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Appendix for the Report

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

According to the FCC Requirements SAR Distribution Plots

December 08, 2011

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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.

Table of Contents

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

1 SAR Distribution Plots, Head Measurement

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGA402_yplm_1.da4](#)

DUT: Panasonic; Type: KX-TGA402;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- 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) = 0.034 mW/g

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

Reference Value = 3.39 V/m; Power Drift = -0.177 dB

Peak SAR (extrapolated) = 0.070 W/kg

SAR(1 g) = 0.035 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.039 mW/g

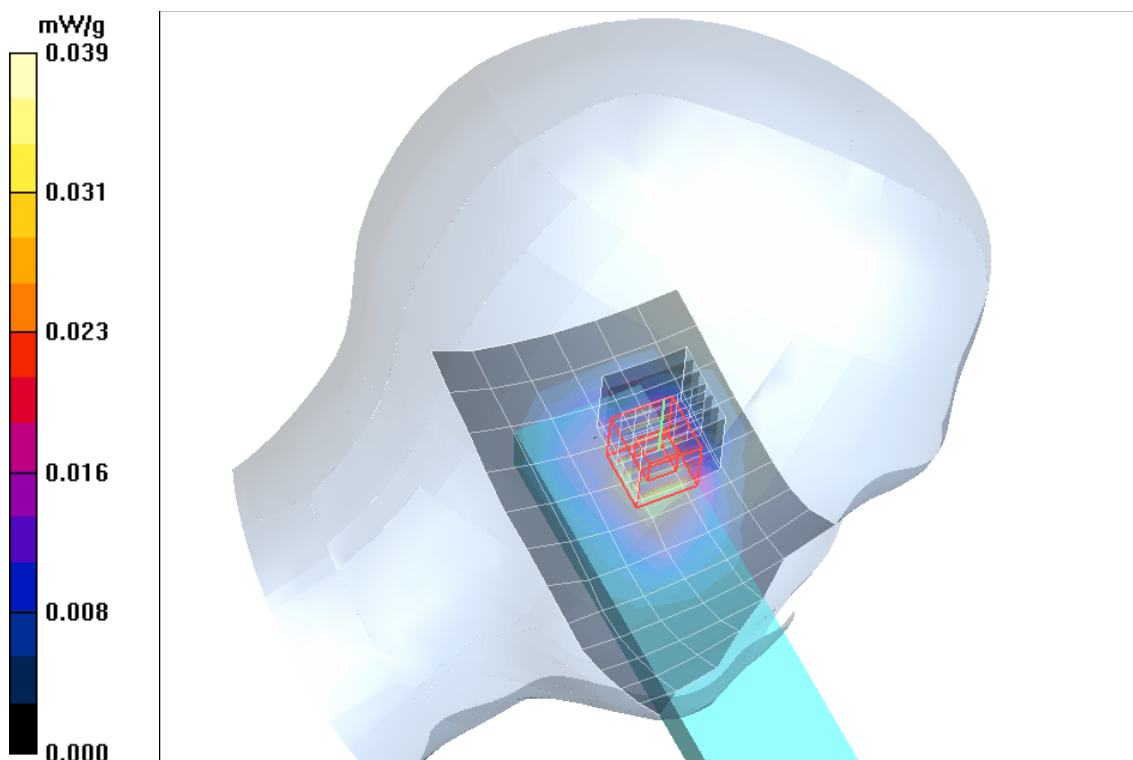


Fig. 1: SAR distribution for DECT US, channel 2, cheek position, left side of head (December 08, 2011; Ambient Temperature: 22.0°C; Liquid Temperature: 21.6°C).

Te Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGA402_yplm_2.da4](#)

DUT: Panasonic; Type: KX-TGA402;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- 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) = 0.019 mW/g

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

Reference Value = 3.35 V/m; Power Drift = -0.064 dB

Peak SAR (extrapolated) = 0.031 W/kg

SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.00986 mW/g

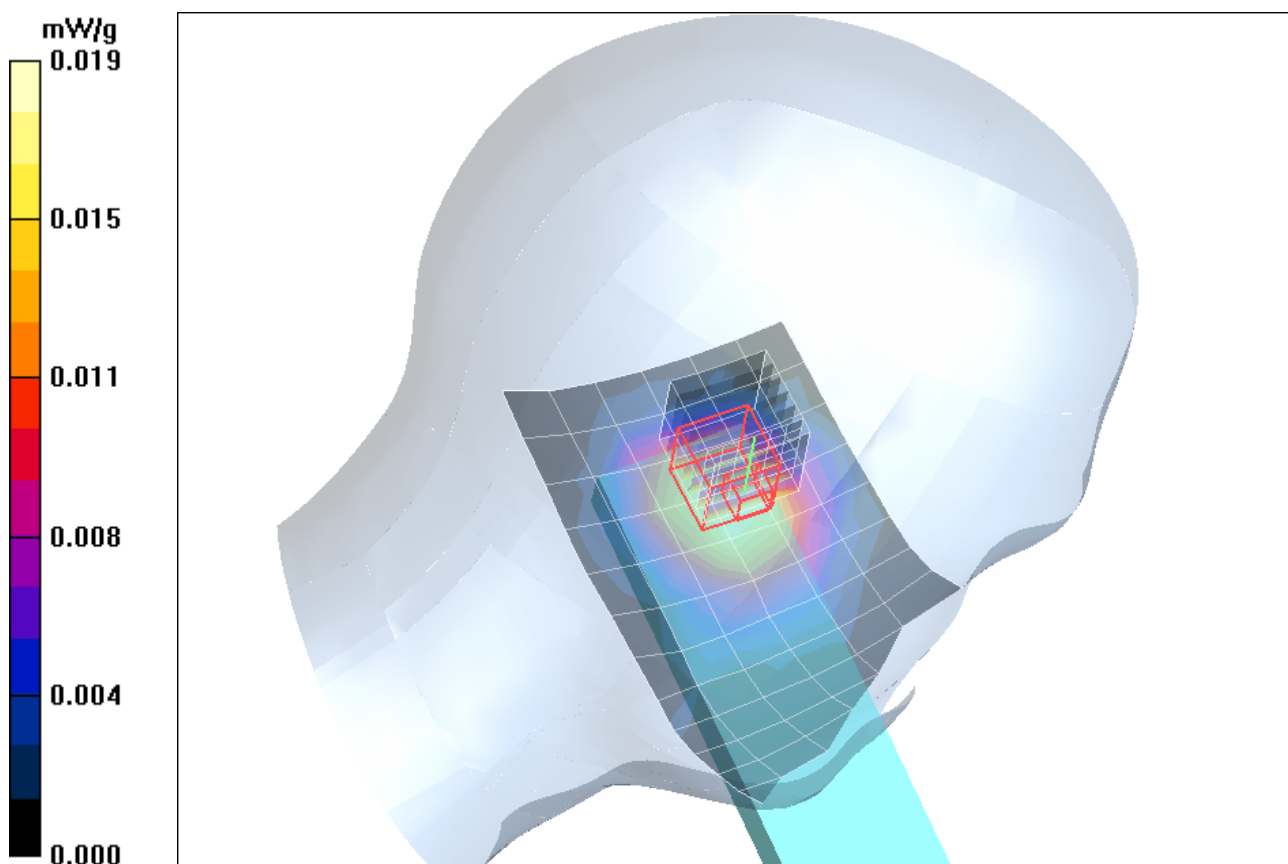


Fig. 2: SAR distribution for DECT US, channel 2, tilted position, left side of head (December 08, 2011; Ambient Temperature: 22.0°C; Liquid Temperature: 21.6°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGA402_yprm_1.da4](#)

DUT: Panasonic; Type: KX-TGA402;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- 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) = 0.027 mW/g

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

Reference Value = 3.52 V/m; Power Drift = 0.154 dB

Peak SAR (extrapolated) = 0.051 W/kg

SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.016 mW/g

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

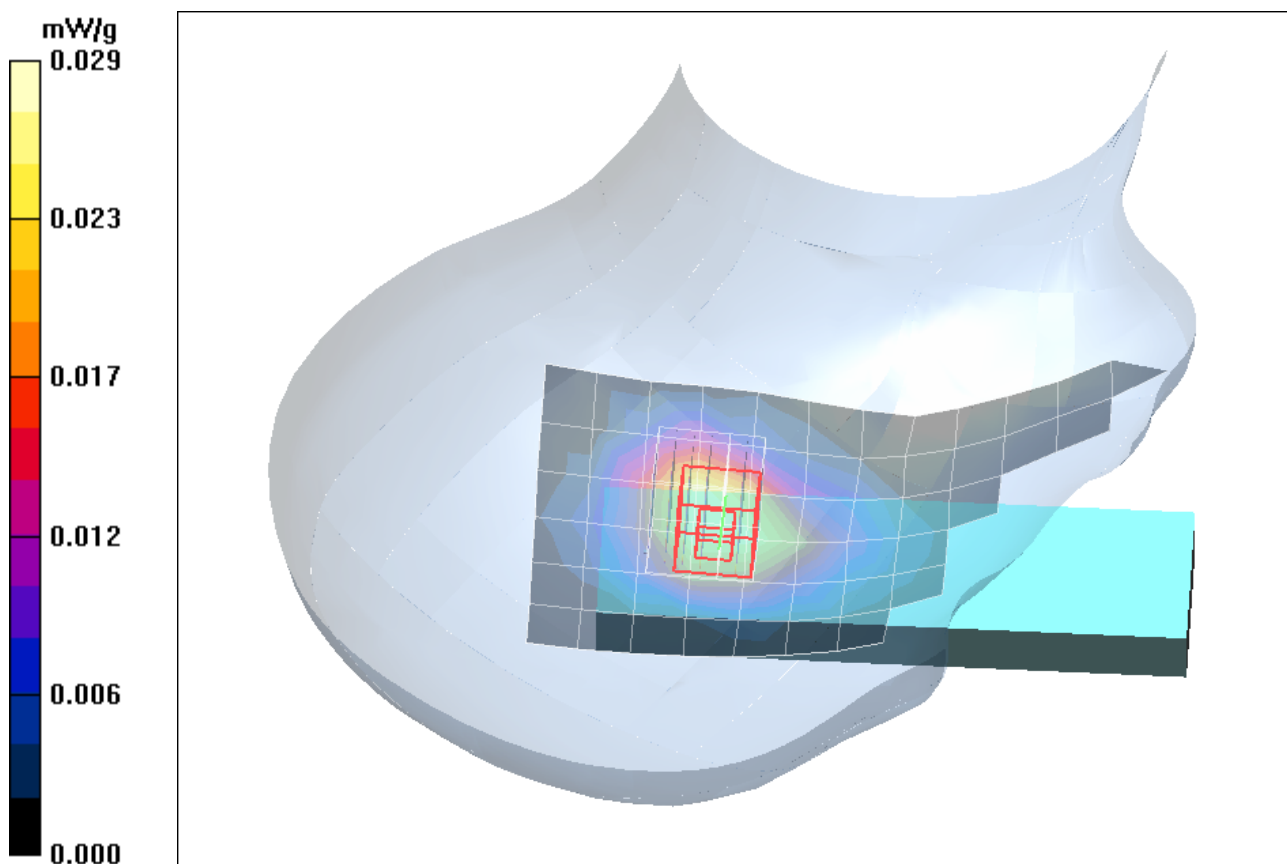


Fig. 3: SAR distribution for DECT US, channel 2, cheek position, right side of head (December 08, 2011; Ambient Temperature: 22.0°C; Liquid Temperature: 21.6°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGA402_yprm_2.da4](#)

DUT: Panasonic; Type: KX-TGA402;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- 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) = 0.019 mW/g

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

Reference Value = 3.48 V/m; Power Drift = -0.039 dB

Peak SAR (extrapolated) = 0.032 W/kg

SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.010 mW/g

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

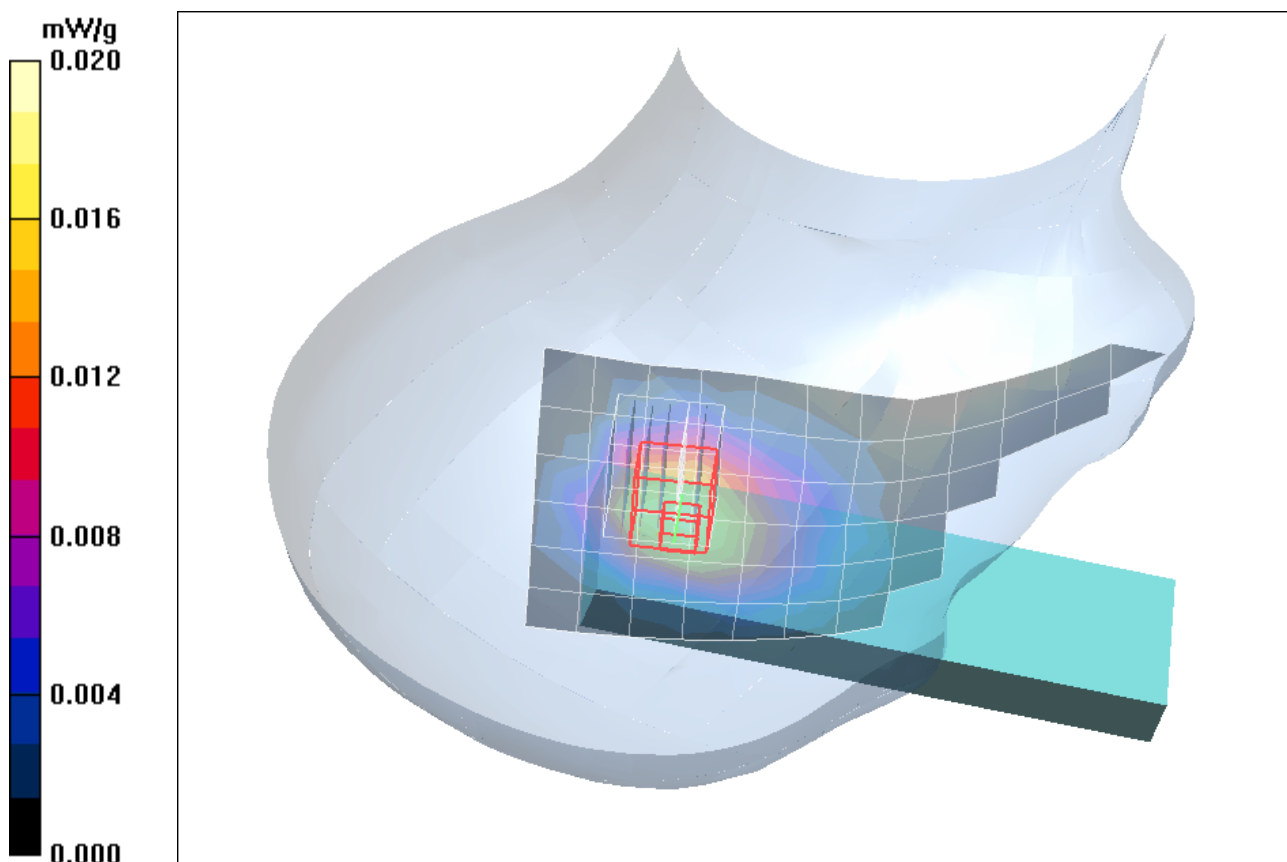


Fig. 4: SAR distribution for DECT US, channel 2, tilted position, right side of head (December 08, 2011; Ambient Temperature: 22.0°C; Liquid Temperature: 21.6°C)

2 SAR Z-Axis Scans (Validation)

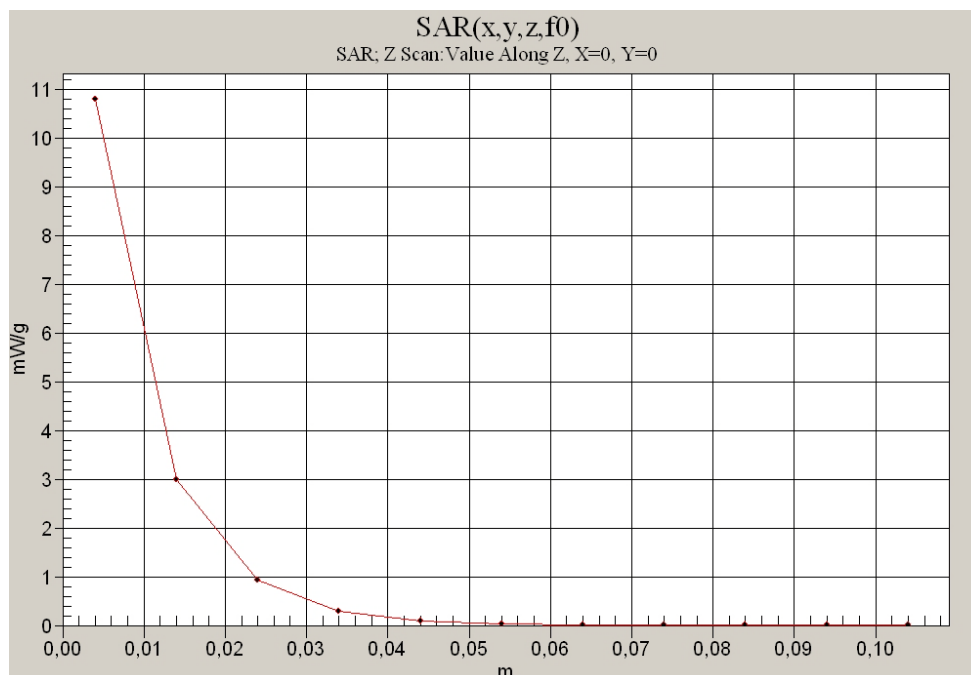


Fig. 5: SAR versus liquid depth, 1900 MHz, head (December 08, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.6° C).

3 SAR Z-Axis Scans (Measurements)

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

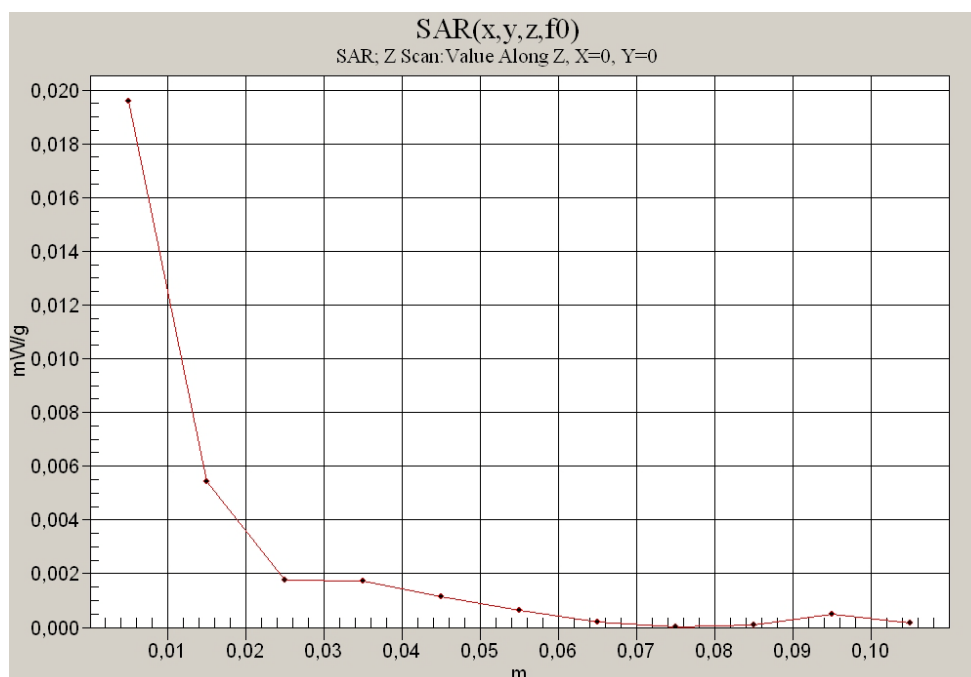


Fig. 6: SAR versus liquid depth, head: DECT US, channel 2, cheek position, left side of head (December 08, 2011; Ambient Temperature: 22.0° C; Liquid Temperature : 21.6° C).