Deutscher Akkreditierungs Rat

DAT-P-152/98-01

Appendix for the Report

Dosimetric Assessment of the Ascom DH4 (FCC ID: BXZDH4)

According to the FCC Requirements

SAR Distribution Plots

September 12, 2008

IMST GmbH

Carl-Friedrich-Gauß-Str. 2

D-47475 Kamp-Lintfort

Customer

Ascom Sweden AB

Wireless Solution P.O. Box 8783

SE-40276 Gøteborg

Table of Contents

1 SAR Distribution Plots, Head Measurements, Antenna 1

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: 117_bplm_1_ant1.da4

DUT: ascom; Type: DH4; Serial: 0364702952117
Program Name: Cheek Left

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.44 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(5.01, 5.01, 5.01); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Cheek Left/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.069 mW/g
Cheek Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.02 V/m; Power Drift = 0.107 dB
Peak SAR (extrapolated) = 0.104 W/kg
SAR(1 g) = 0.072 mW/g; SAR(10 g) = 0.042 mW/g
Maximum value of SAR (measured) = 0.080 mW/g

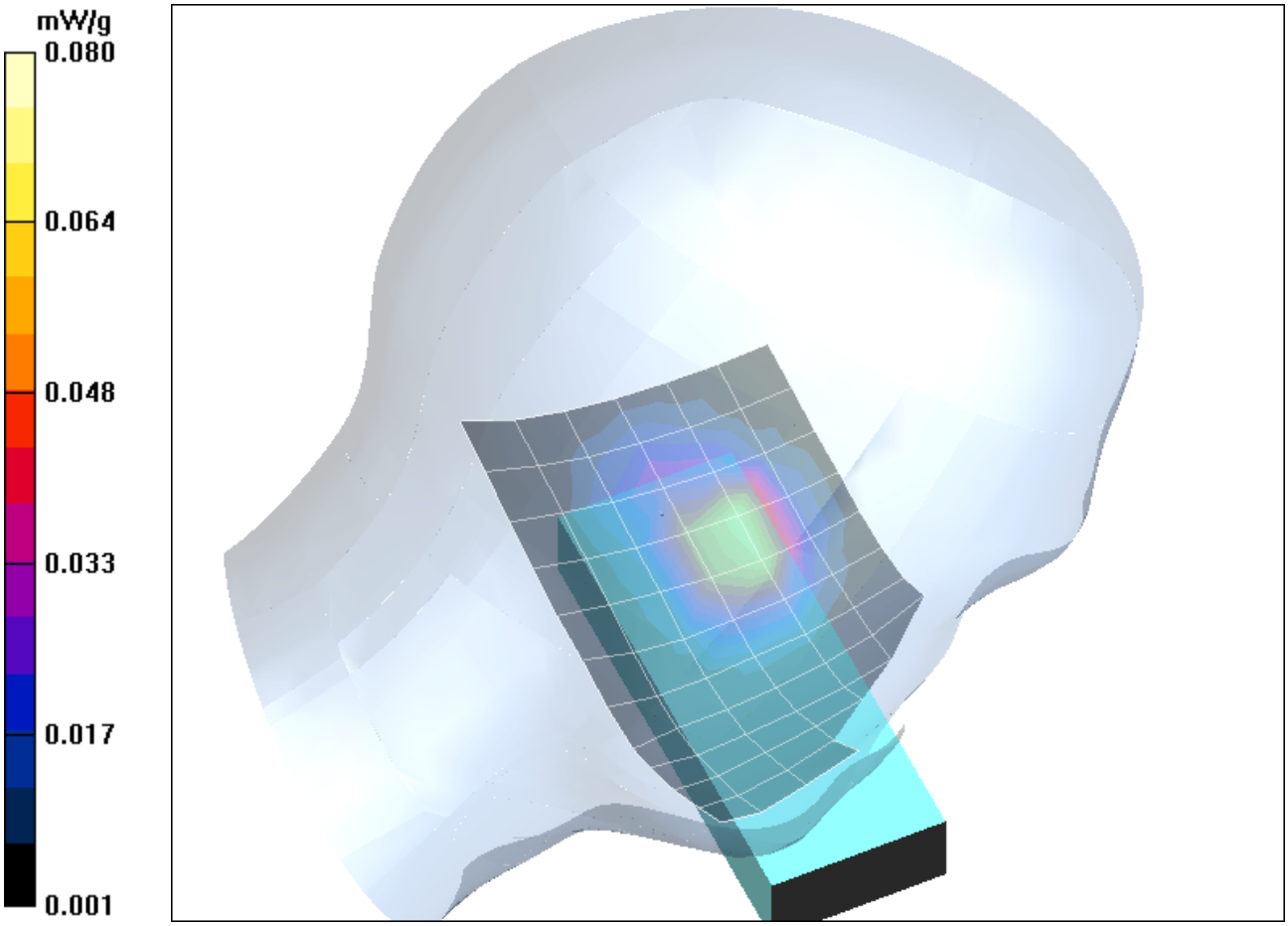

Fig. 1: SAR distribution for DECT US, channel 2, cheek position, left side of head (September 08, 2008; Ambient Temperature: 22.8°C; Liquid Temperature: 21.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: 117_bplm_2_ant1.da4

DUT: Ascom; Type: DH4; Serial: 0364702952117
Program Name: Tilted Left

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.44 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(5.01, 5.01, 5.01); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Tilted Left/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.036 mW/g
Tilted Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.61 V/m; Power Drift = 0.155 dB
Peak SAR (extrapolated) = 0.059 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

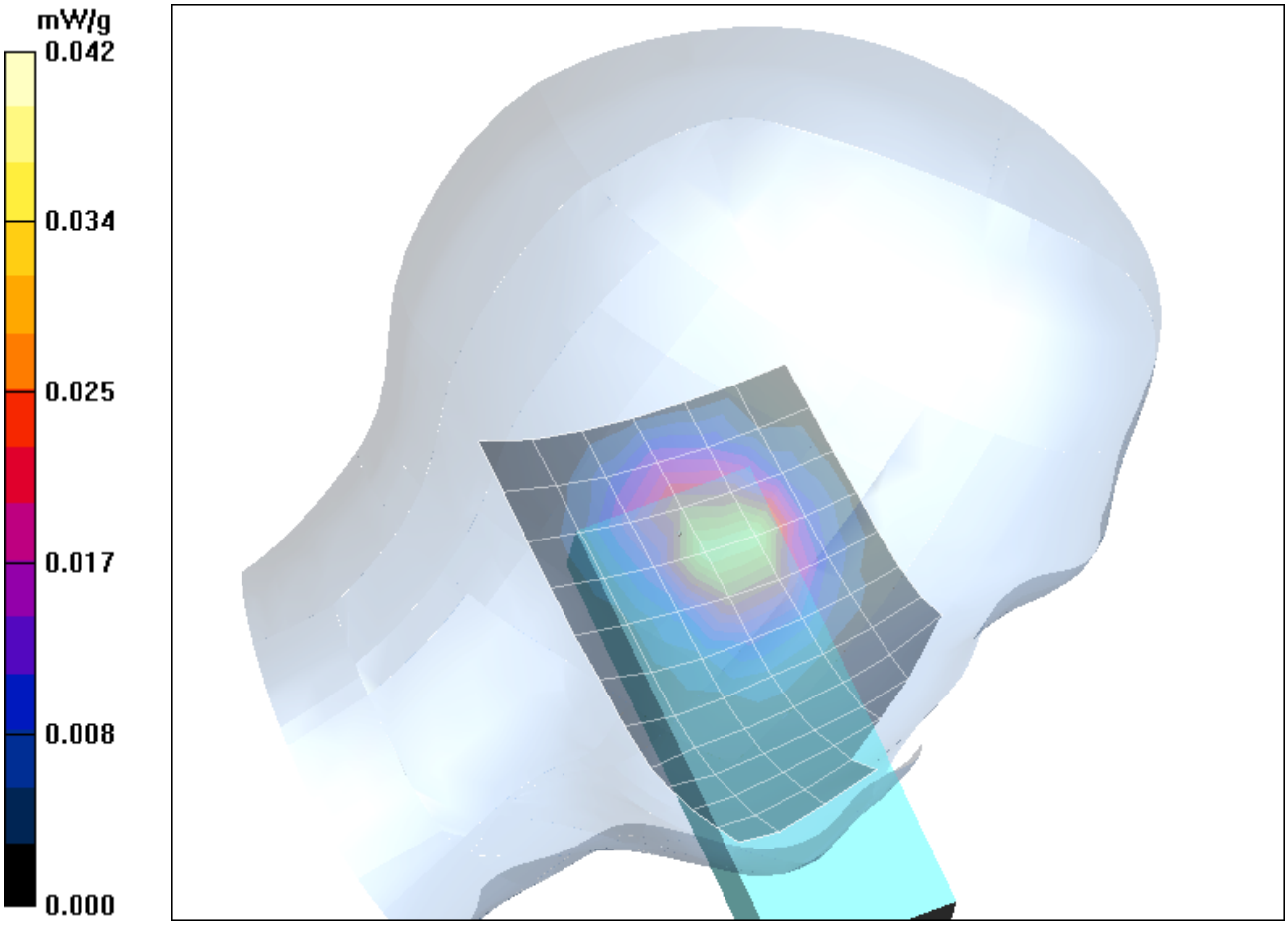

Fig. 2: SAR distribution for DECT US, channel 2, tilted position, left side of head (September 08, 2008; Ambient Temperature: 22.8°C; Liquid Temperature: 21.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: 117_bprm_1_ant1.da4

DUT: ascom; Type: DH4; Serial: 0364702952117
Program Name: Cheek Right

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.44 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(5.01, 5.01, 5.01); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Cheek Right/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.050 mW/g
Cheek Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.04 V/m; Power Drift = 0.180 dB
Peak SAR (extrapolated) = 0.069 W/kg
SAR(1 g) = 0.049 mW/g; SAR(10 g) = 0.030 mW/g
Maximum value of SAR (measured) = 0.054 mW/g

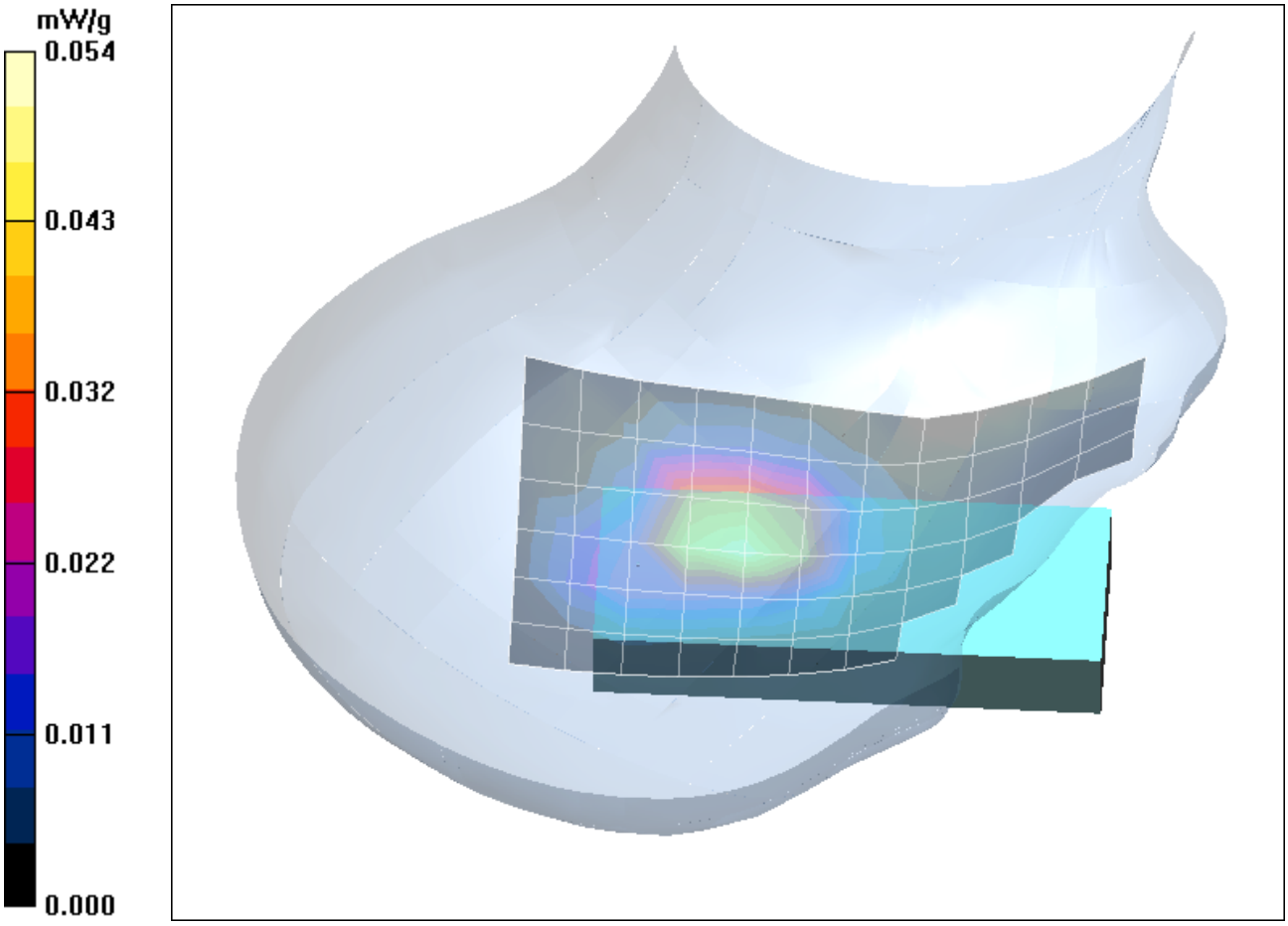

Fig. 3: SAR distribution for DECT US, channel 2, cheek position, right side of head (September 08, 2008; Ambient Temperature: 22.8°C; Liquid Temperature: 21.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: 117_bprm_2_ant1.da4

DUT: Ascom; Type: DH4; Serial: 0364702952117
Program Name: Cheek Right

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.44 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(5.01, 5.01, 5.01); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Tilted Right/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.035 mW/g
Tilted Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.98 V/m; Power Drift = 0.045 dB
Peak SAR (extrapolated) = 0.052 W/kg
SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.019 mW/g
Maximum value of SAR (measured) = 0.037 mW/g
Tilted Right/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.98 V/m; Power Drift = 0.045 dB
Peak SAR (extrapolated) = 0.043 W/kg
SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.010 mW/g
Maximum value of SAR (measured) = 0.027 mW/g

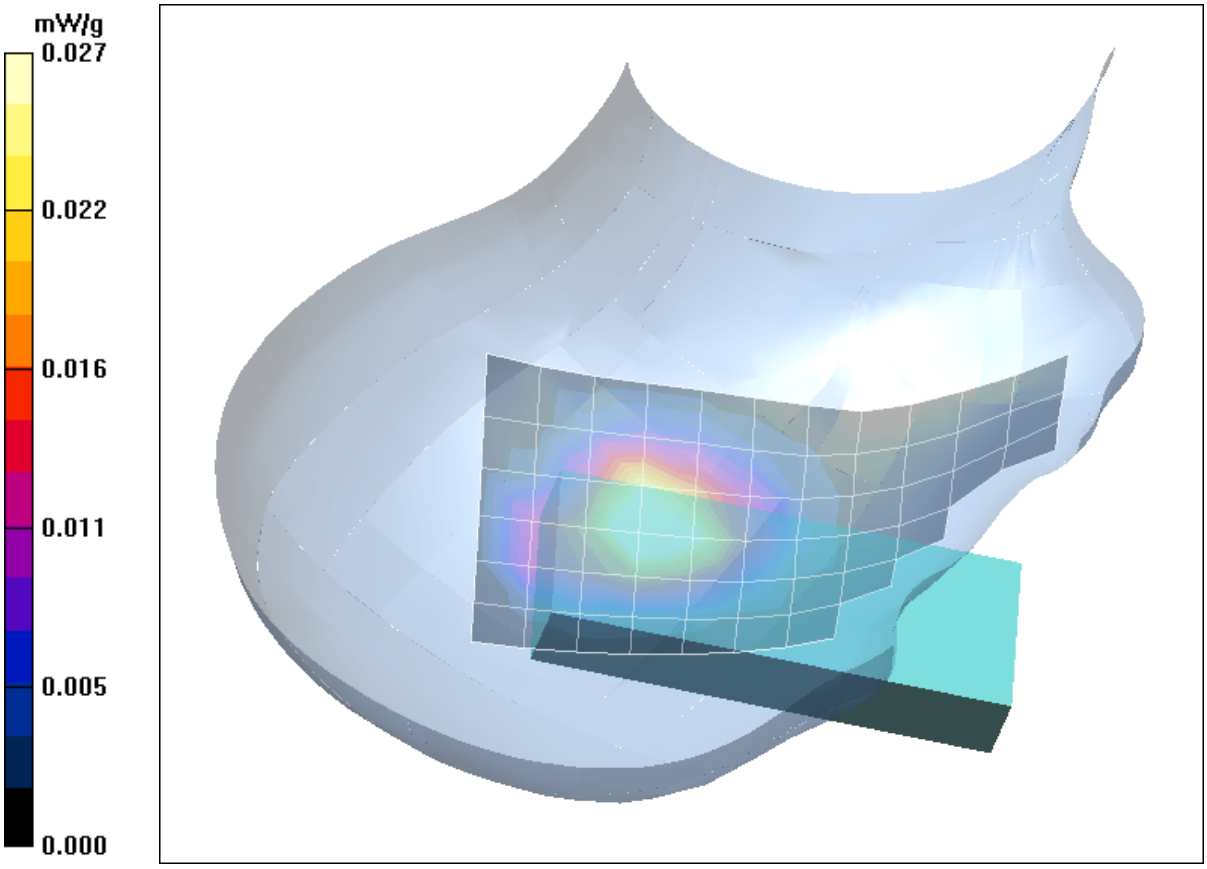

Fig. 4: SAR distribution for DECT US, channel 2, tilted position, right side of head (September 08, 2008; Ambient Temperature: 22.8°C; Liquid Temperature: 21.6°C)

2 SAR Distribution Plots, Head Measurements, Antenna 2

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: 117_bplm_1_ant2_wdh.da4

DUT: Ascom; Type: DH4; Serial: 0364702952117
Program Name: Cheek Left

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.44 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(5.01, 5.01, 5.01); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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 = 3.90 V/m; Power Drift = 0.062 dB
Peak SAR (extrapolated) = 0.072 W/kg
SAR(1 g) = 0.049 mW/g; SAR(10 g) = 0.029 mW/g
Maximum value of SAR (measured) = 0.054 mW/g

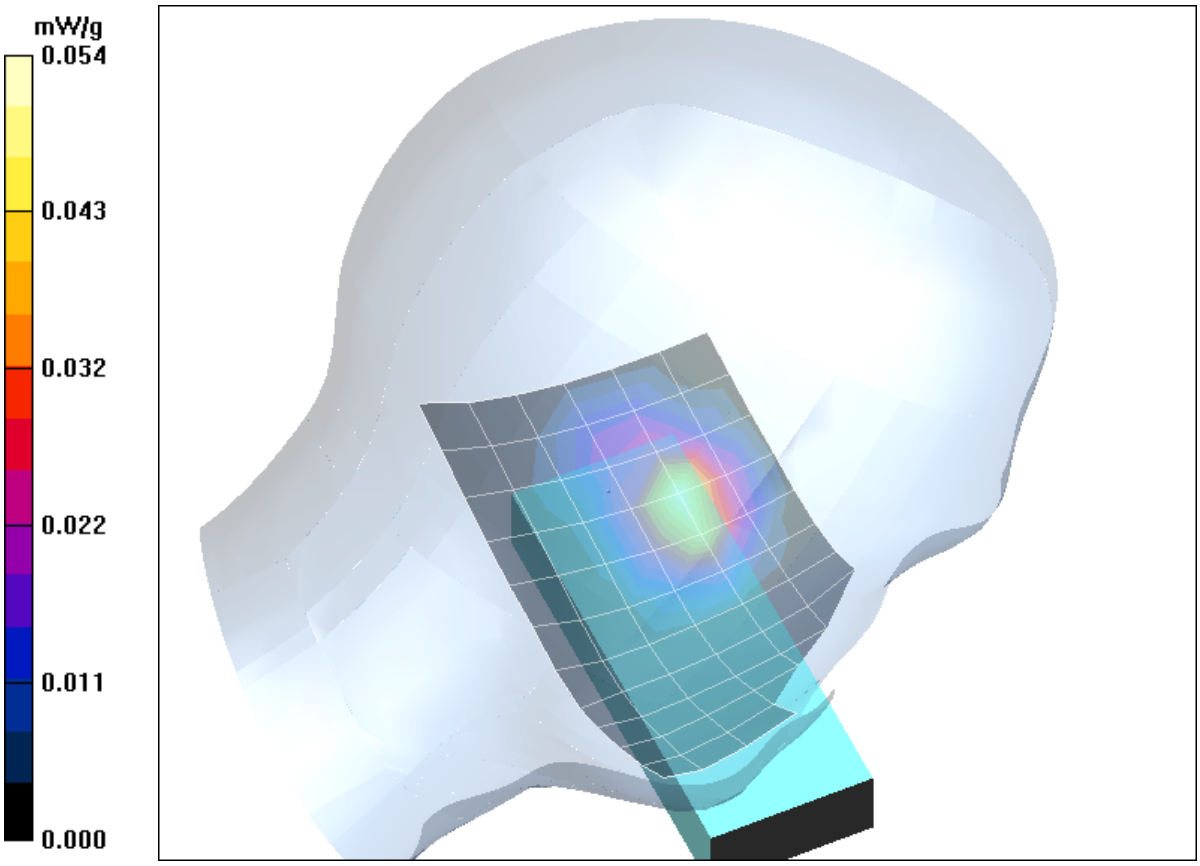

Fig. 5: SAR distribution for DECT US, channel 2, cheek position, left side of head (September 08, 2008; Ambient Temperature: 22.8°C; Liquid Temperature: 21.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: 117_bplm_2_ant2_wdh.da4

DUT: Ascom; Type: DH4; Serial: 0364702952117
Program Name: Cheek Left

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.44 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(5.01, 5.01, 5.01); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Cheek Left/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.029 mW/g
Cheek Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.69 V/m; Power Drift = 0.105 dB
Peak SAR (extrapolated) = 0.043 W/kg
SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.016 mW/g
Maximum value of SAR (measured) = 0.030 mW/g
Cheek Left/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.69 V/m; Power Drift = 0.105 dB
Peak SAR (extrapolated) = 0.042 W/kg
SAR(1 g) = 0.022 mW/g; SAR(10 g) = 0.012 mW/g

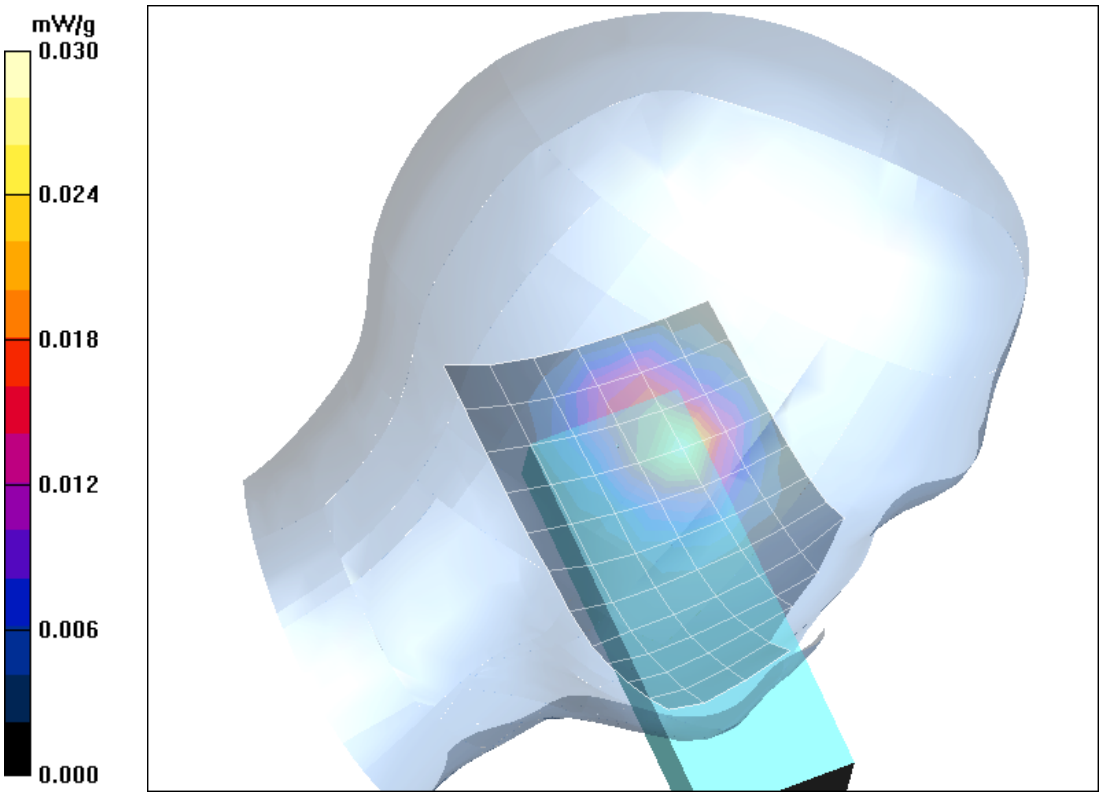

Fig. 6: SAR distribution for DECT US, channel 2, tilted position, left side of head (September 08, 2008; Ambient Temperature: 22.8°C; Liquid Temperature: 21.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: 117_bprm_1_ant2_wdh.da4

DUT: Ascom; Type: DH4; Serial: 0364702952117
Program Name: Cheek Right

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.44 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(5.01, 5.01, 5.01); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Cheek Right/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.032 mW/g
Cheek Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.31 V/m; Power Drift = 0.198 dB
Peak SAR (extrapolated) = 0.045 W/kg
SAR(1 g) = 0.032 mW/g; SAR(10 g) = 0.020 mW/g
Maximum value of SAR (measured) = 0.035 mW/g
Cheek Right/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.31 V/m; Power Drift = 0.198 dB
Peak SAR (extrapolated) = 0.045 W/kg
SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.0085 mW/g

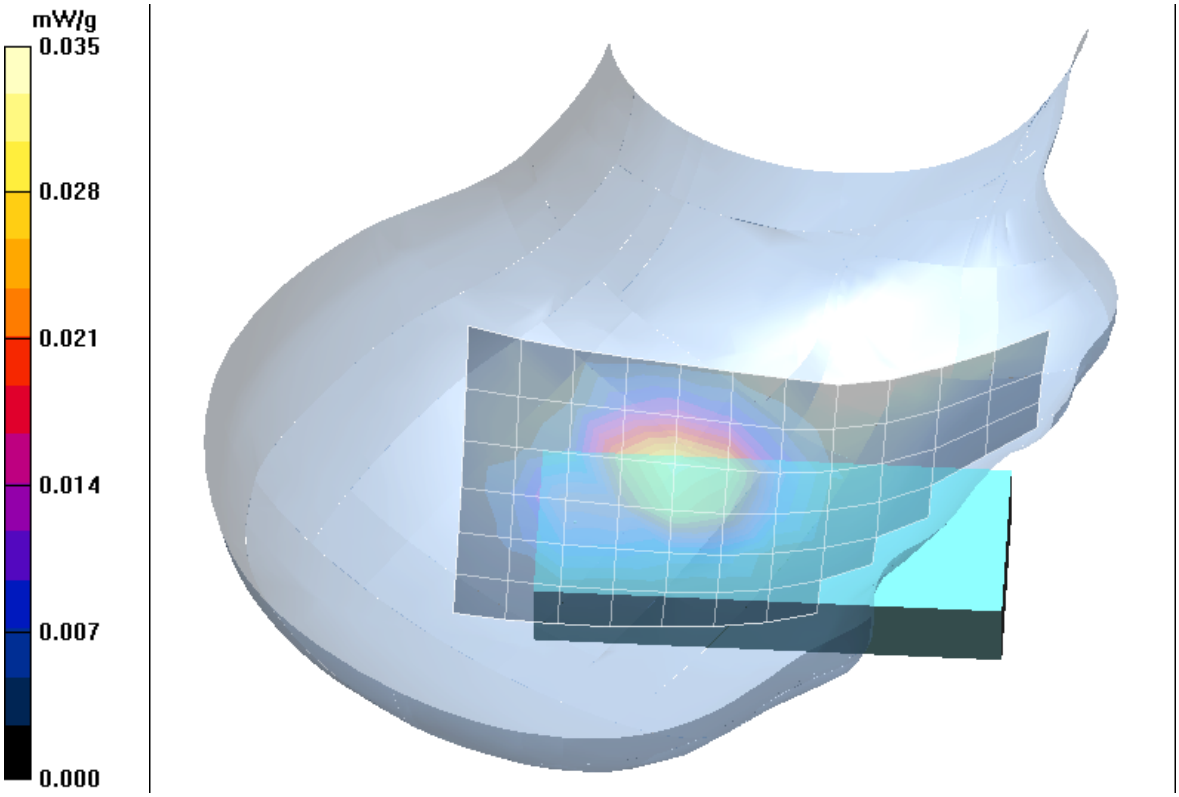

Fig. 7: SAR distribution for DECT US, channel 2, cheek position, right side of head (September 08, 2008; Ambient Temperature: 22.8°C; Liquid Temperature: 21.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: 117_bprm_2_ant2_wdh.da4

DUT: Ascom; Type: DH4; Serial: 0364702952117
Program Name: Cheek Right

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1924.99 MHz; σ = 1.44 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(5.01, 5.01, 5.01); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Tilted Right/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.017 mW/g
Tilted Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.02 V/m; Power Drift = 0.117 dB
Peak SAR (extrapolated) = 0.031 W/kg
SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.011 mW/g
Maximum value of SAR (measured) = 0.022 mW/g
Tilted Right/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.02 V/m; Power Drift = 0.117 dB
Peak SAR (extrapolated) = 0.031 W/kg
SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.0067 mW/g

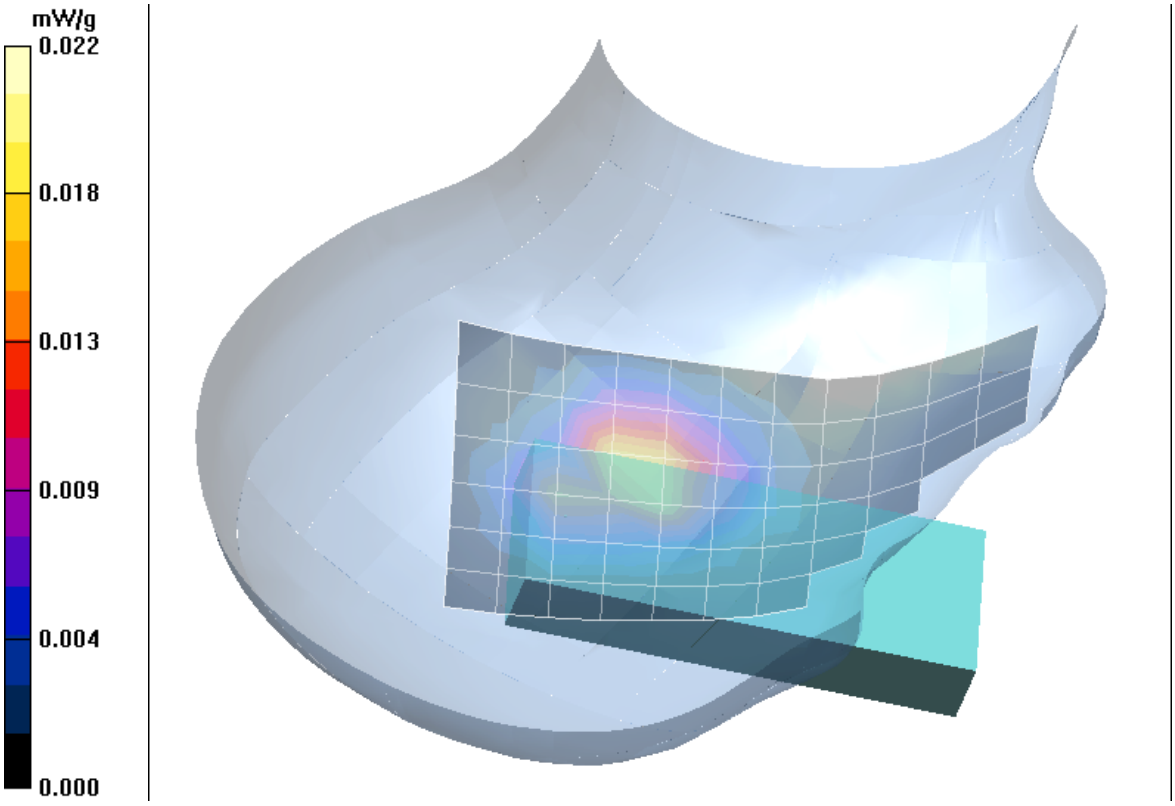

Fig. 8: SAR distribution for DECT US, channel 2, tilted position, right side of head (September 08, 2008; Ambient Temperature: 22.8°C; Liquid Temperature: 21.6°C)

3 SAR Distribution Plots, Body Measurements, Antenna 1

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name:
117bphm_1_ant1_Clip_HS_dsp_down.da4

DUT: Ascom; Type: DH4; Serial: 0364702952117
Program Name: Body Worn

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1925 MHz; σ = 1.56 mho/m; ε_r = 53; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(4.63, 4.63, 4.63); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.007 mW/g
Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.70 V/m; Power Drift = 0.128 dB
Peak SAR (extrapolated) = 0.014 W/kg
SAR(1 g) = 0.0081 mW/g; SAR(10 g) = 0.0045 mW/g
Maximum value of SAR (measured) = 0.009 mW/g

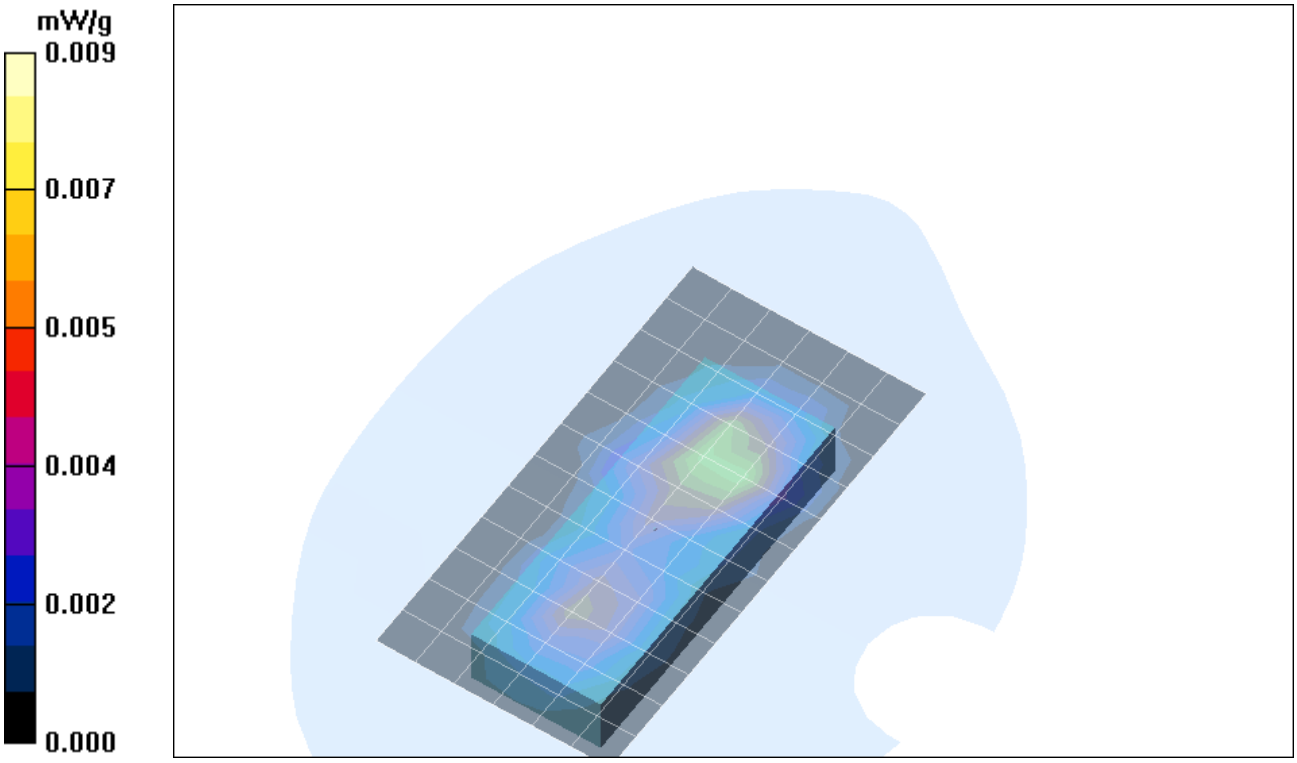

Fig. 9: SAR distribution for DECT US, channel 2, body worn configuration, display towards the ground, with headset and clip, 0 mm distance (September 09, 2008; Ambient Temperature: 22.6°C; Liquid Temperature: 21.5°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 117bphm_3_ant1_HS_dsp_down.da4

DUT: Ascom; Type: DH4; Serial: 0364702952117
Program Name: Body Worn

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1925 MHz; σ = 1.56 mho/m; ε_r = 53; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(4.63, 4.63, 4.63); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.022 mW/g
Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.53 V/m; Power Drift = 0.048 dB
Peak SAR (extrapolated) = 0.031 W/kg
SAR(1 g) = 0.021 mW/g; SAR(10 g) = 0.012 mW/g
Body Worn/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.53 V/m; Power Drift = 0.048 dB
Peak SAR (extrapolated) = 0.014 W/kg
SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.0065 mW/g
Maximum value of SAR (measured) = 0.012 mW/g

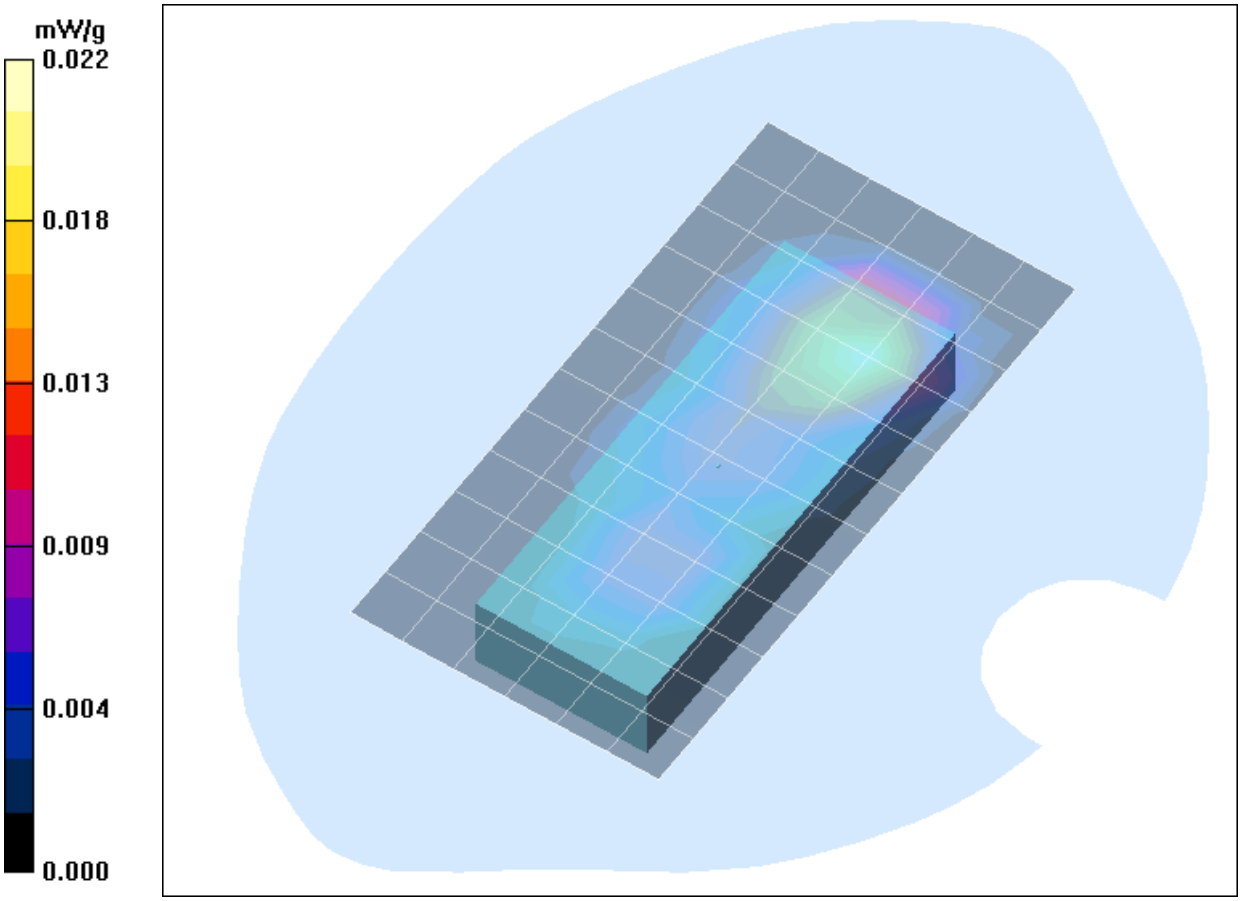

Fig. 10: SAR distribution for DECT US, channel 2, body worn configuration, display towards the ground, with headset, 0 mm distance (September 09, 2008; Ambient Temperature: 22.6°C; Liquid Temperature: 21.5°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 117bphm_2_ant1_Clip_HS_dsp_up.da4

DUT: Ascom; Type: DH4; Serial: 0364702952117
Program Name: Body Worn

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1925 MHz; σ = 1.56 mho/m; ε_r = 53; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(4.63, 4.63, 4.63); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.032 mW/g
Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.43 V/m; Power Drift = 0.083 dB
Peak SAR (extrapolated) = 0.045 W/kg
SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.018 mW/g
Body Worn/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.43 V/m; Power Drift = 0.083 dB
Peak SAR (extrapolated) = 0.042 W/kg
SAR(1 g) = 0.022 mW/g; SAR(10 g) = 0.012 mW/g
Maximum value of SAR (measured) = 0.027 mW/g

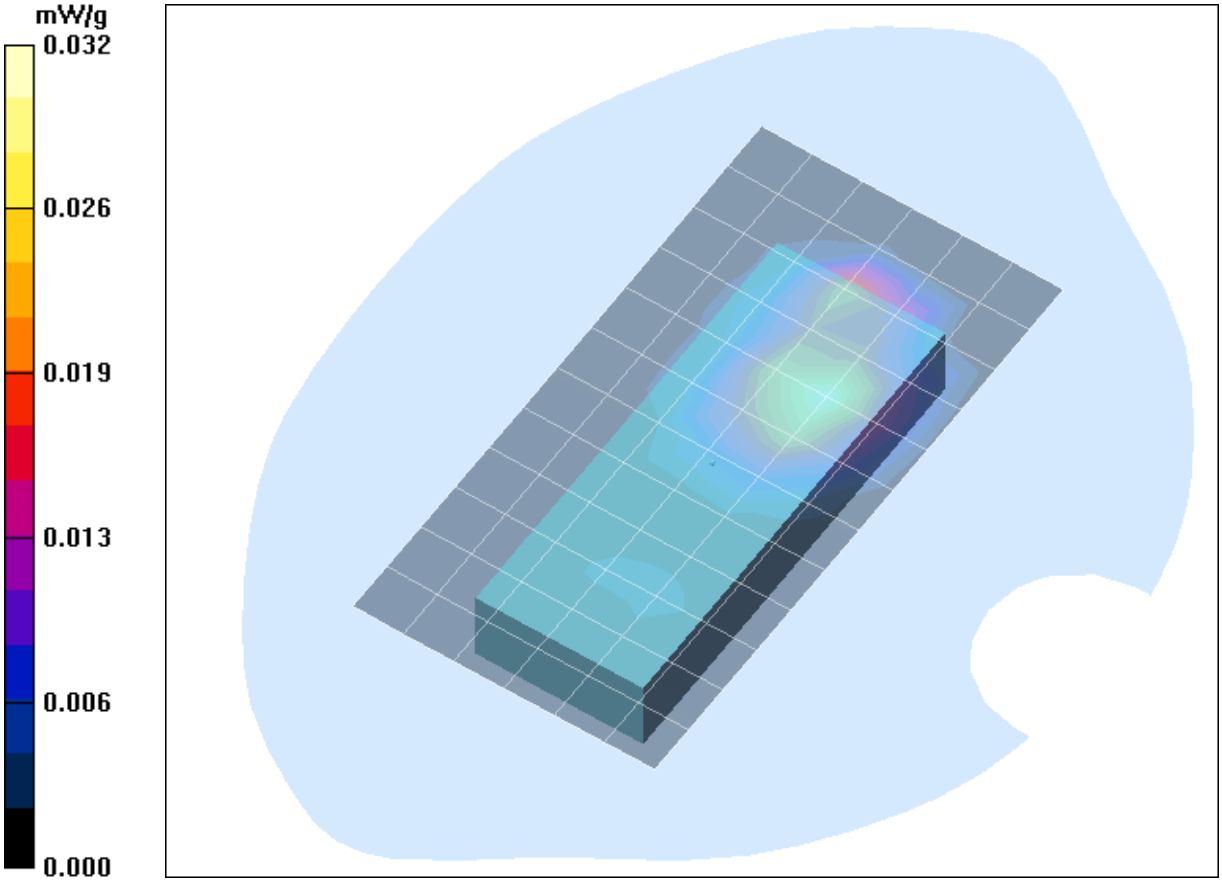

Fig. 11: SAR distribution for DECT US, channel 2, body worn configuration, display towards the phantom, with headset and clip, 0 mm distance (September 09, 2008; Ambient Temperature: 22.6°C; Liquid Temperature: 21.5°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 117bphm_4_ant1_HS_dsp_up.da4

DUT: Ascom; Type: DH4; Serial: 0364702952117
Program Name: Body Worn

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1925 MHz; σ = 1.56 mho/m; ε_r = 53; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(4.63, 4.63, 4.63); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.036 mW/g
Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.07 V/m; Power Drift = 0.115 dB
Peak SAR (extrapolated) = 0.054 W/kg
SAR(1 g) = 0.036 mW/g; SAR(10 g) = 0.022 mW/g
Maximum value of SAR (measured) = 0.038 mW/g

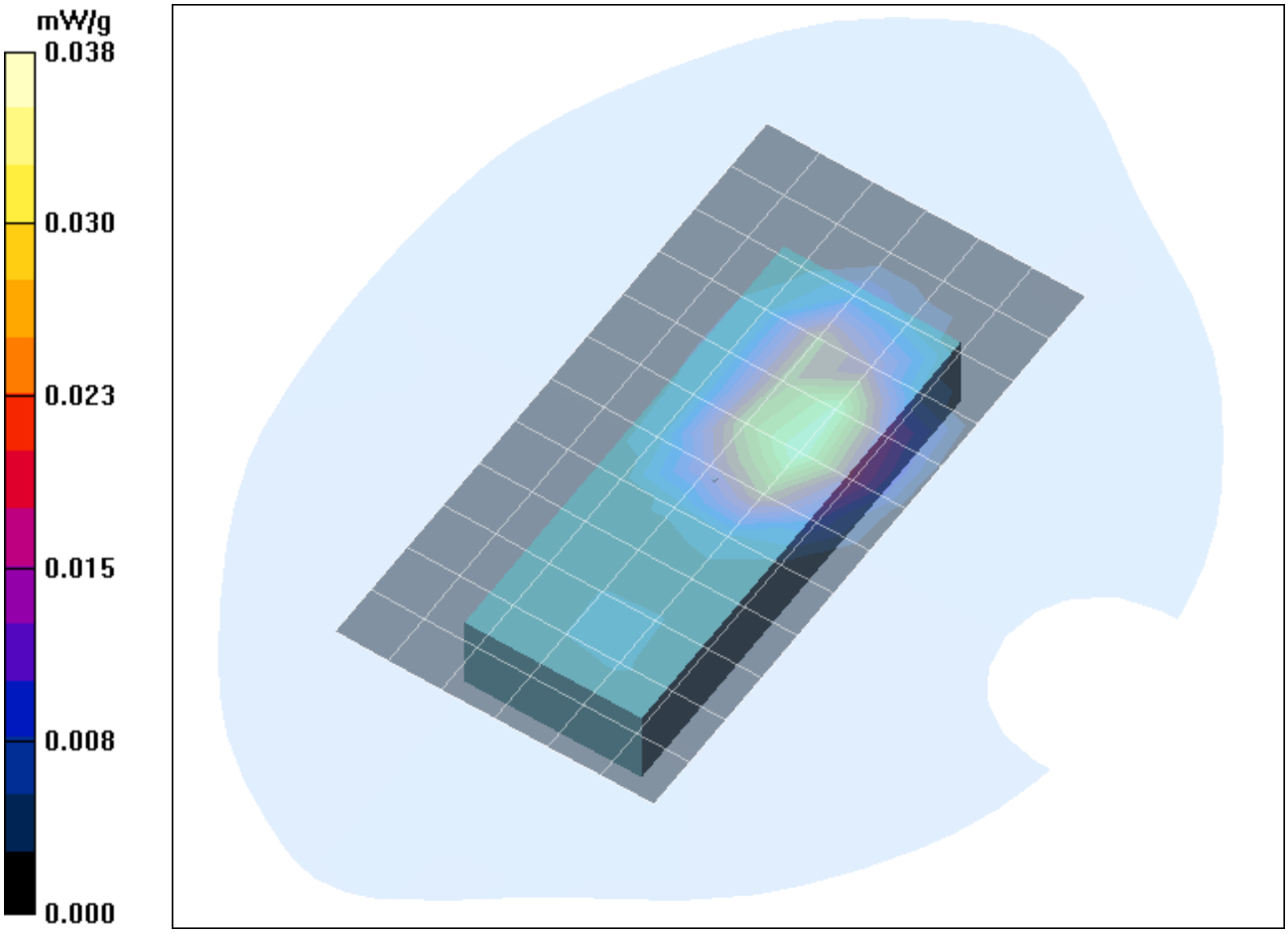

Fig. 12: SAR distribution for DECT US, channel 2, body worn configuration, display towards the phantom, with headset, 0 mm distance (September 09, 2008; Ambient Temperature: 22.6°C; Liquid Temperature: 21.5°C).

4 SAR Distribution Plots, Body Measurements, Antenna 2

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name:
117bphm_5_ant2_Clip_HS_dsp_down.da4

DUT: Ascom; Type: DH4; Serial: 0364702952117
Program Name: Body Worn

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1925 MHz; σ = 1.56 mho/m; ε_r = 53; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(4.63, 4.63, 4.63); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.008 mW/g
Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.49 V/m; Power Drift = 0.120 dB
Peak SAR (extrapolated) = 0.012 W/kg
SAR(1 g) = 0.0074 mW/g; SAR(10 g) = 0.0045 mW/g

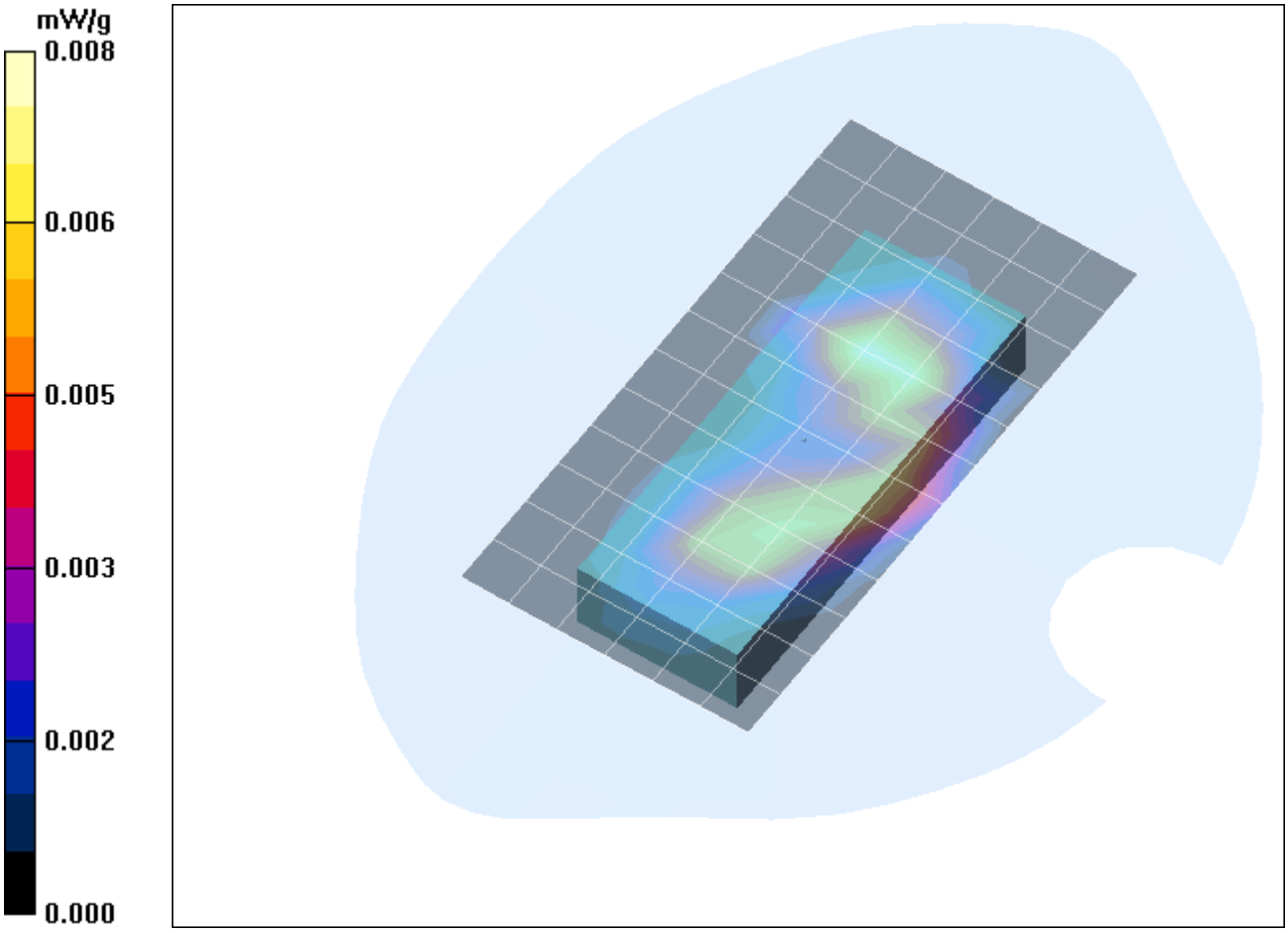

Fig. 13: SAR distribution for DECT US, channel 2, body worn configuration, display towards the ground, with headset and clip, 0 mm distance (September 09, 2008; Ambient Temperature: 22.6°C; Liquid Temperature: 21.5°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 117bphm_7_ant2_HS_dsp_down.da4

DUT: Ascom; Type: DH4; Serial: 0364702952117
Program Name: Body Worn

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1925 MHz; σ = 1.56 mho/m; ε_r = 53; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(4.63, 4.63, 4.63); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.023 mW/g
Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.52 V/m; Power Drift = 0.122 dB
Peak SAR (extrapolated) = 0.039 W/kg
SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.014 mW/g
Maximum value of SAR (measured) = 0.027 mW/g
Body Worn/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.52 V/m; Power Drift = 0.122 dB
Peak SAR (extrapolated) = 0.024 W/kg
SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.0068 mW/g
Maximum value of SAR (measured) = 0.016 mW/g

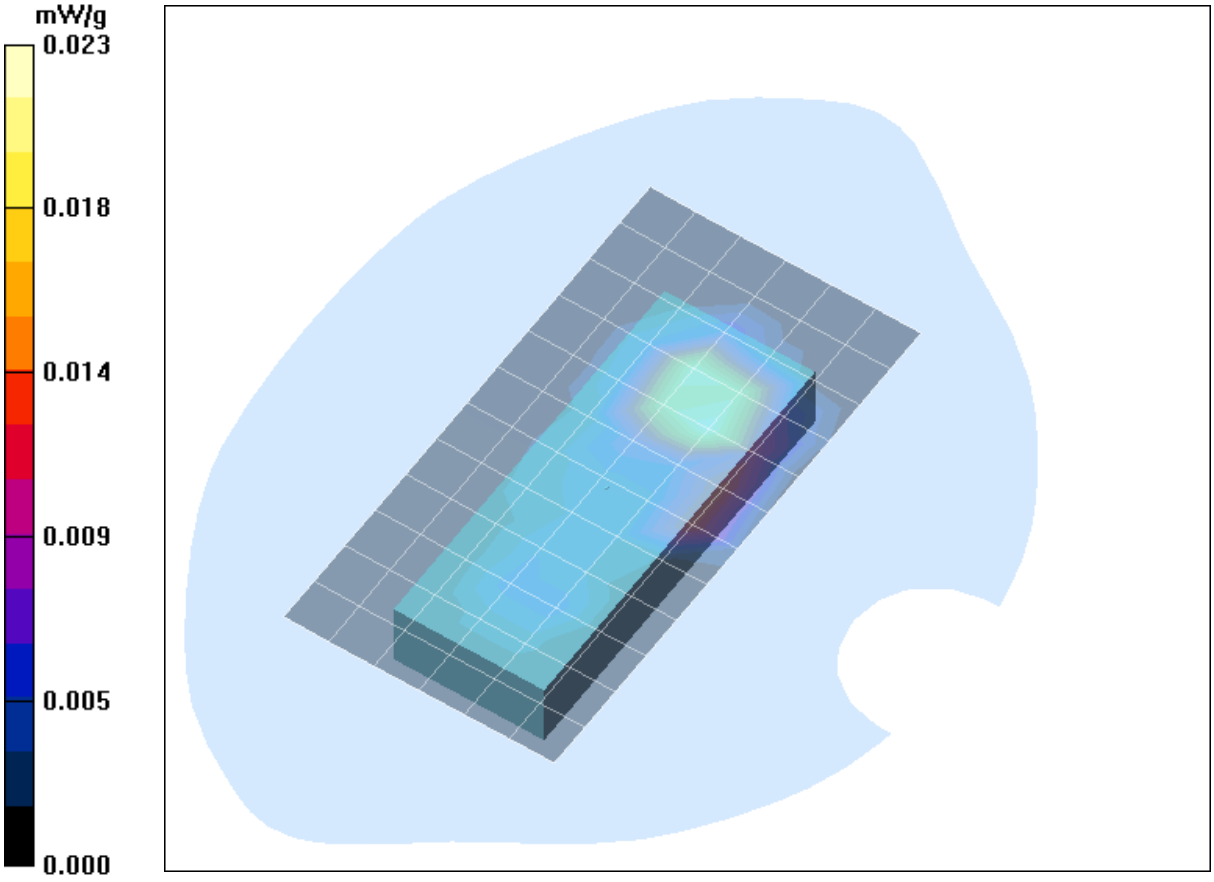

Fig. 14: SAR distribution for DECT US, channel 2, body worn configuration, display towards the ground, with headset, 0 mm distance (September 09, 2008; Ambient Temperature: 22.6°C; Liquid Temperature: 21.5°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 117bphm_6_ant2_Clip_HS_dsp_up.da4

DUT: Ascom; Type: DH4; Serial: 0364702952117
Program Name: Body Worn

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1925 MHz; σ = 1.56 mho/m; ε_r = 53; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(4.63, 4.63, 4.63); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.025 mW/g
Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.72 V/m; Power Drift = 0.132 dB
Peak SAR (extrapolated) = 0.040 W/kg
SAR(1 g) = 0.0265 mW/g; SAR(10 g) = 0.016 mW/g
Maximum value of SAR (measured) = 0.029 mW/g
Body Worn/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.72 V/m; Power Drift = 0.132 dB
Peak SAR (extrapolated) = 0.042 W/kg
SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.012 mW/g

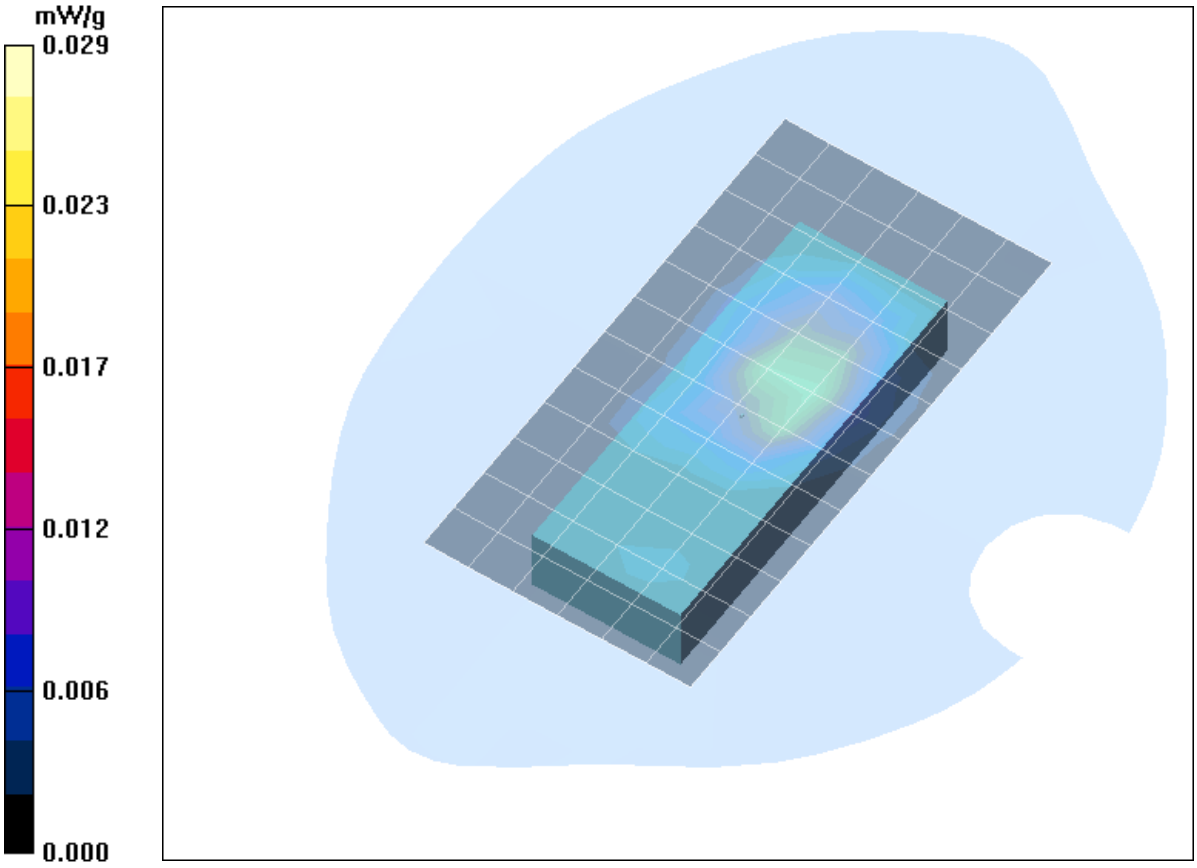

Fig. 15: SAR distribution for DECT US, channel 2, body worn configuration, display towards the phantom, with headset and clip, 0 mm distance (September 09, 2008; Ambient Temperature: 22.6°C; Liquid Temperature: 21.5°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 117bphm_8_ant2_HS_dsp_up.da4

DUT: Ascom; Type: DH4; Serial: 0364702952117
Program Name: Body Worn

Communication System: DECT US; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1925 MHz; σ = 1.56 mho/m; ε_r = 53; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1579; ConvF(4.63, 4.63, 4.63); Calibrated: 23.01.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 08.02.2008
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body Worn/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.026 mW/g
Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.71 V/m; Power Drift = 0.147 dB
Peak SAR (extrapolated) = 0.042 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

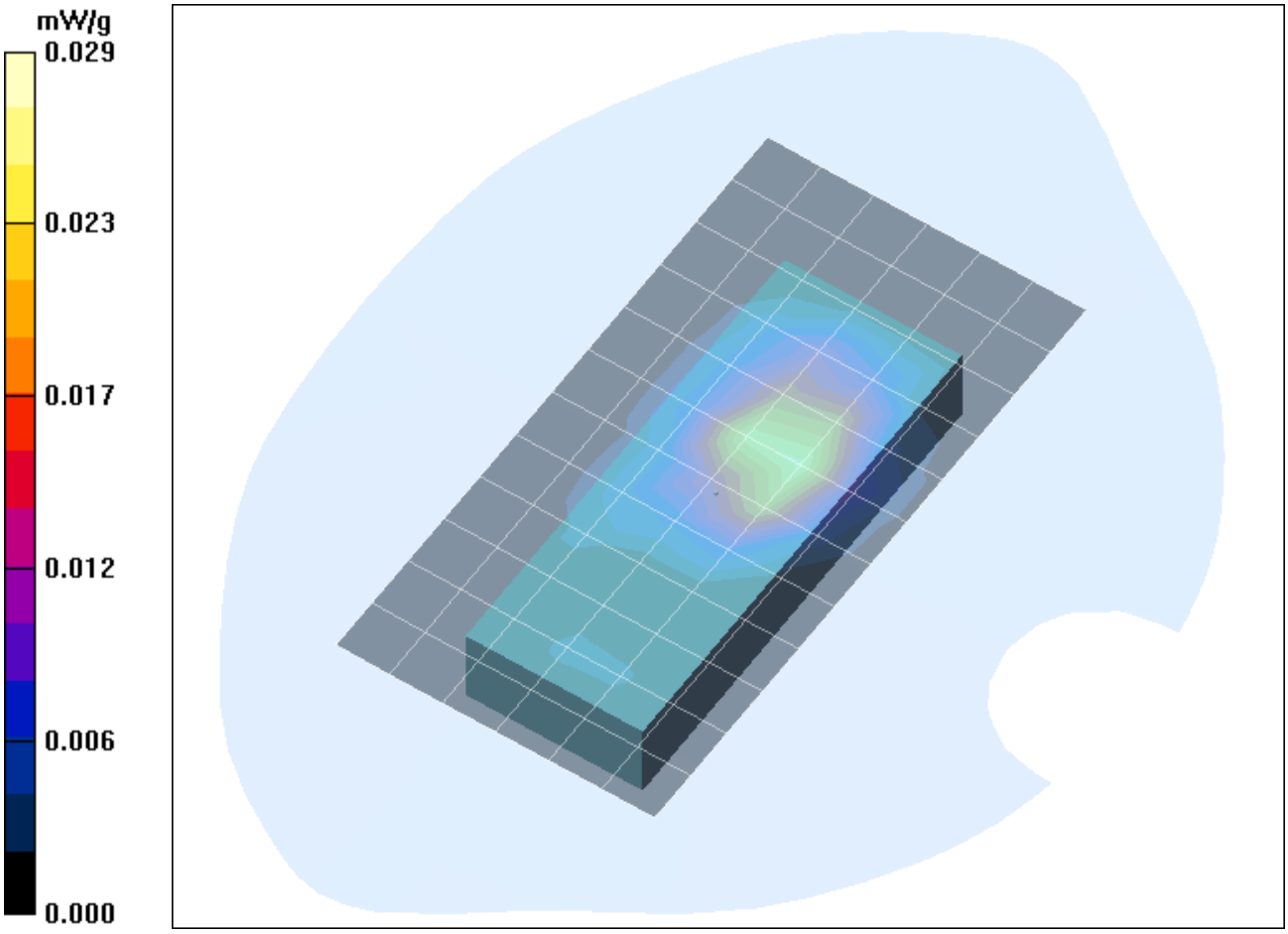

Fig. 16: SAR distribution for DECT US, channel 2, body worn configuration, display towards the phantom, with headset, 0 mm distance (September 09, 2008; Ambient Temperature: 22.6°C; Liquid Temperature: 21.5°C).

5 SAR z-axis scans (Validation)

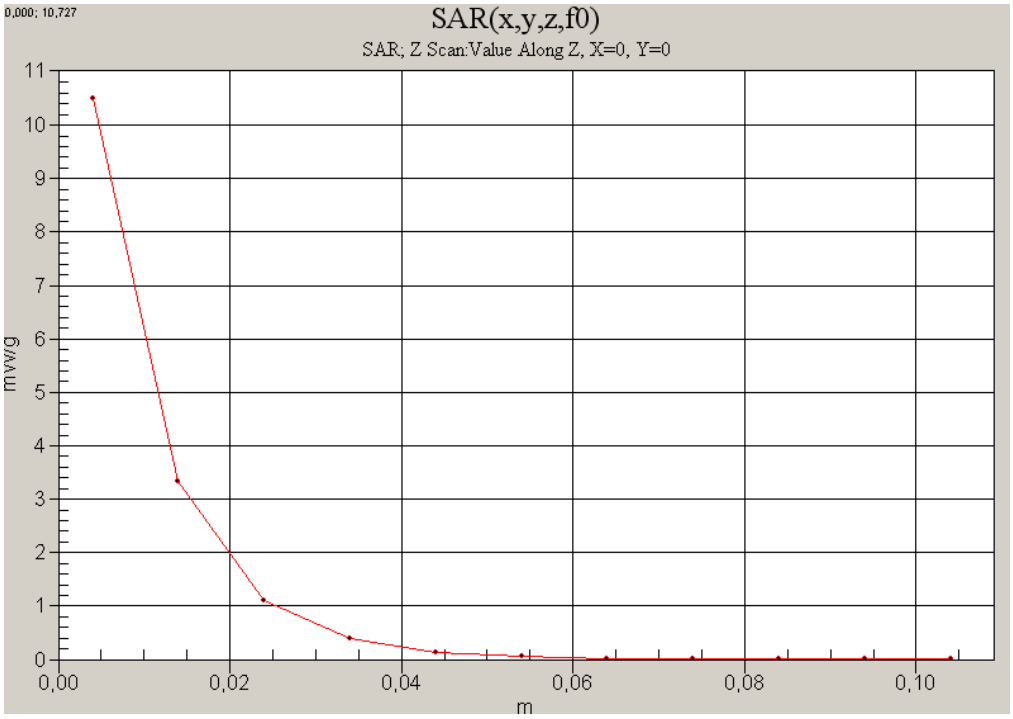

Fig. 17: SAR versus liquid depth, 1900 MHz, head (September 08, 2008; Ambient Temperature: 22.8° C; Liquid Temperature : 21.6° C).

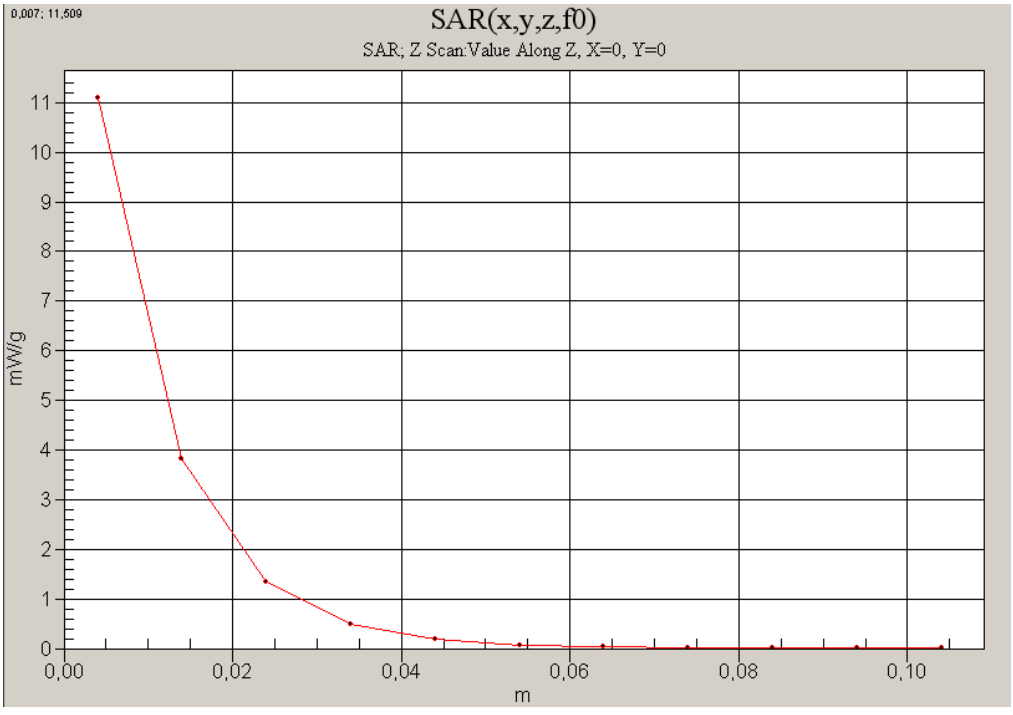

Fig. 18: SAR versus liquid depth, 1900 MHz, body (September 09, 2008; Ambient Temperature: 22.6° C; Liquid Temperature : 21.5° C).

6 SAR z-axis scans (Measurements)

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

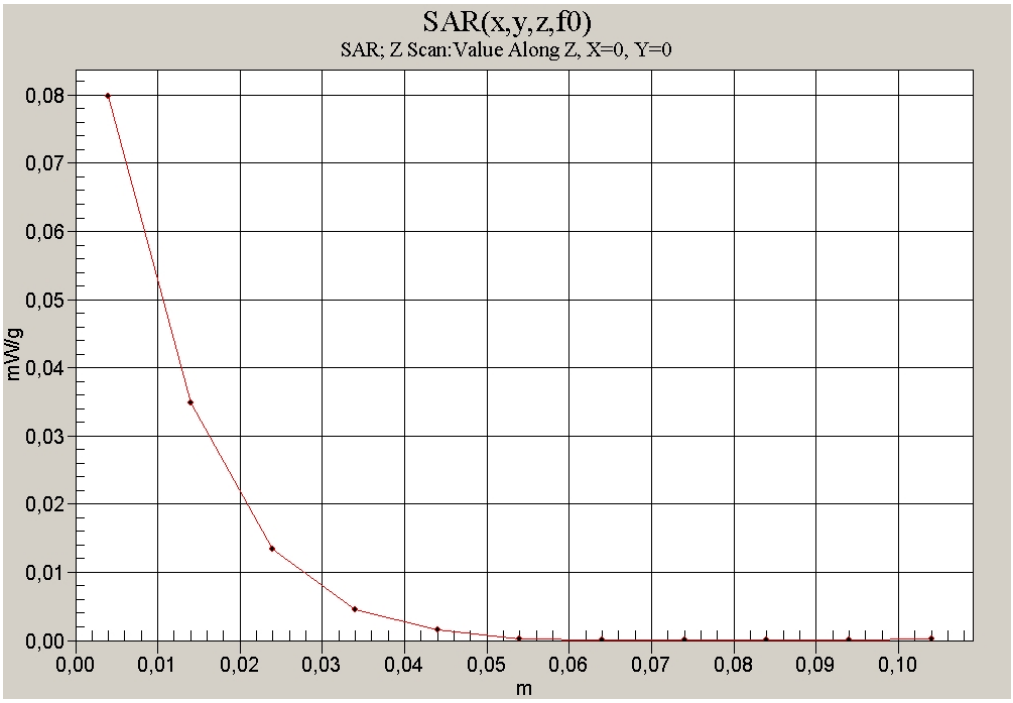

Fig. 19: SAR versus liquid depth, head: DECT US, channel 2, cheek position, left side of head, antenna 1 (September 08, 2008; Ambient Temperature: 22.8° C; Liquid Temperature : 21.6° C).

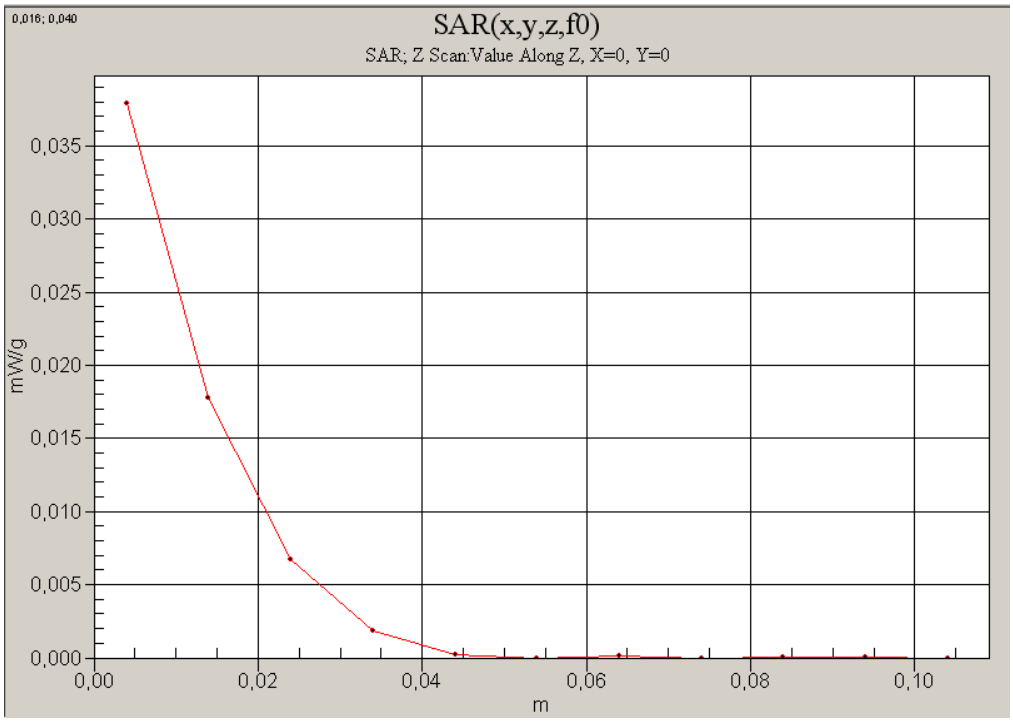

Fig. 20: SAR versus liquid depth, body: DECT US, channel 2, headset and 0 mm distance, antenna 1, display down (September 09, 2008; Ambient Temperature: 22.6°C; Liquid Temperature: 21.5°C).