
Appendix for the Report

Dosimetric Assessment of the Portable Device Panasonic KX-TD 7685 (FCC ID: ACJ96NKX-TD7685)

According to the FCC Requirements

SAR Distribution Plots

November 15, 2007
IMST GmbH
Carl-Friedrich-Gauß-Str. 2
D-47475 Kamp-Lintfort

Customer
Panasonic Communications Co., Ltd.
1 - 62, 4 - chome, Minoshima, Hakata - Ku
Fukuoka 812-8531 Japan

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, HEAD MEASUREMENTS.....	3
2	SAR DISTRIBUTION PLOTS, BODY MEASUREMENTS	7
3	SAR Z-AXIS SCANS (VALIDATION)	8

1 SAR Distribution Plots, Head Measurements

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [7685_yplm_1.da4](#)

DUT: Panasonic; Type: KX-TD 7685; Serial: New Sample

Program Name: Cheek Left

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.85, 7.85, 7.85); Calibrated: 18.09.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2007
- 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

Cheek Left/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

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

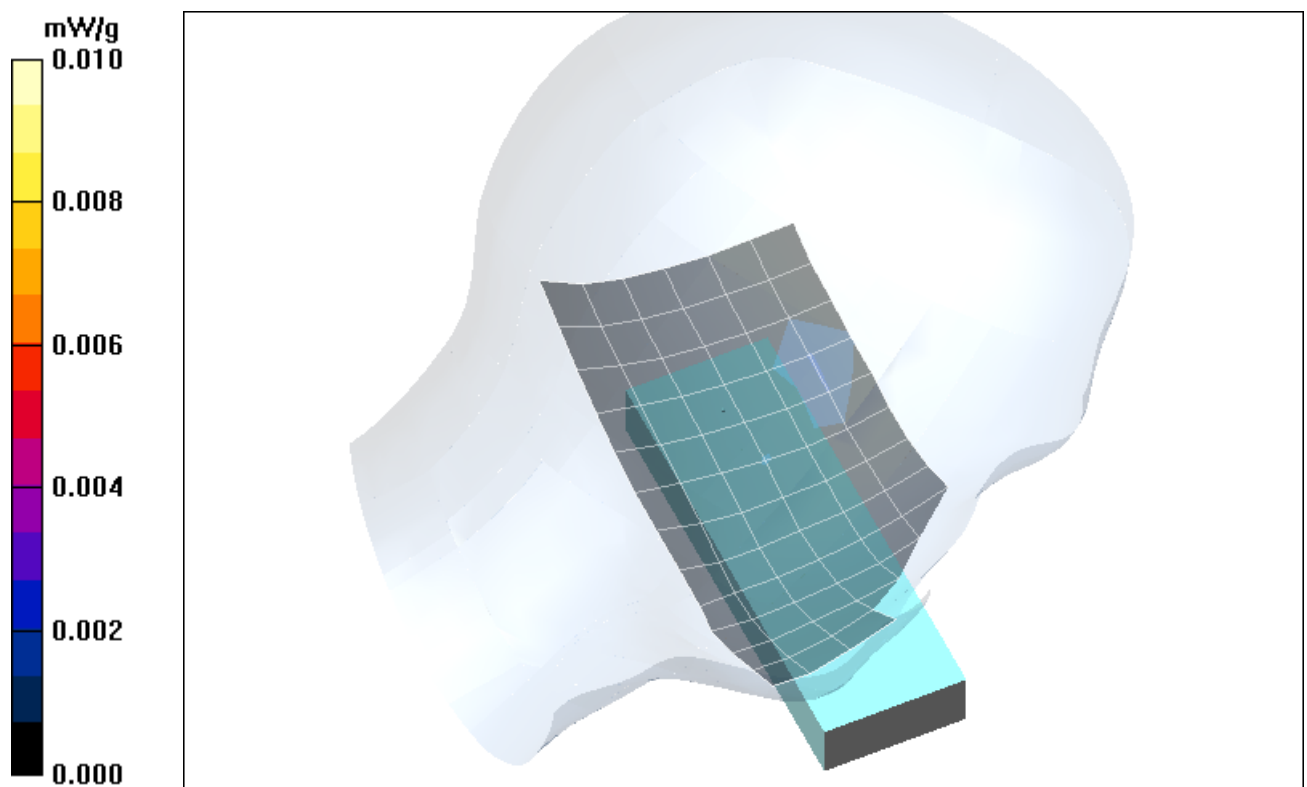


Fig. 1: SAR distribution for DECT US, channel 2, cheek position, left side of head (November 13, 2007; Ambient Temperature: 21.6°C; Liquid Temperature: 20.8°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [7685_vplm_2.da4](#)

DUT: Panasonic; Type: KX-TD 7685; Serial: New Sample

Program Name: Tilted Left

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.85, 7.85, 7.85); Calibrated: 18.09.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2007
- 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

Tilted Left/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

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

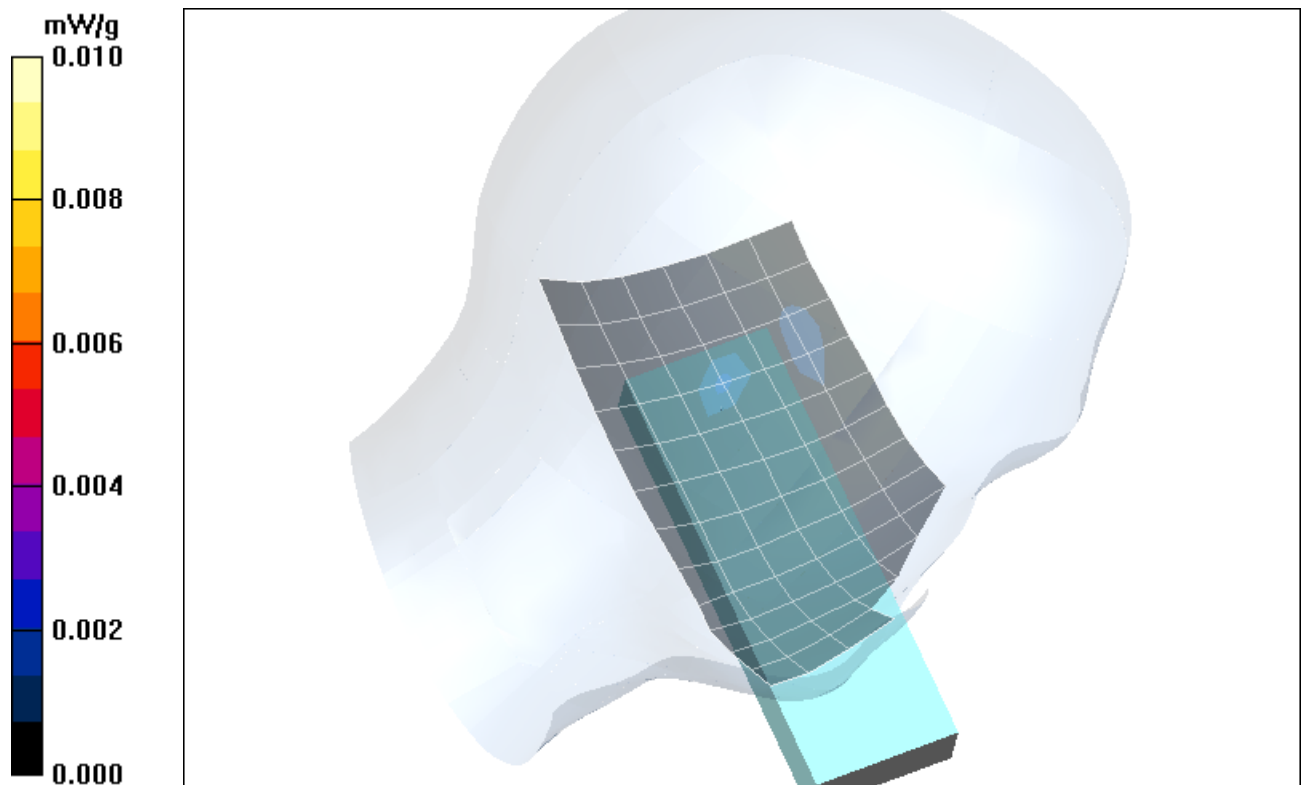


Fig. 2: SAR distribution for DECT US, channel 2, tilted position, left side of head (November 13, 2007; Ambient Temperature: 21.6°C; Liquid Temperature: 20.8°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [7685_vprm_1.da4](#)

DUT: Panasonic; Type: KX-TD 7685; Serial: New Sample

Program Name: Cheek Right

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.85, 7.85, 7.85); Calibrated: 18.09.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2007
- 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

Cheek Right/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.003 mW/g

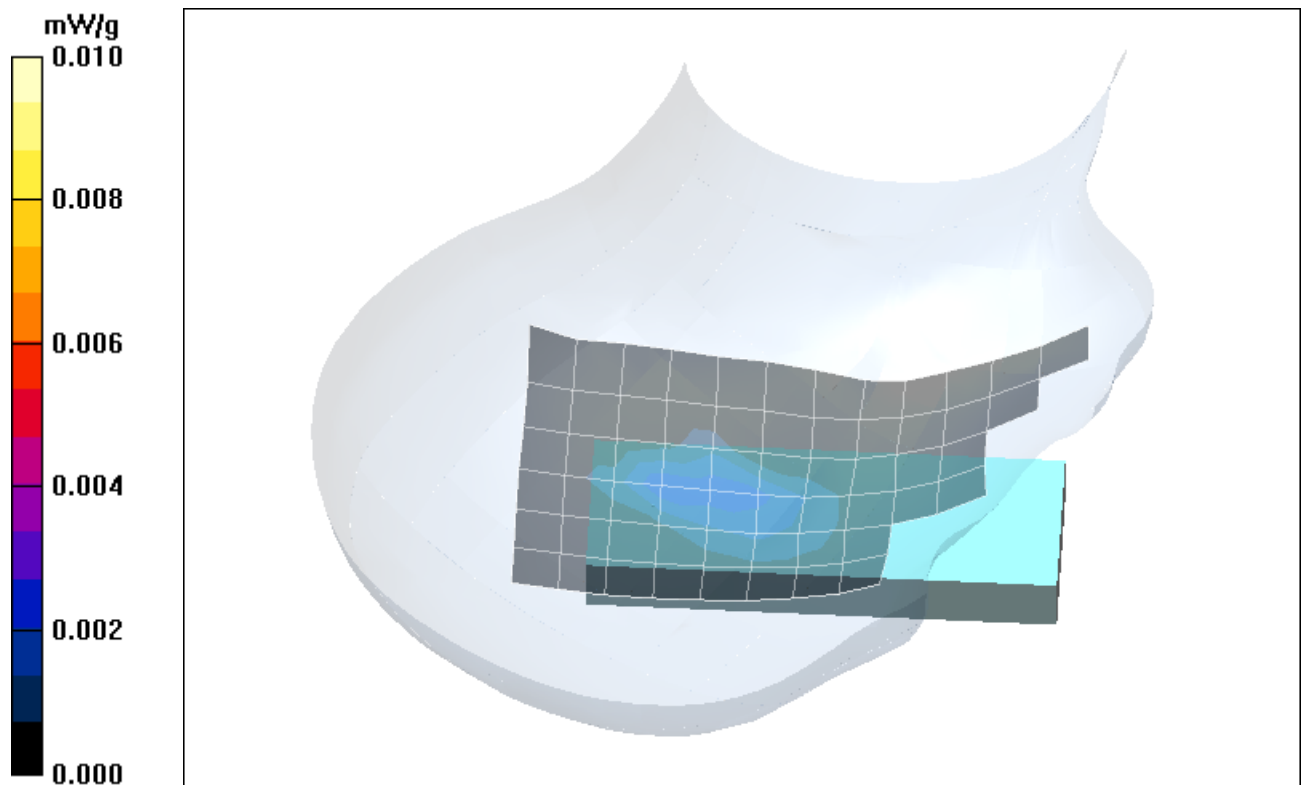


Fig. 3: SAR distribution for DECT US, channel 2, cheek position, right side of head (November 13, 2007; Ambient Temperature: 21.6°C; Liquid Temperature: 20.8°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [7685_vprm_2.da4](#)

DUT: Panasonic; Type: KX-TD 7685; Serial: New Sample

Program Name: Tilted Right

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.85, 7.85, 7.85); Calibrated: 18.09.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2007
- 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

Tilted Right/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

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

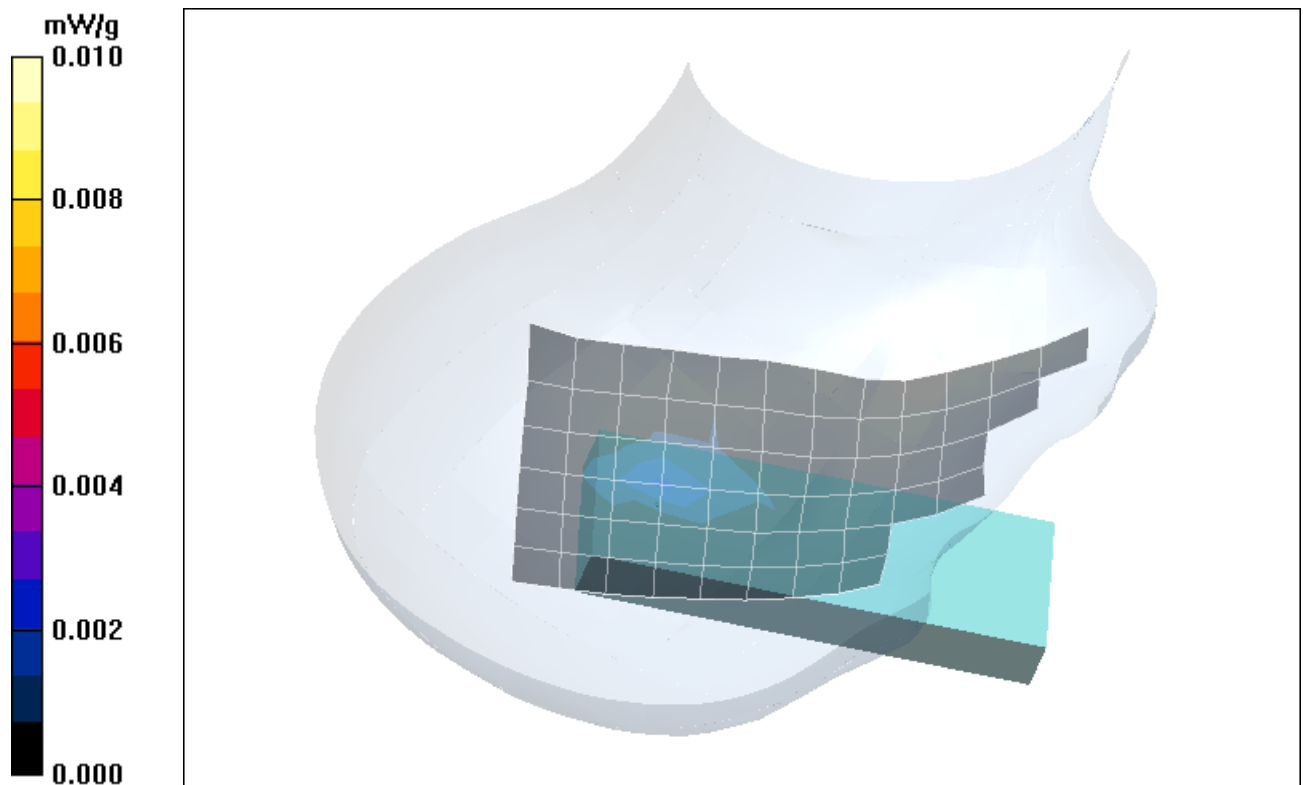


Fig. 4: SAR distribution for DECT US, channel 2, tilted position, right side of head (November 13, 2007; Ambient Temperature: 21.6°C; Liquid Temperature: 20.8°C)

2 SAR Distribution Plots, Body Measurements

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [KX-TD7685_bphm_1.da4](#)

DUT: Panasonic; Type: KX-TD 7685; Serial: New Sample

Program Name: Body

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.67, 7.67, 7.67); Calibrated: 18.09.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2007
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

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

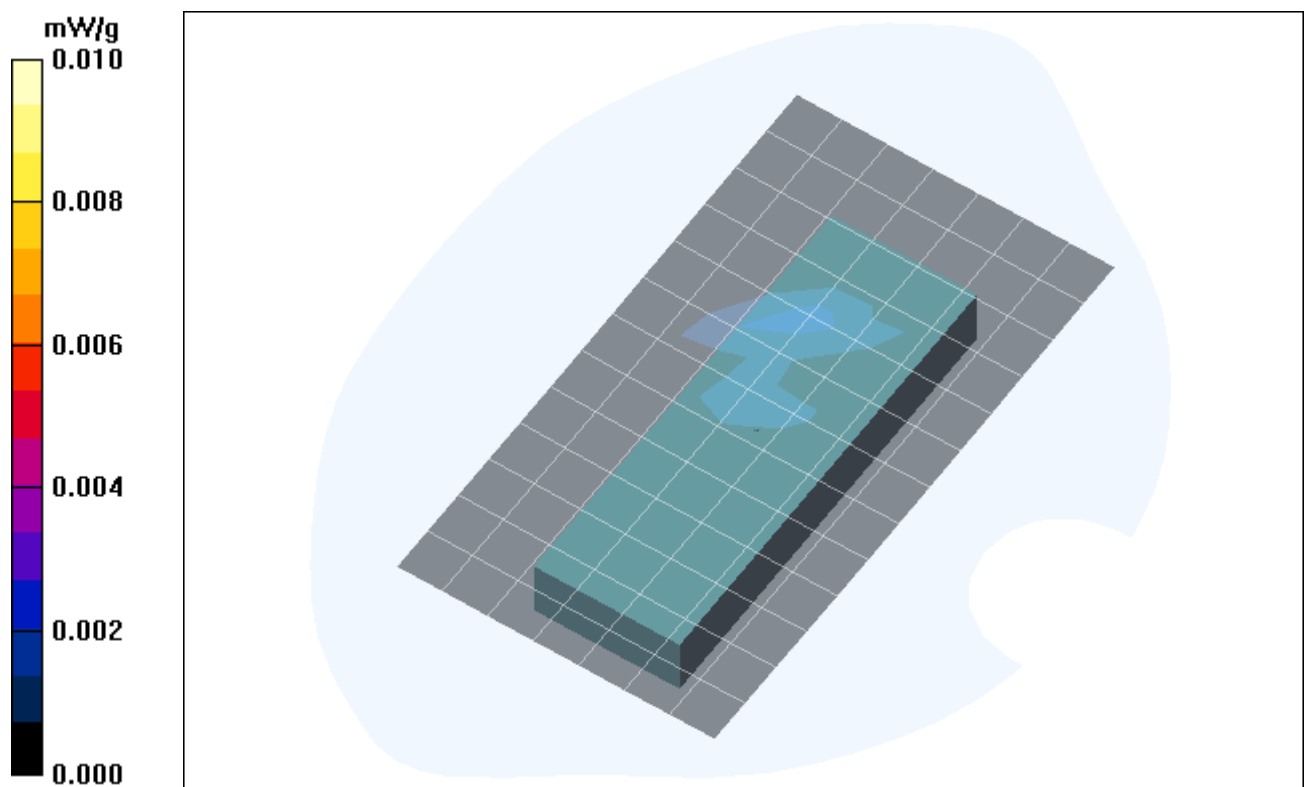


Fig. 5: SAR distribution for DECT US, channel 2, body worn configuration, antenna towards the phantom, with belt clip and headset, 0 mm distance (November 12, 2007; Ambient Temperature: 21.3° C; Liquid Temperature: 20.8° C).

3 SAR z-axis scans (Validation)

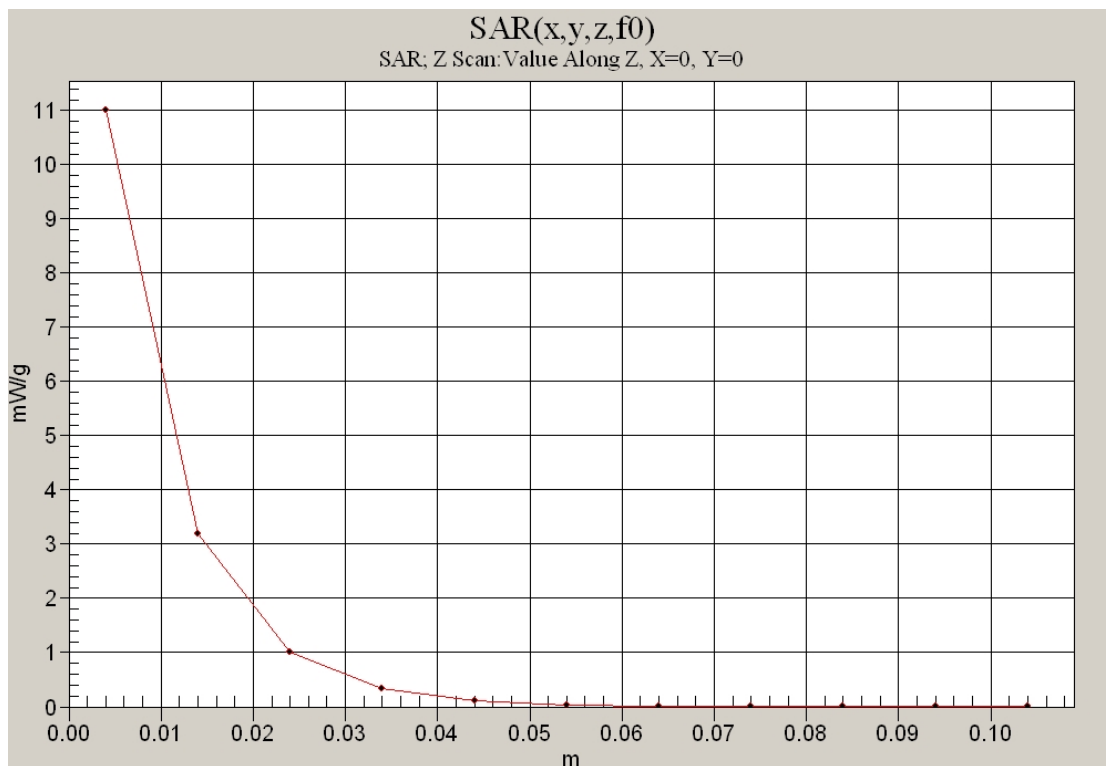


Fig. 6: SAR versus liquid depth, 1900 MHz, head (November 13, 2007; Ambient Temperature: 21.4° C; Liquid Temperature : 20.7° C).

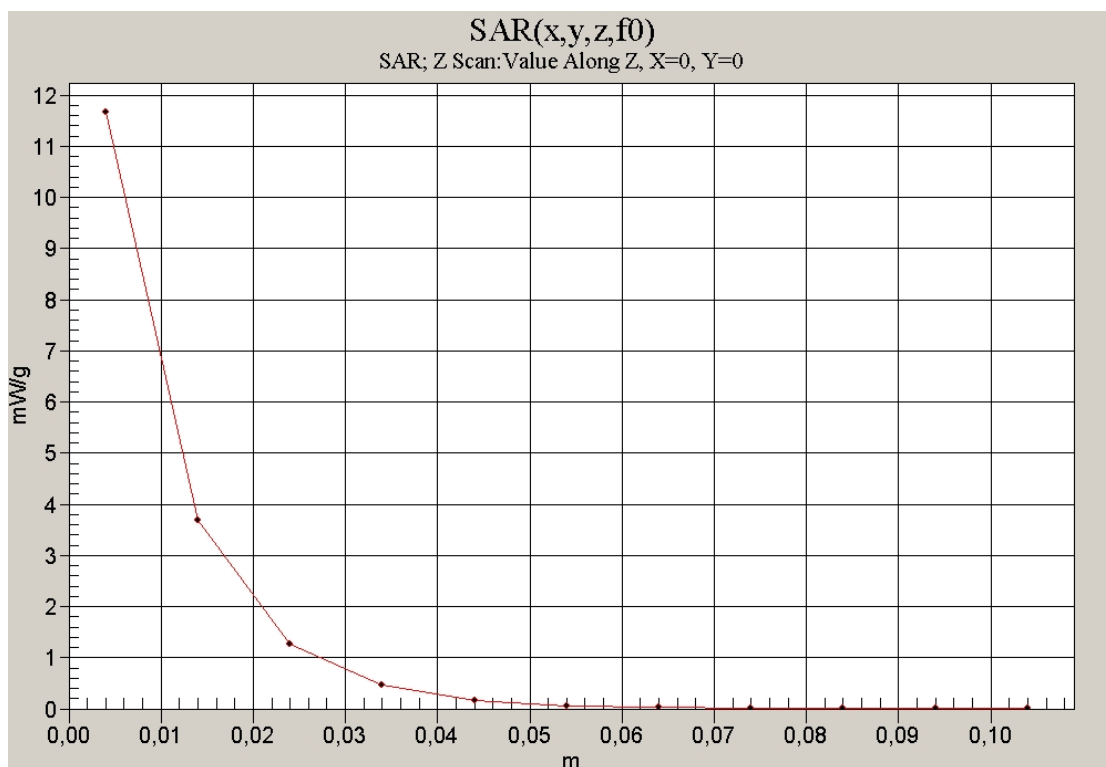


Fig. 7: SAR versus liquid depth, 1900 MHz, body (November 12, 2007; Ambient Temperature: 21.3° C; Liquid Temperature : 20.8° C).