

# **Appendix for the Report**

## **Dosimetric Assessment of the Portable Device RTX8111 (FCC ID: T7HCT8111) (IC: 4979B-CT8111)**

### **According to the FCC Requirements SAR Distribution Plots**

January 26, 2012

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## 1 SAR Distribution Plots, Head Measurements, Antenna 1

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [RTX8111\\_yplm\\_1\\_ant1.da4](#)

DUT: RTX; Type: 8111;

Program Name: DECT

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 38.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (8x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.078 mW/g

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

Reference Value = 5.99 V/m; Power Drift = 0.032 dB

Peak SAR (extrapolated) = 0.122 W/kg

**SAR(1 g) = 0.073 mW/g; SAR(10 g) = 0.041 mW/g**

Maximum value of SAR (measured) = 0.079 mW/g

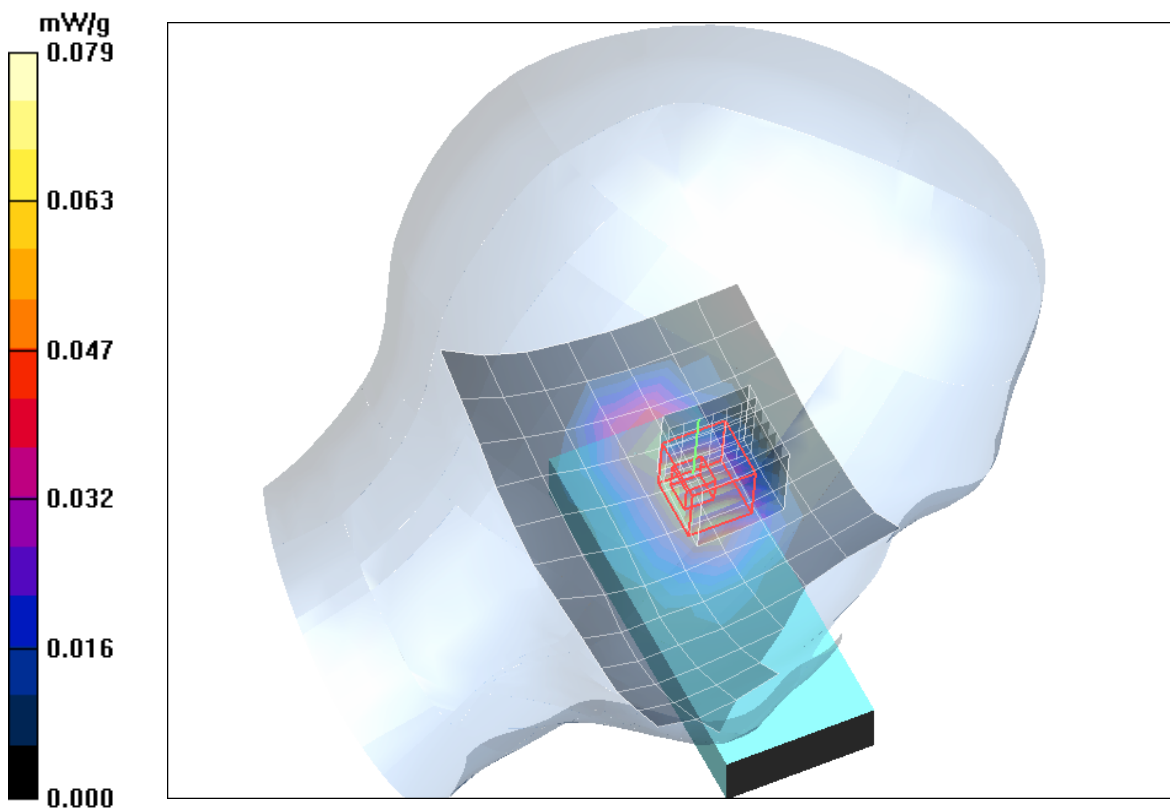


Fig. 1: SAR distribution for DECT US, antenna 1, channel 2, cheek position, left side of head (January 19, 2012; Ambient Temperature: 21.5°C; Liquid Temperature: 21.3°C).

**Test Laboratory:** Imst GmbH, DASY Yellow (II); **File Name:** [RTX8111\\_yplm\\_2\\_ant1.da4](#)

**DUT:** RTX; **Type:** 8111;

**Program Name:** DECT

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 38.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (8x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.040 mW/g

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

Reference Value = 4.94 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 0.064 W/kg

**SAR(1 g) = 0.038 mW/g; SAR(10 g) = 0.021 mW/g**

Maximum value of SAR (measured) = 0.042 mW/g

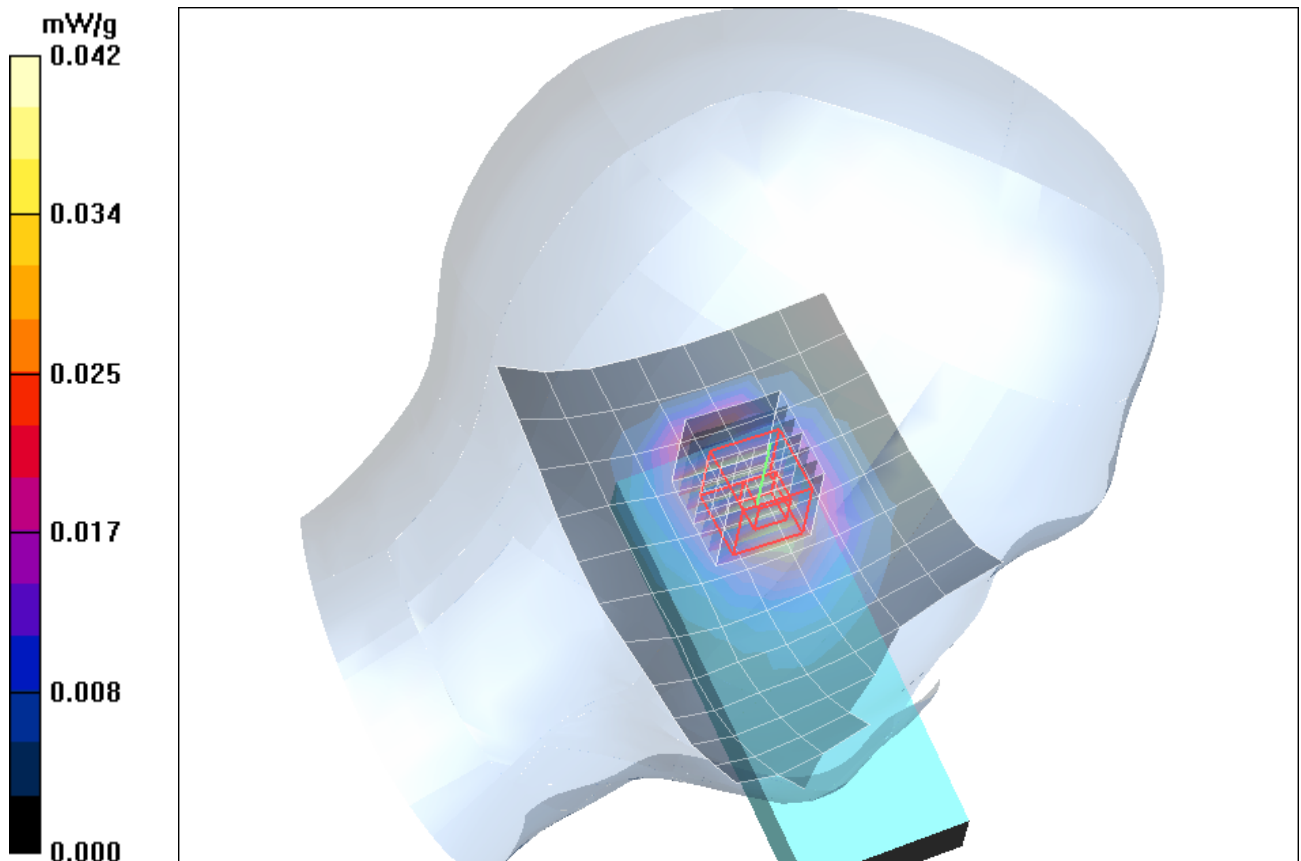


Fig. 2: SAR distribution for DECT US, antenna 1, channel 2, tilted position, left side of head (January 19, 2012; Ambient Temperature: 21.5°C; Liquid Temperature: 21.3°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [RTX8111\\_yprm\\_1\\_ant1.da4](#)

DUT: RTX; Type: 8111;

Program Name: DECT

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 38.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (8x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.056 mW/g

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

Reference Value = 5.51 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 0.088 W/kg

**SAR(1 g) = 0.055 mW/g; SAR(10 g) = 0.033 mW/g**

Maximum value of SAR (measured) = 0.060 mW/g

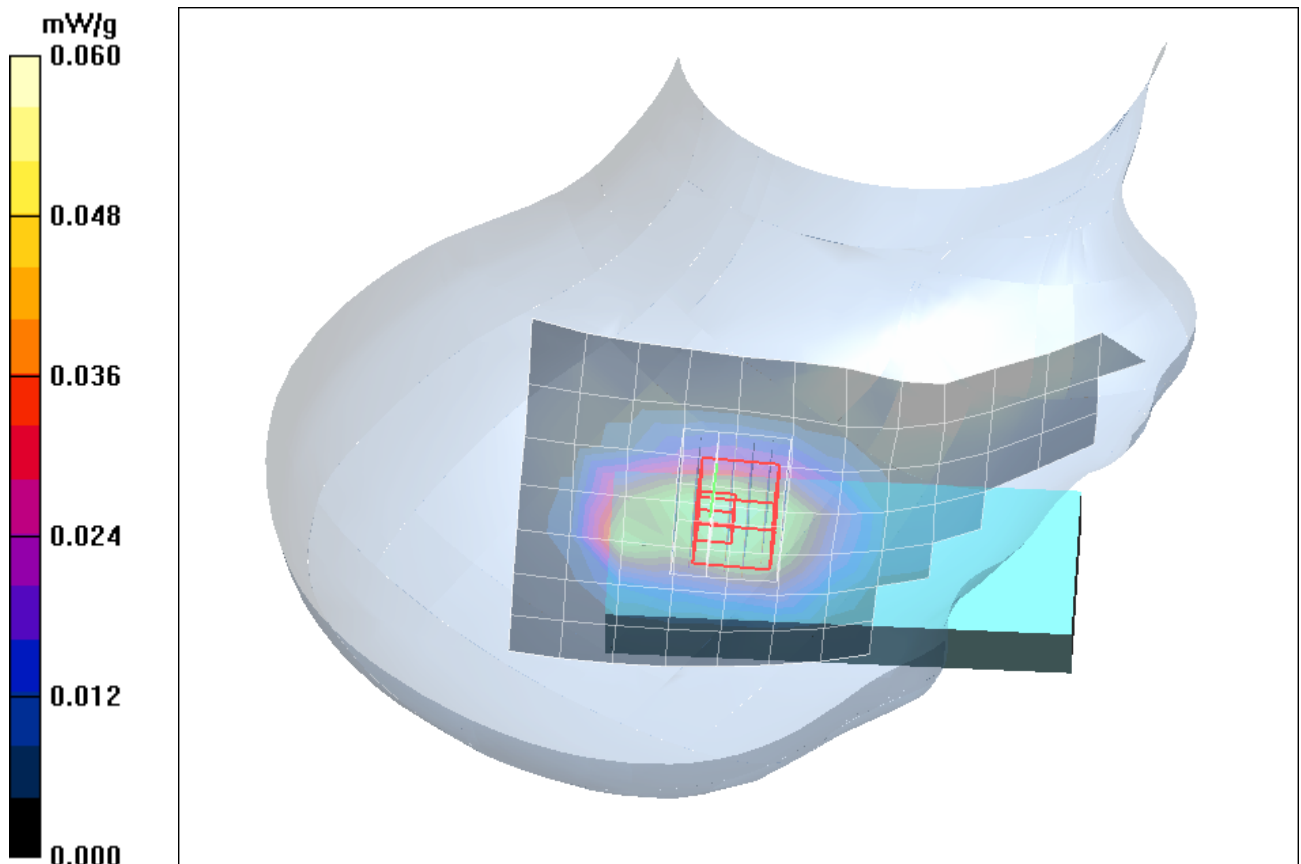


Fig. 3: SAR distribution for DECT US, antenna 1, channel 2, cheek position, right side of head (January 19, 2012; Ambient Temperature: 21.5°C; Liquid Temperature: 21.3°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [RTX8111\\_yprm\\_2\\_ant1.da4](#)

DUT: RTX; Type: 8111;

Program Name: DECT

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 38.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (8x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.031 mW/g

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

Reference Value = 4.47 V/m; Power Drift = 0.088 dB

Peak SAR (extrapolated) = 0.059 W/kg

**SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.017 mW/g**

Maximum value of SAR (measured) = 0.034 mW/g

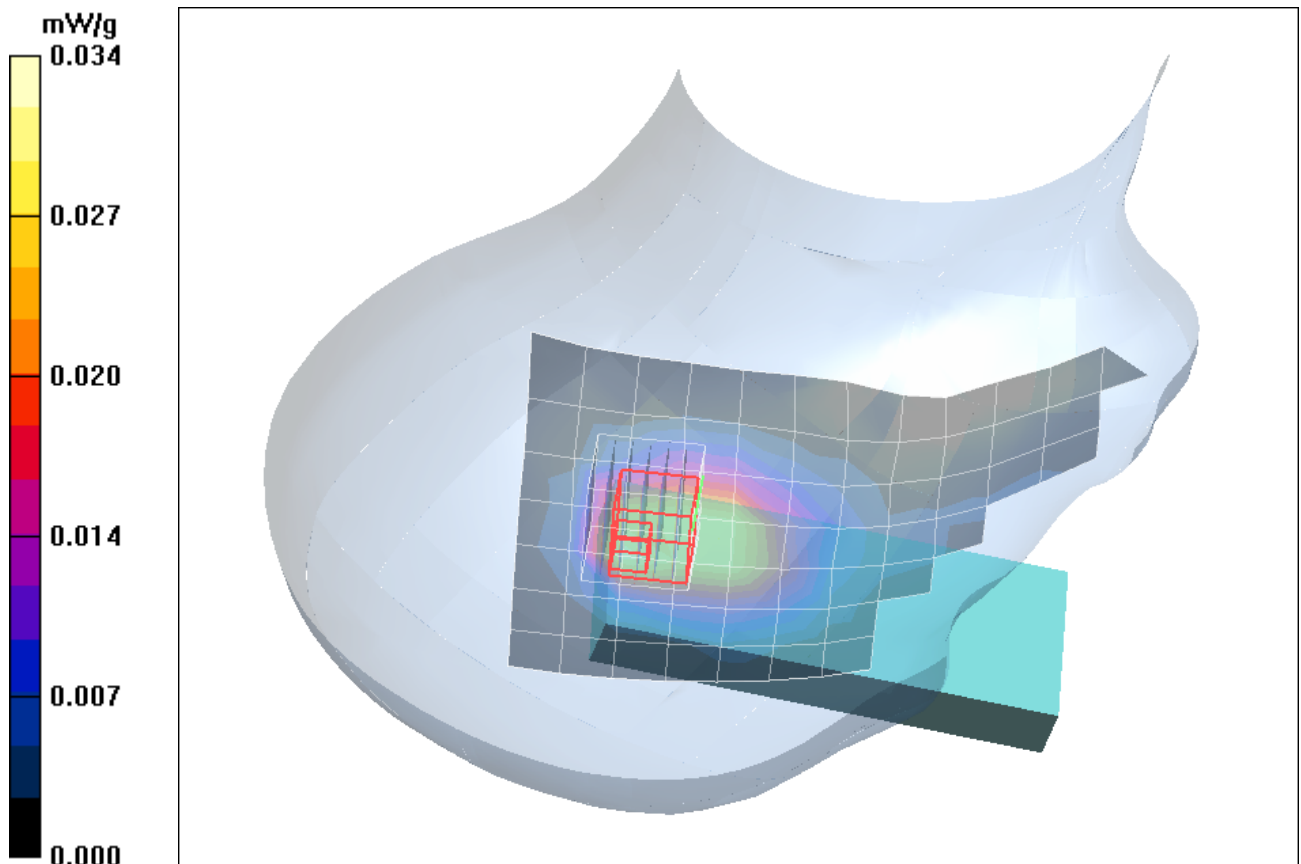


Fig. 4: SAR distribution for DECT US, antenna 1, channel 2, tilted position, right side of head (January 19, 2012; Ambient Temperature: 21.5°C; Liquid Temperature: 21.3°C)

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

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [RTX8111\\_yplm\\_1\\_ant2.da4](#)

DUT: RTX; Type: 8111;

Program Name: DECT

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 38.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (8x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.020 mW/g

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

Reference Value = 3.32 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 0.037 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

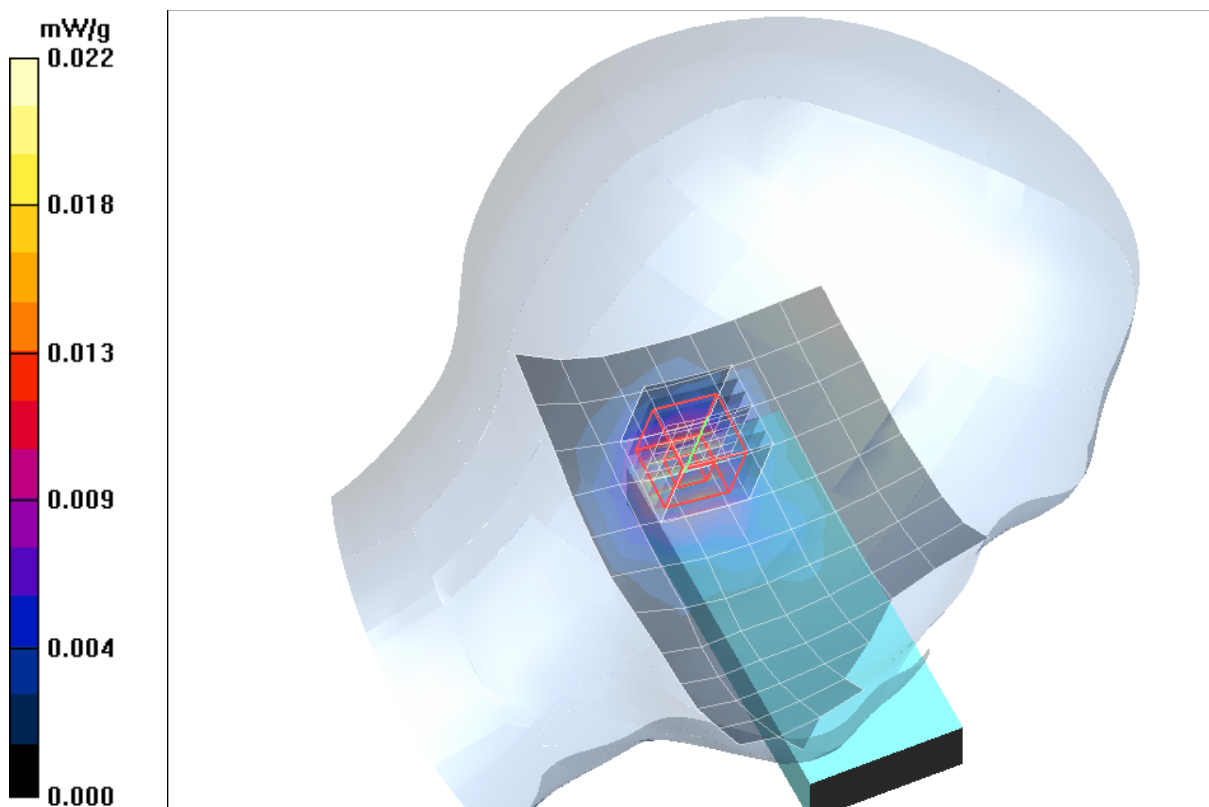


Fig. 5: SAR distribution for DECT US, antenna 2, channel 2, cheek position, left side of head (January 19, 2012; Ambient Temperature: 21.5°C; Liquid Temperature: 21.3°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [RTX8111\\_yplm\\_2\\_ant2.da4](#)

DUT: RTX; Type: 8111;

Program Name: DECT

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 38.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (8x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.014 mW/g

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

Reference Value = 2.96 V/m; Power Drift = 0.084 dB

Peak SAR (extrapolated) = 0.026 W/kg

**SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00769 mW/g**

Maximum value of SAR (measured) = 0.016 mW/g

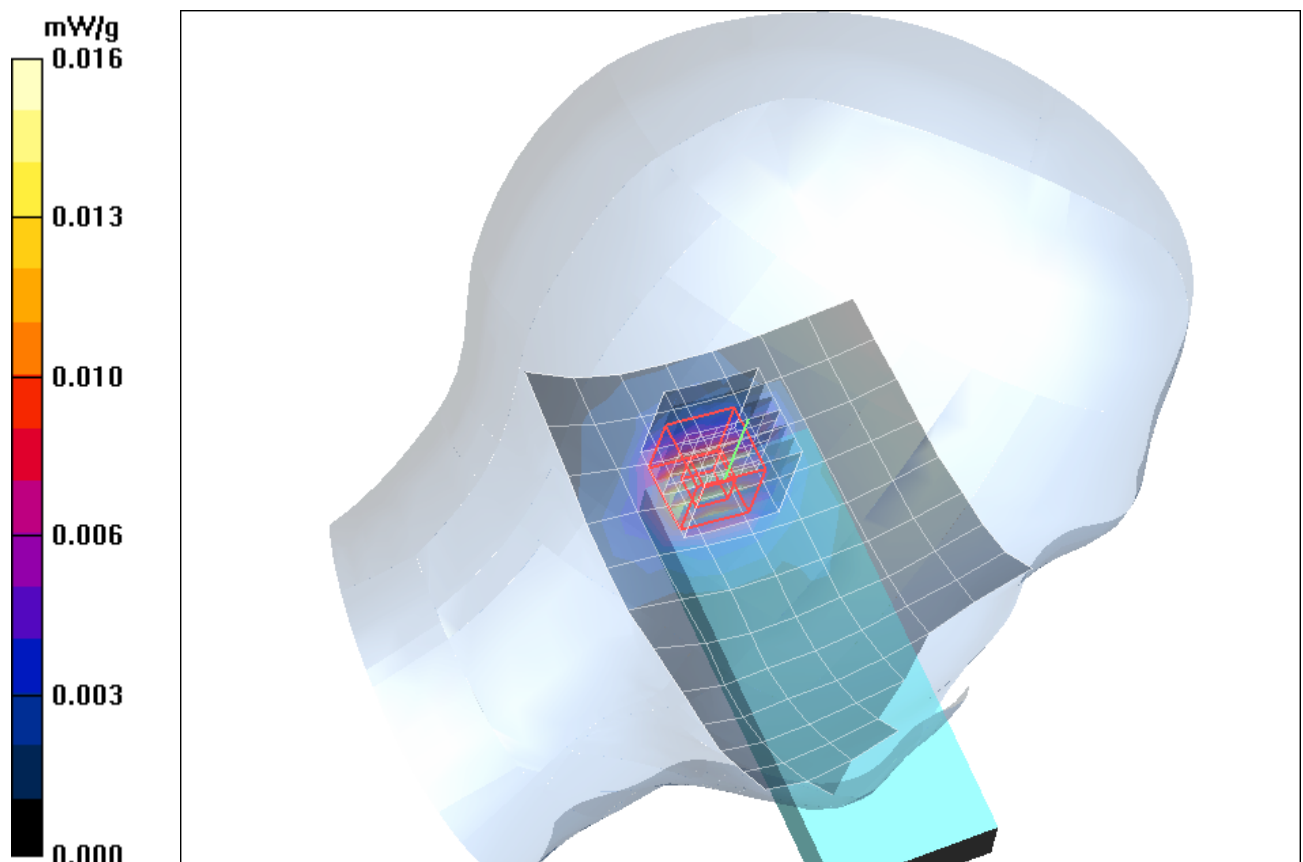


Fig. 6: SAR distribution for DECT US, antenna 2, channel 2, tilted position, left side of head (January 19, 2012; Ambient Temperature: 21.5°C; Liquid Temperature: 21.3°C).



Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [RTX8111\\_yprm\\_1\\_ant2.da4](#)

DUT: RTX; Type: 8111;

Program Name: DECT

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 38.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (8x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.031 mW/g

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

Reference Value = 3.17 V/m; Power Drift = 0.140 dB

Peak SAR (extrapolated) = 0.059 W/kg

**SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.015 mW/g**

Maximum value of SAR (measured) = 0.033 mW/g

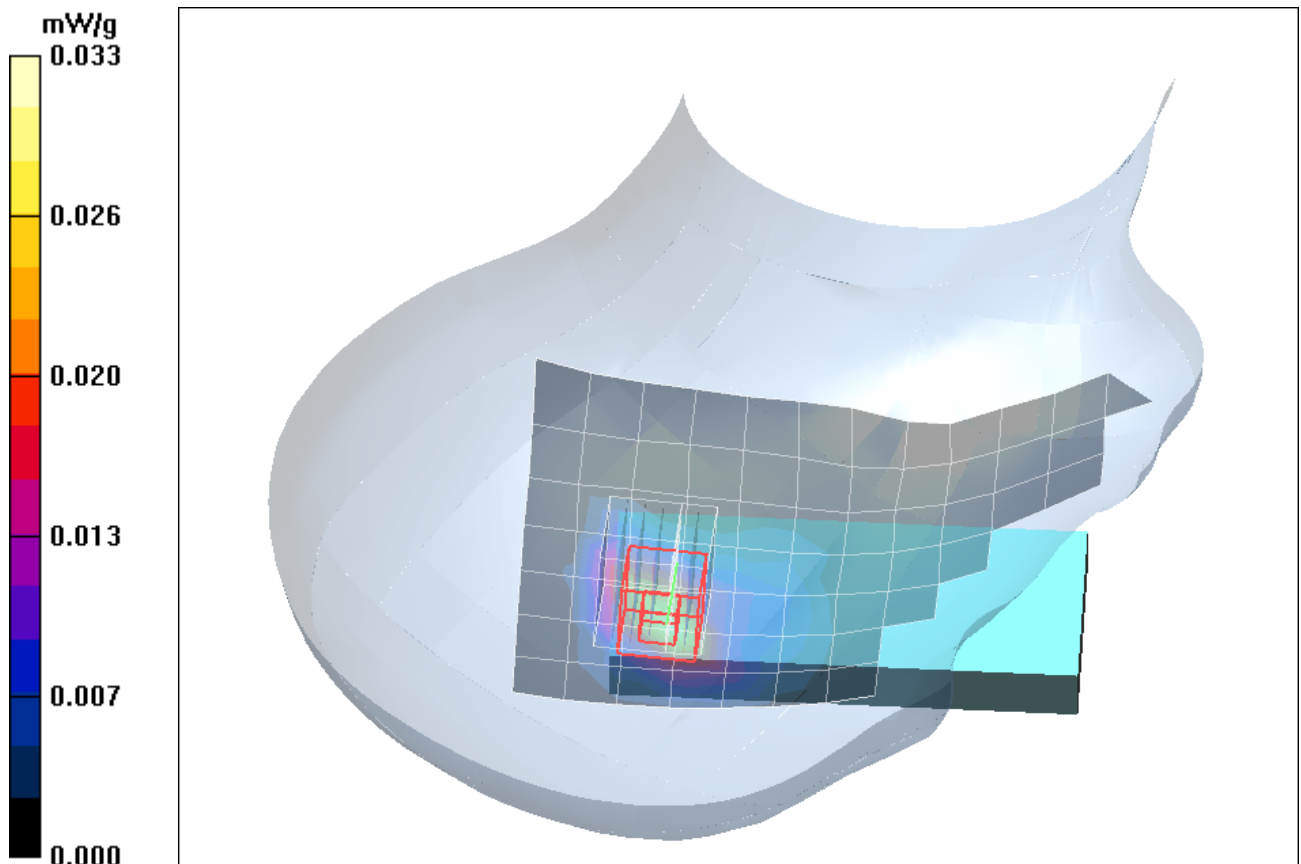


Fig. 7: SAR distribution for DECT US, antenna 2, channel 2, cheek position, right side of head (January 19, 2012; Ambient Temperature: 21.5°C; Liquid Temperature: 21.3°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [RTX8111\\_yprm\\_2\\_ant2.da4](#)

DUT: RTX; Type: 8111;

Program Name: DECT

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 38.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 (8x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.019 mW/g

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

Reference Value = 2.90 V/m; Power Drift = 0.155 dB

Peak SAR (extrapolated) = 0.037 W/kg

**SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.010 mW/g**

Maximum value of SAR (measured) = 0.023 mW/g

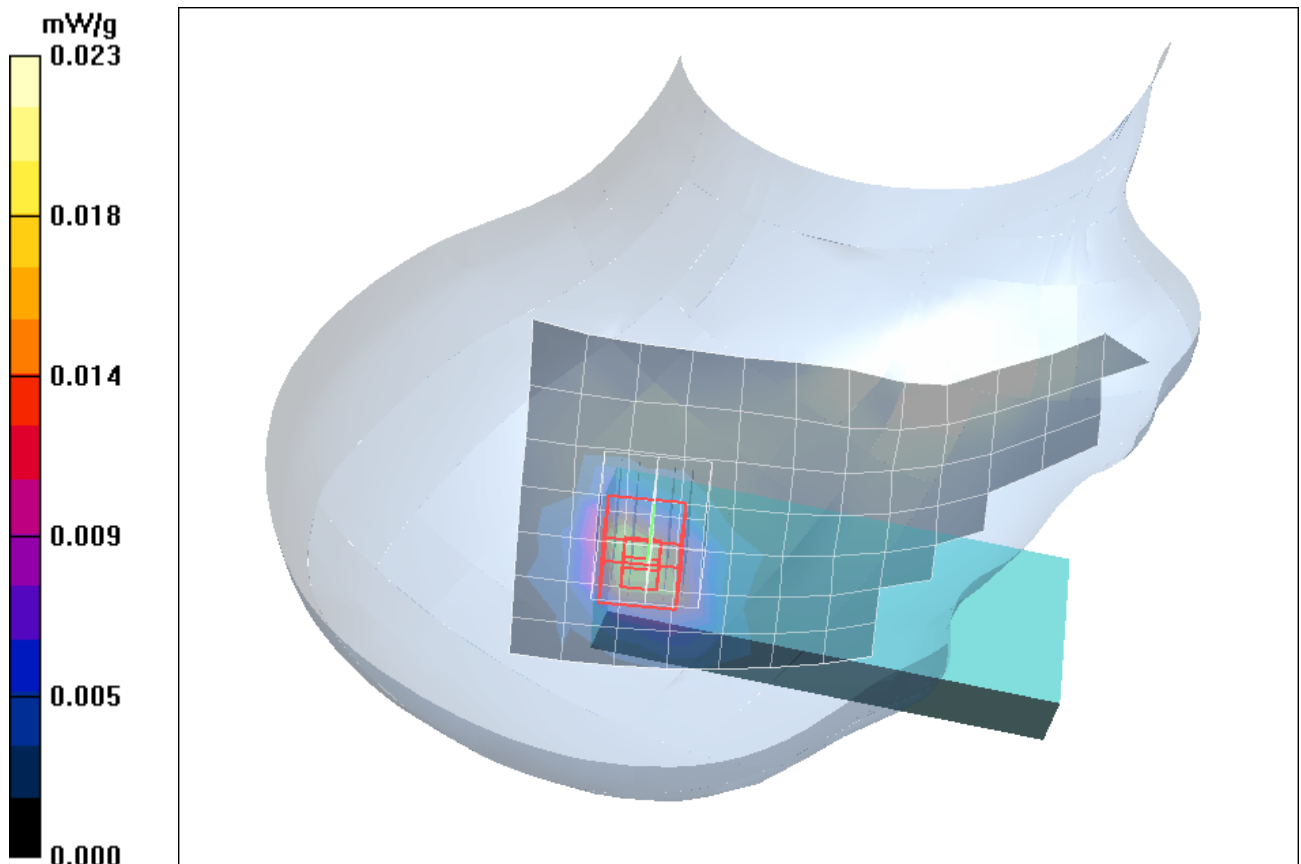


Fig. 8: SAR distribution for DECT US, antenna 2, channel 2, tilted position, right side of head (January 19, 2012; Ambient Temperature: 21.5°C; Liquid Temperature: 21.3°C)

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

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

[RTX8111\\_yphm\\_1\\_dspl\\_up\\_hs\\_ant1.da4](#)

DUT: RTX; Type: 8111;

Program Name: DECT

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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) = 0.083 mW/g

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

Reference Value = 2.78 V/m; Power Drift = 0.118 dB

Peak SAR (extrapolated) = 0.215 W/kg

**SAR(1 g) = 0.102 mW/g; SAR(10 g) = 0.048 mW/g**

Maximum value of SAR (measured) = 0.116 mW/g

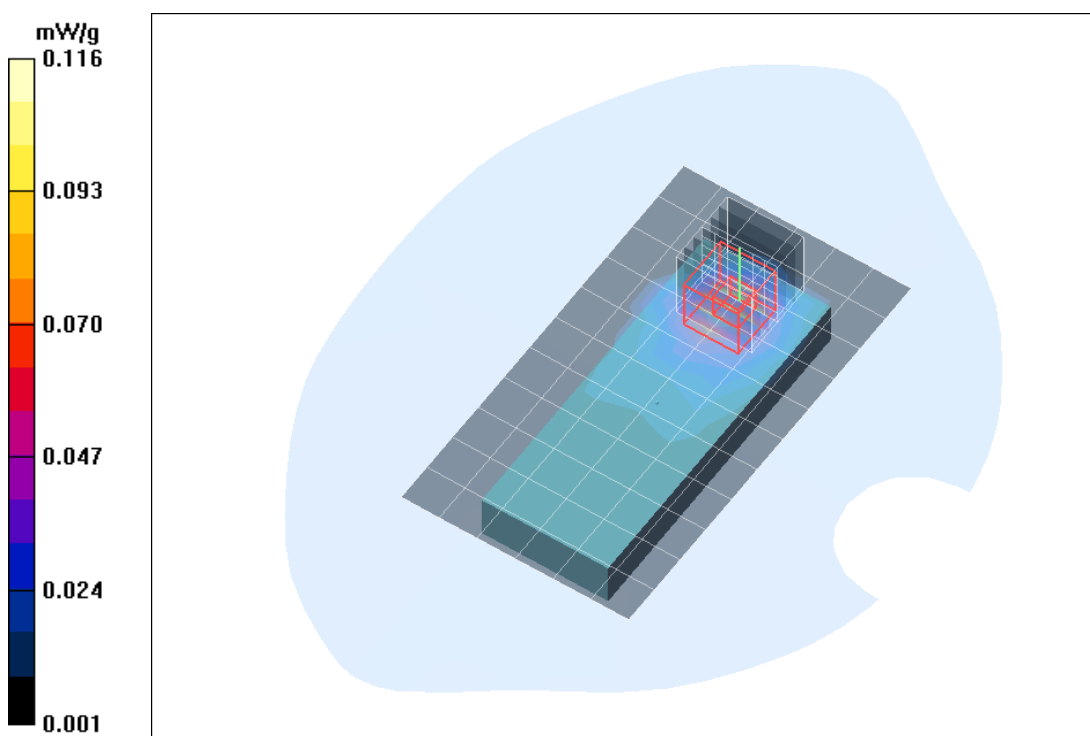


Fig. 9: SAR distribution for DECT US, antenna 1, channel 2, body worn configuration, display towards the phantom, with headset and 0 mm distance (January 17, 2012; Ambient Temperature: 21.3° C; Liquid Temperature: 21.1° C).

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

[RTX8111\\_yphm\\_2\\_dspl\\_down\\_hs\\_ant1.da4](#)

DUT: RTX; Type: 8111;

Program Name: DECT

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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) = 0.052 mW/g

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

Reference Value = 3.52 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 0.096 W/kg

**SAR(1 g) = 0.047 mW/g; SAR(10 g) = 0.024 mW/g**

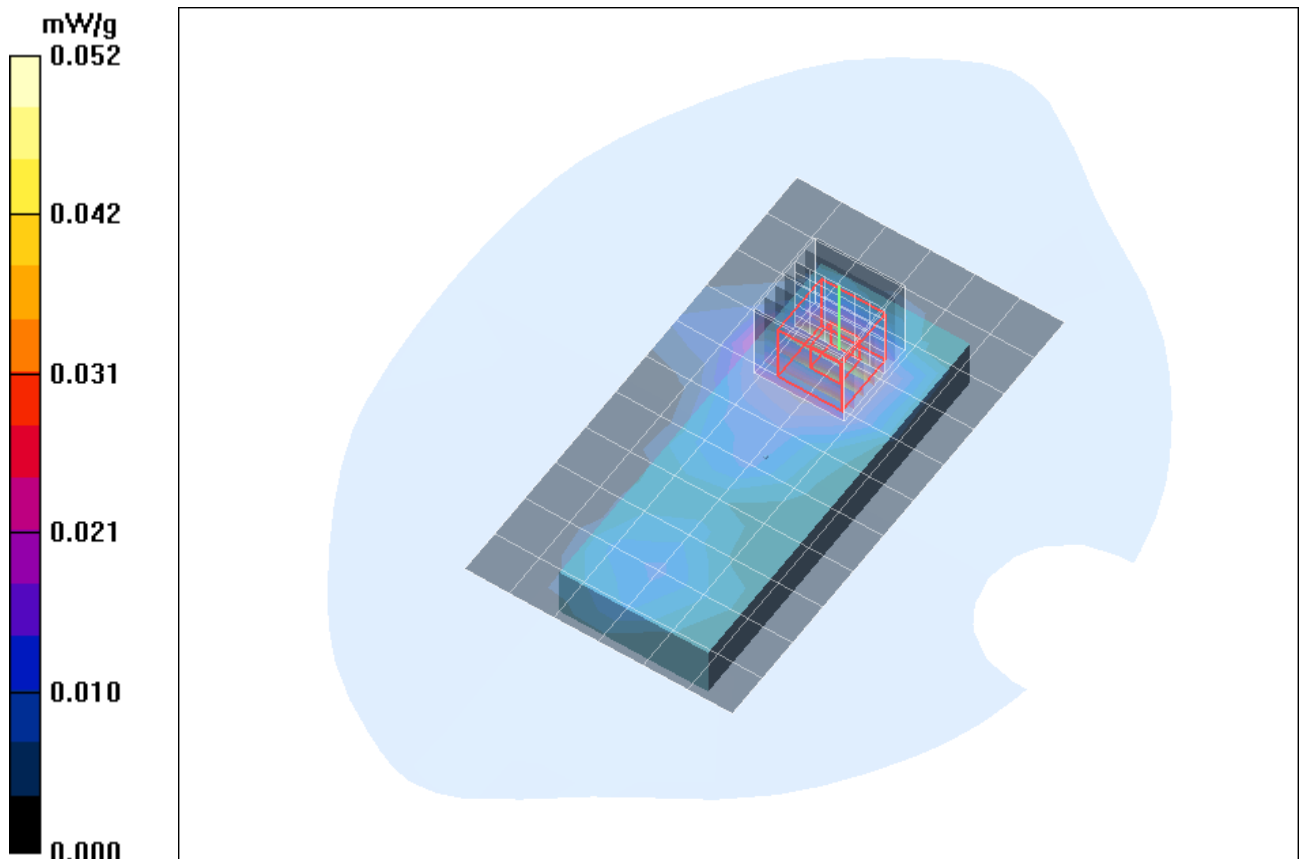


Fig. 10: SAR distribution for DECT US, antenna 1, channel 2, body worn configuration, display towards the ground, with headset and 0 mm distance (January 17, 2012; Ambient Temperature: 21.3° C; Liquid Temperature: 21.1° C).

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

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

[RTX8111\\_yphm\\_1\\_dspl\\_up\\_hs\\_ant2.da4](#)

DUT: RTX; Type: 8111;

Program Name: DECT

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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) = 0.044 mW/g

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

Reference Value = 1.18 V/m; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 0.086 W/kg

**SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.020 mW/g**

Maximum value of SAR (measured) = 0.046 mW/g

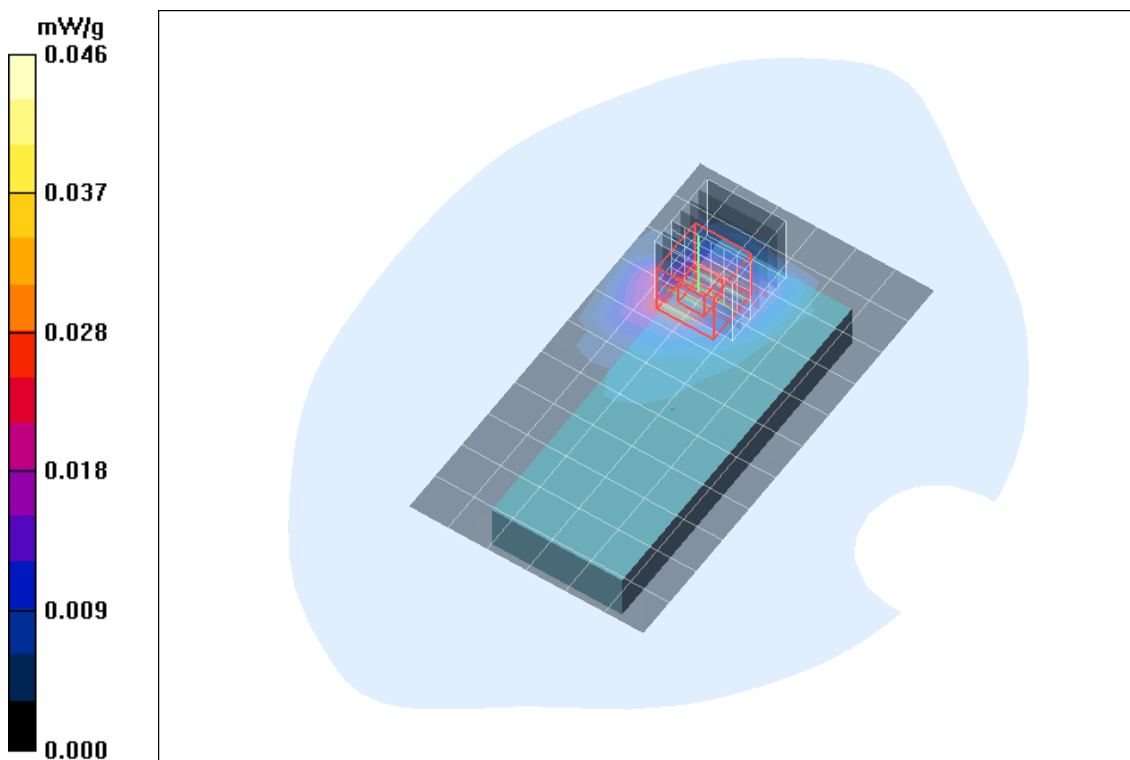


Fig. 11: SAR distribution for DECT US, antenna 2, channel 2, body worn configuration, display towards the phantom, with headset and 0 mm distance (January 17, 2012; Ambient Temperature: 21.3° C; Liquid Temperature: 21.1° C).

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

[RTX8111\\_yphm\\_2\\_dspl\\_down\\_hs\\_ant2.da4](#)

DUT: RTX; Type: 8111;

Program Name: DECT

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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) = 0.052 mW/g

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

Reference Value = 3.38 V/m; Power Drift = 0.195 dB

Peak SAR (extrapolated) = 0.107 W/kg

**SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.029 mW/g**

Maximum value of SAR (measured) = 0.064 mW/g

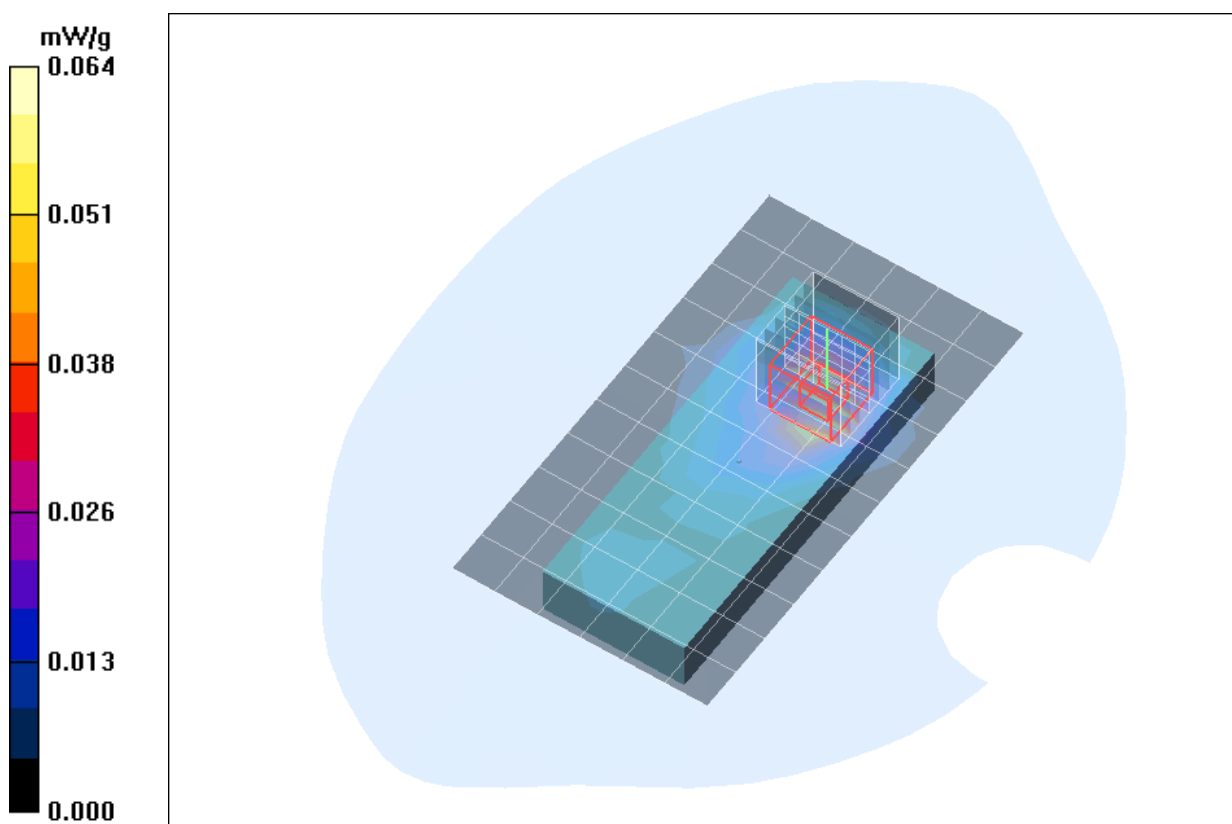


Fig. 12: SAR distribution for DECT US, antenna 2, channel 2, body worn configuration, display towards the ground, with headset and 0 mm distance (January 17, 2012; Ambient Temperature: 21.3° C; Liquid Temperature: 21.1° C).

## 5 SAR Z-Axis Scans (Validation)

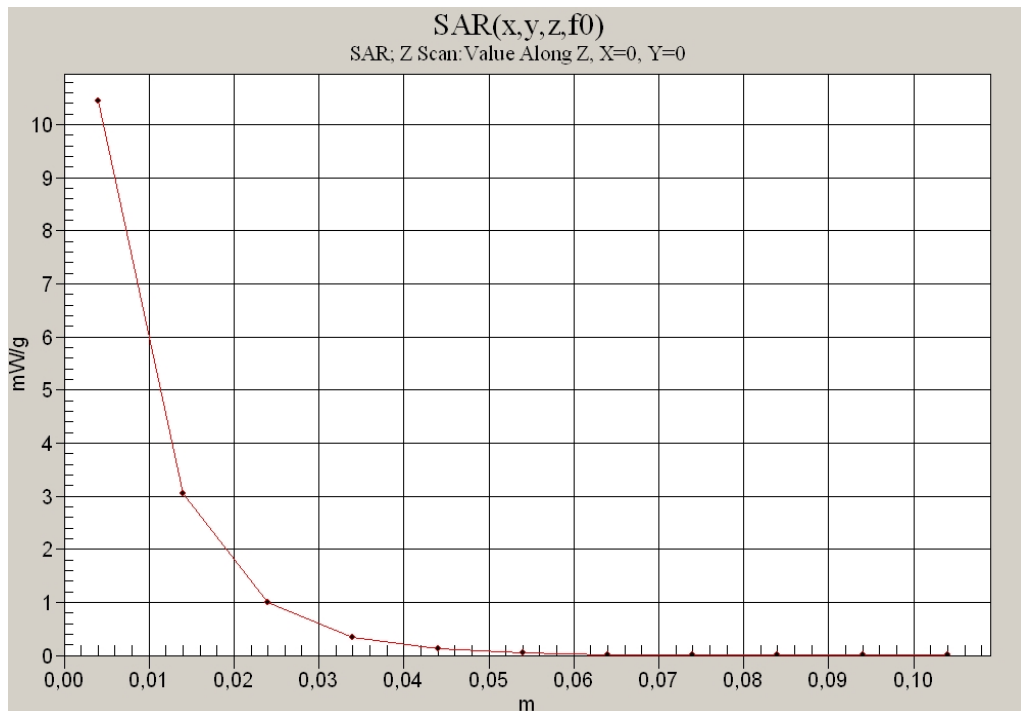


Fig. 13: SAR versus liquid depth, 1900 MHz, head (January 19, 2012; Ambient Temperature: 21.5° C; Liquid Temperature : 21.3° C).

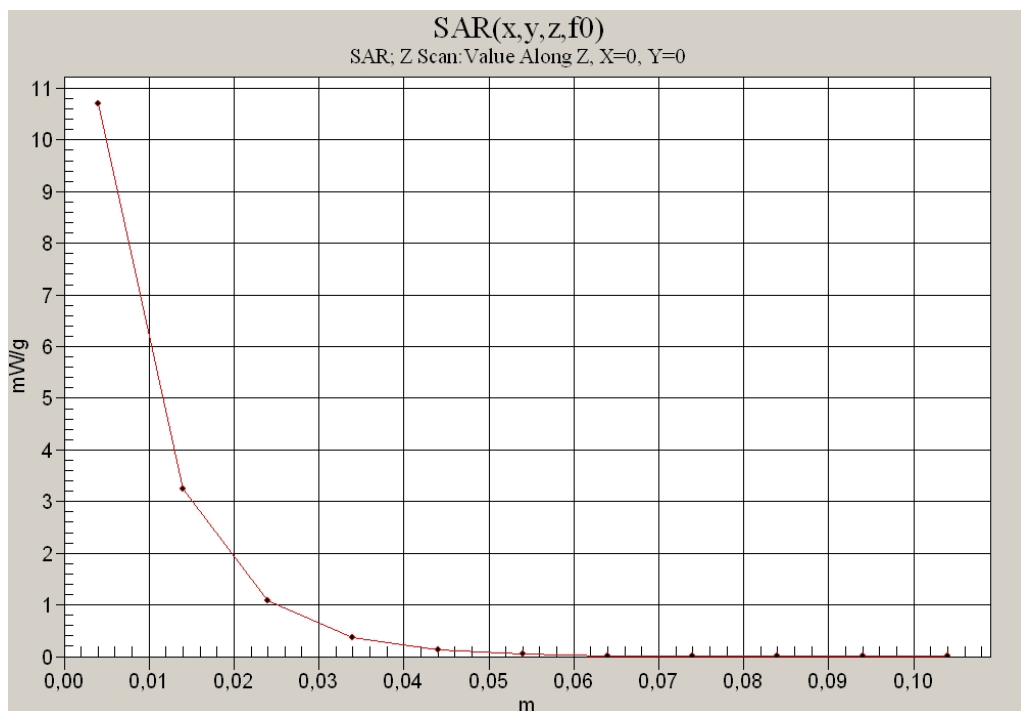


Fig. 14: SAR versus liquid depth, 1900 MHz, body (January 17, 2012; Ambient Temperature: 21.3° C; Liquid Temperature : 21.1° C).

## 6 SAR Z-Axis Scans (Measurements)

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

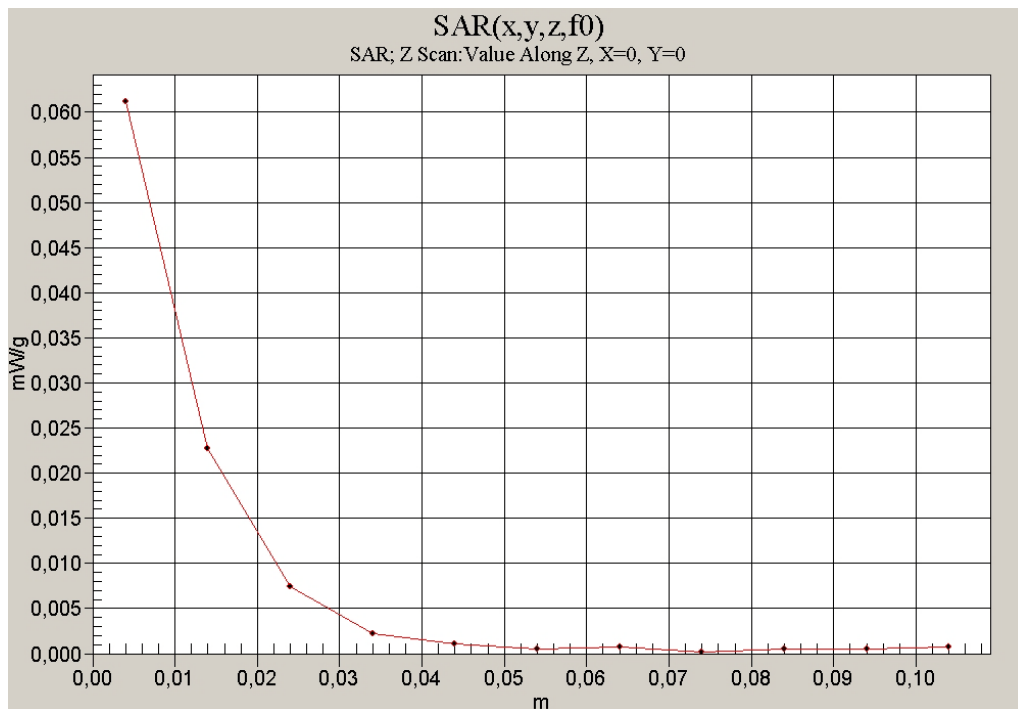


Fig. 15: SAR versus liquid depth, head: DECT US, antenna 1, channel 2, cheek position, left side of head (January 19, 2012; Ambient Temperature: 21.5° C; Liquid Temperature : 21.3° C).

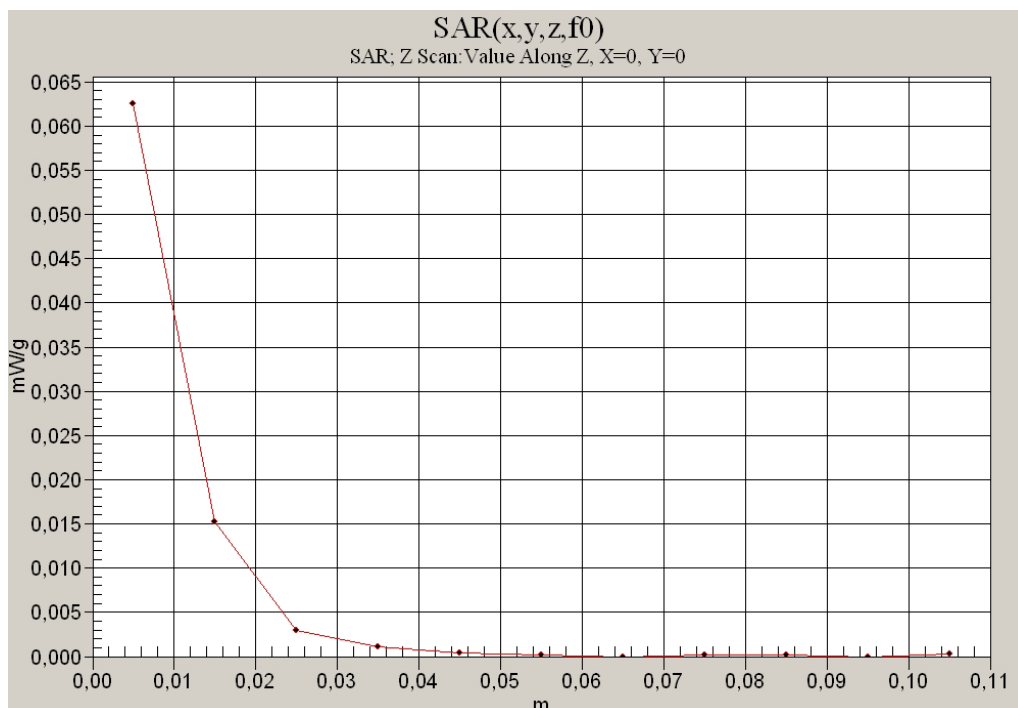


Fig. 16: SAR versus liquid depth, body: DECT US, antenna 1, channel 2, headset and 0 mm distance, display towards the phantom (January 17, 2012; Ambient Temperature: 21.3° C; Liquid Temperature: 21.1° C).