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 KX-UDT121 (FCC ID: ACJ96NKX-UDT121) (IC: 216A-KXUDT121)

According to the FCC Requirements SAR Distribution Plots

April 19, 2012

IMST GmbH

Carl-Friedrich-Gauß-Str. 2

D-47475 Kamp-Lintfort

Customer

Panasonic System Networks Co., Ltd.

1 - 62, 4 - chome Minoshima, Hakata,

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 MEASUREMENT 3

2 SAR DISTRIBUTION PLOTS, BODY MEASUREMENTS 11

3 SAR Z-AXIS SCANS (VALIDATION) 15

4 SAR Z-AXIS SCANS (MEASUREMENTS) 16

dasy_report_fcc_DECT_1900_plots_1.0.doc/110.05.2006/ABo

1 SAR Distribution Plots, Head Measurement

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: UDT121_yplm_1_ant1.da4

DUT: Panasonic; Type: KX-UDT121;
Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.46 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
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 (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.004 mW/g
Cheek Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.17 V/m; Power Drift = 0.128 dB
Peak SAR (extrapolated) = 0.007 W/kg
SAR(1 g) = 0.0036 mW/g; SAR(10 g) = 0.00172 mW/g

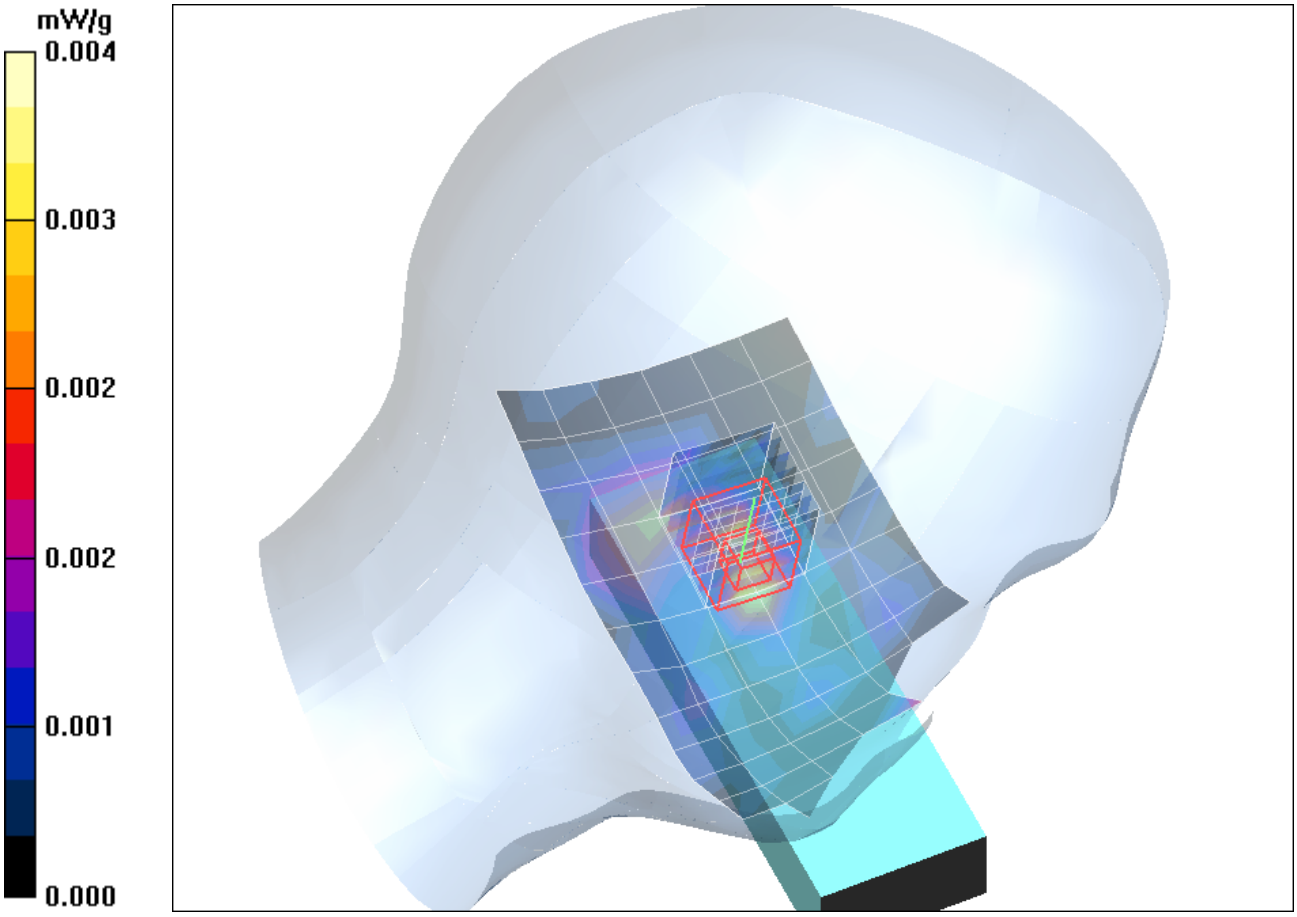

Fig. 1: SAR distribution for DECT US, channel 2, cheek position, left side of head, Antenna 1 (April 04, 2012; Ambient Temperature: 21.6°C; Liquid Temperature: 21.3°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: UDT121_yplm_2_ant1.da4

DUT: Panasonic; Type: KX-UDT121;
Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.46 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
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 (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.003 mW/g
Tilted Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.12 V/m; Power Drift = -0.128 dB
Peak SAR (extrapolated) = 0.007 W/kg
SAR(1 g) = 0.00244 mW/g; SAR(10 g) = 0.00112 mW/g

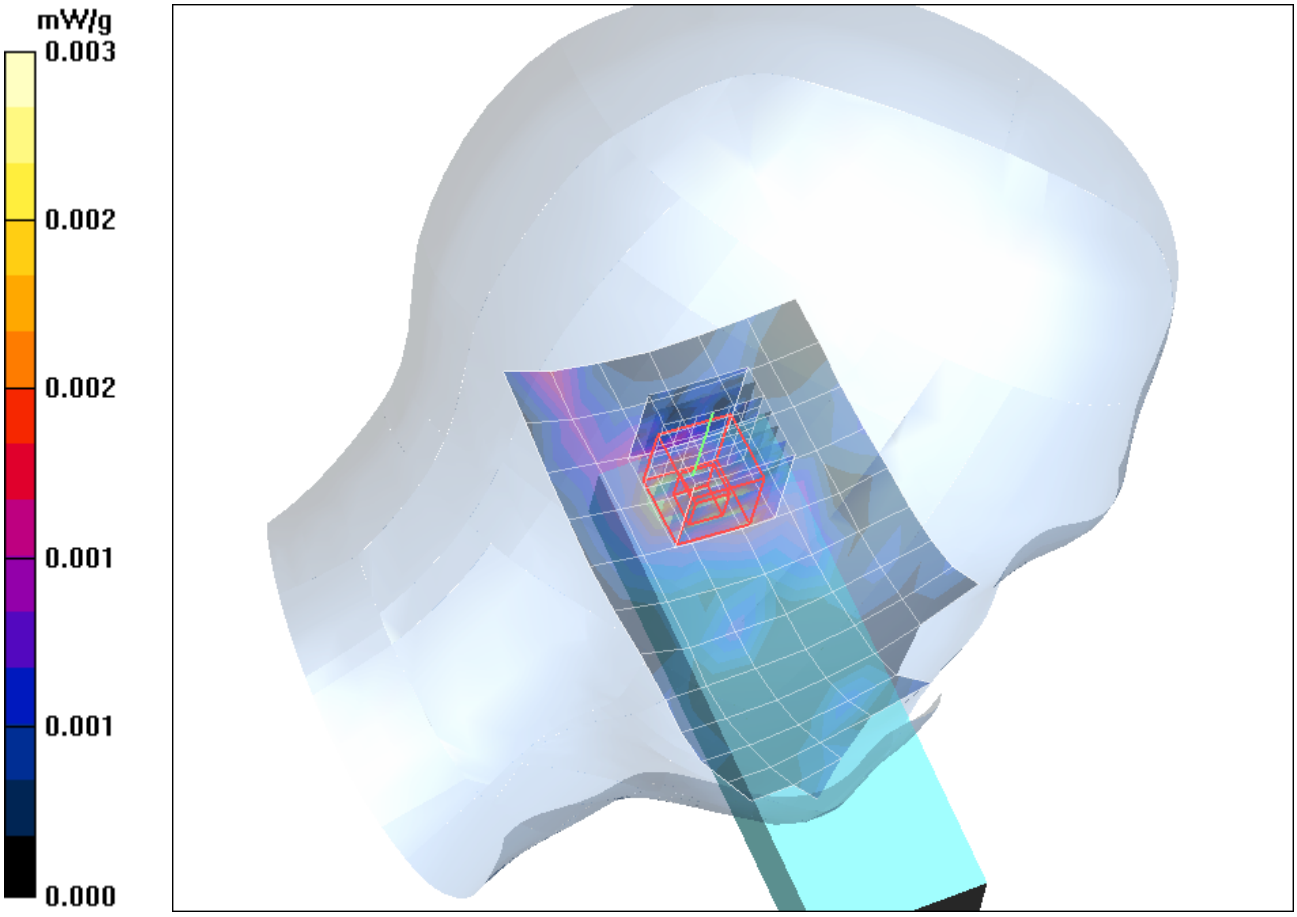

Fig. 2: SAR distribution for DECT US, channel 2, tilted position, left side of head, Antenna 1 (April 04, 2012; Ambient Temperature: 21.6°C; Liquid Temperature: 21.3°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: UDT121_yprm_1_ant1.da4

DUT: Panasonic; Type: KX-UDT121;
Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.46 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
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 (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.003 mW/g
Cheek Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.05 V/m; Power Drift = 0.181 dB
Peak SAR (extrapolated) = 0.022 W/kg
SAR(1 g) = 0.00429 mW/g; SAR(10 g) = 0.00149 mW/g
Maximum value of SAR (measured) = 0.005 mW/g

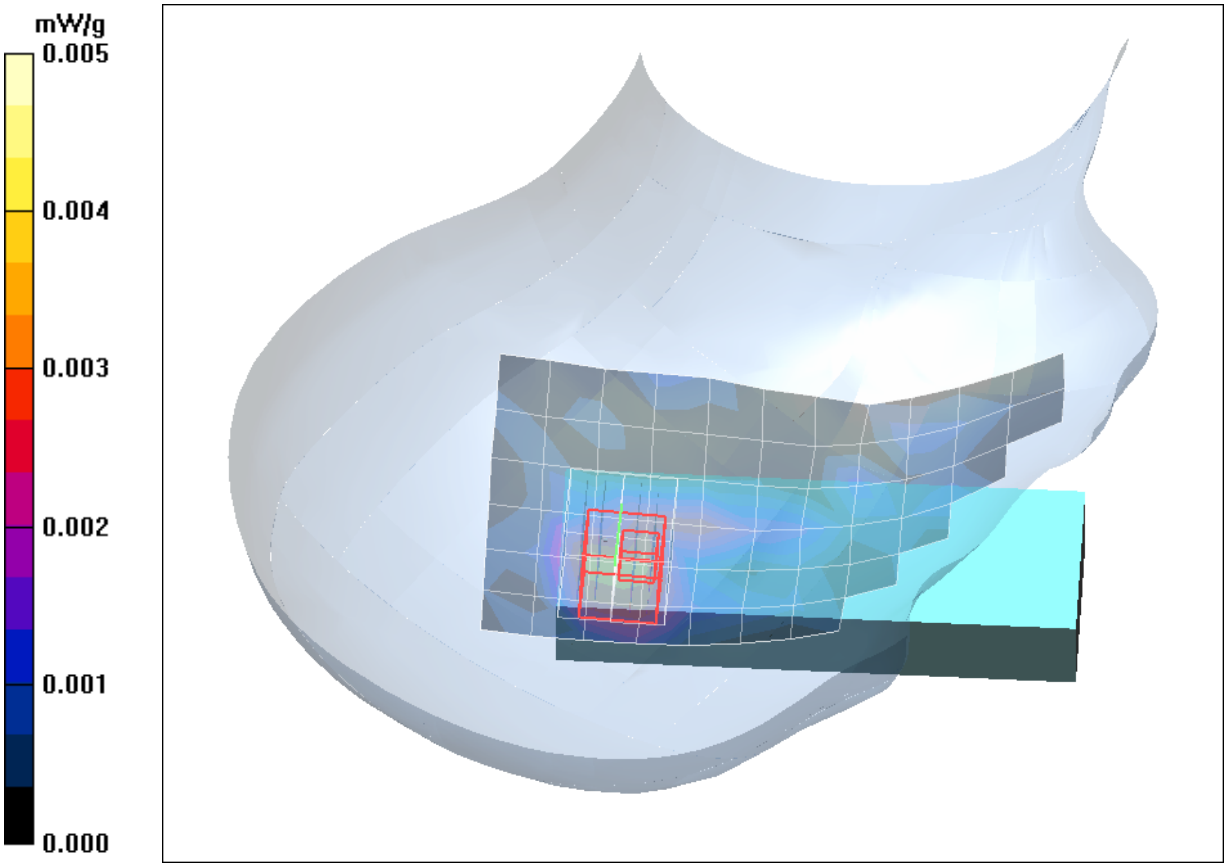

Fig. 3: SAR distribution for DECT US, channel 2, cheek position, right side of head, Antenna 1 (April 04, 2012; Ambient Temperature: 21.6°C; Liquid Temperature: 21.3°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: UDT121_yprm_2_ant1.da4

DUT: Panasonic; Type: KX-UDT121;
Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.46 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
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 (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.003 mW/g
Tilted Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.16 V/m; Power Drift = 0.143 dB
Peak SAR (extrapolated) = 0.010 W/kg
SAR(1 g) = 0.00259 mW/g; SAR(10 g) = 0.000774 mW/g
Maximum value of SAR (measured) = 0.004 mW/g

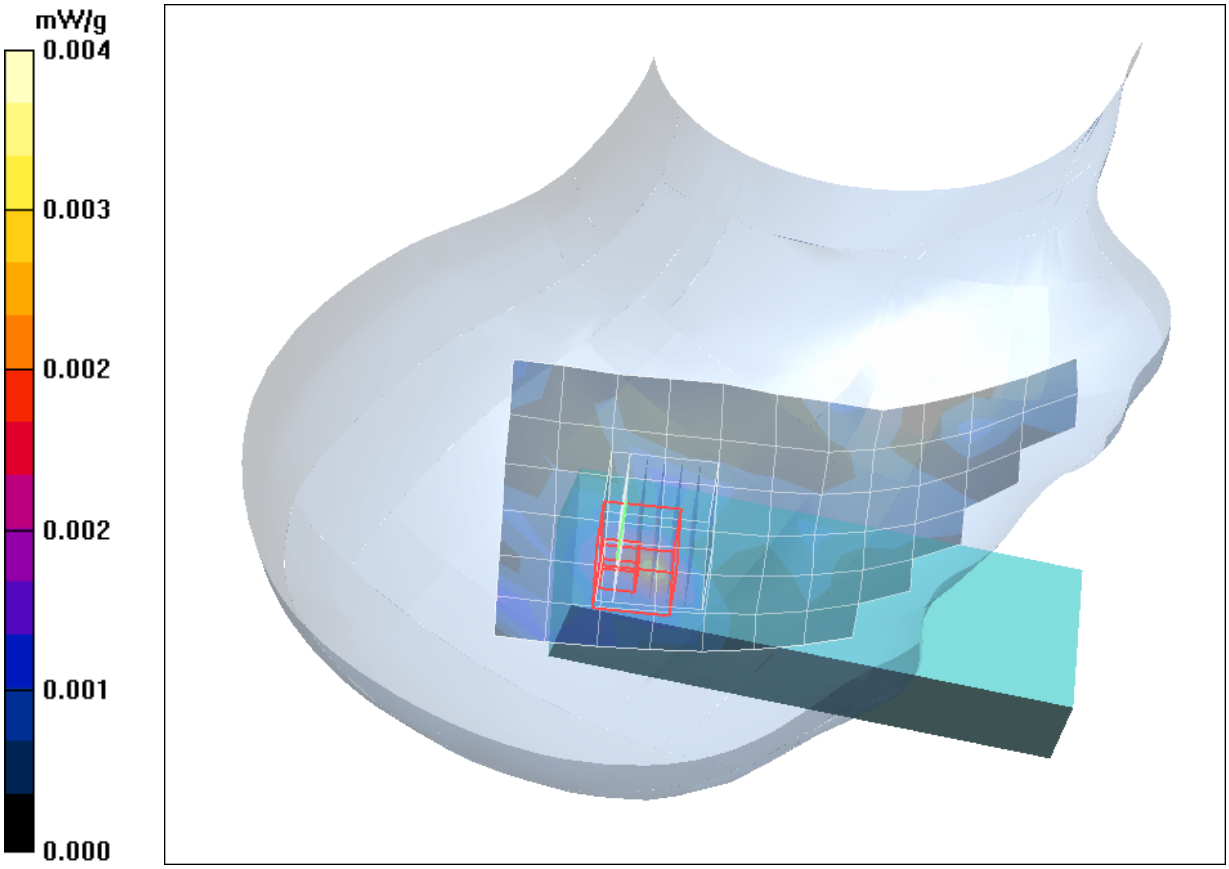

Fig. 4: SAR distribution for DECT US, channel 2, tilted position, right side of head, Antenna 1 (April 04, 2012; Ambient Temperature: 21.6°C; Liquid Temperature: 21.3°C)

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: UDT121_yplm_1_ant2.da4

DUT: Panasonic; Type: KX-UDT121;
Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.46 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
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 (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.008 mW/g
Cheek Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.775 V/m; Power Drift = 0.092 dB
Peak SAR (extrapolated) = 0.018 W/kg
SAR(1 g) = 0.00651 mW/g; SAR(10 g) = 0.0028 mW/g
Maximum value of SAR (measured) = 0.009 mW/g

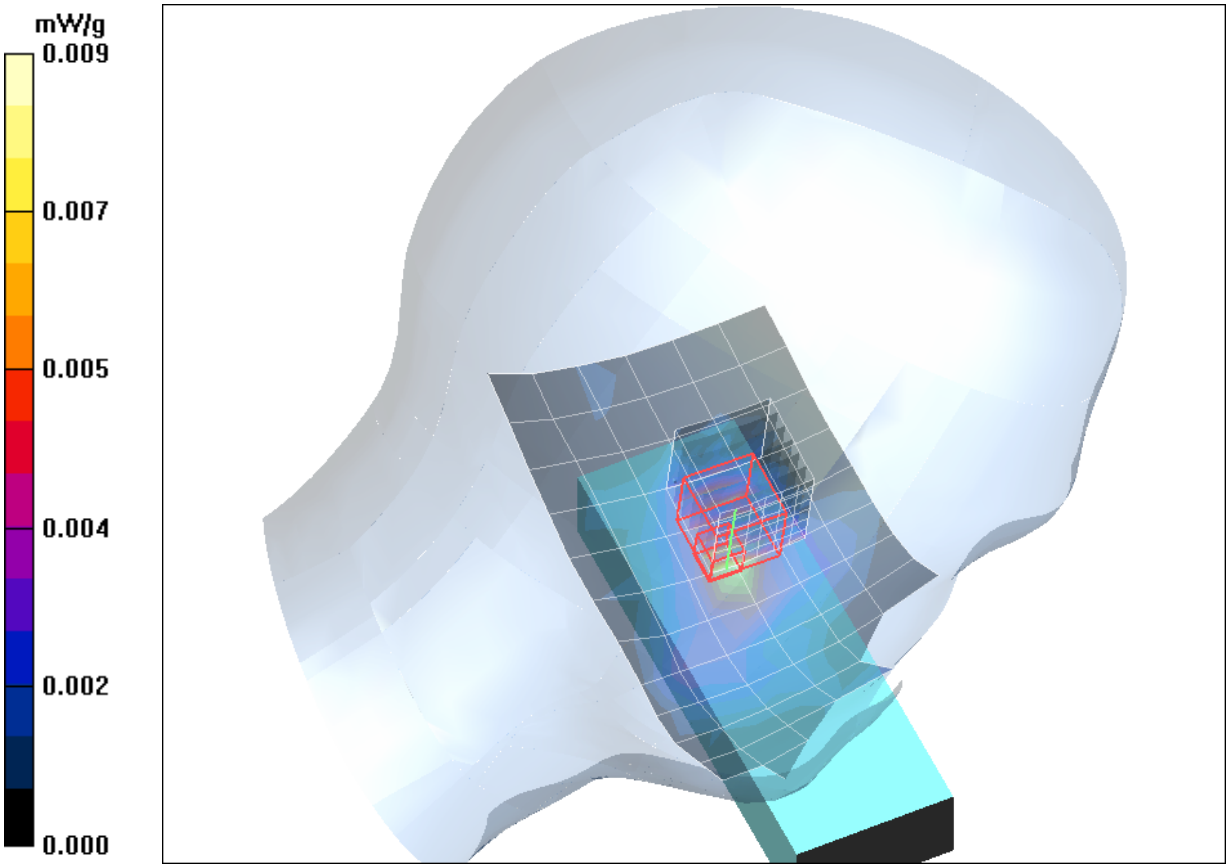

Fig. 5: SAR distribution for DECT US, channel 2, cheek position, left side of head, Antenna 2 (April 04, 2012; Ambient Temperature: 21.6°C; Liquid Temperature: 21.3°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: UDT121_yplm_2_ant2.da4

DUT: Panasonic; Type: KX-UDT121;
Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.46 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
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 (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.003 mW/g
Tilted Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.784 V/m; Power Drift = -0.068 dB
Peak SAR (extrapolated) = 0.007 W/kg
SAR(1 g) = 0.00208 mW/g; SAR(10 g) = 0.000544 mW/g
Maximum value of SAR (measured) = 0.004 mW/g

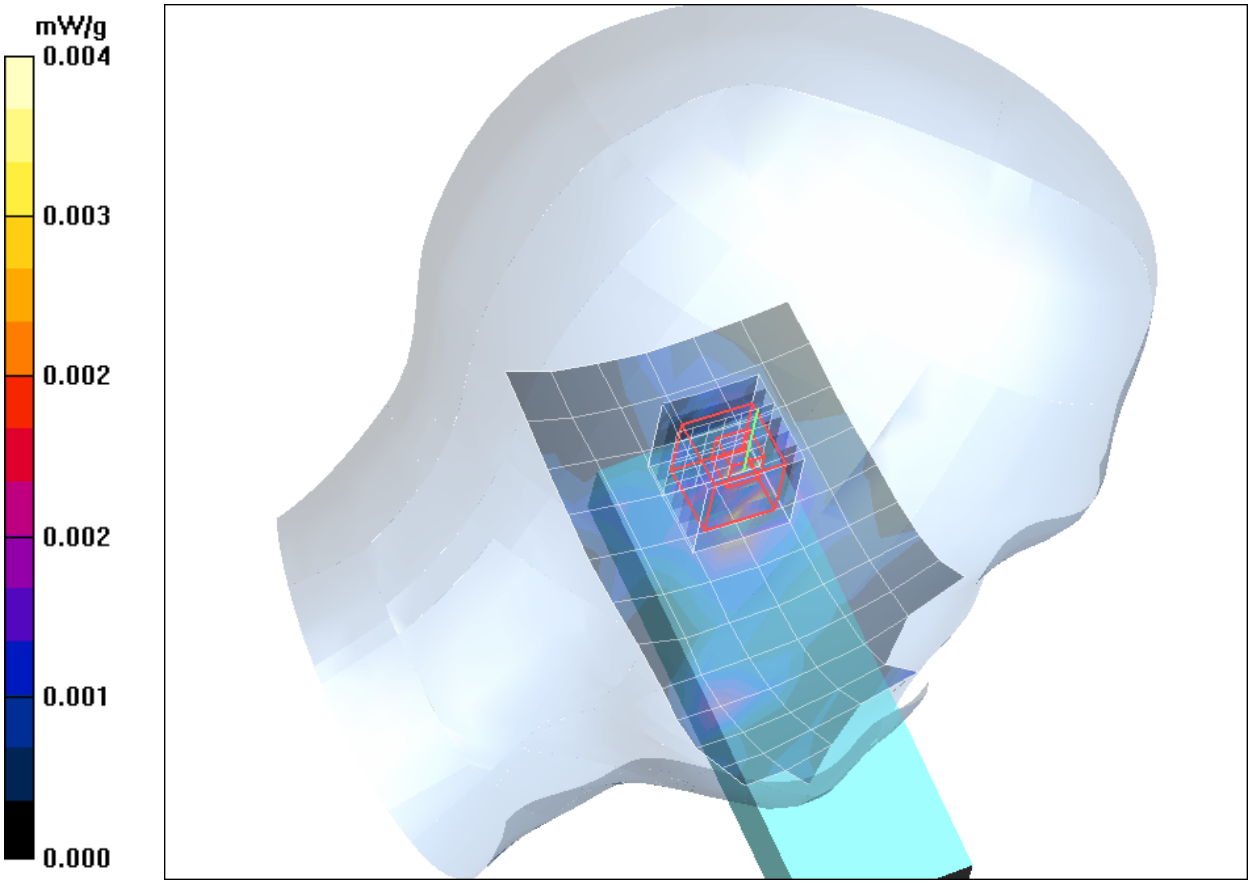

Fig. 6: SAR distribution for DECT US, channel 2, tilted position, left side of head, Antenna 2 (April 04, 2012; Ambient Temperature: 21.6°C; Liquid Temperature: 21.3°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: UDT121_yprm_1_ant2.da4

DUT: Panasonic; Type: KX-UDT121;
Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.46 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
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 (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.006 mW/g
Cheek Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.43 V/m; Power Drift = 0.056 dB
Peak SAR (extrapolated) = 0.021 W/kg
SAR(1 g) = 0.00523 mW/g; SAR(10 g) = 0.00203 mW/g
Maximum value of SAR (measured) = 0.007 mW/g

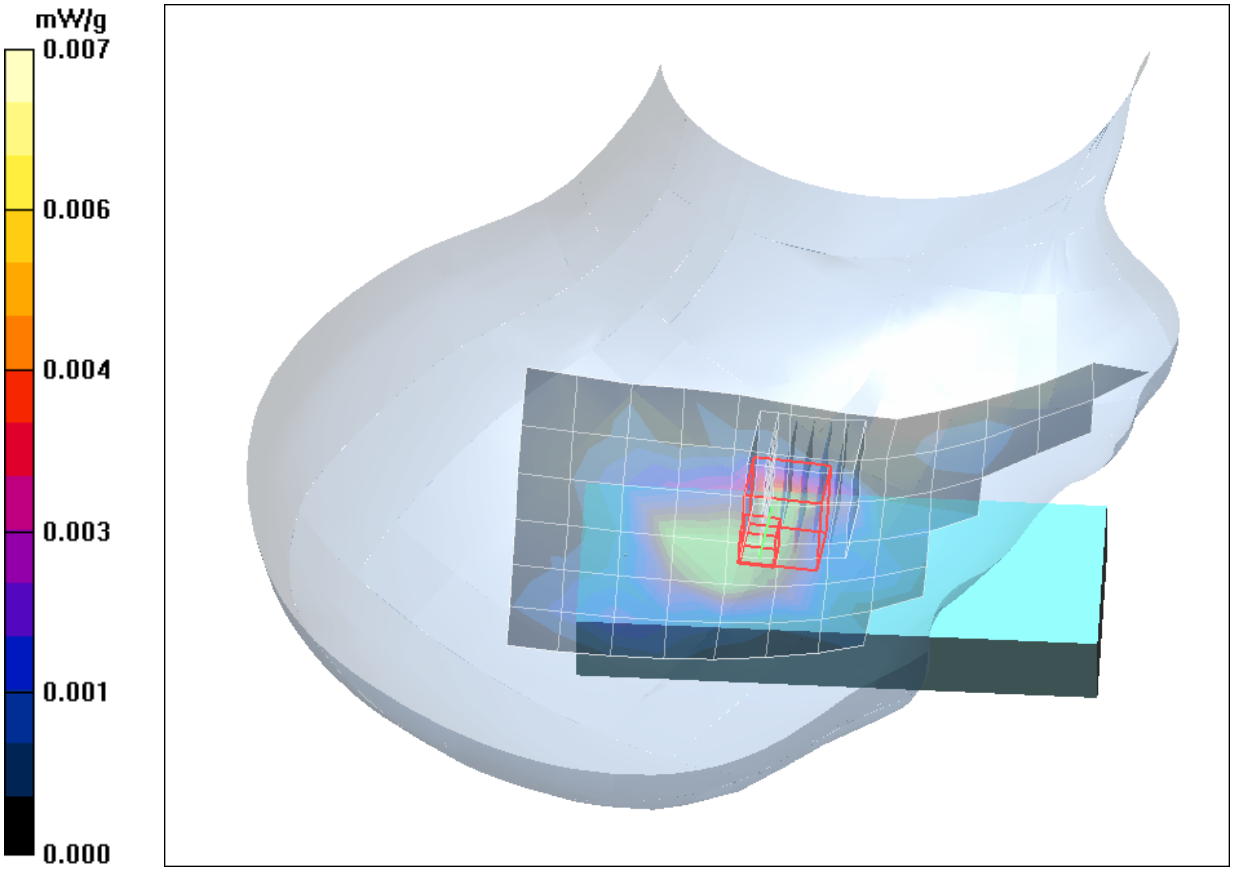

Fig. 7: SAR distribution for DECT US, channel 2, cheek position, right side of head, Antenna 2 (April 04, 2012; Ambient Temperature: 21.6°C; Liquid Temperature: 21.3°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: UDT121_yprm_2_ant2.da4

DUT: Panasonic; Type: KX-UDT121;
Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.46 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
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 (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.002 mW/g
Tilted Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.01 V/m; Power Drift = 0.027 dB
Peak SAR (extrapolated) = 0.011 W/kg
SAR(1 g) = 0.00244 mW/g; SAR(10 g) = 0.00121 mW/g
Maximum value of SAR (measured) = 0.003 mW/g

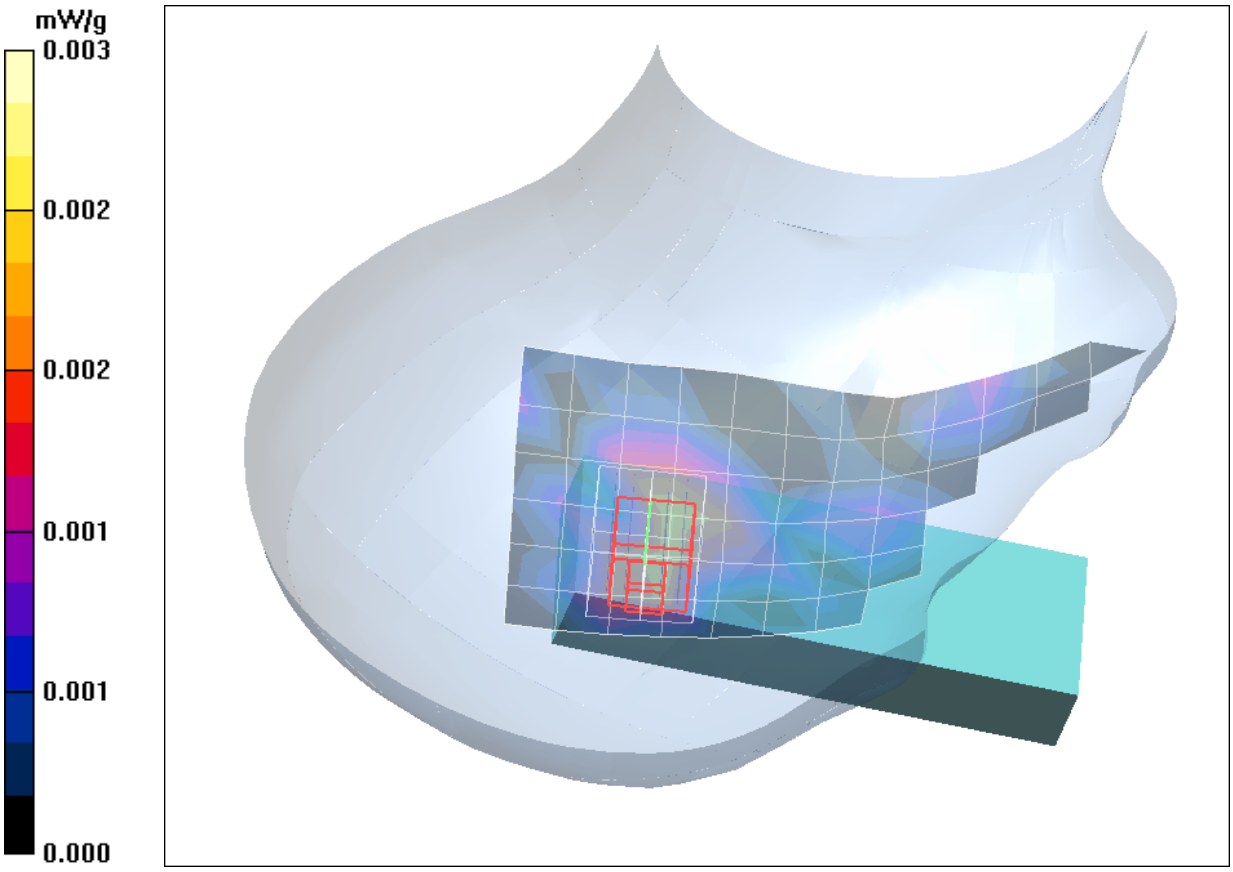

Fig. 8: SAR distribution for DECT US, channel 2, tilted position, right side of head, Antenna 2 (April 04, 2012; Ambient Temperature: 21.6°C; Liquid Temperature: 21.3°C)

2 SAR Distribution Plots, Body Measurements

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: UDT121_yphm_1_dspl_up_hs_ant1.da4

DUT: Panasonic; Type: KX-UDT121;
Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.56 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 - SN3536; ConvF(8.03, 8.03, 8.03); 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

Body/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.005 mW/g
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.855 V/m; Power Drift = -0.145 dB
Peak SAR (extrapolated) = 0.015 W/kg
SAR(1 g) = 0.00749 mW/g; SAR(10 g) = 0.00389 mW/g
Maximum value of SAR (measured) = 0.008 mW/g

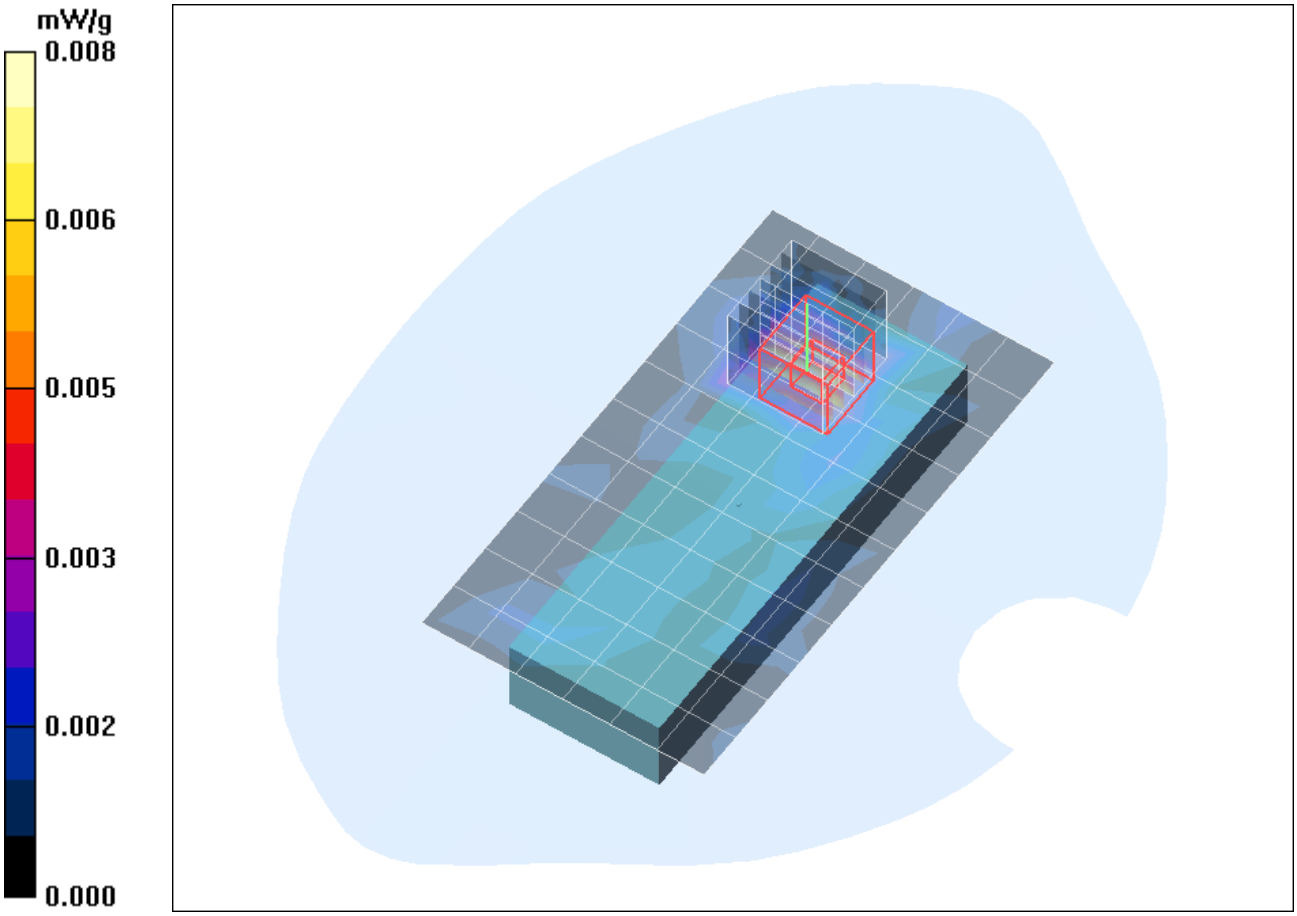

Fig. 9: SAR distribution for DECT US, channel 2, body worn configuration, display towards the phantom, with headset and 0 mm distance, Antenna 1 (April 12, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.4° C).

dasy_report_fcc_DECT_1900_plots_1.0.doc/110.05.2006/ABo

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name:
UDT121_yphm_2_dspl_down_hs_ant1.da4

DUT: Panasonic; Type: KX-UDT121;
Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.56 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 - SN3536; ConvF(8.03, 8.03, 8.03); 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

Body/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.010 mW/g
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.895 V/m; Power Drift = -0.113 dB
Peak SAR (extrapolated) = 0.015 W/kg
SAR(1 g) = 0.00893 mW/g; SAR(10 g) = 0.00457 mW/g

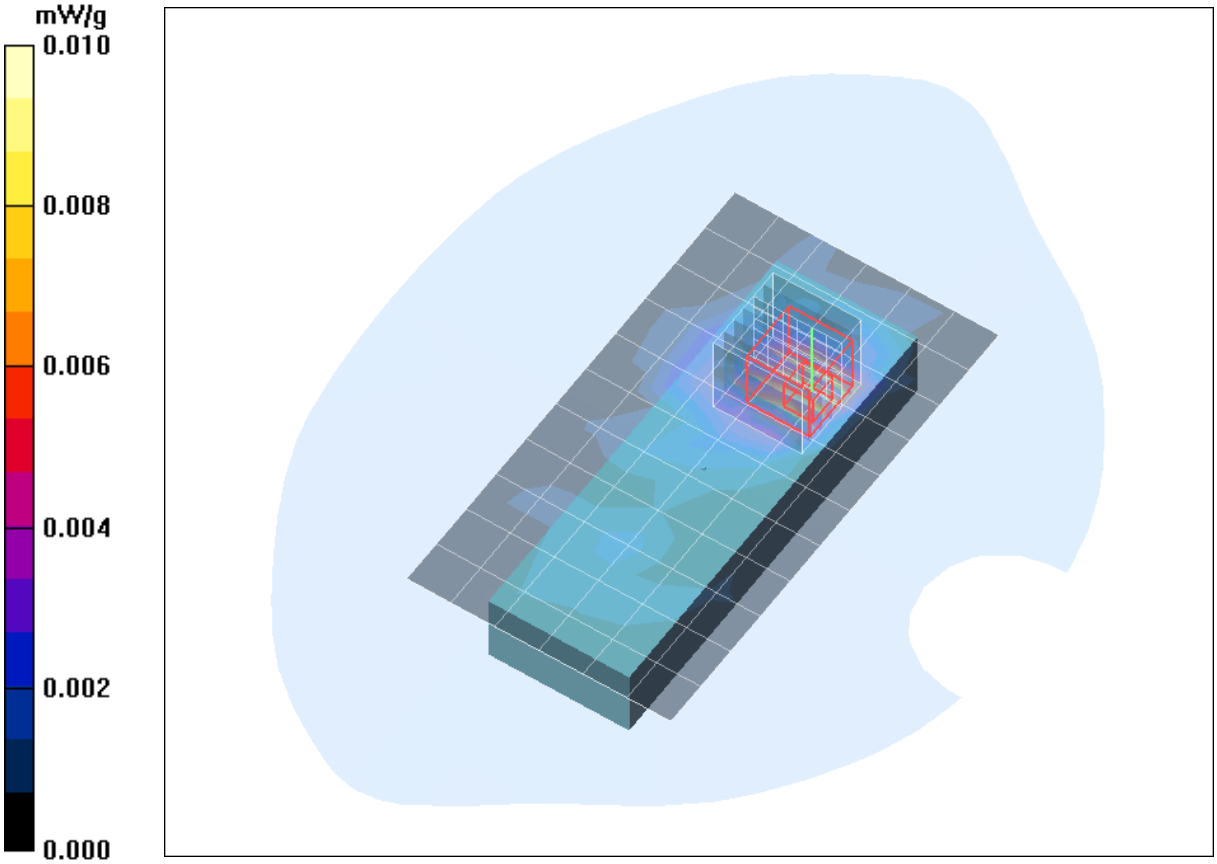

Fig. 10: SAR distribution for DECT US, channel 2, body worn configuration, display towards the ground, with headset and 0 mm distance, Antenna 1 (April 12, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.4° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: UDT121_yphm_1_up_down_hs_ant2.da4

DUT: Panasonic; Type: KX-UDT121;
Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.56 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 - SN3536; ConvF(8.03, 8.03, 8.03); 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

Body/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.012 mW/g
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.65 V/m; Power Drift = 0.161 dB
Peak SAR (extrapolated) = 0.044 W/kg
SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00619 mW/g
Maximum value of SAR (measured) = 0.013 mW/g

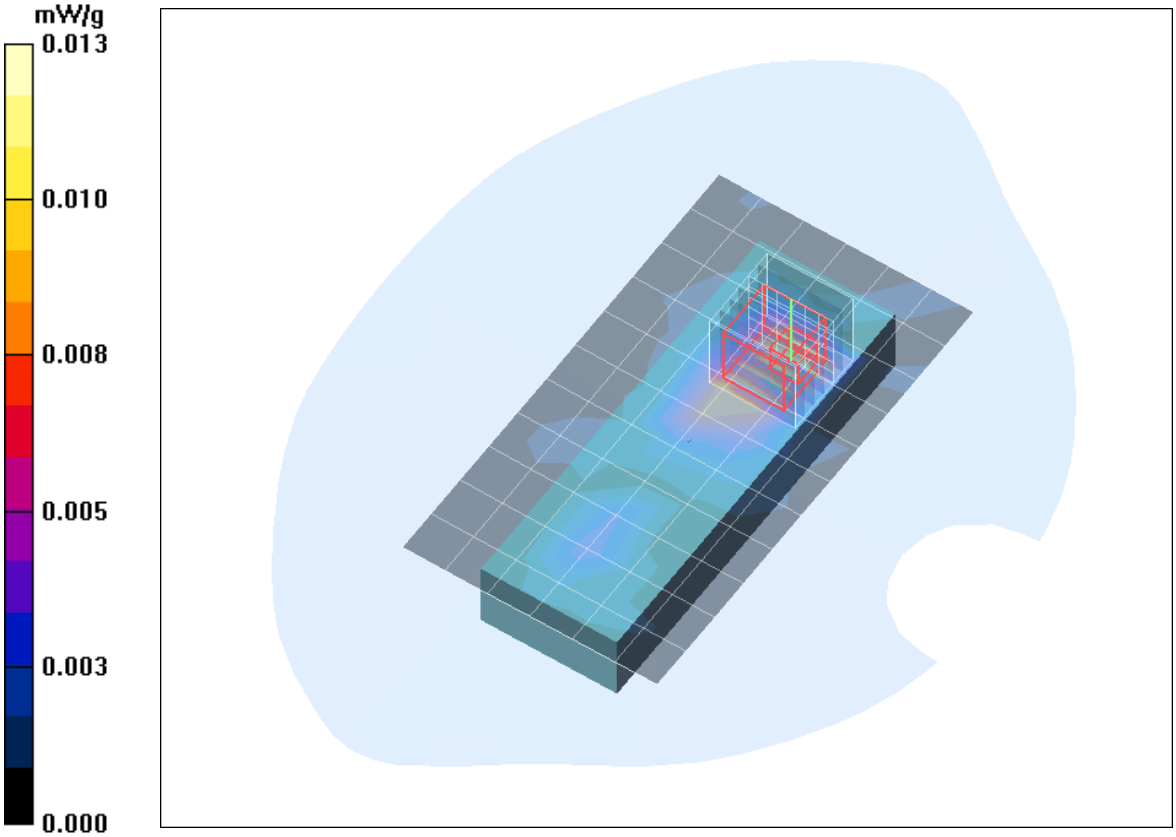

Fig. 11: SAR distribution for DECT US, channel 2, body worn configuration, display towards the phantom, with headset and 0 mm distance, Antenna 2 (April 12, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.4° C).

dasy_report_fcc_DECT_1900_plots_1.0.doc/110.05.2006/ABo

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name:
UDT121_yphm_2_dspl_down_hs_ant2.da4

DUT: Panasonic; Type: KX-UDT121;
Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.56 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 - SN3536; ConvF(8.03, 8.03, 8.03); 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

Body/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.007 mW/g
Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.05 V/m; Power Drift = 0.163 dB
Peak SAR (extrapolated) = 0.010 W/kg
SAR(1 g) = 0.006 mW/g; SAR(10 g) = 0.003 mW/g
Maximum value of SAR (measured) = 0.008 mW/g

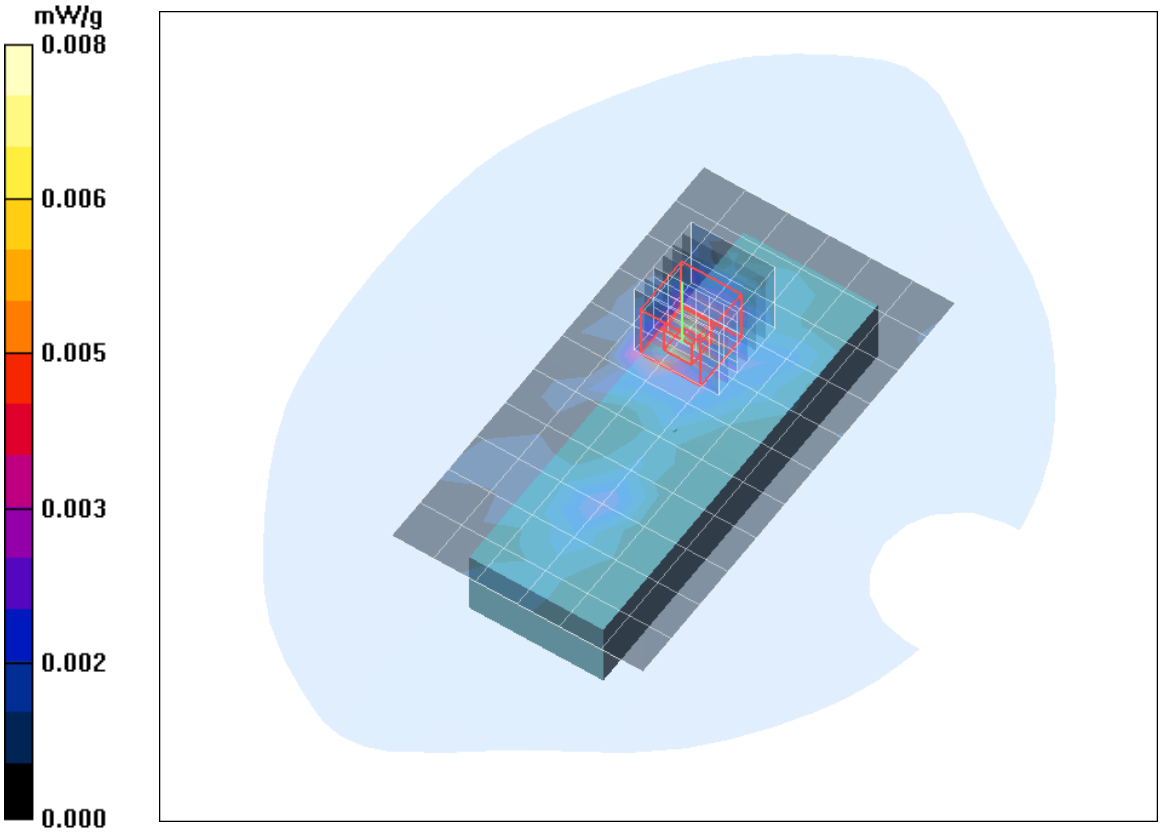

Fig. 12: SAR distribution for DECT US, channel 2, body worn configuration, display towards the ground, with headset and 0 mm distance, Antenna 2 (April 12, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.4° C).

dasy_report_fcc_DECT_1900_plots_1.0.doc/110.05.2006/ABo

3 SAR Z-Axis Scans (Validation)

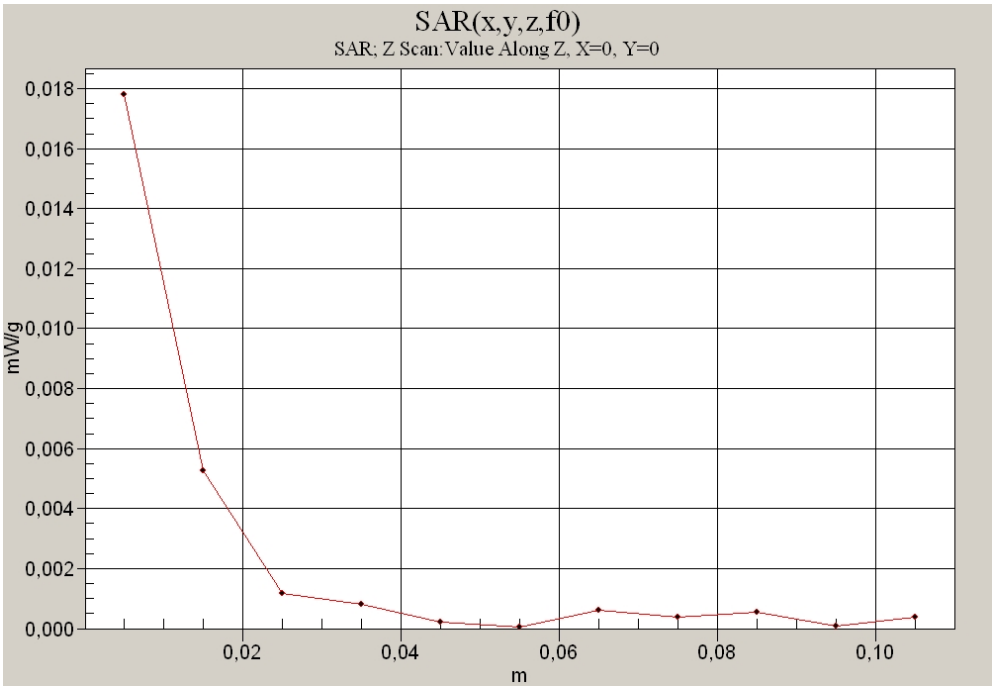

Fig. 13: SAR versus liquid depth, 1900 MHz, head (April 04, 2012; Ambient Temperature: 21.6° C; Liquid Temperature : 21.3° C).

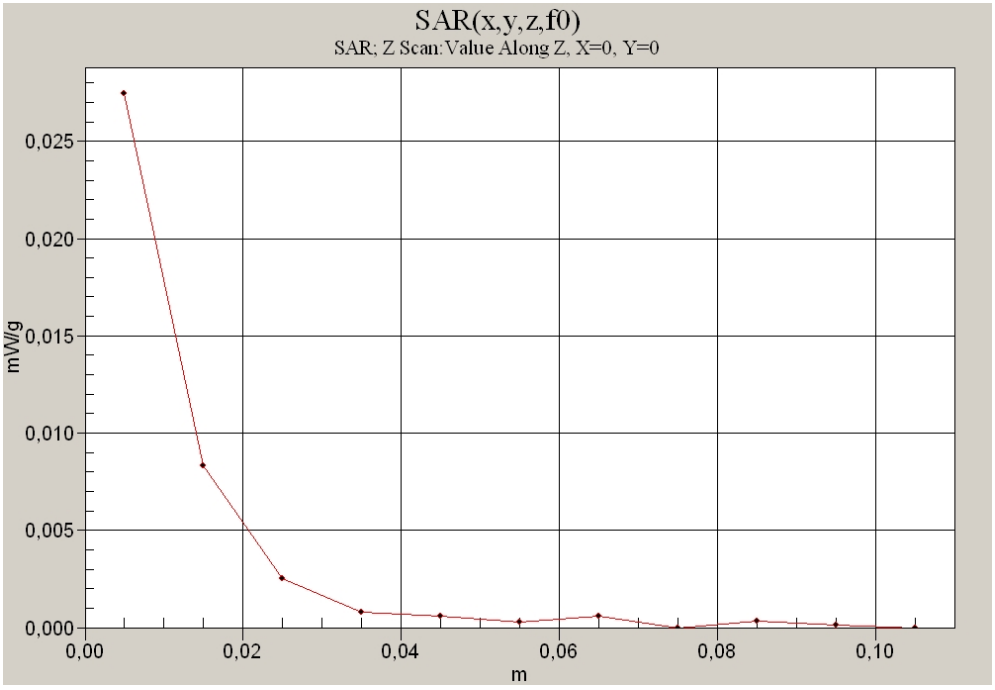

Fig. 14: SAR versus liquid depth, 1900 MHz, body (April 12, 2012; Ambient Temperature: 21.8° C; Liquid Temperature : 21.4° C).

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4 SAR Z-Axis Scans (Measurements)

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

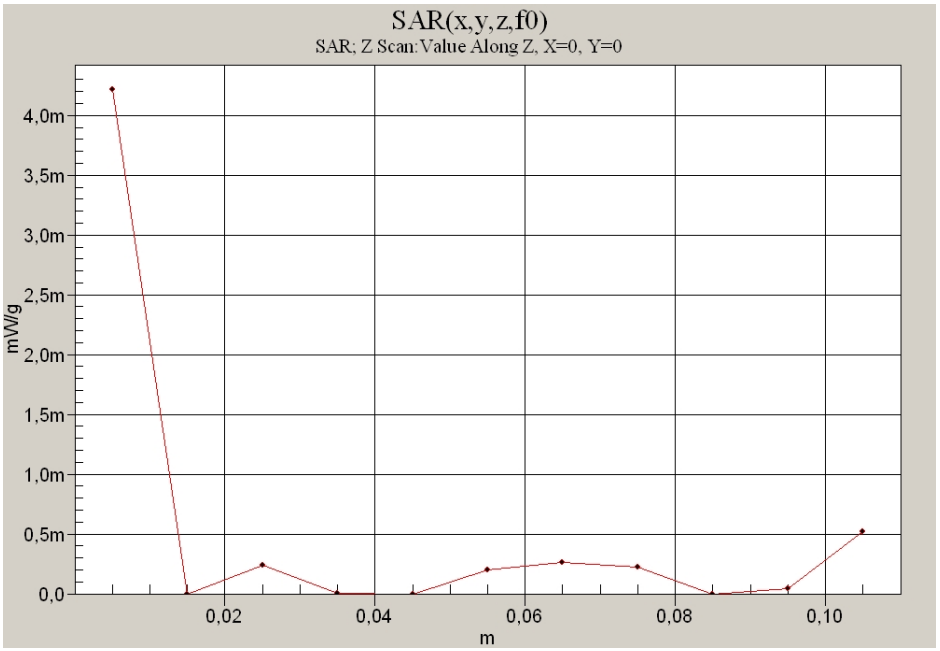

Fig. 15: SAR versus liquid depth, head: DECT US, channel 2, cheek position, left side of head (April 04, 2012; Ambient Temperature: 21.6° C; Liquid Temperature : 21.3° C).

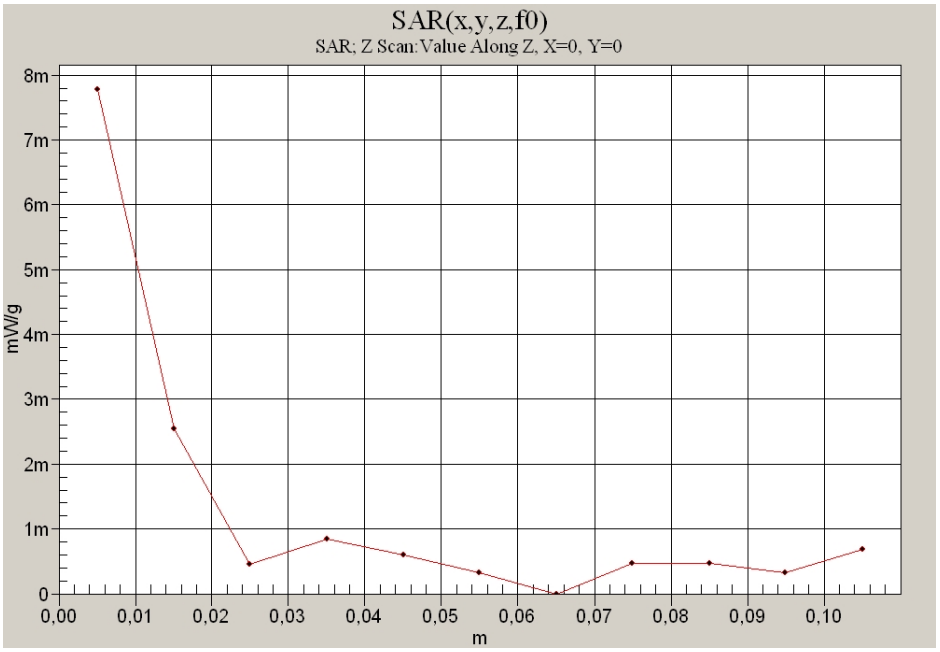

Fig. 16: SAR versus liquid depth, body: DECT US, antenna 2, headset and 0 mm distance, display towards the phantom (April 12, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.4° C).

dasy_report_fcc_DECT_1900_plots_1.0.doc/110.05.2006/ABo