
Appendix for the Report

Dosimetric Assessment of the Mitel Cordless Handset (FCC ID: EHTDECT1)

According to the FCC Requirements

SAR Distribution Plots

May 21, 2007
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The test results only relate to the items tested.
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1 SAR Distribution Plots, Head Measurements, Antenna 1

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [5330_handset_yplm_1_Ant1.da4](#)

DUT: MITEL; Type: Corless Handset

Program Name: Cheek Left

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used (extrapolated): $f = 1924.99$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.09.2006

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

- Electronics: DAE4 Sn631; Calibrated: 11.07.2006

- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340

- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek Left/Area Scan (8x17x1): Measurement grid: dx=15mm, dy=15mm

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

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

Peak SAR (extrapolated) = 0.000 W/kg

SAR(1 g) = n.a. ; SAR(10 g) = n.a.

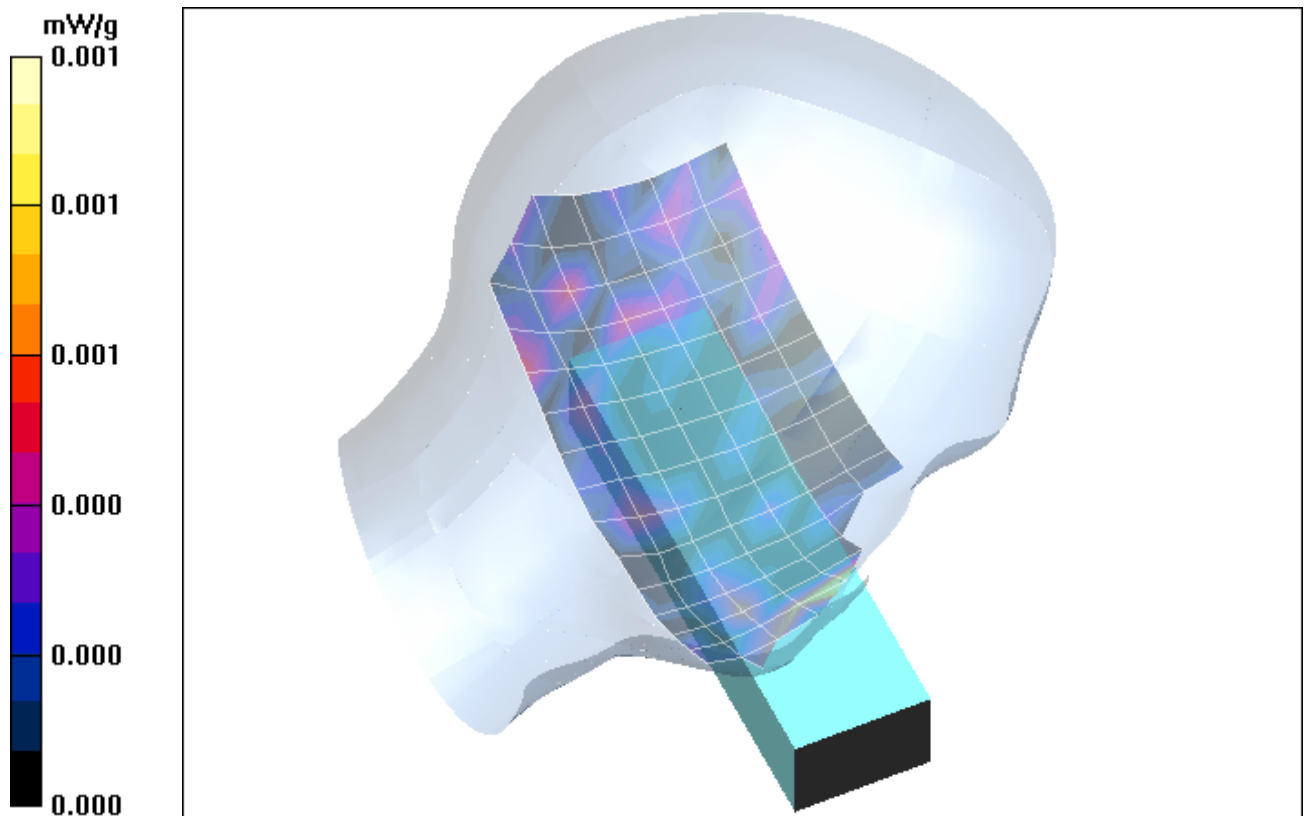


Fig. 1: SAR distribution for DECT US, channel 2, cheek position, left side of head (May 15, 2007; Ambient Temperature: 21.9°C; Liquid Temperature: 21.0°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [5330_handset_yplm_2_Ant1.da4](#)

DUT: MITEL; Type: Corless Handset

Program Name: Tilted Left

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used (extrapolated): $f = 1924.99$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.09.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilted Left/Area Scan (8x17x1): Measurement grid: dx=15mm, dy=15mm

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

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

Peak SAR (extrapolated) = 0.002 W/kg

SAR(1 g) = n.a. ; SAR(10 g) = n.a.

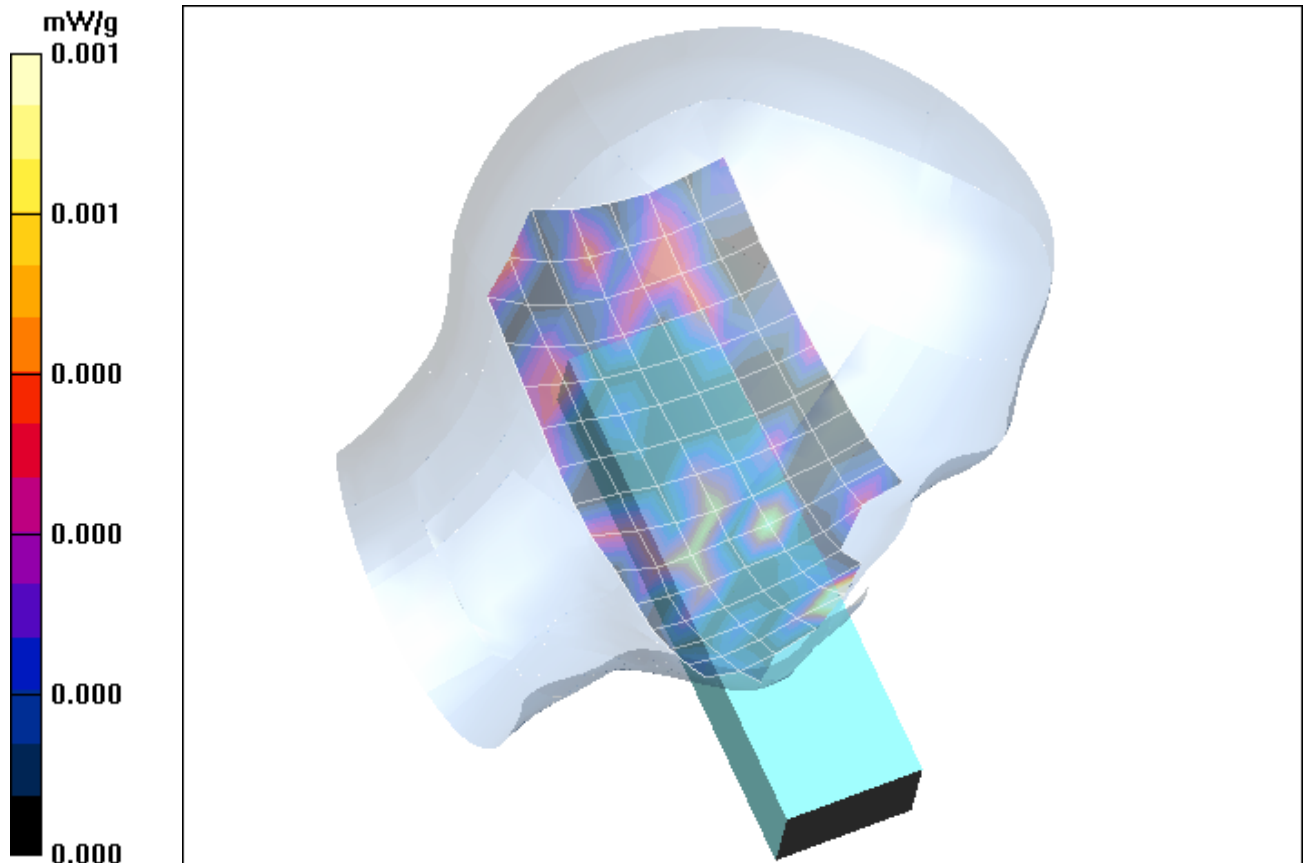


Fig. 2: SAR distribution for DECT US, channel 2, tilted position, left side of head (May 15, 2007; Ambient Temperature: 21.9°C; Liquid Temperature: 21.0°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [5330_handset_yprm_1_Ant1.da4](#)

DUT: MITEL; Type: Corless Handset

Program Name: Cheek Right

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used (extrapolated): $f = 1924.99$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.09.2006

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

- Electronics: DAE4 Sn631; Calibrated: 11.07.2006

- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340

- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek Right/Area Scan (8x17x1): 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

Peak SAR (extrapolated) = 0.000 W/kg

SAR(1 g) = n.a. ; SAR(10 g) = n.a.

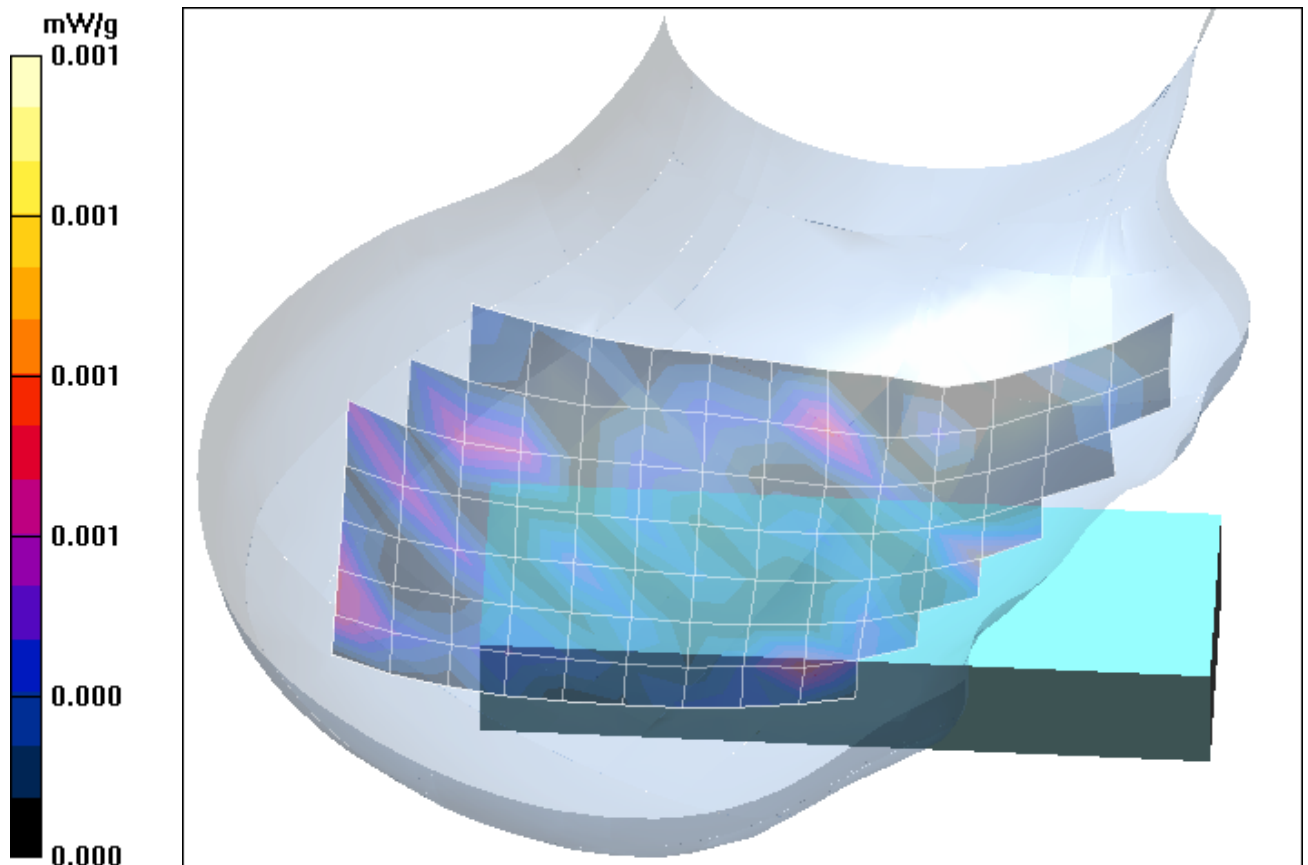


Fig. 3: SAR distribution for DECT US, channel 2, cheek position, right side of head (May 15, 2007; Ambient Temperature: 21.9°C; Liquid Temperature: 21.0°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [5330_handset_yprm_2_Ant1.da4](#)

DUT: MITEL; Type: Corless Handset

Program Name: Tilted Right

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used (extrapolated): $f = 1924.99$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.09.2006

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

- Electronics: DAE4 Sn631; Calibrated: 11.07.2006

- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340

- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilted Right/Area Scan (8x17x1): Measurement grid: dx=15mm, dy=15mm

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

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

Peak SAR (extrapolated) = 0.002 W/kg

SAR(1 g) = n.a. ; SAR(10 g) = n.a.

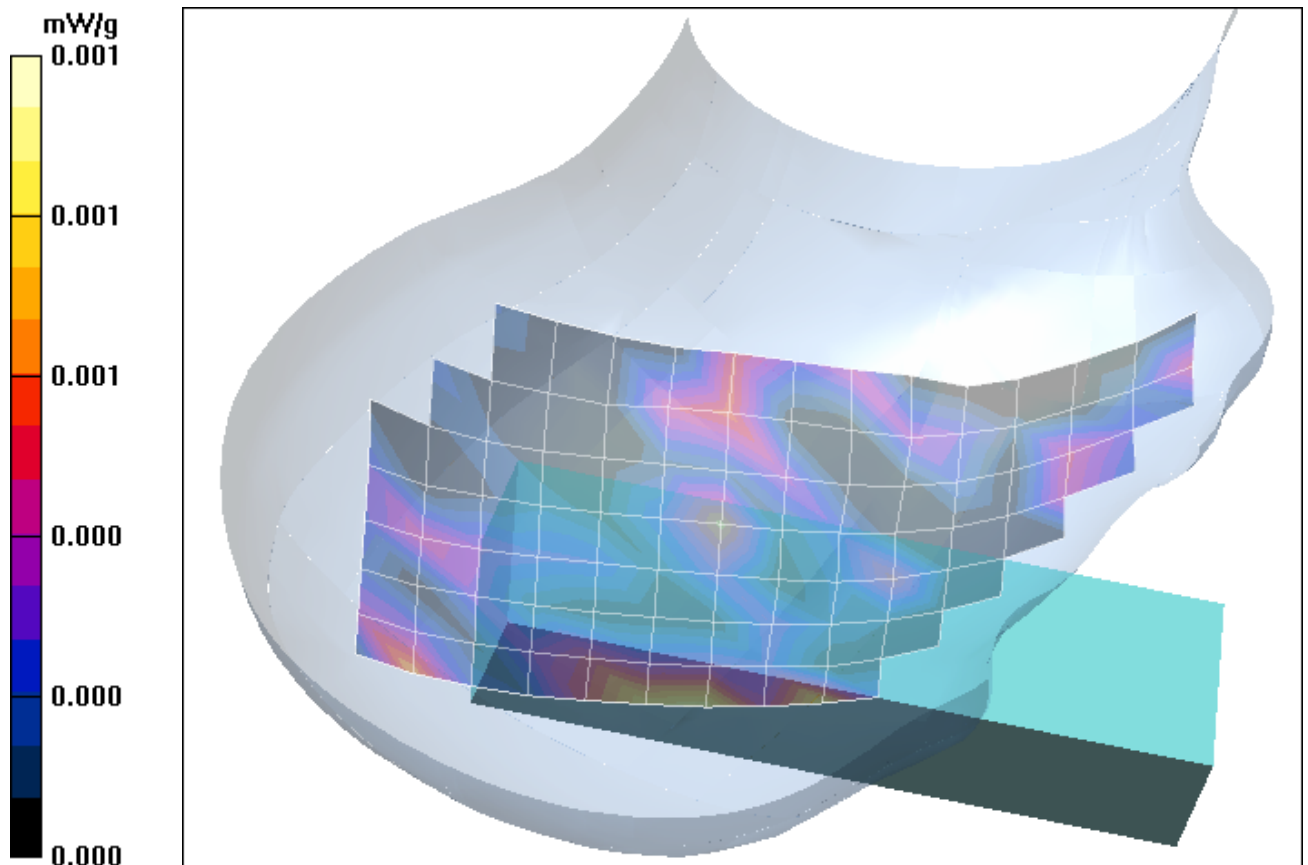


Fig. 4: SAR distribution for DECT US, channel 2, tilted position, right side of head (May 15, 2007; Ambient Temperature: 21.9°C; Liquid Temperature: 21.0°C)

2 SAR Distribution Plots, Head Measurements, Antenna 2

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [5330_handset_yplm_1_Ant2.da4](#)

DUT: MITEL; Type: Corless Handset

Program Name: Cheek Left

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used (extrapolated): $f = 1924.99$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.09.2006

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

- Electronics: DAE4 Sn631; Calibrated: 11.07.2006

- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340

- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek Left/Area Scan (8x17x1): Measurement grid: dx=15mm, dy=15mm

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

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

Peak SAR (extrapolated) = 0.002 W/kg

SAR(1 g) = n.a. ; SAR(10 g) = n.a.

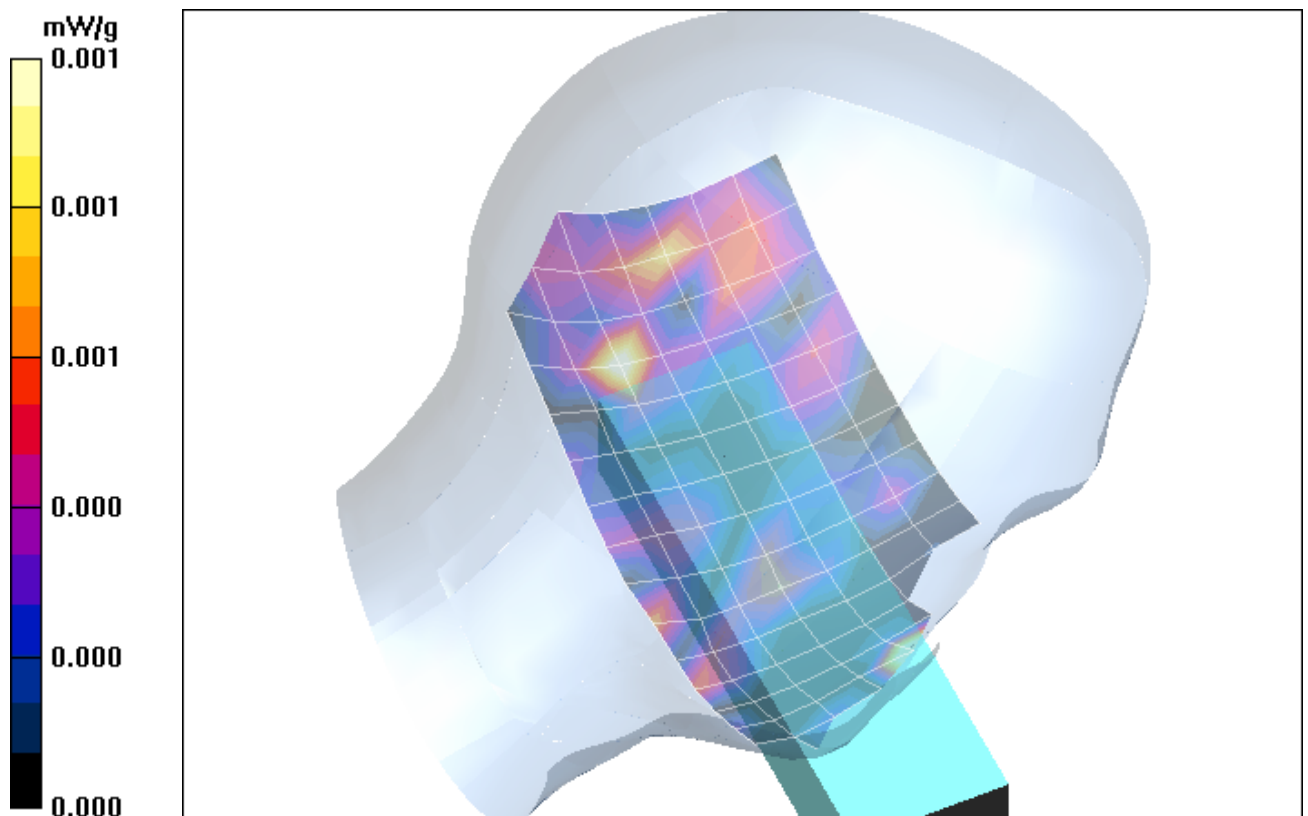


Fig. 5: SAR distribution for DECT US, channel 2, cheek position, left side of head (May 15, 2007; Ambient Temperature: 21.9°C; Liquid Temperature: 21.0°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [5330_handset_yplm_2_Ant2.da4](#)

DUT: MITEL; Type: Corless Handset

Program Name: Tilted Left

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used (extrapolated): $f = 1924.99$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.09.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilted Left/Area Scan (8x17x1): Measurement grid: dx=15mm, dy=15mm

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

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

Peak SAR (extrapolated) = 0.051 W/kg

SAR(1 g) = n.a. ; SAR(10 g) = n.a.

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

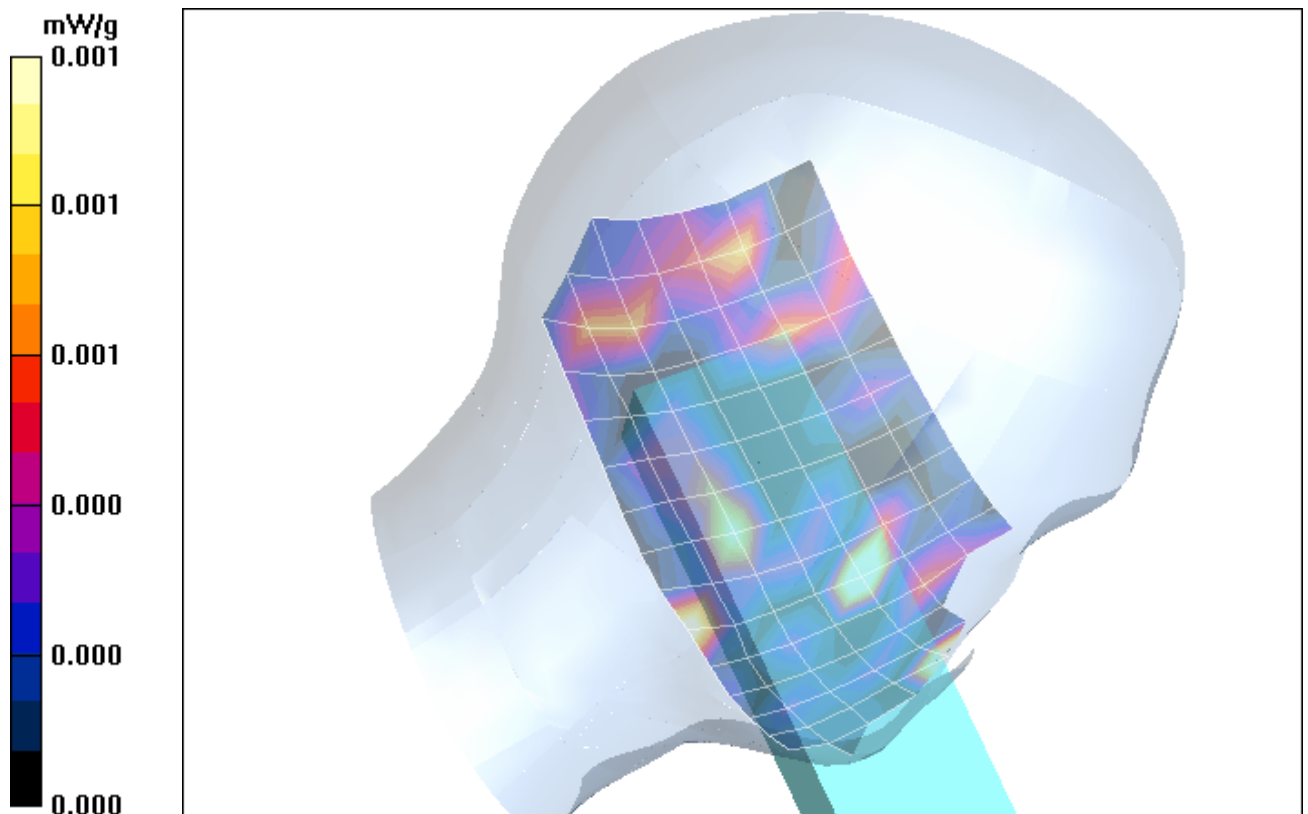


Fig. 6: SAR distribution for DECT US, channel 2, tilted position, left side of head (May 15, 2007; Ambient Temperature: 21.9°C; Liquid Temperature: 21.0°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [5330_handset_yprm_1_Ant2.da4](#)

DUT: MITEL; Type: Corless Handset

Program Name: Cheek Right

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used (extrapolated): $f = 1924.99$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.09.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek Right/Area Scan (8x17x1): 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

Peak SAR (extrapolated) = 0.001 W/kg

SAR(1 g) = n.a. ; SAR(10 g) = n.a.

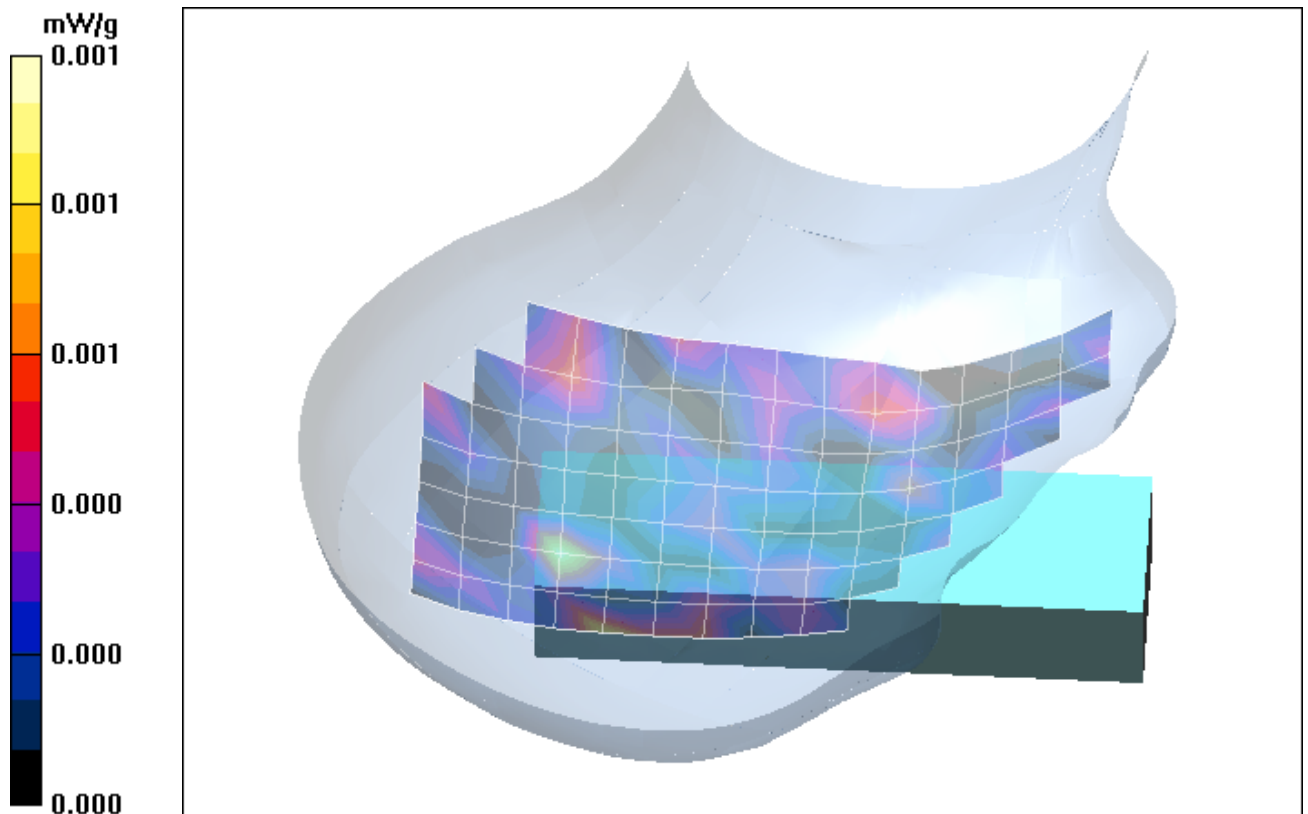


Fig. 7: SAR distribution for DECT US, channel 2, cheek position, right side of head (May 15, 2007; Ambient Temperature: 21.9°C; Liquid Temperature: 21.0°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [5330_handset_yprm_2_Ant2.da4](#)

DUT: MITEL; Type: Corless Handset

Program Name: Tilted Right

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used (extrapolated): $f = 1924.99$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.09.2006

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

- Electronics: DAE4 Sn631; Calibrated: 11.07.2006

- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340

- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilted Right/Area Scan (8x17x1): Measurement grid: dx=15mm, dy=15mm

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

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

Peak SAR (extrapolated) = 0.001 W/kg

SAR(1 g) = n.a. ; SAR(10 g) = n.a.

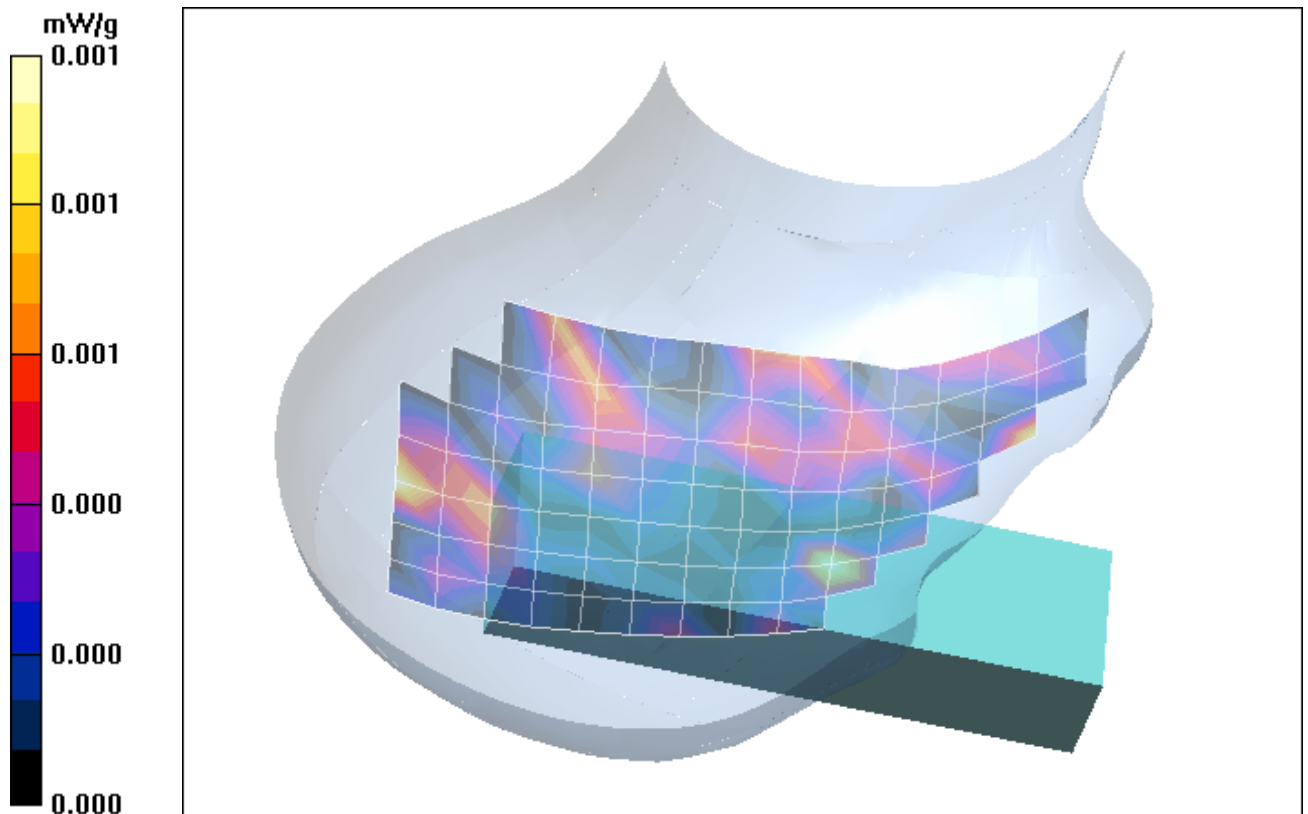


Fig. 8: SAR distribution for DECT US, channel 2, tilted position, right side of head (May 15, 2007; Ambient Temperature: 21.9°C; Liquid Temperature: 21.0°C)

3 SAR z-axis scans (Validation)

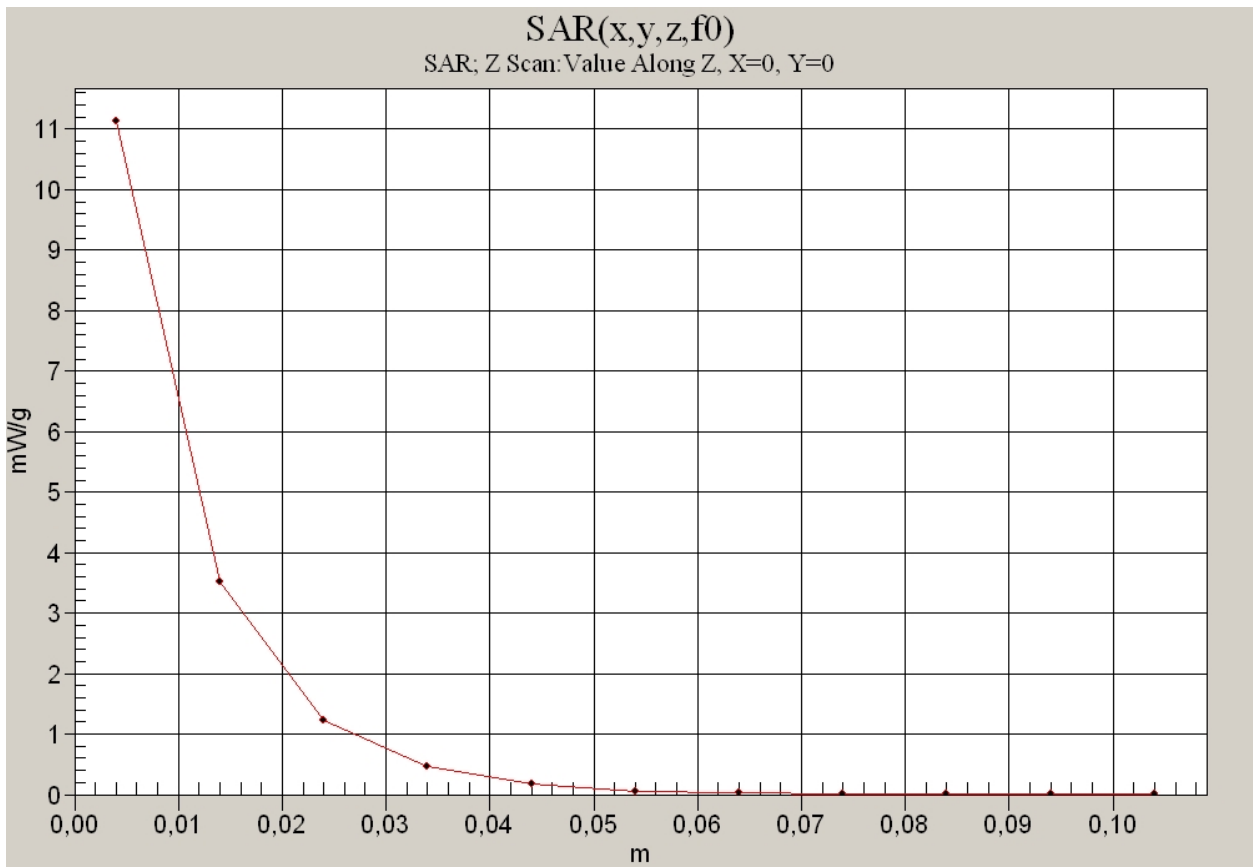


Fig. 9: SAR versus liquid depth, 1900 MHz, head (May 15, 2007; Ambient Temperature: 21.8° C; Liquid Temperature : 21.0° C).

4 SAR z-axis scans (Measurements)

Due to the not detectable values, plots were not listed