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**Appendix for the Report**  
**Dosimetric Assessment of the**  
**Panasonic KX-TGA740**  
**(FCC ID: ACJ96NKX-TGA640)**  
**According to the FCC Requirements**  
**SAR Distribution Plots**

October 06, 2008  
**IMST GmbH**  
**Carl-Friedrich-Gauß-Str. 2**  
**D-47475 Kamp-Lintfort**

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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.

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# 1 SAR Distribution Plots, Head Measurements, Antenna 1

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [TGA740\\_bplm\\_1\\_ant\\_1.da4](#)

DUT: Panasonic; Type: KX-TGA740; Serial: 4

Program Name: Cheek Left

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (7x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.013 mW/g

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

Reference Value = 3.36 V/m; Power Drift = 0.073 dB

Peak SAR (extrapolated) = 0.023 W/kg

**SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.00677 mW/g**

Maximum value of SAR (measured) = 0.015 mW/g

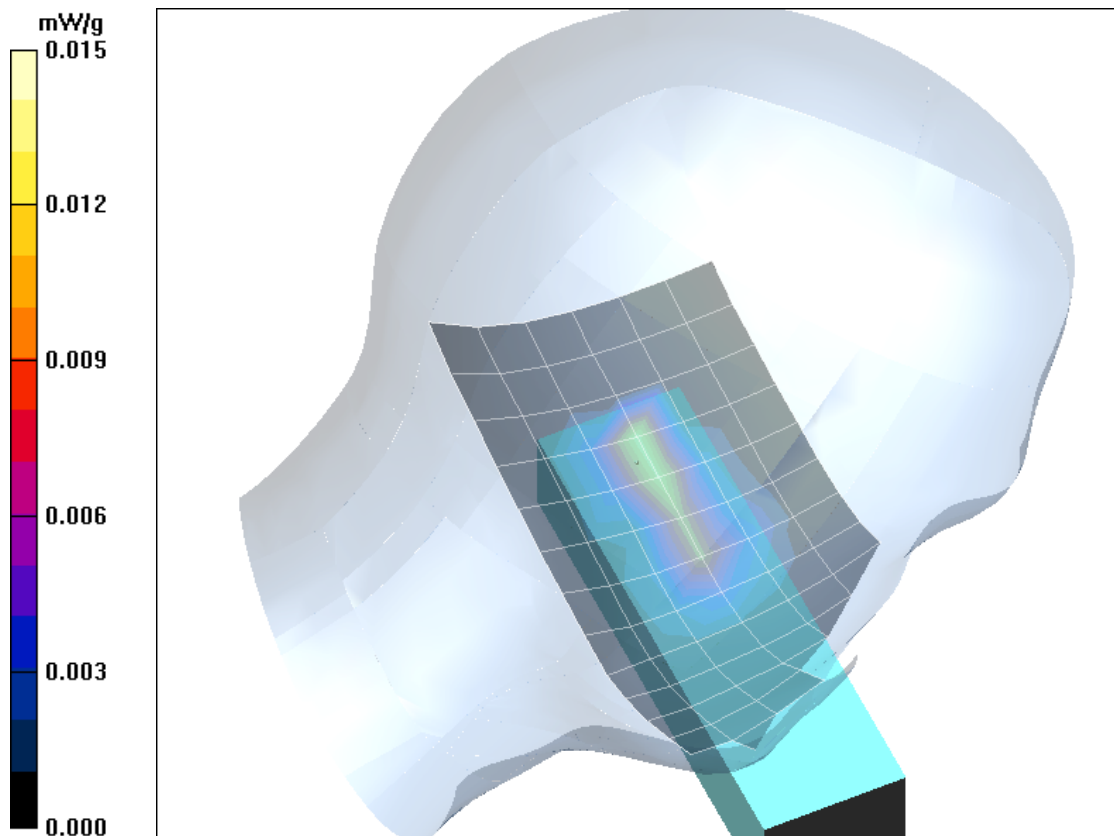


Fig. 1: SAR distribution for DECT US, channel 2, cheek position, left side of head (October 01, 2008; Ambient Temperature: 21.7°C; Liquid Temperature: 20.9°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [TGA740\\_bplm\\_2\\_ant\\_1.da4](#)

DUT: Panasonic; Type: KX-TGA740; Serial: 4

Program Name: Tilted Left

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (7x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.010 mW/g

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

Reference Value = 3.01 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.016 W/kg

**SAR(1 g) = 0.0095 mW/g; SAR(10 g) = 0.0044 mW/g**

Maximum value of SAR (measured) = 0.011 mW/g

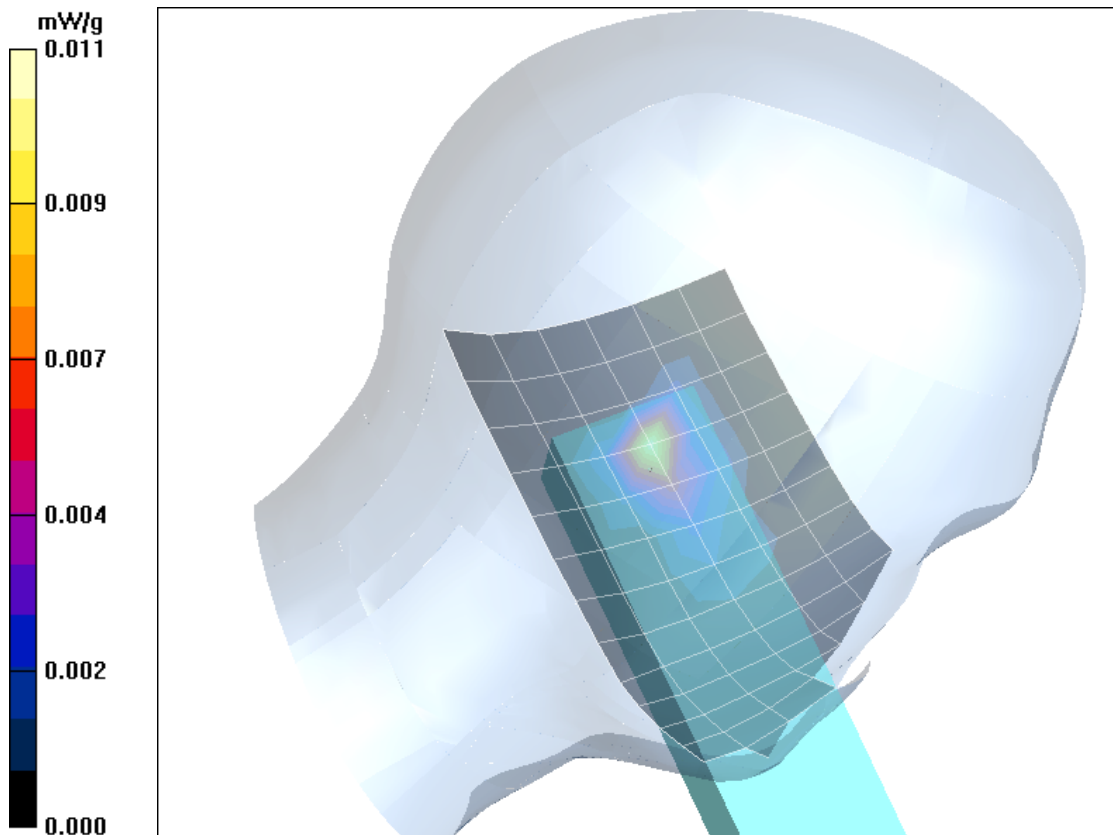


Fig. 2: SAR distribution for DECT US, channel 2, tilted position, left side of head (October 01, 2008; Ambient Temperature: 21.7°C; Liquid Temperature: 20.9°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [TGA740 bprm 1 ant 1.da4](#)

DUT: Panasonic; Type: KX-TGA740; Serial: 4

Program Name: Cheek Right

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (7x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.011 mW/g

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

Reference Value = 2.93 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 0.024 W/kg

**SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.0061 mW/g**

Maximum value of SAR (measured) = 0.015 mW/g

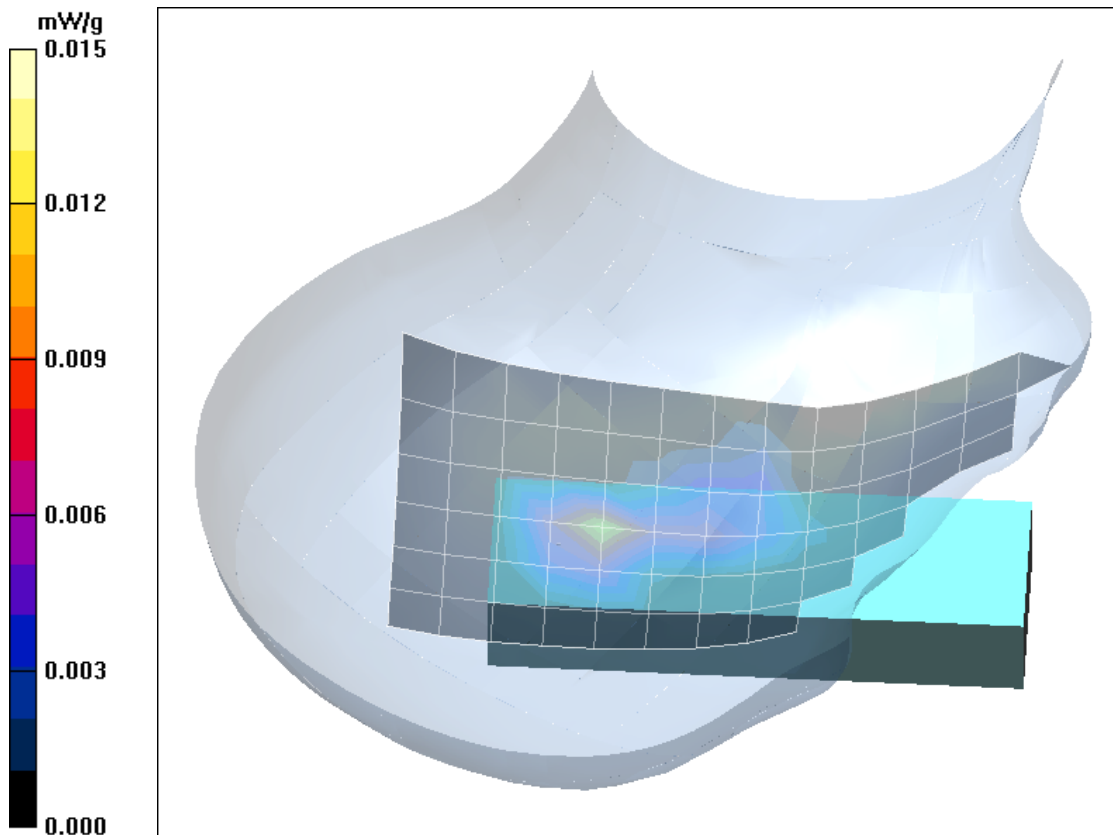


Fig. 3: SAR distribution for DECT US, channel 2, cheek position, right side of head (October 01, 2008; Ambient Temperature: 21.7°C; Liquid Temperature: 20.9°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [TGA740\\_bprm\\_2\\_ant\\_1.da4](#)

DUT: Panasonic; Type: KX-TGA740; Serial: 4

Program Name: Tilted Right

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (7x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.007 mW/g

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

Reference Value = 2.68 V/m; Power Drift = 0.157 dB

Peak SAR (extrapolated) = 0.049 W/kg

**SAR(1 g) = 0.0095 mW/g; SAR(10 g) = 0.0043 mW/g**

Maximum value of SAR (measured) = 0.011 mW/g

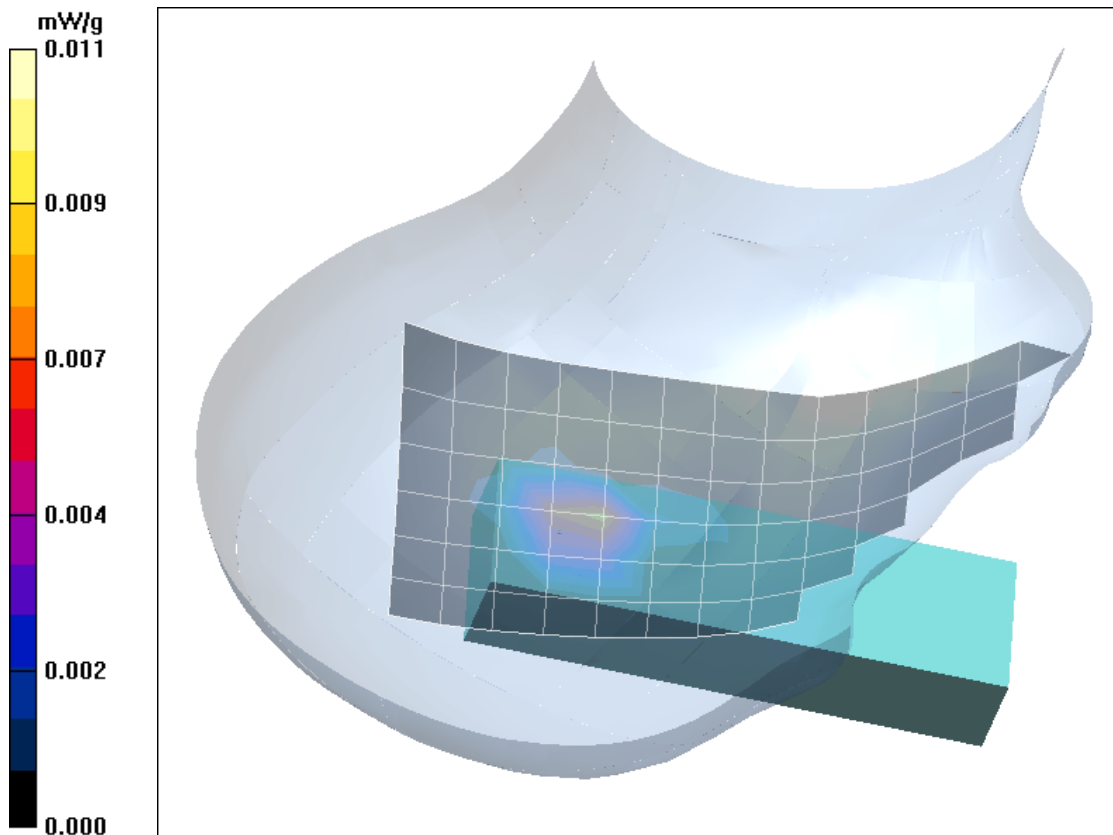


Fig. 4: SAR distribution for DECT US, channel 2, tilted position, right side of head (October 01, 2008; Ambient Temperature: 21.7°C; Liquid Temperature: 20.9°C)

## 2 SAR Distribution Plots, Head Measurements, Antenna 2

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [TGA740\\_bplm\\_1\\_ant\\_2.da4](#)

DUT: Panasonic; Type: KX-TGA740; Serial: 4

Program Name: Cheek Left

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (7x14x1):** 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 = 1.72 V/m; Power Drift = 0.098 dB

Peak SAR (extrapolated) = 0.007 W/kg

**SAR(1 g) = 0.0044 mW/g; SAR(10 g) = 0.0024 mW/g**

Maximum value of SAR (measured) = 0.005 mW/g

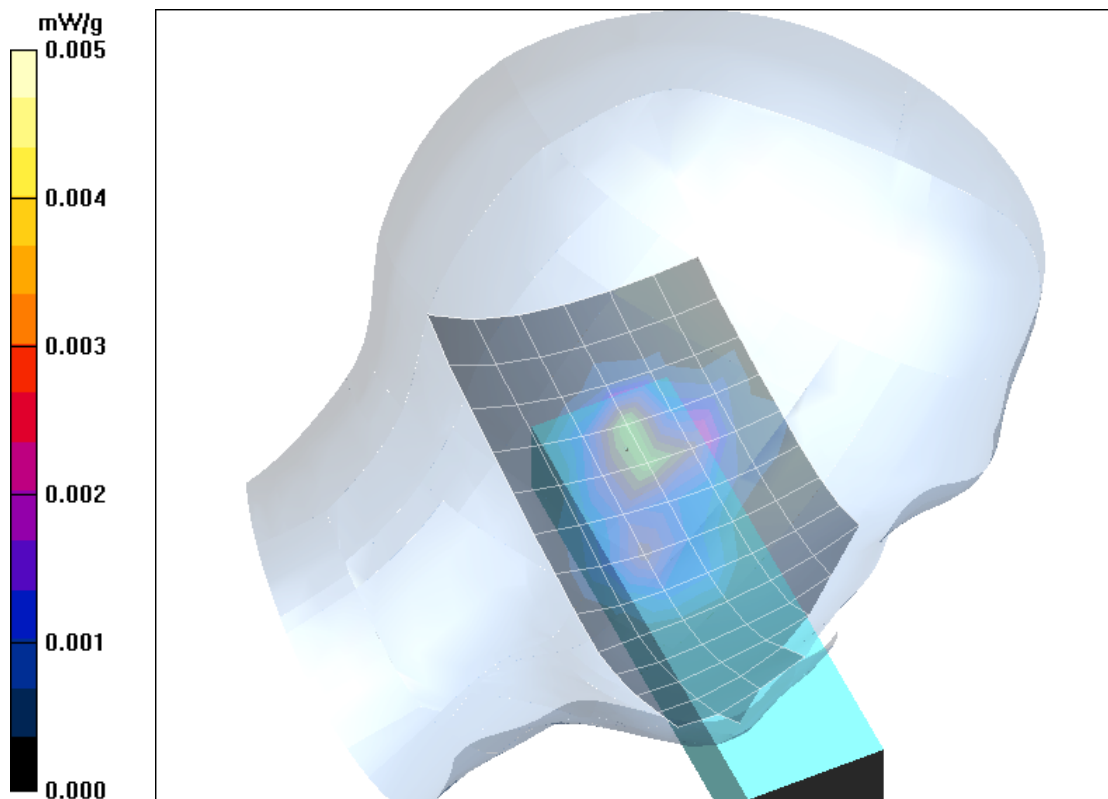


Fig. 5: SAR distribution for DECT US, channel 2, cheek position, left side of head (October 01, 2008; Ambient Temperature: 21.7°C; Liquid Temperature: 20.9°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [TGA740 bplm 2 ant 2.da4](#)

DUT: Panasonic; Type: KX-TGA740; Serial: 4

Program Name: Tilted Left

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (7x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.004 mW/g

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

Reference Value = 1.68 V/m; Power Drift = 0.089 dB

Peak SAR (extrapolated) = 0.006 W/kg

**SAR(1 g) = 0.004 mW/g; SAR(10 g) = 0.0021 mW/g**

Maximum value of SAR (measured) = 0.005 mW/g

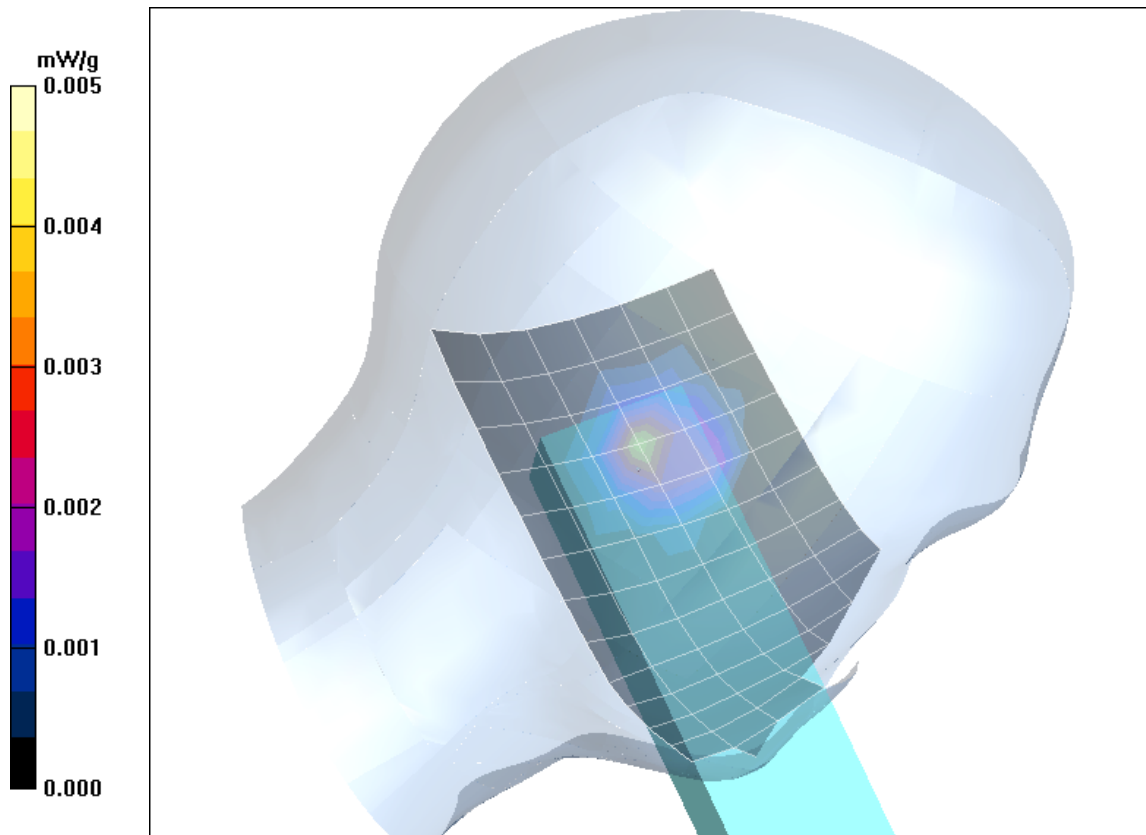


Fig. 6: SAR distribution for DECT US, channel 2, tilted position, left side of head (October 01, 2008; Ambient Temperature: 21.7°C; Liquid Temperature: 20.9°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [TGA740 bprm 1 ant 2.da4](#)

DUT: Panasonic; Type: KX-TGA740; Serial: 4

Program Name: Cheek Right

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (7x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.004 mW/g

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

Reference Value = 1.49 V/m; Power Drift = 0.184 dB

Peak SAR (extrapolated) = 0.005 W/kg

**SAR(1 g) = 0.0041 mW/g; SAR(10 g) = 0.0022 mW/g**

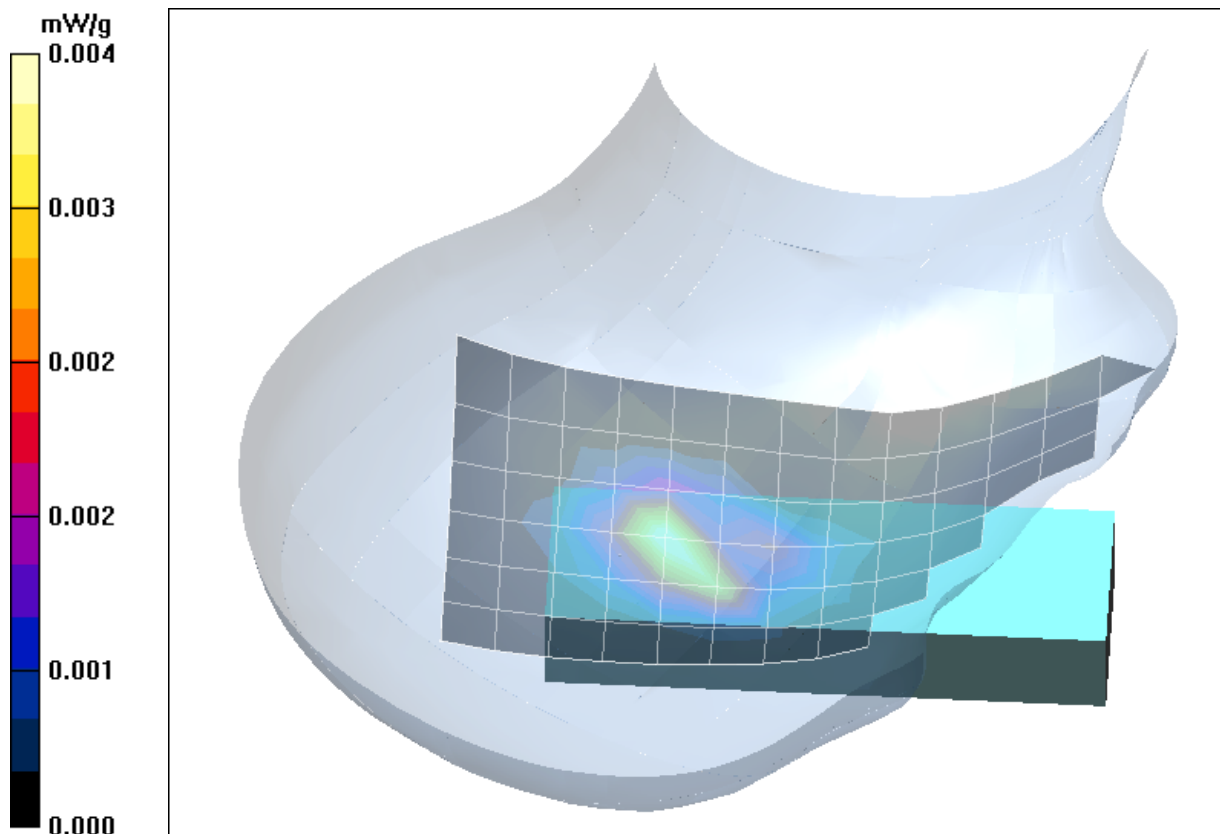


Fig. 7: SAR distribution for DECT US, channel 2, cheek position, right side of head (October 01, 2008; Ambient Temperature: 21.7°C; Liquid Temperature: 20.9°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [TGA740\\_bprm\\_2\\_ant\\_2.da4](#)

DUT: Panasonic; Type: KX-TGA740; Serial: 4

Program Name: Tilted Right

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (7x14x1):** 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 = 1.74 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 0.006 W/kg

**SAR(1 g) = 0.0038 mW/g; SAR(10 g) = 0.002 mW/g**

Maximum value of SAR (measured) = 0.004 mW/g

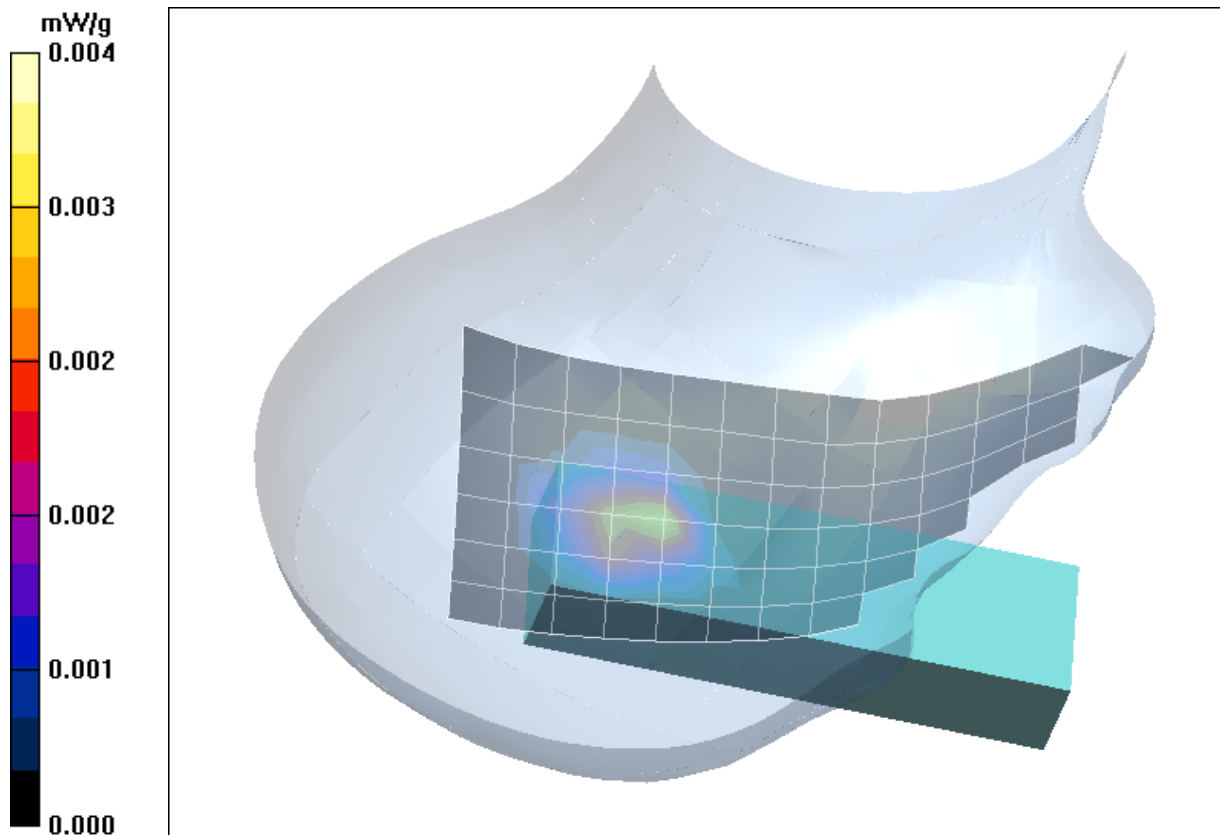


Fig. 8: SAR distribution for DECT US, channel 2, tilted position, right side of head (October 01, 2008; Ambient Temperature: 21.7°C; Liquid Temperature: 20.9°C)

### 3 SAR Distribution Plots, Body Measurements, Antenna 1

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

[TGA740\\_yphm\\_1\\_ant\\_1\\_dspl\\_up\\_HS.da4](#)

DUT: Panasonic; Type: KX-TGA740; Serial: 4

Program Name: Body

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 51.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.15, 8.15, 8.15); Calibrated: 19.09.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2008
- 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/Area Scan (7x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.009 mW/g

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

Reference Value = 1.07 V/m; Power Drift = 0.233 dB

Peak SAR (extrapolated) = 0.021 W/kg

**SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.0045 mW/g**

Maximum value of SAR (measured) = 0.013 mW/g

**Body/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.07 V/m; Power Drift = 0.233 dB

Peak SAR (extrapolated) = 0.023 W/kg

**SAR(1 g) = 0.005 mW/g; SAR(10 g) = 0.0021 mW/g**

Maximum value of SAR (measured) = 0.006 mW/g

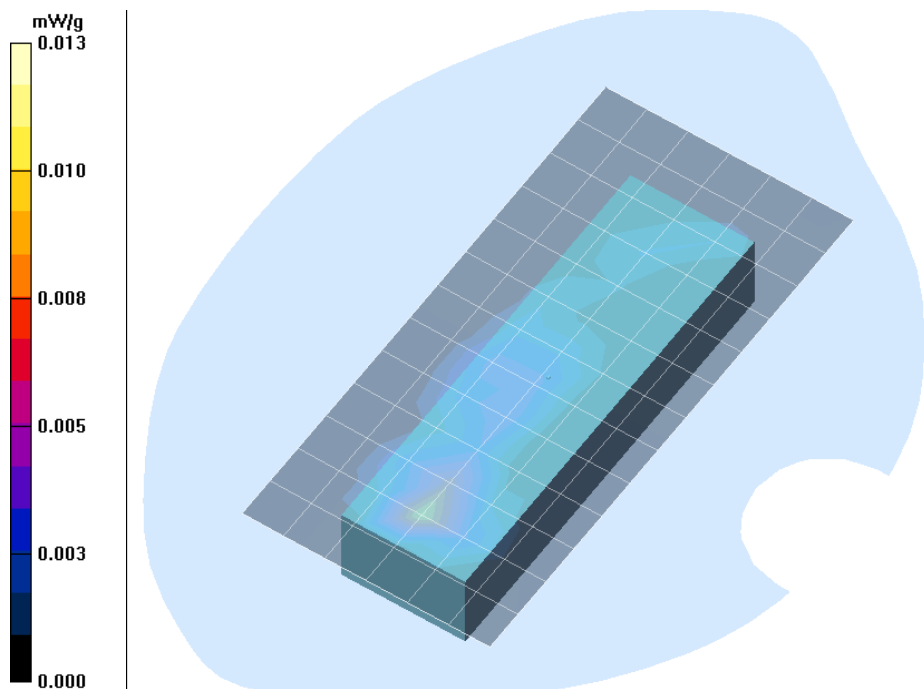


Fig. 9: SAR distribution for DECT US, channel 2, body worn configuration, display towards the phantom, with headset and belt clip, 0 mm distance (October 01, 2008; Ambient Temperature: 22.4° C; Liquid Temperature: 21.2° C).

**Test Laboratory:** Imst GmbH, DASY Yellow (II); **File Name:**

[TGA740\\_yphm\\_2\\_ant\\_1\\_dspl\\_down\\_HS.da4](#)

**DUT:** Panasonic; **Type:** KX-TGA740; **Serial:** 4

**Program Name:** Body Worn

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 51.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.15, 8.15, 8.15); Calibrated: 19.09.2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn631; Calibrated: 17.09.2008

- 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 (7x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.003 mW/g

**Body Worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.767 V/m; Power Drift = 0.360 dB

Peak SAR (extrapolated) = 0.006 W/kg

**SAR(1 g) = 0.0031 mW/g; SAR(10 g) = 0.0014 mW/g**

Maximum value of SAR (measured) = 0.004 mW/g

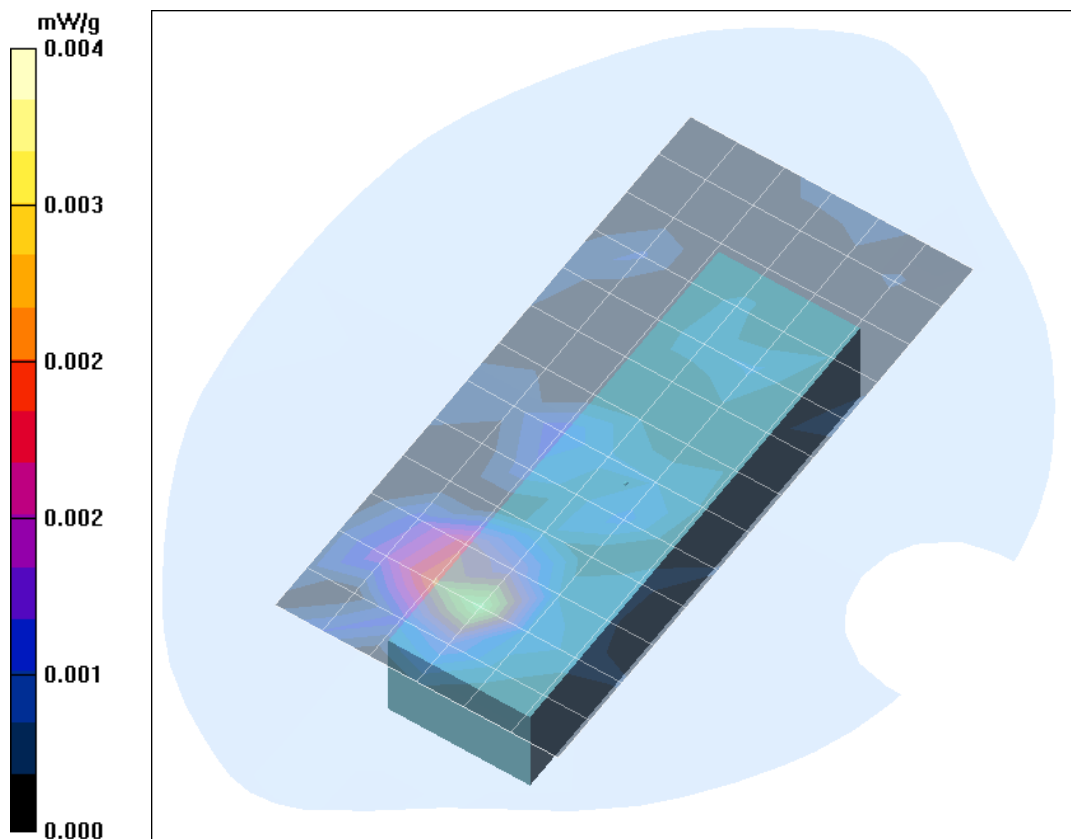


Fig. 10: SAR distribution for DECT US, channel 2, body worn configuration, display towards the ground, with headset and belt clip, 0 mm distance (October 01, 2008; Ambient Temperature: 22.4° C; Liquid Temperature: 21.2° C).

## 4 SAR Distribution Plots, Body Measurements, Antenna 2

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

[TGA740\\_yphm\\_3\\_ant\\_2\\_dspl\\_up\\_HS\\_wdh.da4](#)

DUT: Panasonic; Type: KX-TGA740; Serial: 4

Program Name: Body Worn

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 51.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.15, 8.15, 8.15); Calibrated: 19.09.2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2008
- 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 (7x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.003 mW/g

**Body Worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.508 V/m; Power Drift = 0.176 dB

Peak SAR (extrapolated) = 0.007 W/kg

**SAR(1 g) = 0.0035 mW/g; SAR(10 g) = 0.0017 mW/g**

Maximum value of SAR (measured) = 0.004 mW/g

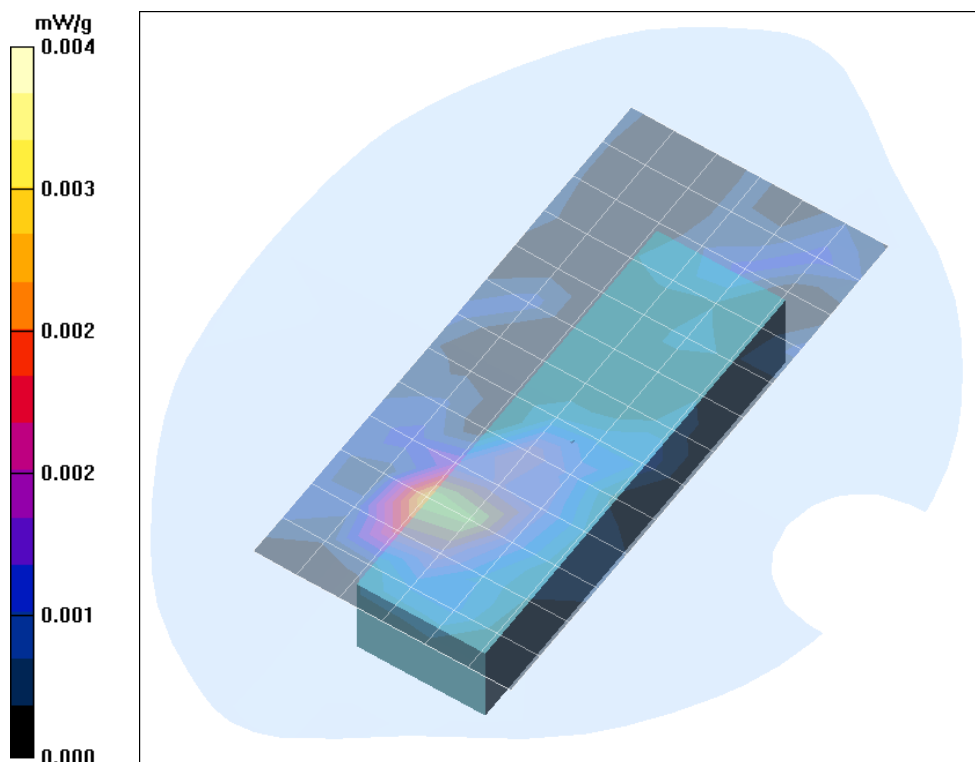


Fig. 11: SAR distribution for DECT US, channel 2, body worn configuration, display towards the phantom, with headset and belt clip, 0 mm distance (October 01, 2008; Ambient Temperature: 22.4° C; Liquid Temperature: 21.2° C).

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

[TGA740\\_yphm\\_4\\_ant\\_2\\_dspl\\_down\\_HS.da4](#)

DUT: Panasonic; Type: KX-TGA740; Serial: 4

Program Name: Body Worn

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 51.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.15, 8.15, 8.15); Calibrated: 19.09.2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn631; Calibrated: 17.09.2008

- 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 (7x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.005 mW/g

**Body Worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.468 V/m; Power Drift = 0.740 dB

Peak SAR (extrapolated) = 0.020 W/kg

**SAR(1 g) = 0.0046 mW/g; SAR(10 g) = 0.0015 mW/g**

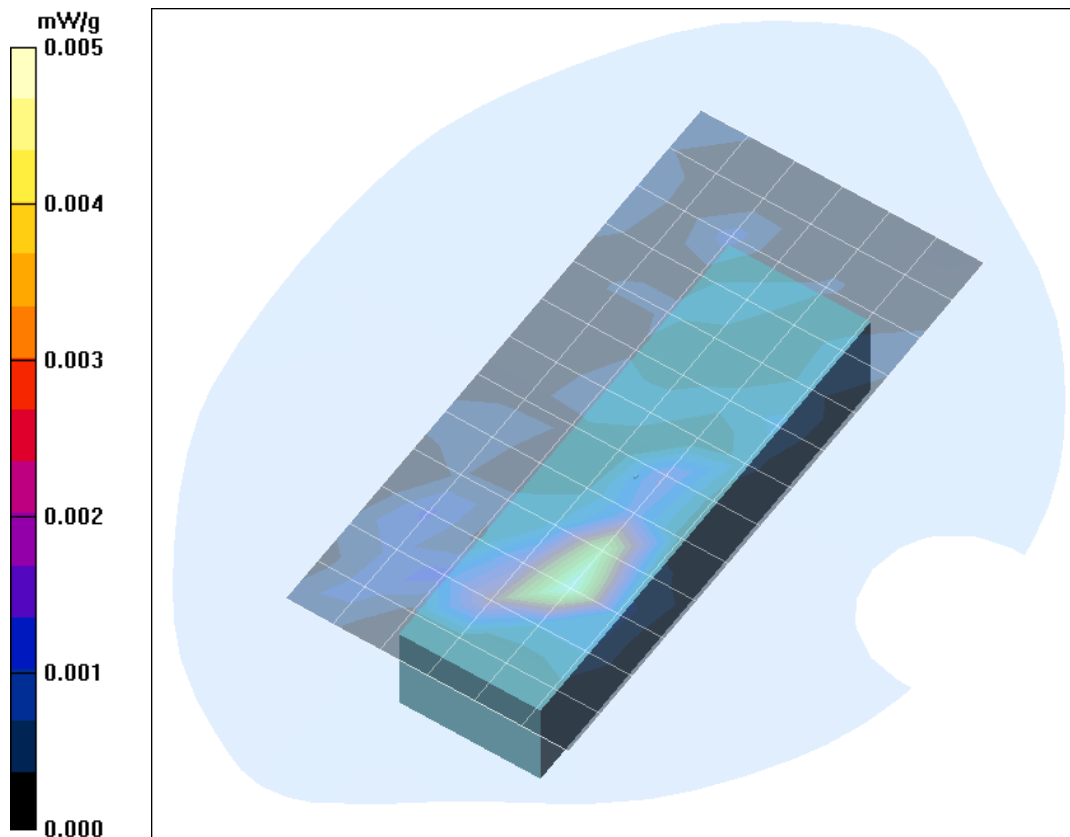


Fig. 12: SAR distribution for DECT US, channel 2, body worn configuration, display towards the ground, with headset and belt clip, 0 mm distance (October 01, 2008; Ambient Temperature: 22.4° C; Liquid Temperature: 21.2° C).

### 5 SAR z-axis scans (Validation)

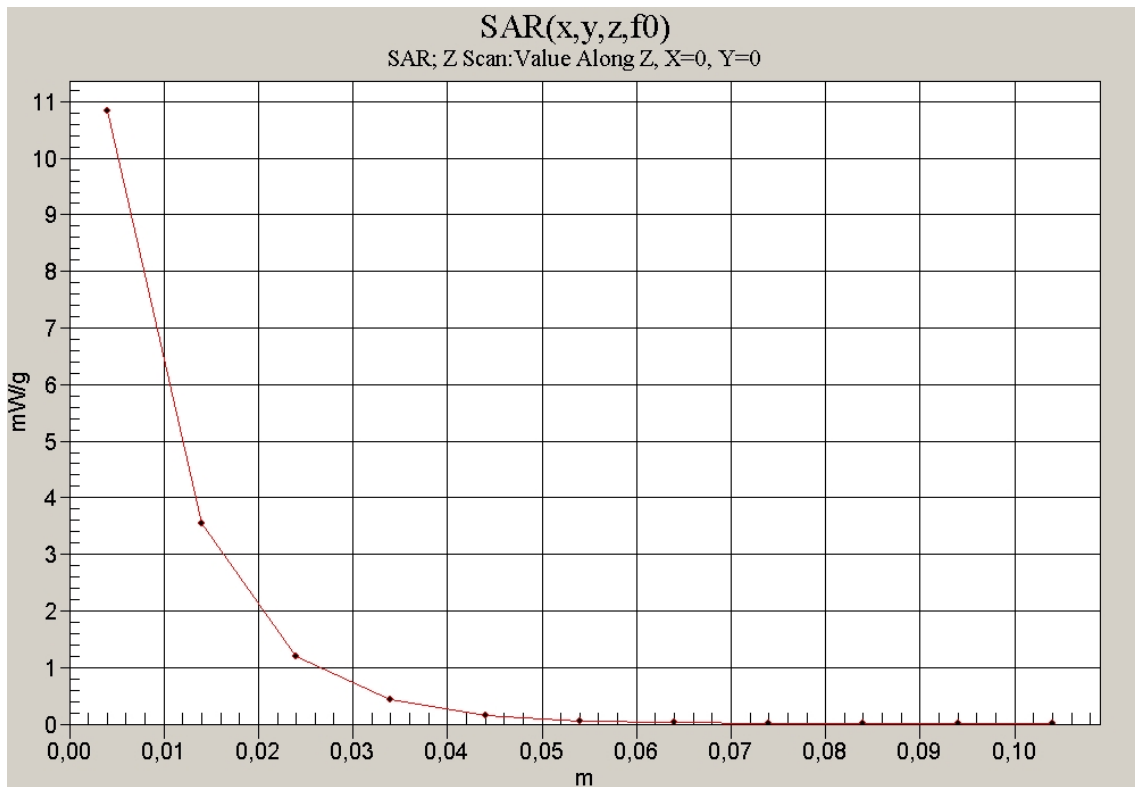


Fig. 13: SAR versus liquid depth, 1900 MHz, head (October 01, 2008; Ambient Temperature: 21.7° C; Liquid Temperature : 20.9° C).

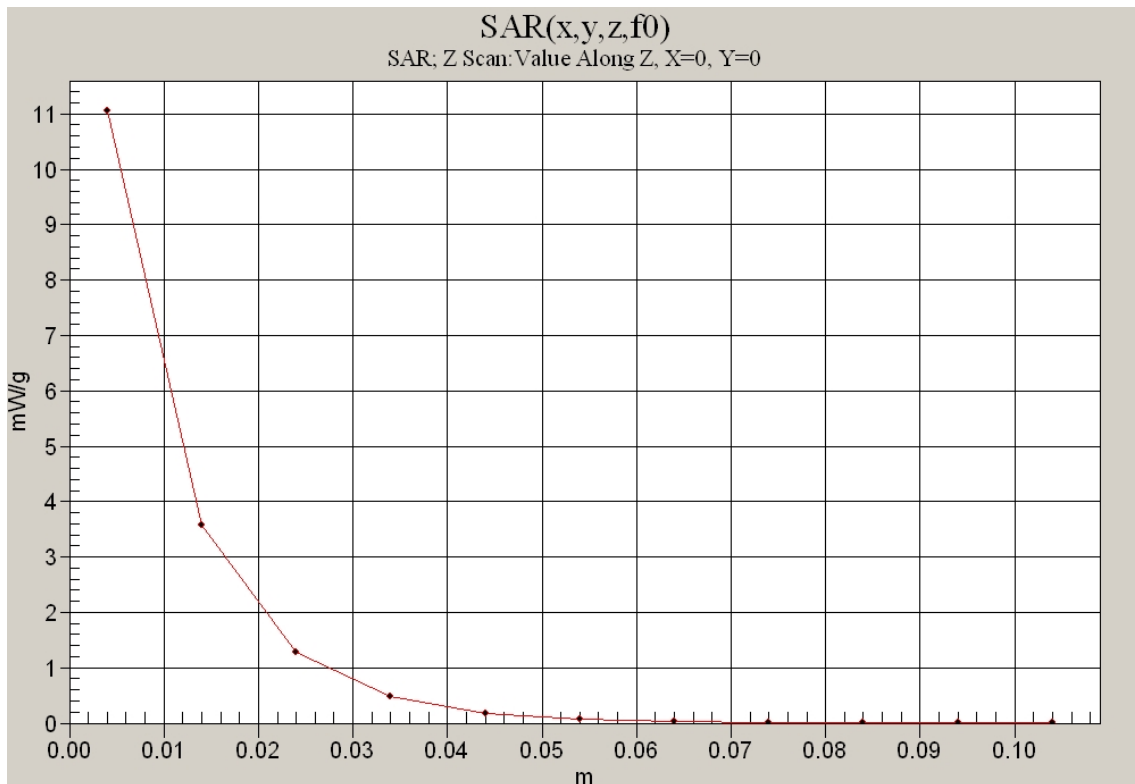


Fig. 14: SAR versus liquid depth, 1900 MHz, body (October 01, 2008; Ambient Temperature: 22.0° C; Liquid Temperature : 21.1° C).

## 6 SAR z-axis scans (Measurements)

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

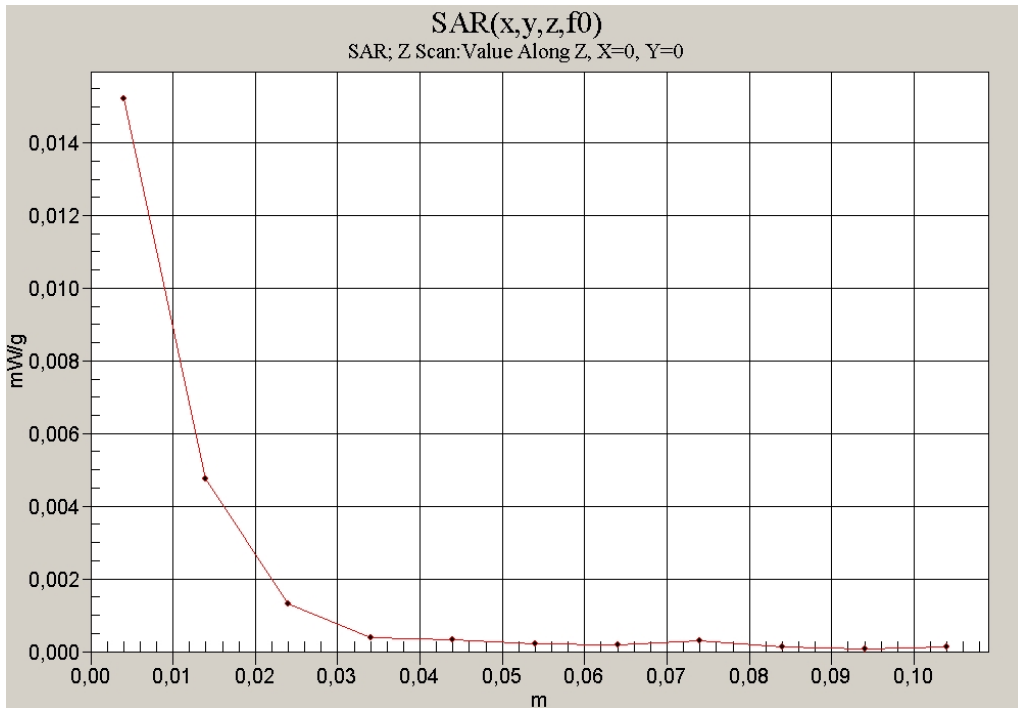


Fig. 15: SAR versus liquid depth, head: DECT US, channel 2, cheek position, left side of head, antenna 1 (October 01, 2008; Ambient Temperature: 21.7° C; Liquid Temperature : 20.9° C).

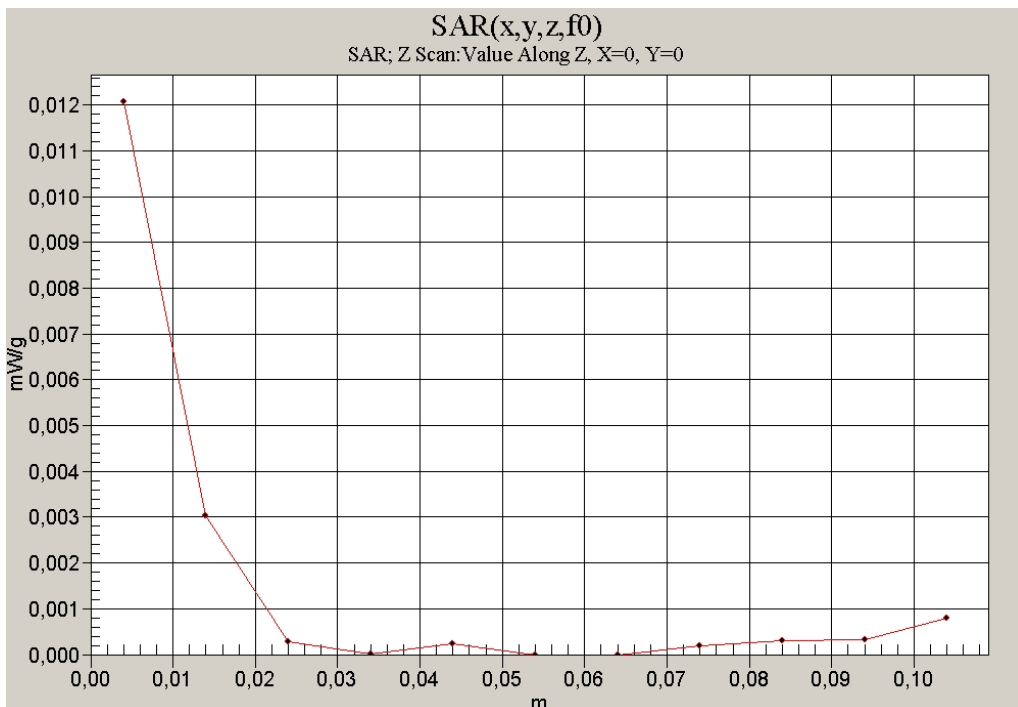


Fig. 16: SAR versus liquid depth, body: DECT US 1900, channel 2, headset and 0 mm distance, antenna 1, display towards the phantom (October 01, 2008; Ambient Temperature: Temperature: 22.4° C; Liquid Temperature: 21.2° C).