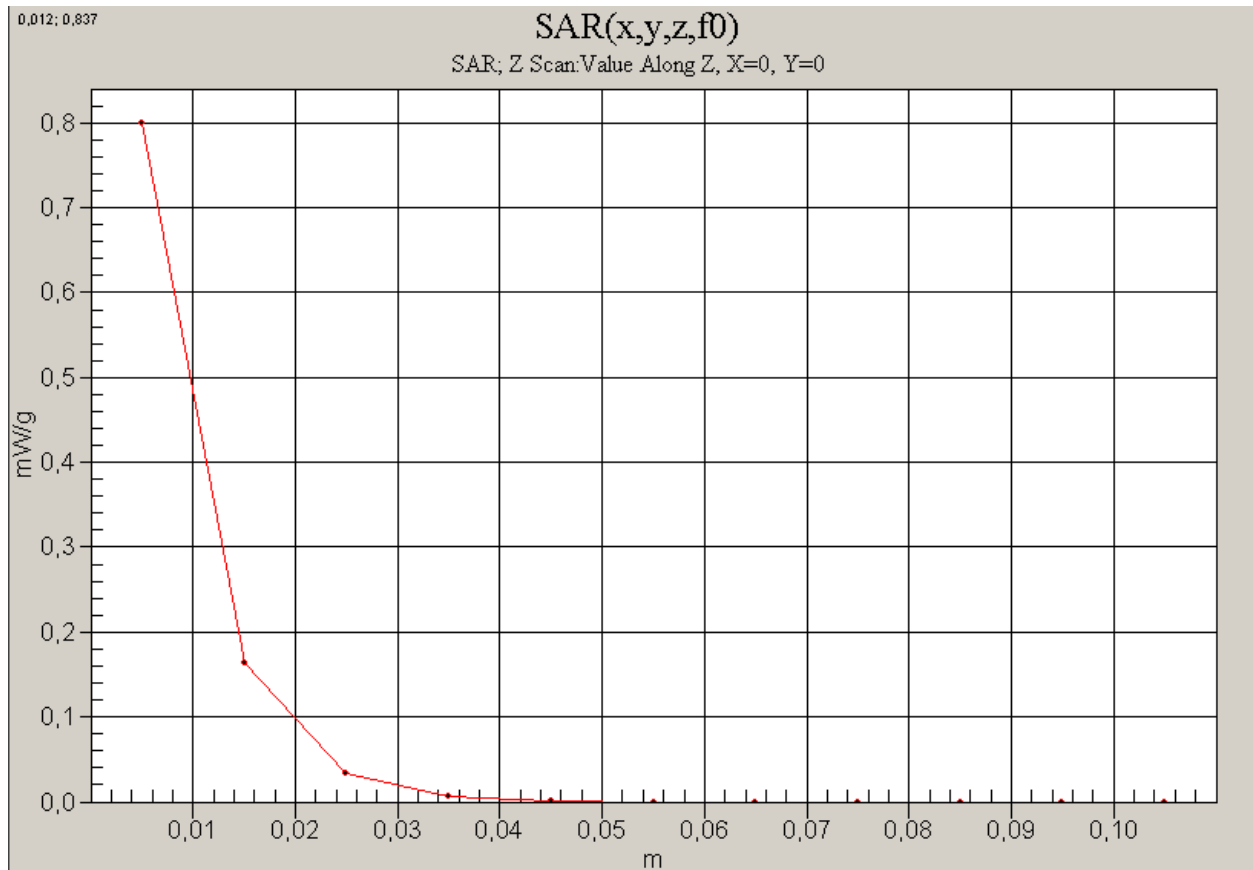


Fig. 6: SAR versus liquid depth, body: Bluetooth 2450, channel 0, headset and 0 mm distance (July 06, 2006; Ambient Temperature: 22.° C; Liquid Temperature: 21.5° C).