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D-PL-12139-01-01

The Testcenter facility 'Dosimetric Test Lab' within IMST GmbH is accredited by the German National 'Deutsche Akkreditierungsstelle GmbH (DAkkS)' for testing according to the scope as listed in the accreditation certificate: D-PL-12139-01-01.

Appendix for the Report

Dosimetric Assessment of the Portable Device RTX4088 (FCC ID: T7HCT4088) (IC: 4979B-CT4088)

According to the FCC Requirements SAR Distribution Plots

January 31, 2012

IMST GmbH
Carl-Friedrich-Gauß-Str. 2
D-47475 Kamp-Lintfort

Customer
RTX Products Hong Kong Ltd.
11/F, CAC Tower, 165 Hoi Bun Road
Kwun Tong, Kowloon
Hong Kong

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1 SAR Distribution Plots, Head Measurements

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: RTX4088_yplm_1.da4

DUT: RTX; Type: 4088; Serial: 0002858900007
Program Name: DECT

Communication System: DECT US2TX; Frequency: 1924.99 MHz;Duty Cycle: 1:12
Medium parameters used: f = 1924.99 MHz; σ = 1.46 mho/m; ε_r = 39; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1669; ConvF(5.12, 5.12, 5.12); Calibrated: 21.02.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 22.02.2011
- 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 (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.053 mW/g
Cheek Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.22 V/m; Power Drift = -0.023 dB
Peak SAR (extrapolated) = 0.080 W/kg
SAR(1 g) = 0.050 mW/g; SAR(10 g) = 0.029 mW/g
Maximum value of SAR (measured) = 0.055 mW/g

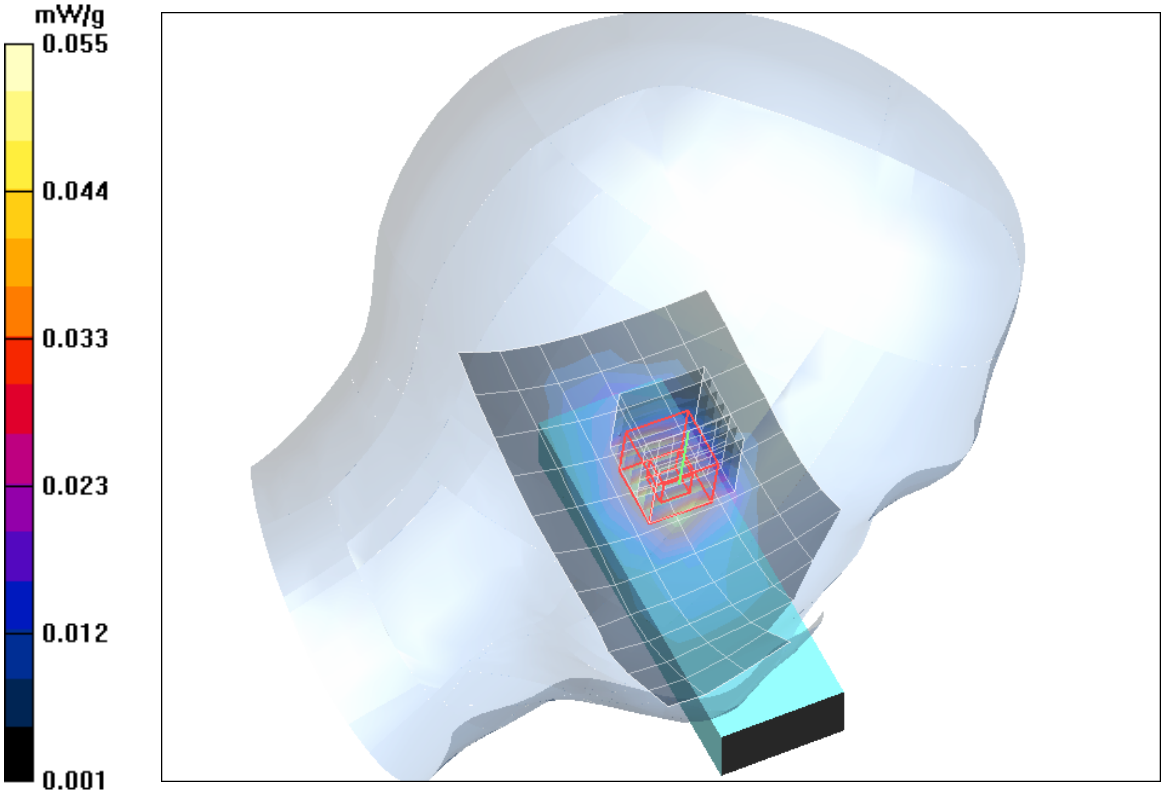

Fig. 1: SAR distribution for DECT US, channel 2, cheek position, left side of head (January 26, 2012; Ambient Temperature: 22.2°C; Liquid Temperature: 21.9°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: RTX4088_yplm_2.da4

DUT: RTX; Type: 4088; Serial: 0002858900007
Program Name: DECT

Communication System: DECT US2TX; Frequency: 1924.99 MHz;Duty Cycle: 1:12
Medium parameters used: f = 1924.99 MHz; σ = 1.46 mho/m; ε_r = 39; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1669; ConvF(5.12, 5.12, 5.12); Calibrated: 21.02.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 22.02.2011
- 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 (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.033 mW/g
Tilted Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.06 V/m; Power Drift = -0.072 dB
Peak SAR (extrapolated) = 0.051 W/kg
SAR(1 g) = 0.031 mW/g; SAR(10 g) = 0.017 mW/g

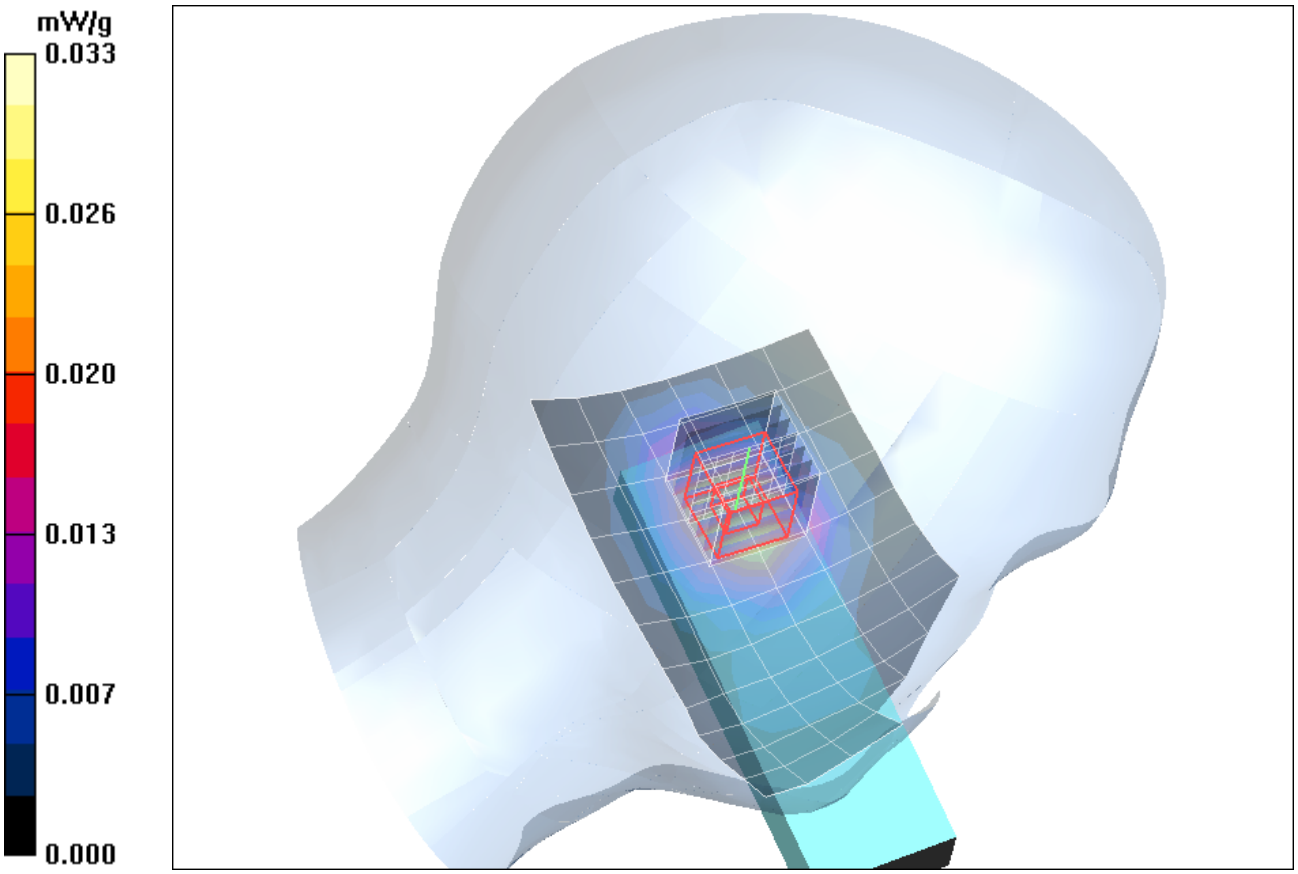

Fig. 2: SAR distribution for DECT US, channel 2, tilted position, left side of head (January 26, 2012; Ambient Temperature: 22.2°C; Liquid Temperature: 21.9°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: RTX4088_yprm_1.da4

DUT: RTX; Type: 4088; Serial: 0002858900007
Program Name: DECT

Communication System: DECT US2TX; Frequency: 1924.99 MHz;Duty Cycle: 1:12
Medium parameters used: f = 1924.99 MHz; σ = 1.46 mho/m; ε_r = 39; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1669; ConvF(5.12, 5.12, 5.12); Calibrated: 21.02.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 22.02.2011
- 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 (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.040 mW/g
Cheek Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.53 V/m; Power Drift = -0.009 dB
Peak SAR (extrapolated) = 0.058 W/kg
SAR(1 g) = 0.039 mW/g; SAR(10 g) = 0.023 mW/g
Maximum value of SAR (measured) = 0.043 mW/g

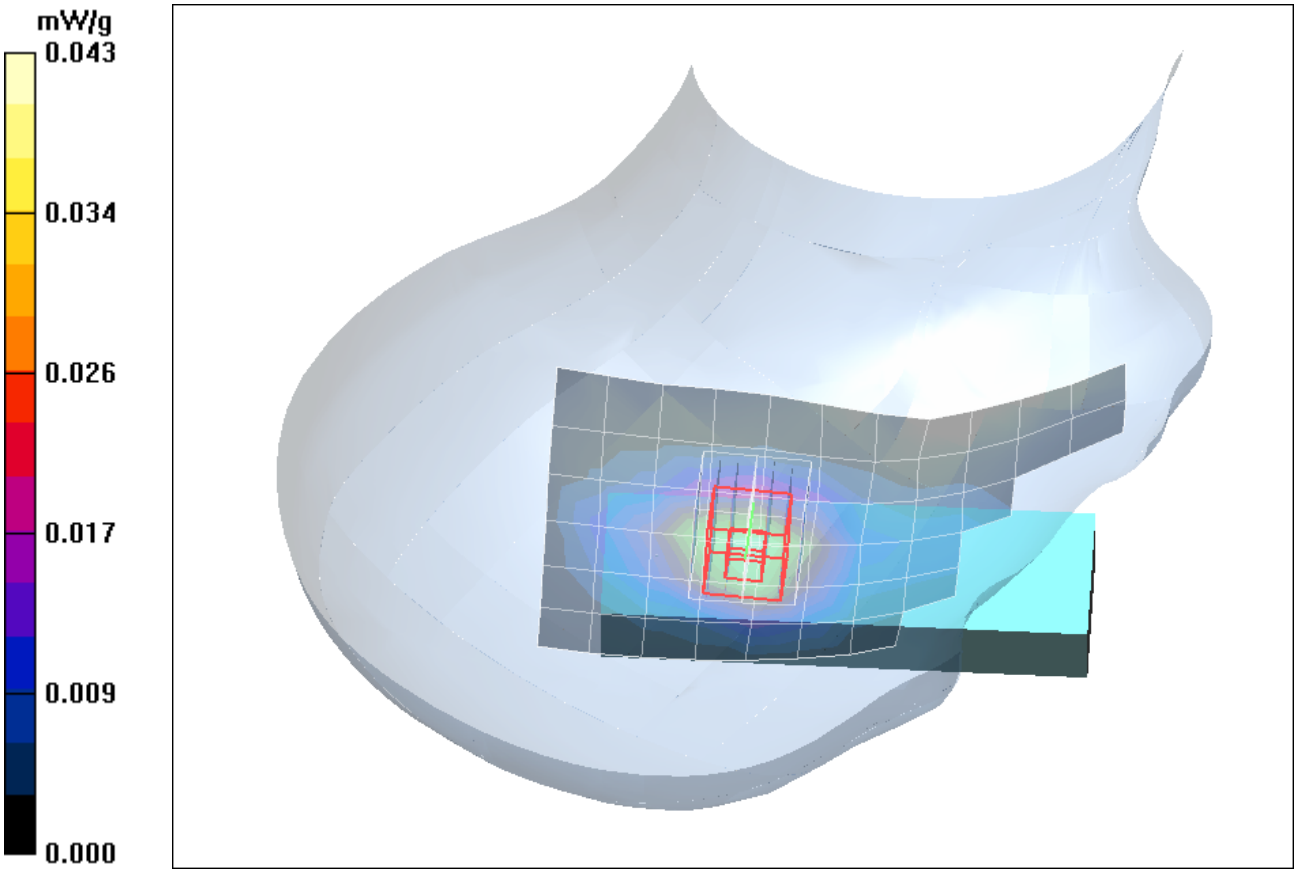

Fig. 3: SAR distribution for DECT US, channel 2, cheek position, right side of head (January 26, 2012; Ambient Temperature: 22.2°C; Liquid Temperature: 21.9°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: RTX4088_yprm_2.da4

DUT: RTX; Type: 4088; Serial: 0002858900007
Program Name: DECT

Communication System: DECT US2TX; Frequency: 1924.99 MHz;Duty Cycle: 1:12
Medium parameters used: f = 1924.99 MHz; σ = 1.46 mho/m; ε_r = 39; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1669; ConvF(5.12, 5.12, 5.12); Calibrated: 21.02.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 22.02.2011
- 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 (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.028 mW/g
Tilted Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.57 V/m; Power Drift = -0.034 dB
Peak SAR (extrapolated) = 0.045 W/kg
SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.016 mW/g
Maximum value of SAR (measured) = 0.030 mW/g

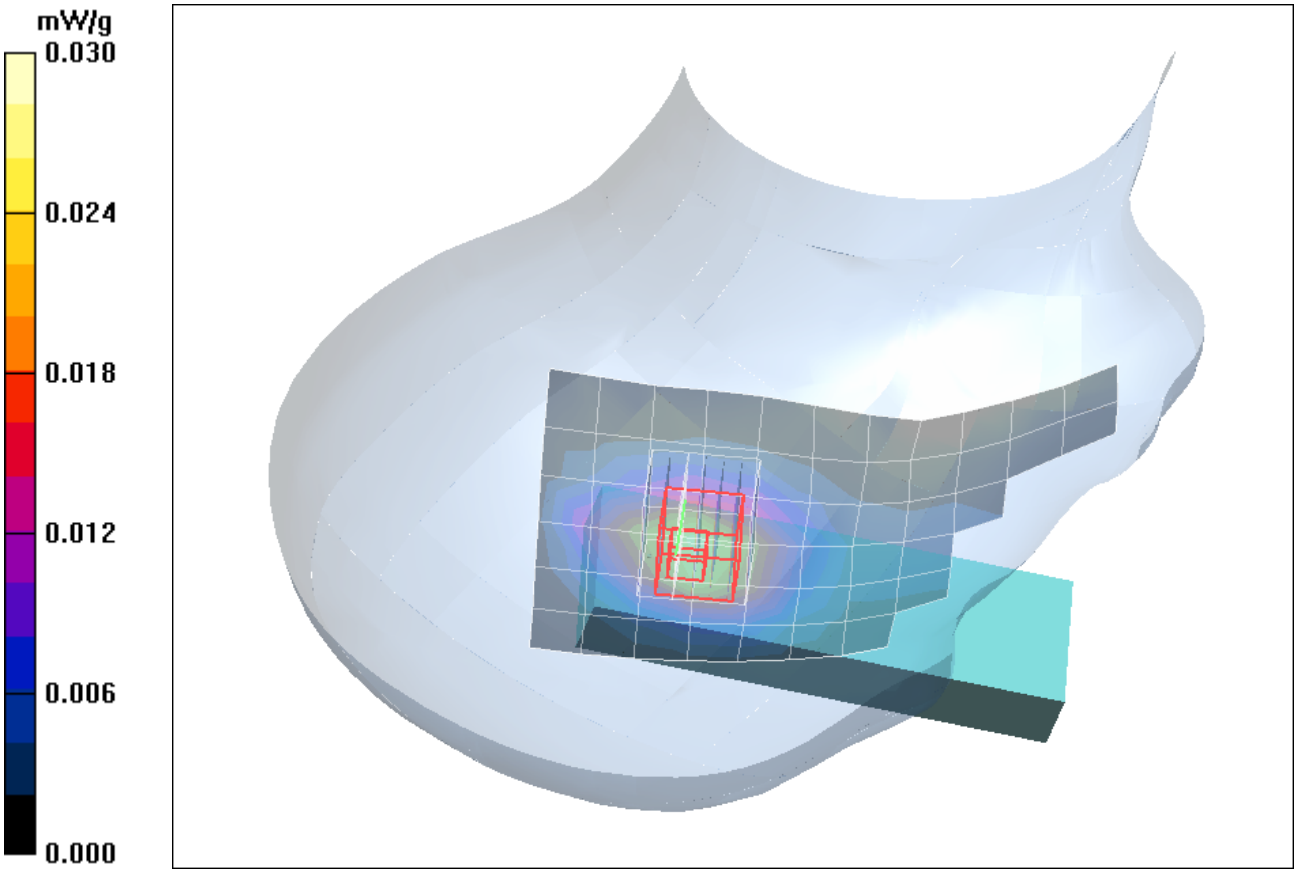

Fig. 4: SAR distribution for DECT US, channel 2, tilted position, right side of head (January 26, 2012; Ambient Temperature: 22.2°C; Liquid Temperature: 21.9°C)

2 SAR Distribution Plots, Body Measurements

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: RTX4088_yphm_1_dspl_up_hs.da4

DUT: RTX; Type: 4088; Serial: 0002858900007
Program Name: DECT

Communication System: DECT US2TX; Frequency: 1924.99 MHz;Duty Cycle: 1:12
Medium parameters used: f = 1924.99 MHz; σ = 1.58 mho/m; ε_r = 52.3; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 21.02.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 22.02.2011
- 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

Body/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.040 mW/g
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.18 V/m; Power Drift = -0.182 dB
Peak SAR (extrapolated) = 0.063 W/kg
SAR(1 g) = 0.038 mW/g; SAR(10 g) = 0.022 mW/g
Maximum value of SAR (measured) = 0.042 mW/g

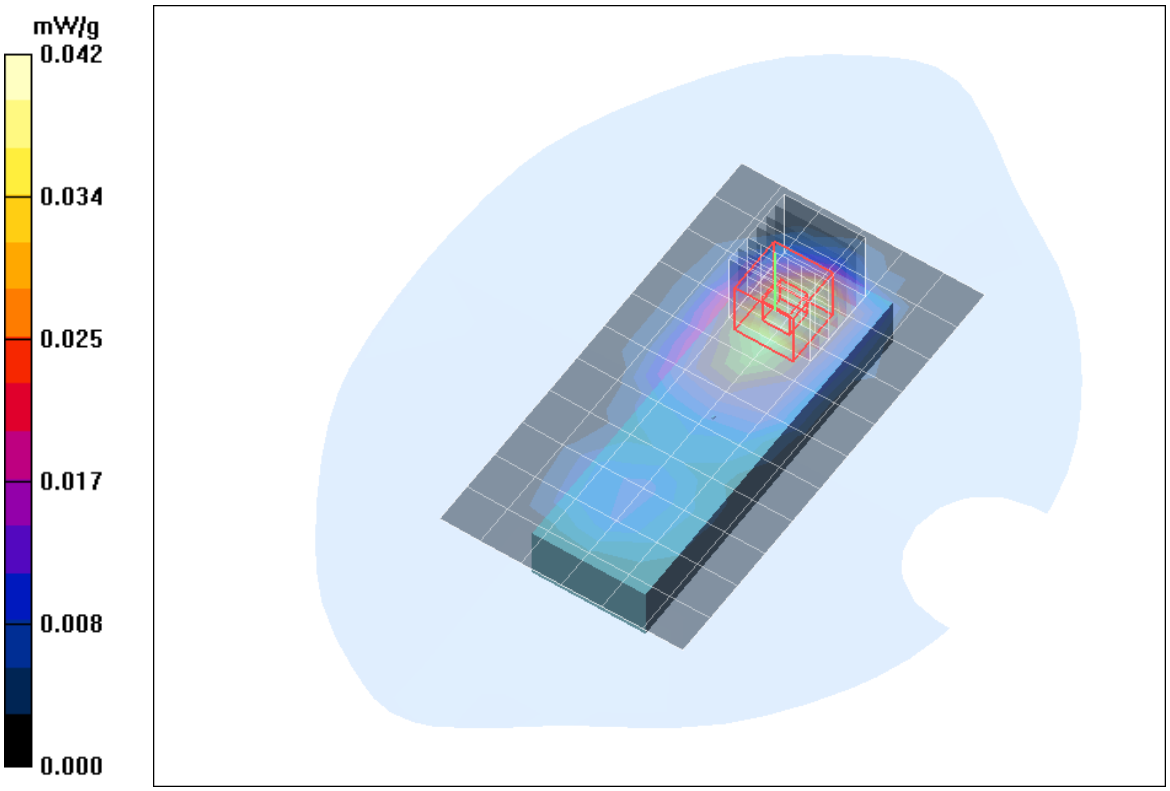

Fig. 5: SAR distribution for DECT US, channel 2, body worn configuration, display towards the phantom, with headset and 0 mm distance (January 30, 2012; Ambient Temperature: 21.7° C; Liquid Temperature: 21.4° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: RTX4088_yphm_2_dspl_down_hs.da4

DUT: RTX; Type: 4088; Serial: 0002858900007
Program Name: DECT

Communication System: DECT US2TX; Frequency: 1924.99 MHz;Duty Cycle: 1:12
Medium parameters used: f = 1924.99 MHz; σ = 1.58 mho/m; ε_r = 52.3; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 21.02.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 22.02.2011
- 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

Body/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.030 mW/g
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.62 V/m; Power Drift = -0.005 dB
Peak SAR (extrapolated) = 0.040 W/kg
SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.015 mW/g
Maximum value of SAR (measured) = 0.031 mW/g

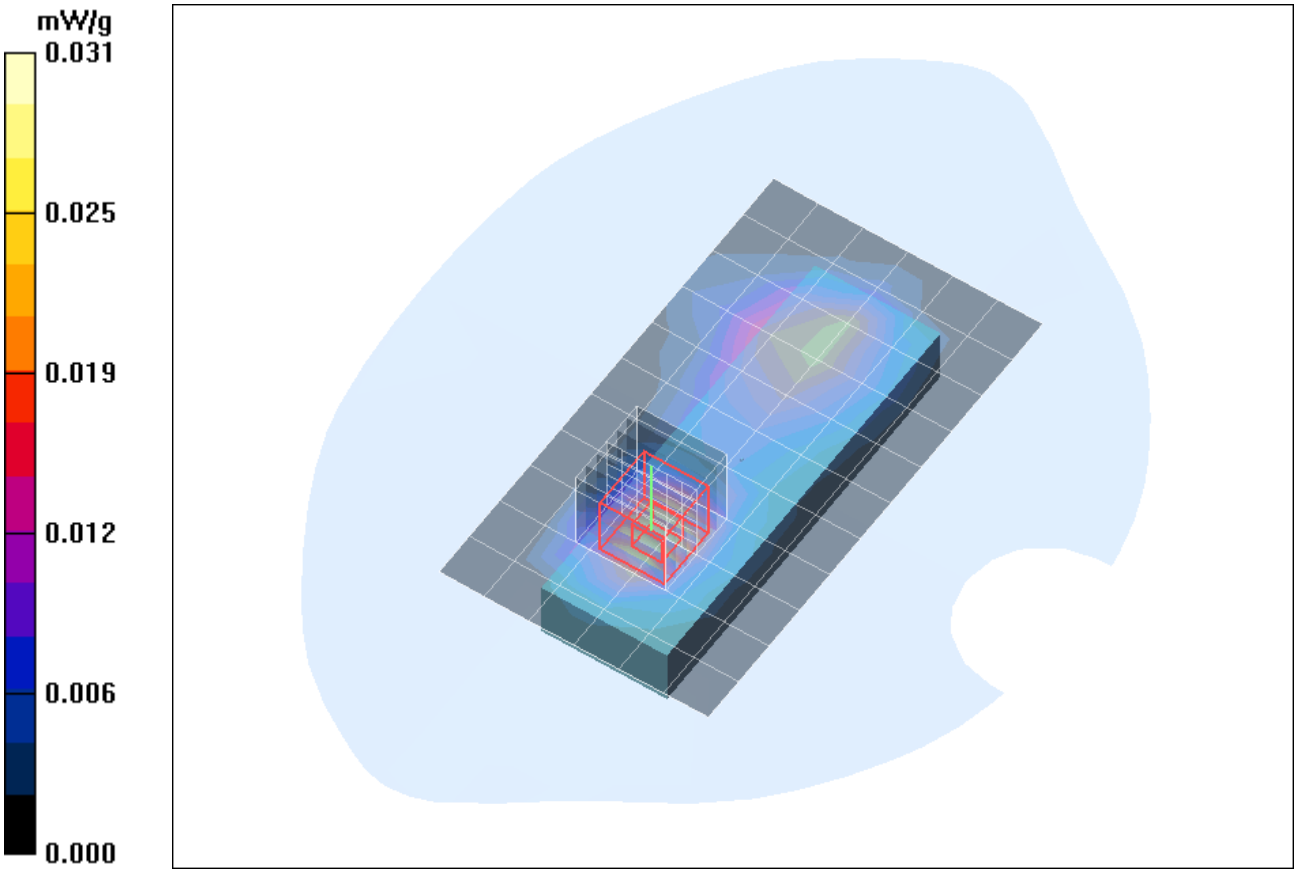

Fig. 6: SAR distribution for DECT US, channel 2, body worn configuration, display towards the ground, with headset and 0 mm distance (January 30, 2012; Ambient Temperature: 21.7° C; Liquid Temperature: 21.4° C).

3 SAR Z-Axis Scans (Validation)

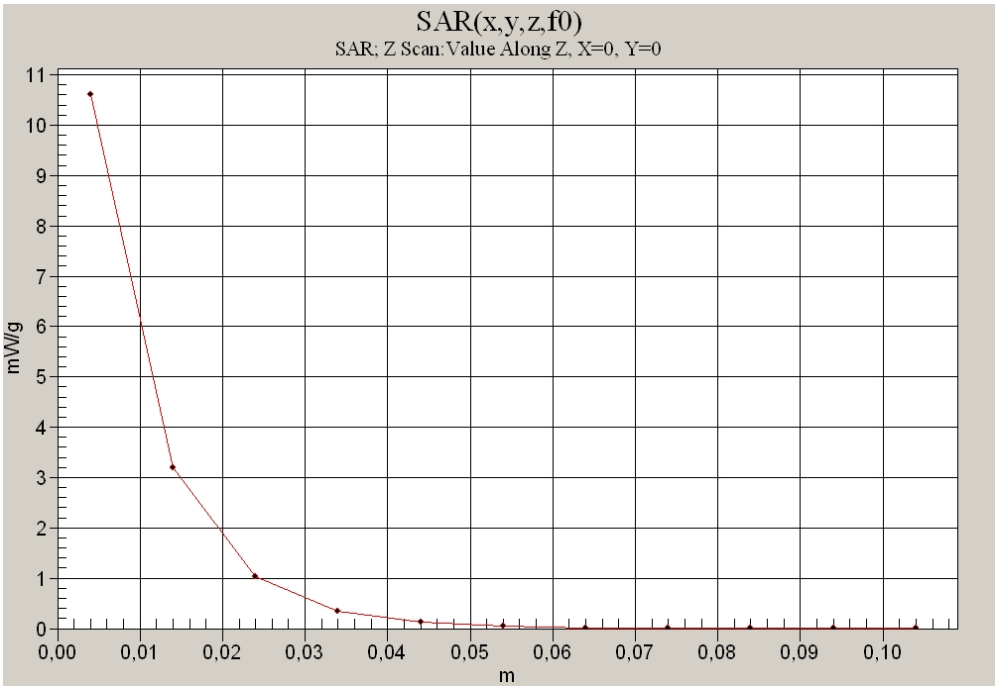

Fig. 7: SAR versus liquid depth, 1900 MHz, head (January 26, 2012; Ambient Temperature: 21.5° C; Liquid Temperature : 21.4° C).

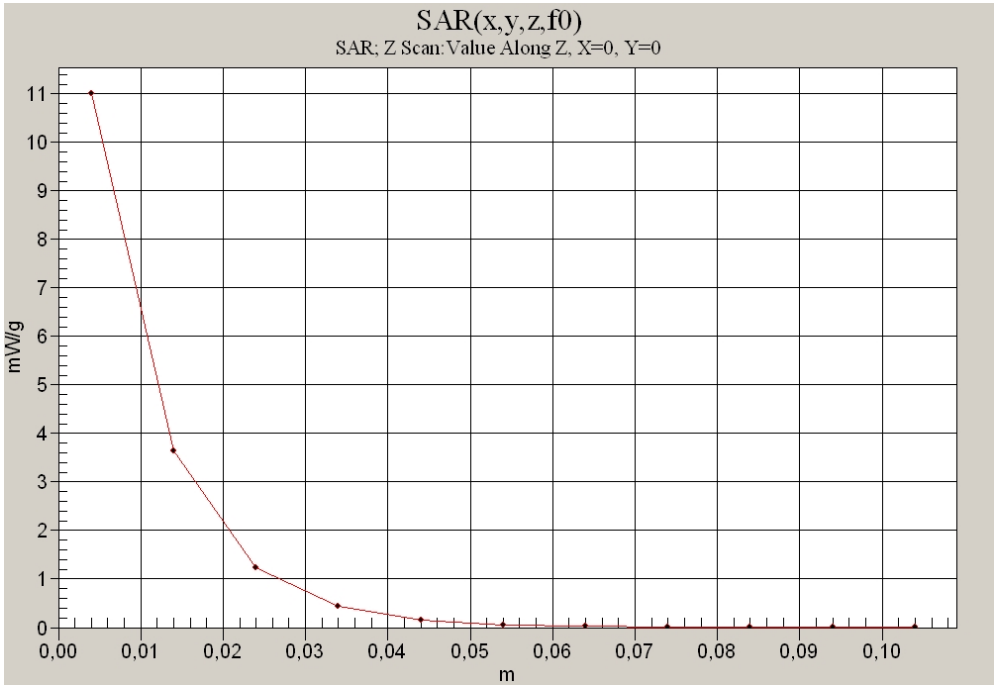

Fig. 8: SAR versus liquid depth, 1900 MHz, body (January 30, 2012; Ambient Temperature: 21.5° C; Liquid Temperature : 21.4° C).

4 SAR Z-Axis Scans (Measurements)

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

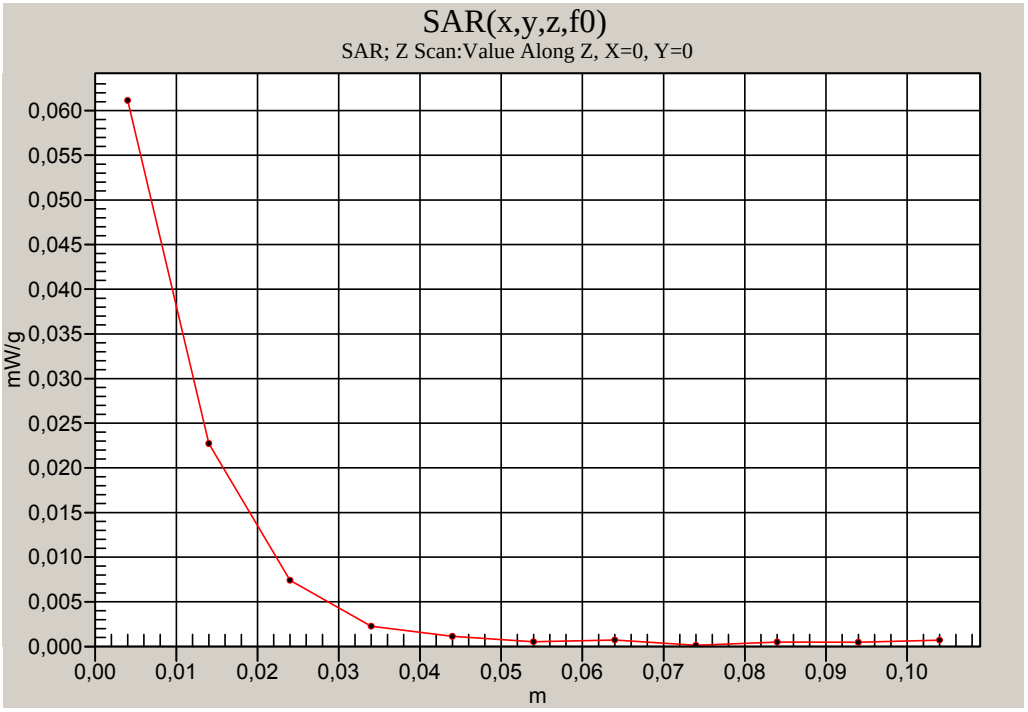

Fig. 9: SAR versus liquid depth, head: DECT US, channel 2, cheek position, left side of head (January 26, 2012; Ambient Temperature: 22.2° C; Liquid Temperature : 21.9° C).

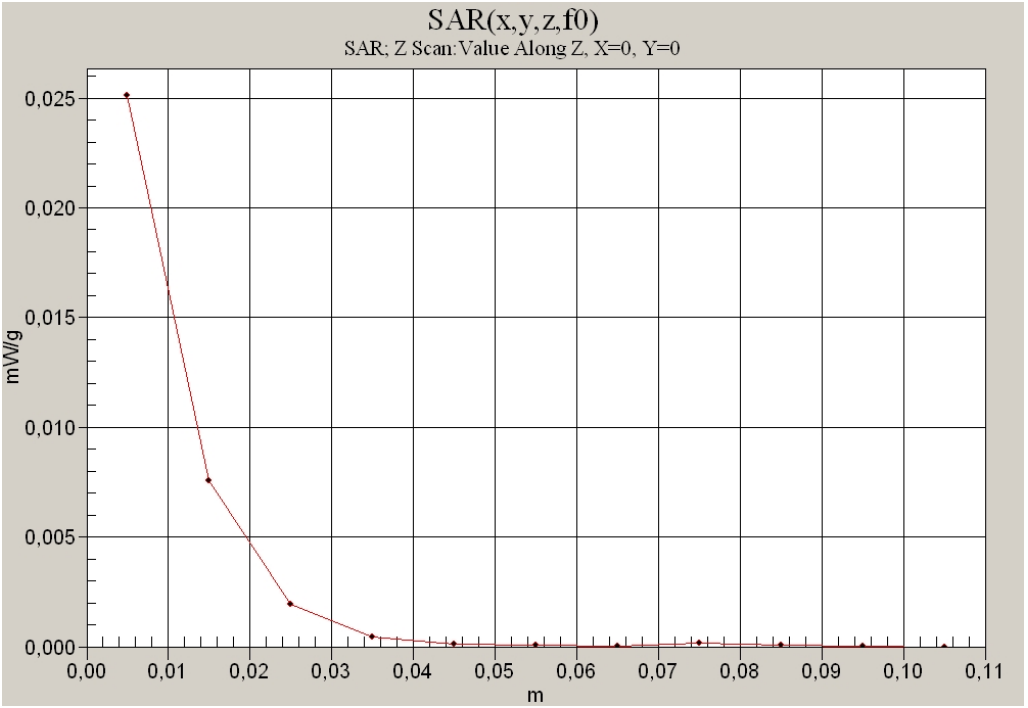

Fig. 10: SAR versus liquid depth, body: DECT US, antenna 2, headset and 0 mm distance, display towards the phantom (January 30, 2012; Ambient Temperature: 21.7° C; Liquid Temperature: 21.4° C).