
Appendix for the Report

Dosimetric Assessment of the CeoTronics CT-GateCom II (FCC ID: L52CT-M6CEO1)

According to the FCC Requirements

SAR Distribution Plots

May 24, 2011
IMST GmbH
Carl-Friedrich-Gauß-Str. 2
D-47475 Kamp-Lintfort

Customer
PHOENIX TESTLAB GmbH
Königswinkel 10
D-32825 Blomberg

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, ANTENNA 1.....	3
2	SAR DISTRIBUTION PLOTS, ANTENNA 2.....	5
3	SAR Z-AXIS SCANS (VALIDATION)	7
4	SAR Z-AXIS SCANS (MEASUREMENTS).....	7

1 SAR Distribution Plots, Antenna 1

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [CT-GateComII_yplm_1_ant1.da4](#)

DUT: CeoTronics; Type: CT-GateCom II; Serial: 98039011410271

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.77, 7.77, 7.77); Calibrated: 16.09.2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2010
- 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 (11x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.016 mW/g

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

Reference Value = 3.23 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.026 W/kg

SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00885 mW/g

Maximum value of SAR (measured) = 0.017 mW/g

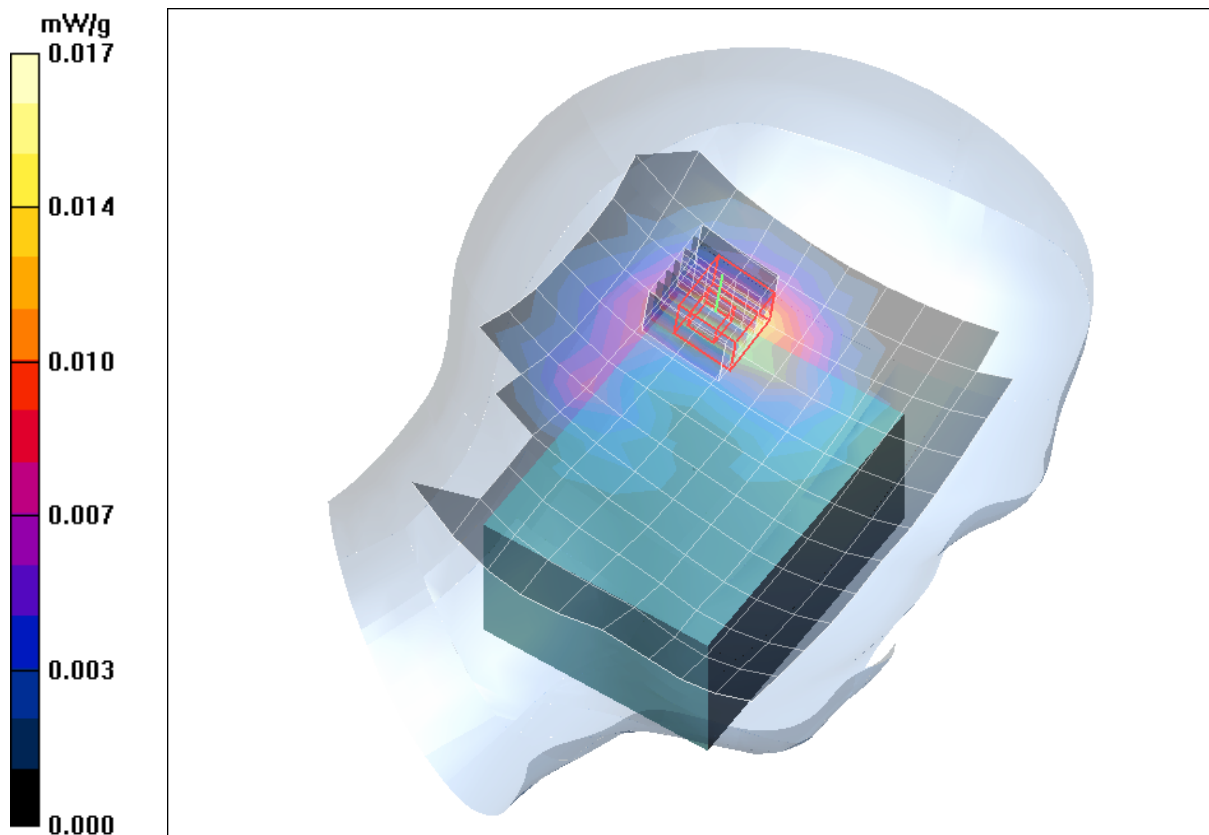


Fig. 1: SAR distribution for DECT US, antenna 1, channel 2, cheek left (May 19, 2011; Ambient Temperature: 21.6° C; Liquid Temperature: 21.3° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [CT-GateComII_yprm_1_ant1.da4](#)

DUT: CeoTronics; Type: CT-GateCom II; Serial: 98039011410271

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.77, 7.77, 7.77); Calibrated: 16.09.2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2010
- 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 (11x12x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 0.000 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 0.002 W/kg

SAR(1 g) = 0.00015 mW/g; SAR(10 g) = 3.94e-005 mW/g

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

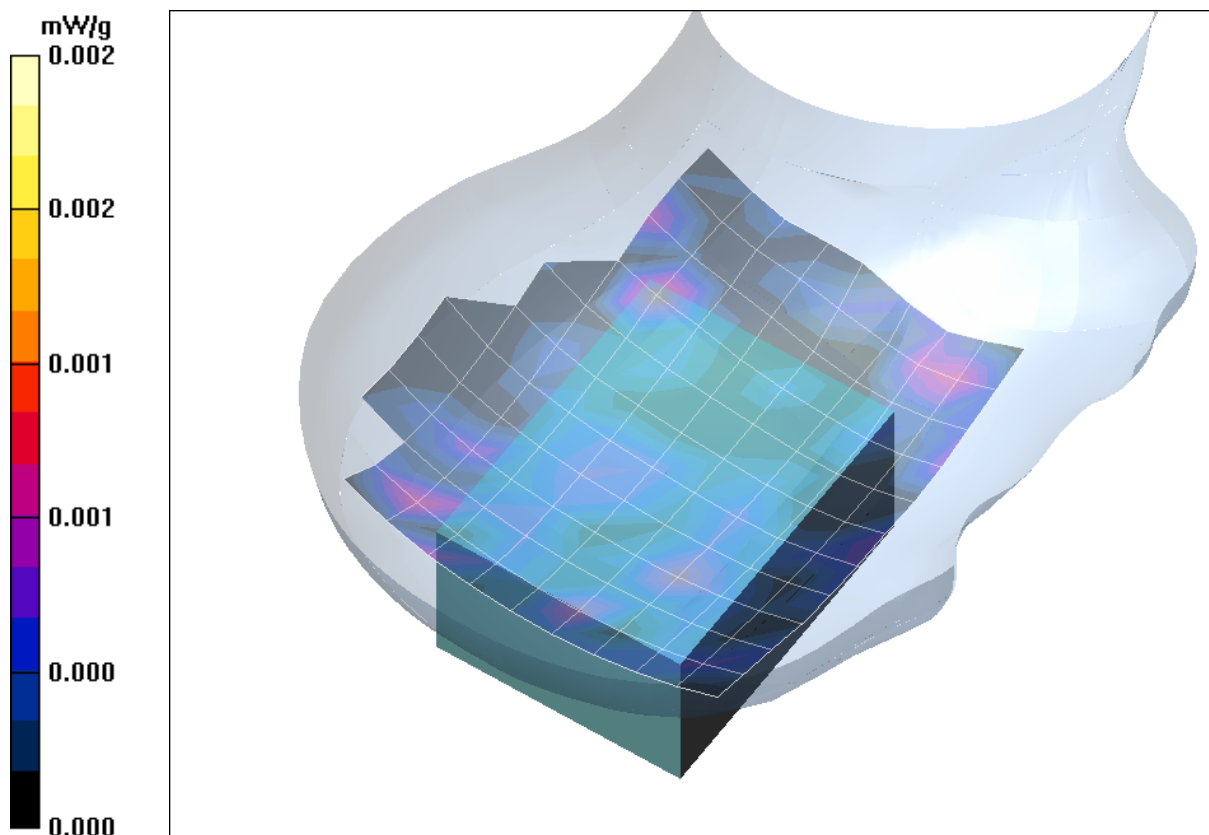


Fig. 2: SAR distribution for DECT US, antenna 1, channel 2, cheek right (May 19, 2011; Ambient Temperature: 21.6° C; Liquid Temperature: 21.3° C).

2 SAR Distribution Plots, Antenna 2

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [CT-GateComII_yplm_1_ant2.da4](#)

DUT: CeoTronics; Type: CT-GateCom II; Serial: 98039011410271

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.77, 7.77, 7.77); Calibrated: 16.09.2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2010
- 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 (11x12x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 3.88 V/m; Power Drift = -0.179 dB

Peak SAR (extrapolated) = 0.033 W/kg

SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.012 mW/g

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

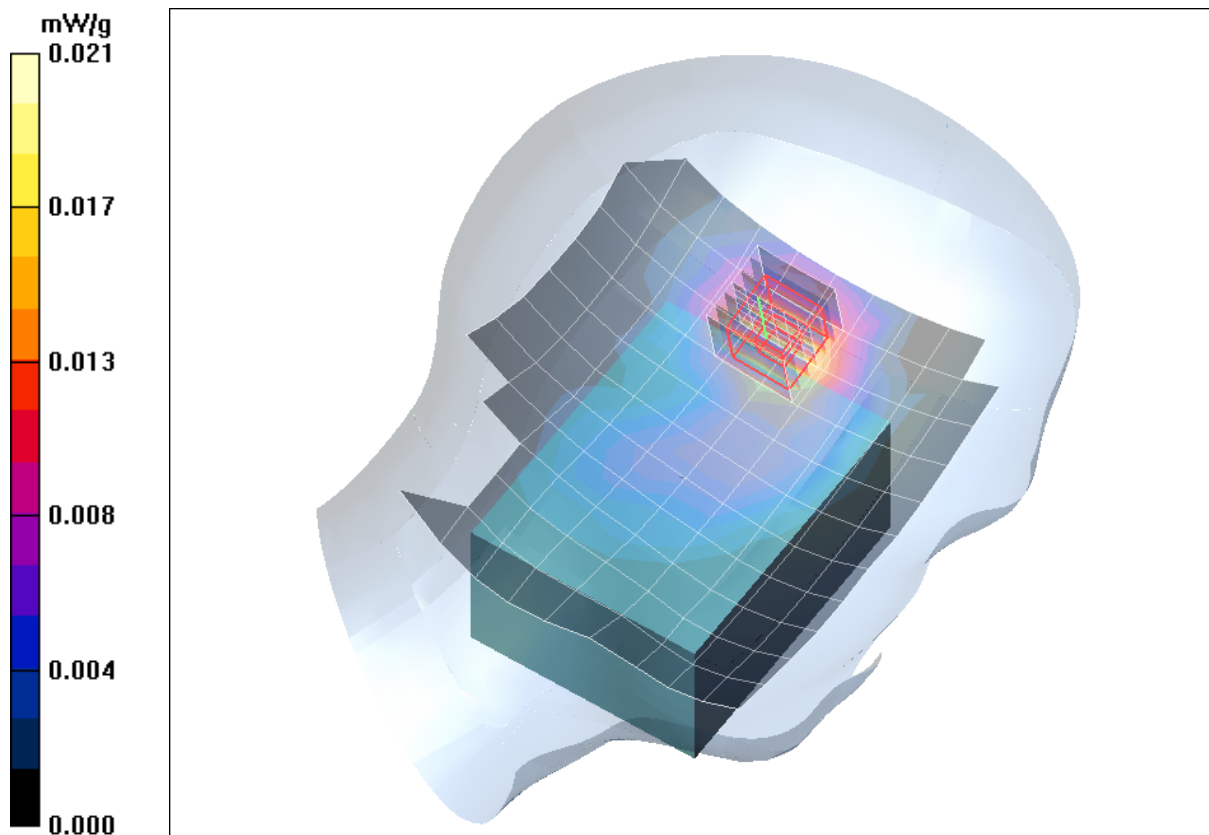


Fig. 3: SAR distribution for DECT US, antenna 2, channel 2, cheek left (May 19, 2011; Ambient Temperature: 21.6° C; Liquid Temperature: 21.3° C).

Laboratory: Imst GmbH, DASY Yellow (II); File Name: [CT-GateComII yprm 1 ant2.da4](#)

DUT: CeoTronics; Type: CT-GateCom II; Serial: 98039011410271

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.77, 7.77, 7.77); Calibrated: 16.09.2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2010
- 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 (11x12x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 0.496 V/m; Power Drift = 0.190 dB

Peak SAR (extrapolated) = 0.004 W/kg

SAR(1 g) = 9.02e-005 mW/g; SAR(10 g) = 1.15e-005 mW/g

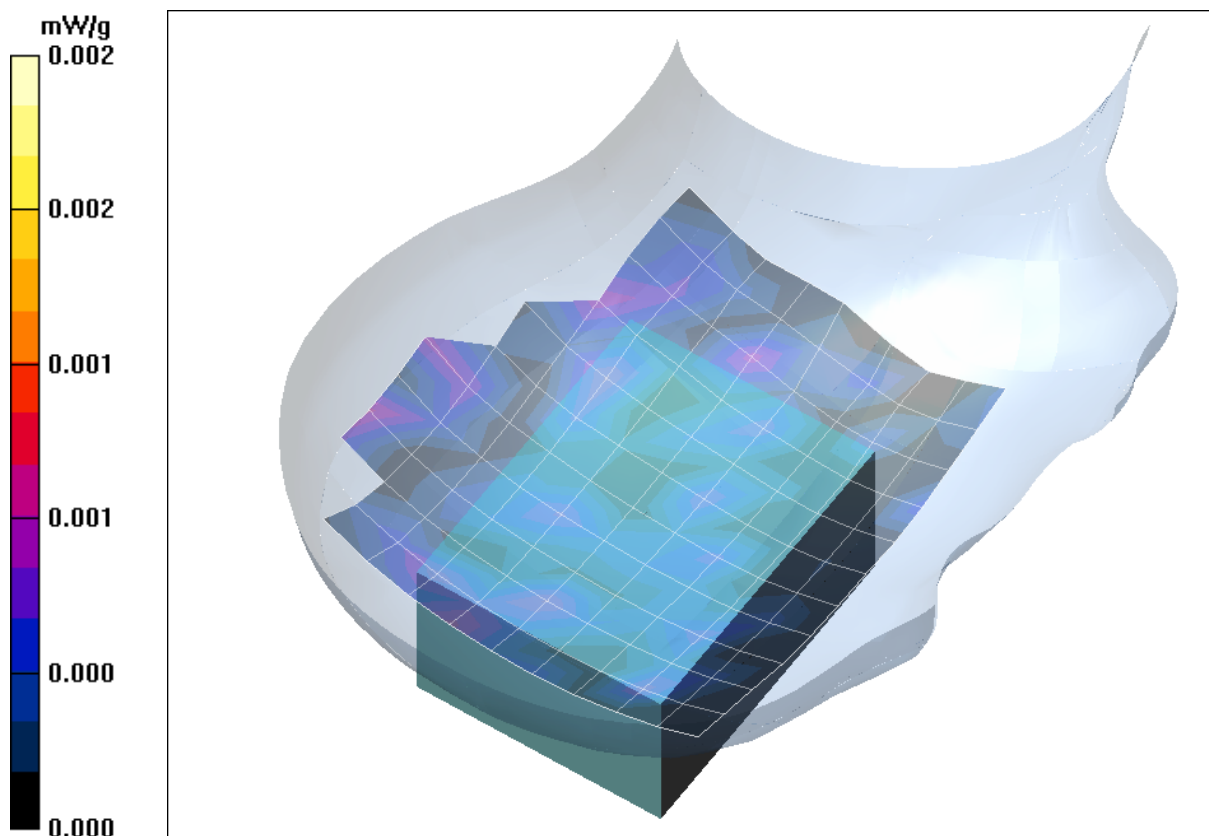


Fig. 4: SAR distribution for DECT US, antenna 2, channel 2, cheek right (May 19, 2011; Ambient Temperature: 21.6° C; Liquid Temperature: 21.3° C).

3 SAR Z-axis Scans (Validation)

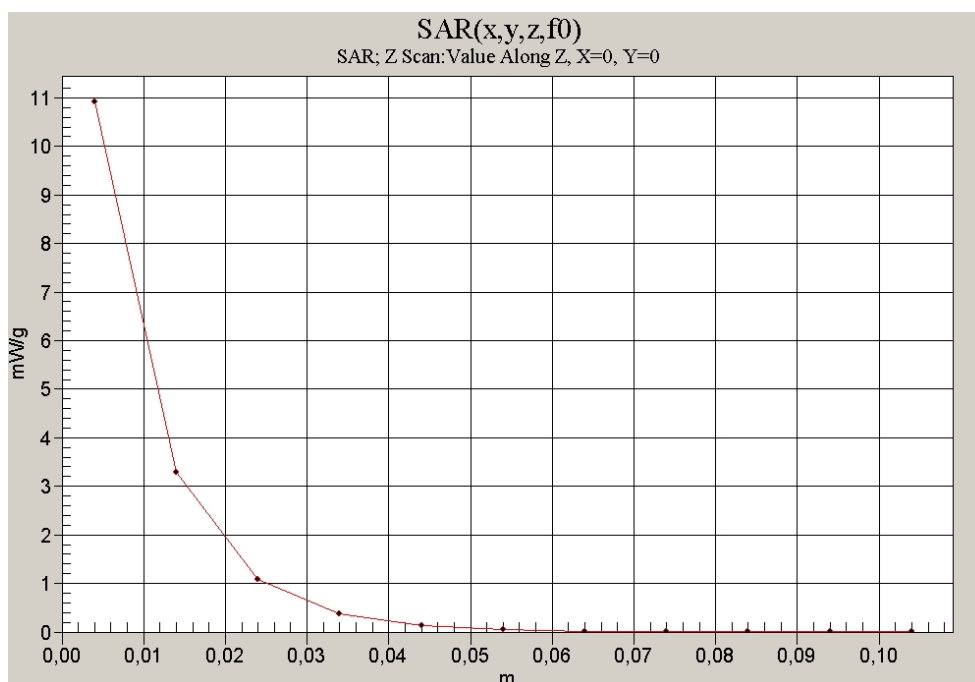


Fig. 5: SAR versus liquid depth, 1900 MHz, head
(May 19, 2011; Ambient Temperature: 21.5° C; Liquid Temperature : 21.3° C).

4 SAR Z-axis Scans (Measurements)

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

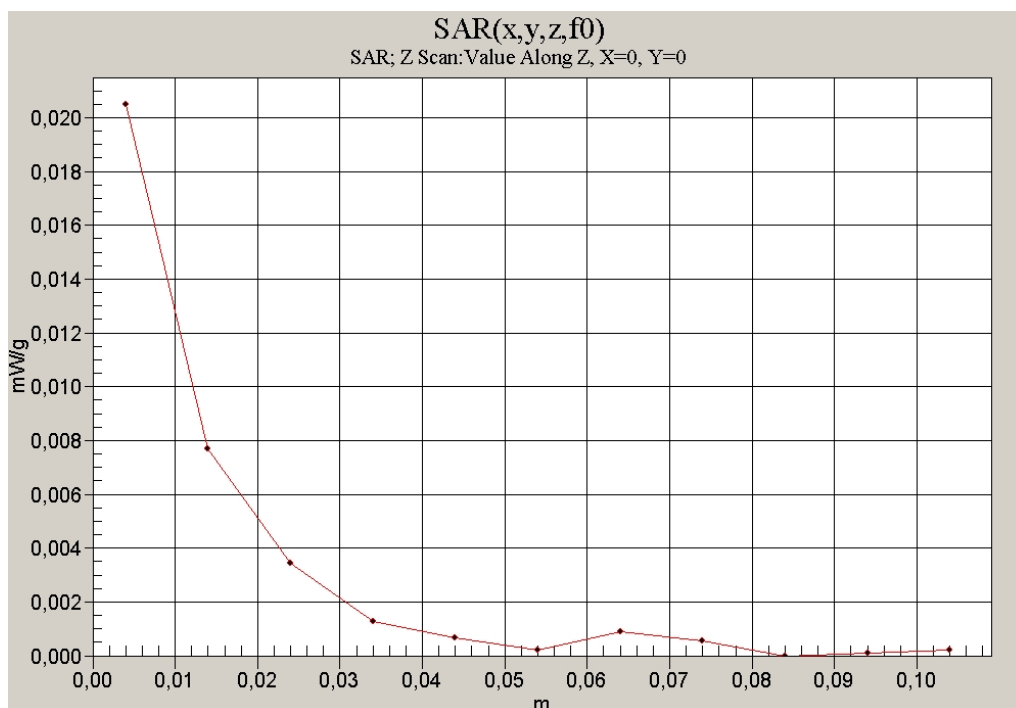


Fig. 6: SAR versus liquid depth, head: DECT US, antenna 2, channel 2, cheek left
(May 19, 2011; Ambient Temperature: 21.6° C; Liquid Temperature: 21.3° C).