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Appendix for the Report

Dosimetric Assessment of the Portable Device KX-TGA402 (FCC ID: ACJ96NKX-TGA402A)

According to the FCC Requirements SAR Distribution Plots

March 20, 2012

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Customer
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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.

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1 SAR Distribution Plots, Head Measurement

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGA402A_yplm_1.da4](#)

DUT: Panasonic; Type: KX-TGA402A;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5.13, 5.13, 5.13); Calibrated: 25.01.2012

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

- Electronics: DAE3 Sn335; Calibrated: 20.02.2012

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

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Cheek Left/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.032 mW/g

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

Reference Value = 3.63 V/m; Power Drift = 0.067 dB

Peak SAR (extrapolated) = 0.072 W/kg

SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.020 mW/g

Maximum value of SAR (measured) = 0.041 mW/g

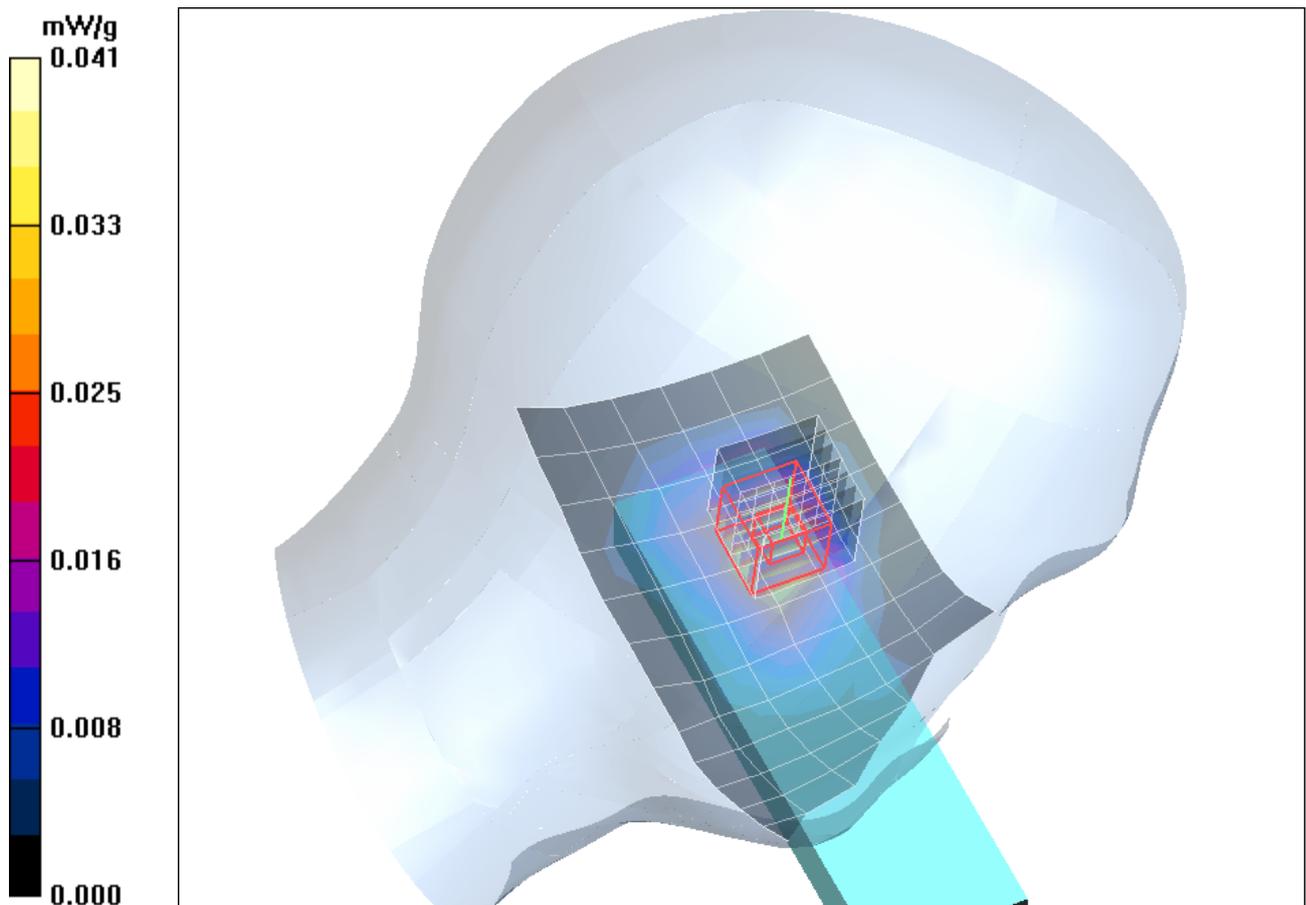


Fig. 1: SAR distribution for DECT US, channel 2, cheek position, left side of head (March 20, 2012; Ambient Temperature: 22.3°C; Liquid Temperature: 22.1°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [TGA402A_yplm_2.da4](#)

DUT: Panasonic; **Type:** KX-TGA402A;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5.13, 5.13, 5.13); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Tilted Left/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 3.83 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 0.035 W/kg

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

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

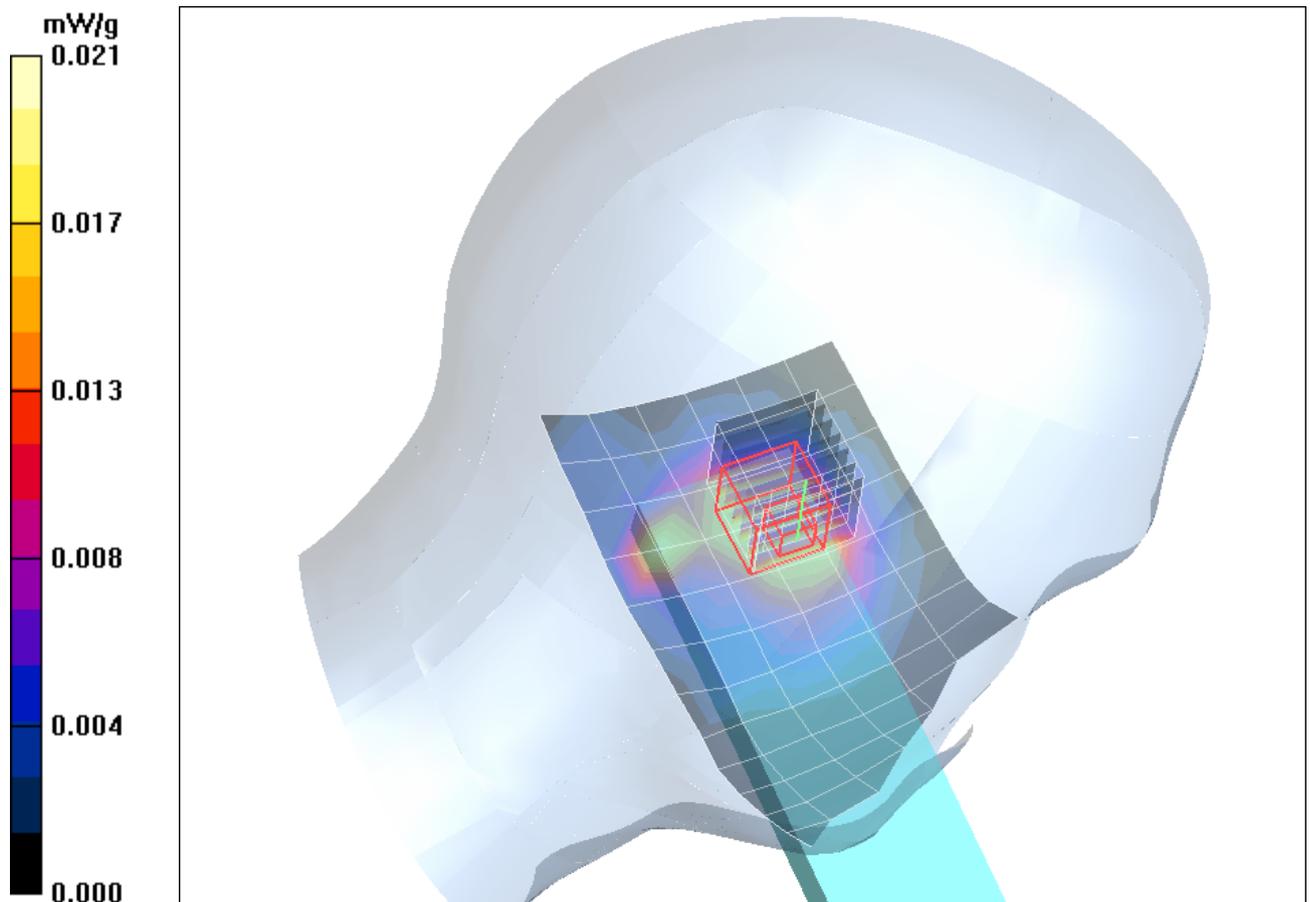


Fig. 2: SAR distribution for DECT US, channel 2, tilted position, left side of head (March 20, 2012; Ambient Temperature: 22.3°C; Liquid Temperature: 22.1°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGA402A_yprm_1.da4](#)

DUT: Panasonic; Type: KX-TGA402A;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5.13, 5.13, 5.13); Calibrated: 25.01.2012

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

- Electronics: DAE3 Sn335; Calibrated: 20.02.2012

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

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Cheek Right/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.029 mW/g

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

Reference Value = 4.07 V/m; Power Drift = 0.057 dB

Peak SAR (extrapolated) = 0.048 W/kg

SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.017 mW/g

Maximum value of SAR (measured) = 0.032 mW/g

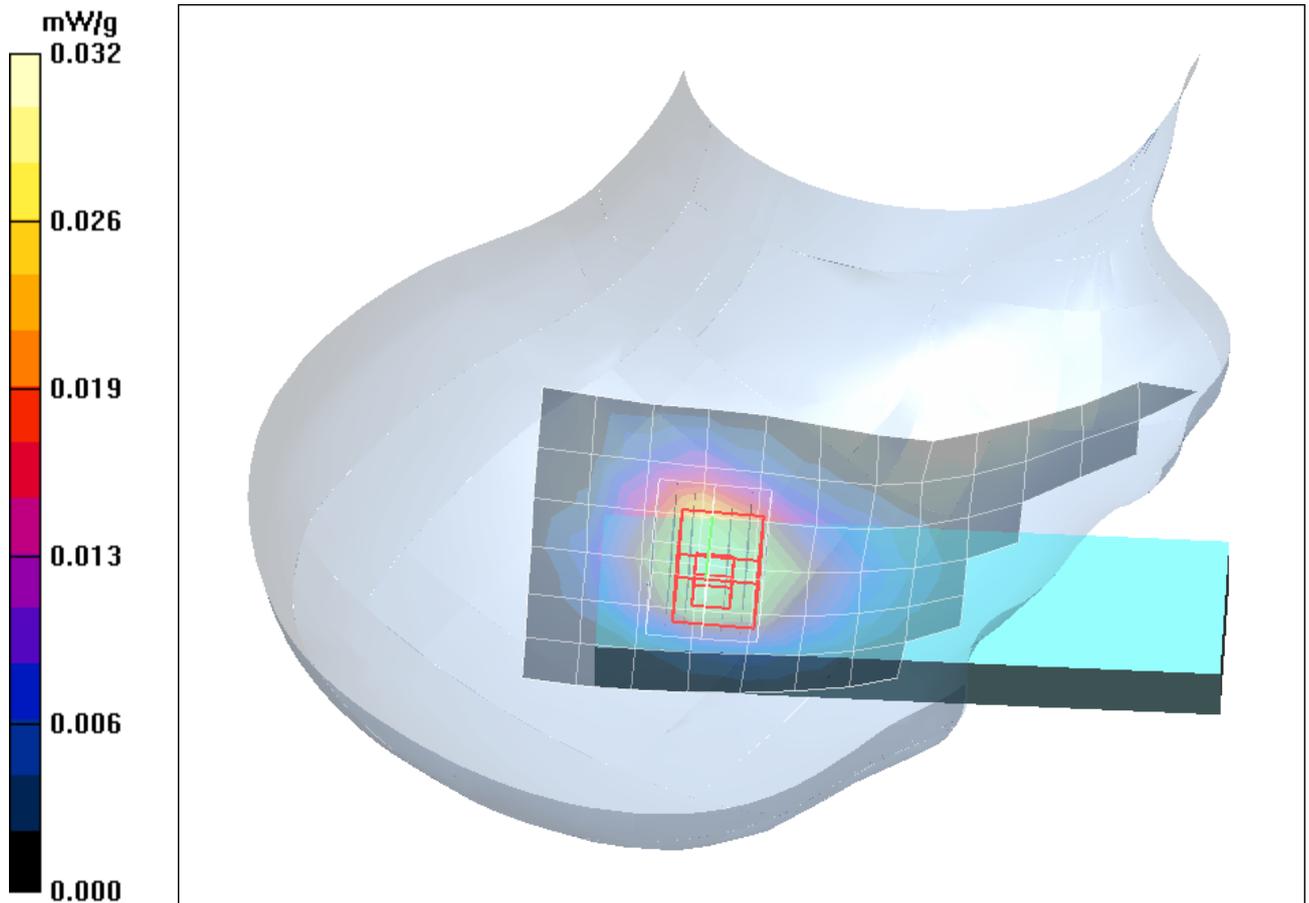


Fig. 3: SAR distribution for DECT US, channel 2, cheek position, right side of head (March 20, 2012; Ambient Temperature: 22.3°C; Liquid Temperature: 22.1°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGA402A_yprm_2.da4](#)

DUT: Panasonic; Type: KX-TGA402A;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5.13, 5.13, 5.13); Calibrated: 25.01.2012

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

- Electronics: DAE3 Sn335; Calibrated: 20.02.2012

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

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Tilted Right/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 3.91 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 0.032 W/kg

SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.011 mW/g

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

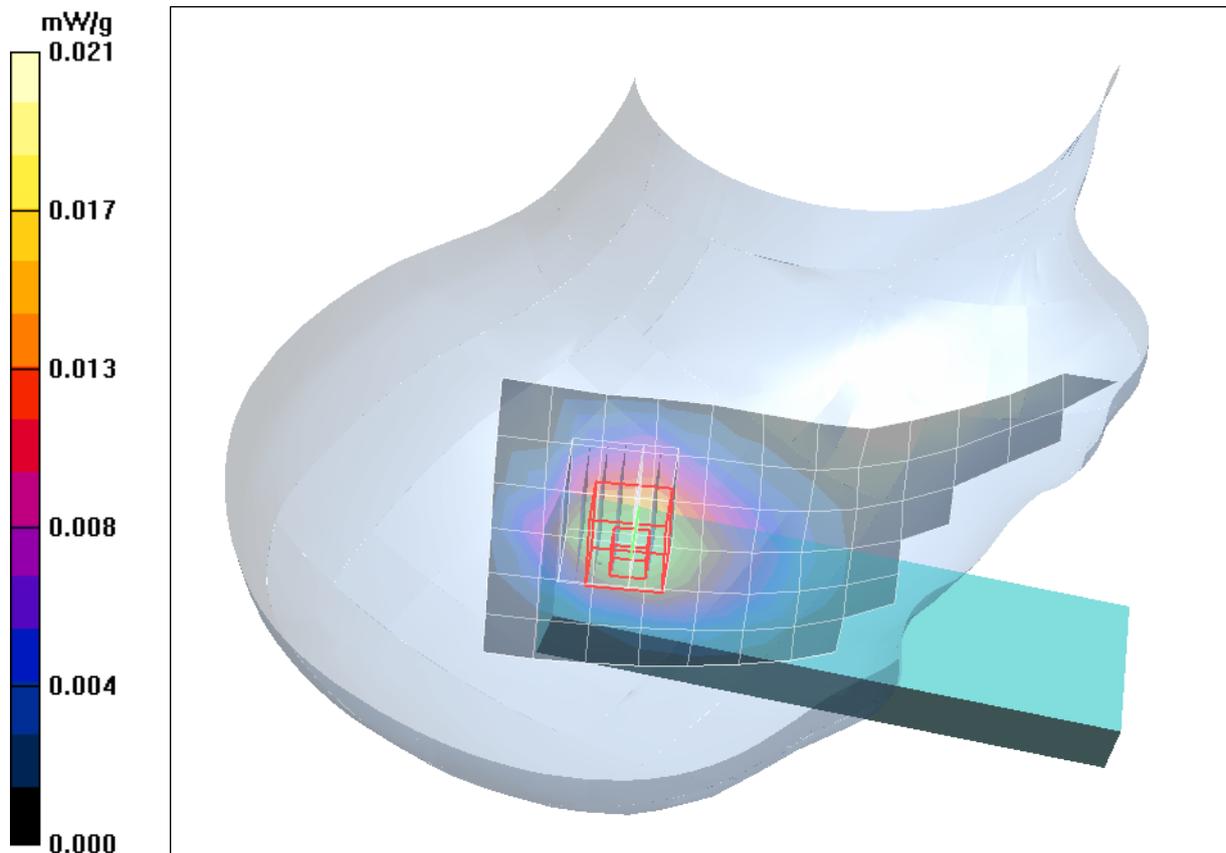


Fig. 4: SAR distribution for DECT US, channel 2, tilted position, right side of head (March 20, 2012; Ambient Temperature: 22.3°C; Liquid Temperature: 22.1°C)

2 SAR Z-Axis Scans (Validation)

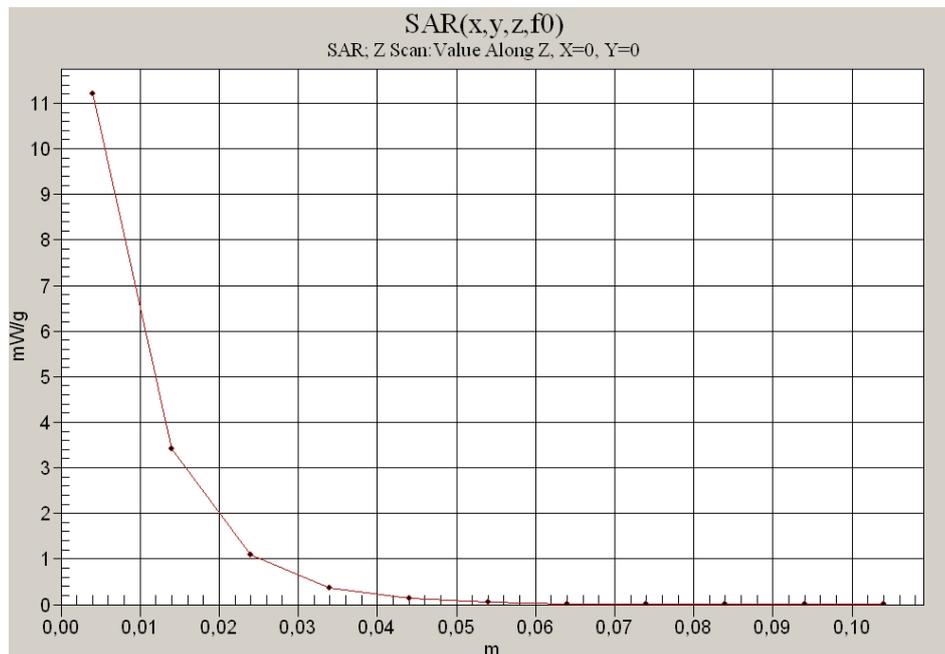


Fig. 5: SAR versus liquid depth, 1900 MHz, head (March 20, 2012; Ambient Temperature: 22.1° C; Liquid Temperature: 22.0° C).

3 SAR Z-Axis Scans (Measurements)

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

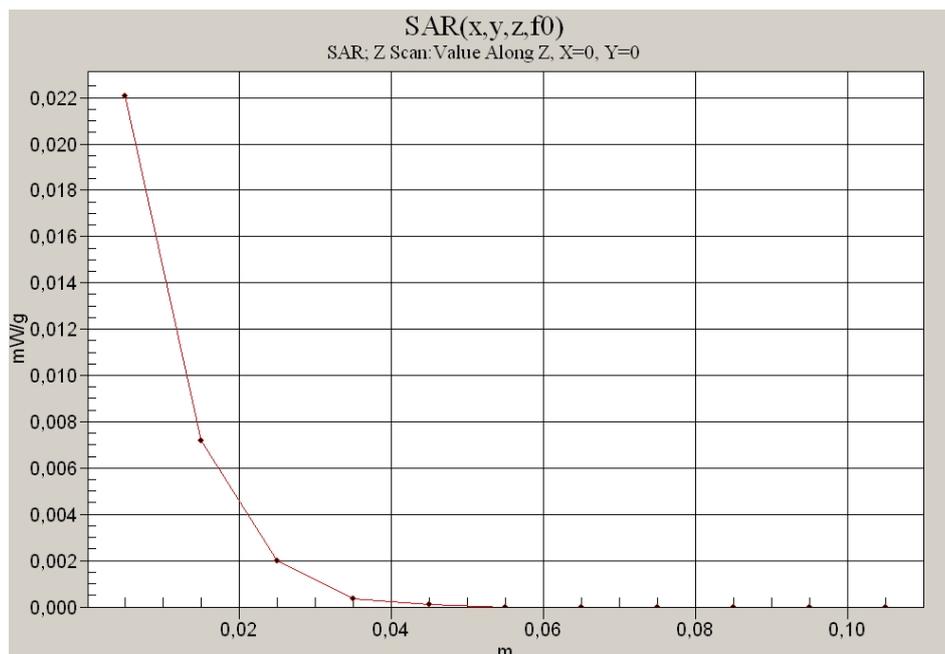


Fig. 6: SAR versus liquid depth, head: DECT US, channel 2, cheek position, left side of head (March 20, 2012; Ambient Temperature: 22.3° C; Liquid Temperature : 22.1° C).