

Appendix for the SAR Test Report

Dosimetric Assessment of the Portable Device KX-TGFA30 from Panasonic (FCC ID: ACJ96NKX-TGFA30) (IC: 216A-KXTGFA30)

According to the FCC Requirements SAR Distribution Plots

December 10, 2014

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The test results only relate to the items tested.

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SAR Distribution Plots for Head and Body Worn Configuration

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGFA30_yplm_1.da4](#)

DUT: Panasonic; Type: KX-TGFA30;

Program Name: US DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5, 5, 5); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- 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) = 0.040 mW/g

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

Reference Value = 4.89 V/m; Power Drift = -0.082 dB

Peak SAR (extrapolated) = 0.073 W/kg

SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.021 mW/g

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

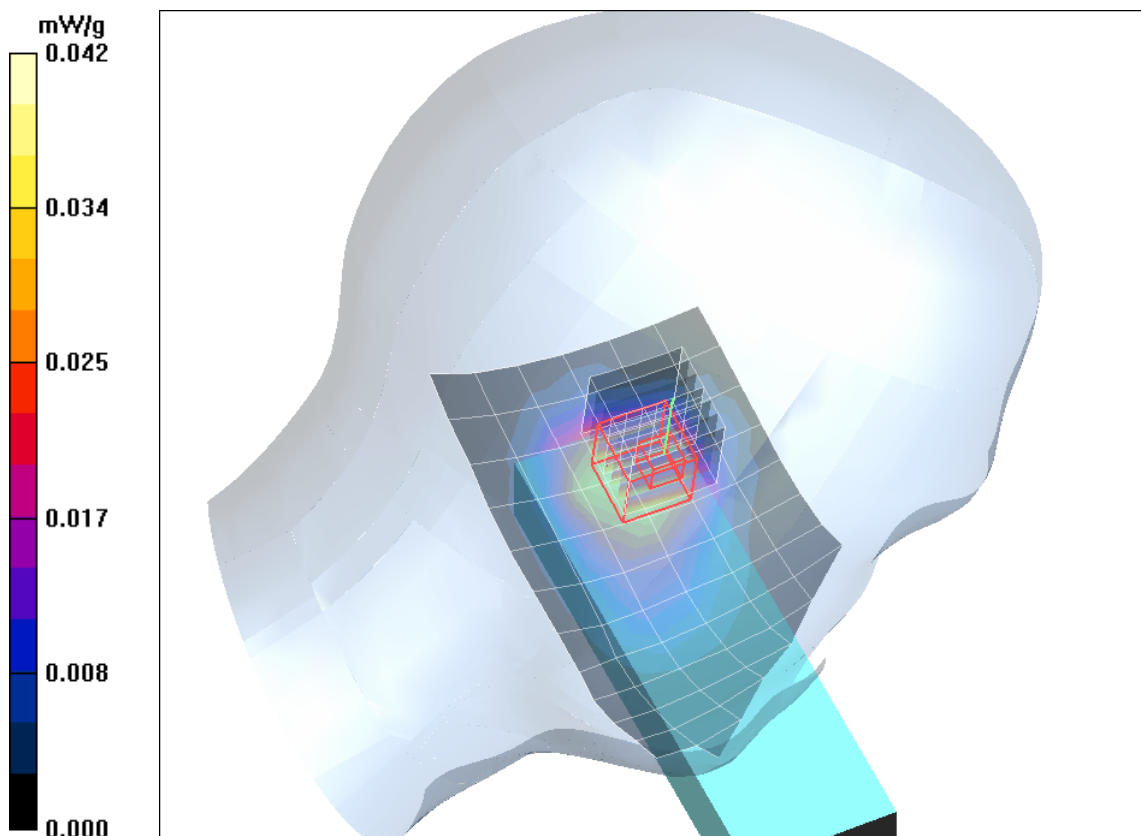


Fig. 1: SAR distribution for DECT US, channel 2, cheek position, left side of head (November 27, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [TGFA30_yplm_2.da4](#)

DUT: Panasonic; **Type:** KX-TGFA30;

Program Name: US DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5, 5, 5); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- 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) = 0.023 mW/g

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

Reference Value = 4.15 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.036 W/kg

SAR(1 g) = 0.022 mW/g; SAR(10 g) = 0.013 mW/g

Maximum value of SAR (measured) = 0.024 mW/g

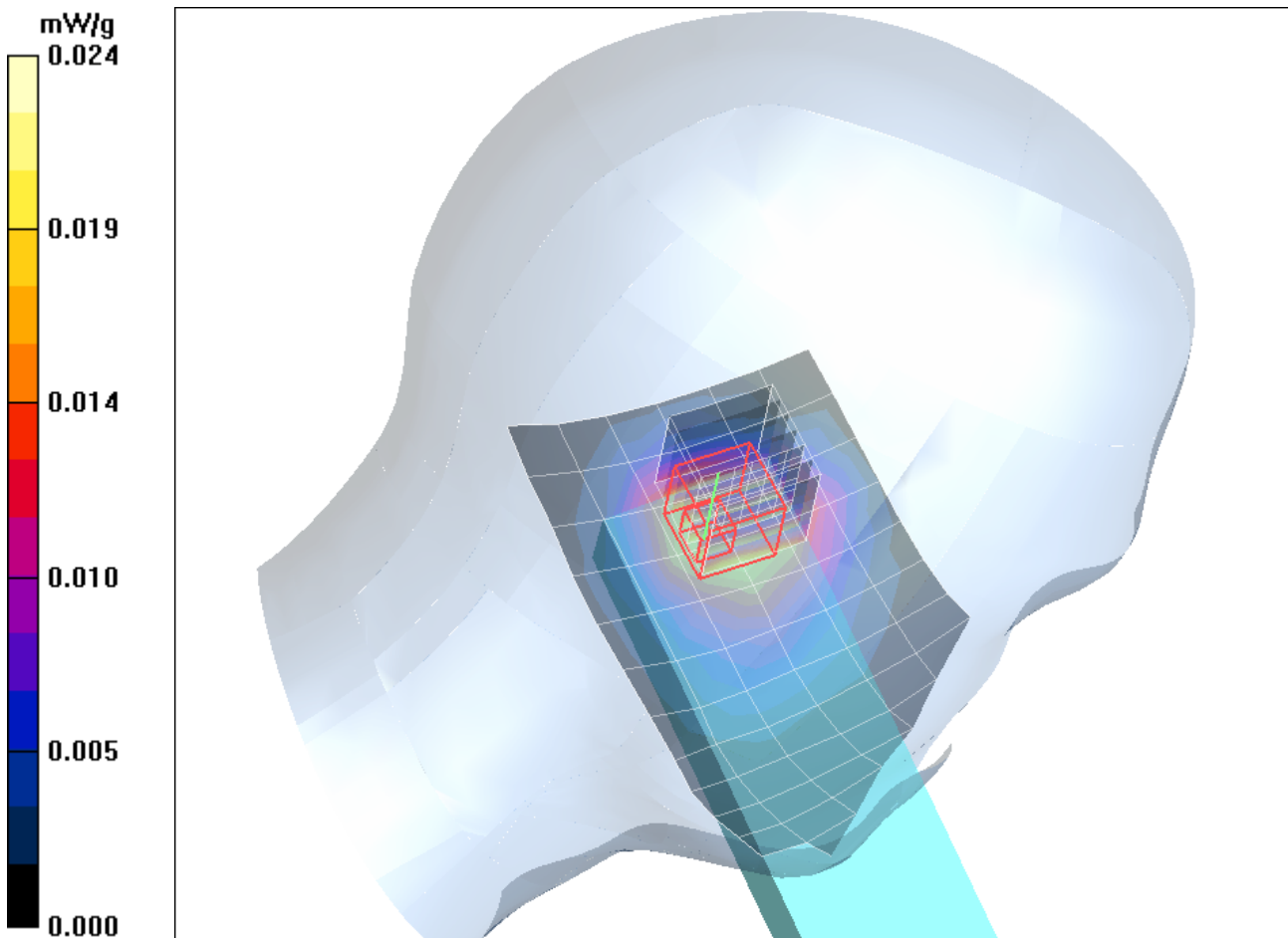


Fig. 2: SAR distribution for DECT US, channel 2, tilted position, left side of head (November 27, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [TGFA30_yprm_1.da4](#)

DUT: Panasonic; **Type:** KX-TGFA30;

Program Name: US DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5, 5, 5); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- 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: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.039 mW/g

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

Reference Value = 5.05 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 0.055 W/kg

SAR(1 g) = 0.036 mW/g; SAR(10 g) = 0.021 mW/g

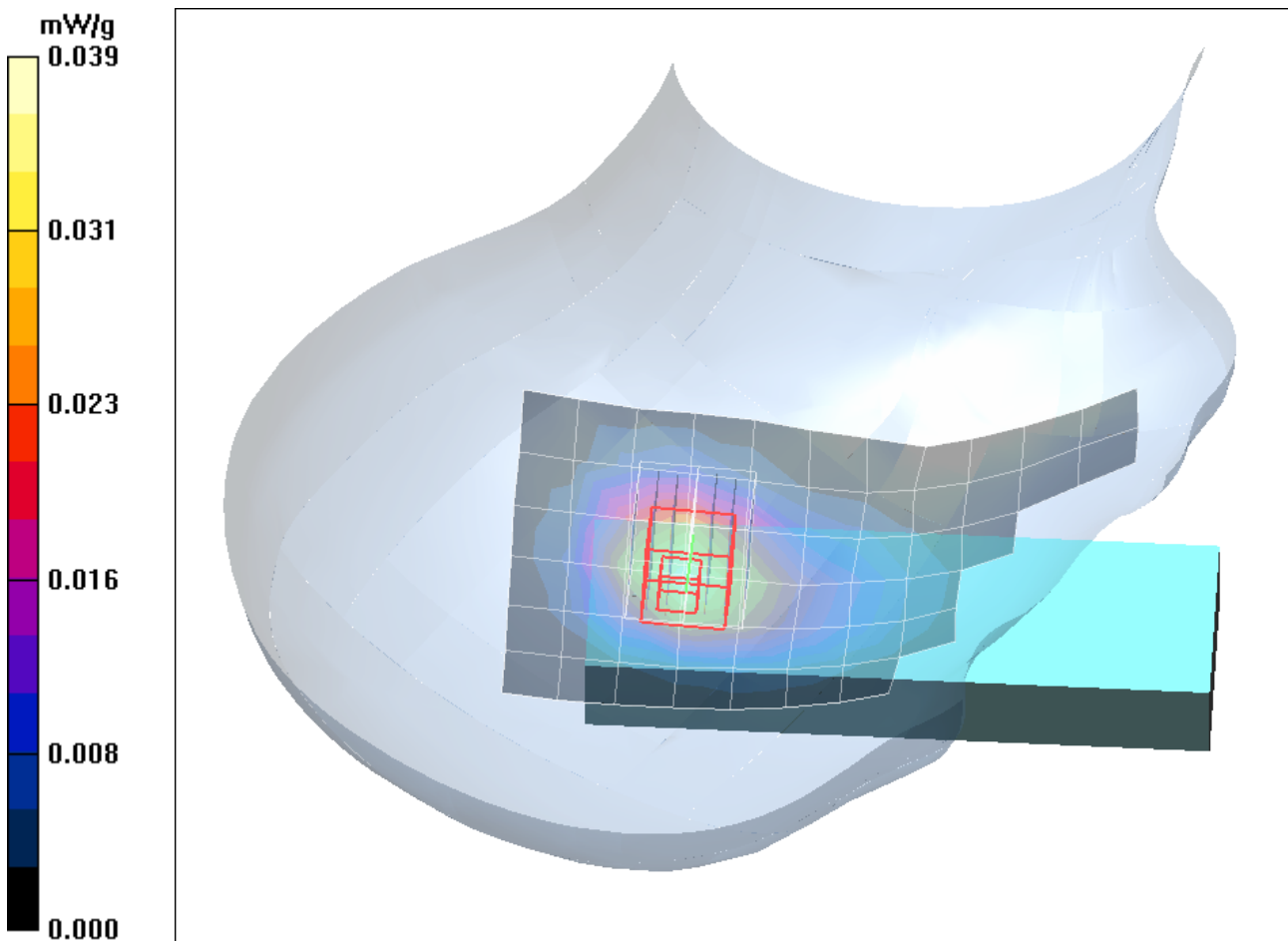


Fig. 3: SAR distribution for DECT US, channel 2, cheek position, right side of head (November 27, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [TGFA30_yprm 2.da4](#)

DUT: Panasonic; **Type:** KX-TGFA30;

Program Name: US DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5, 5, 5); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- 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: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.021 mW/g

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

Reference Value = 4.16 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 0.033 W/kg

SAR(1 g) = 0.021 mW/g; SAR(10 g) = 0.012 mW/g

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

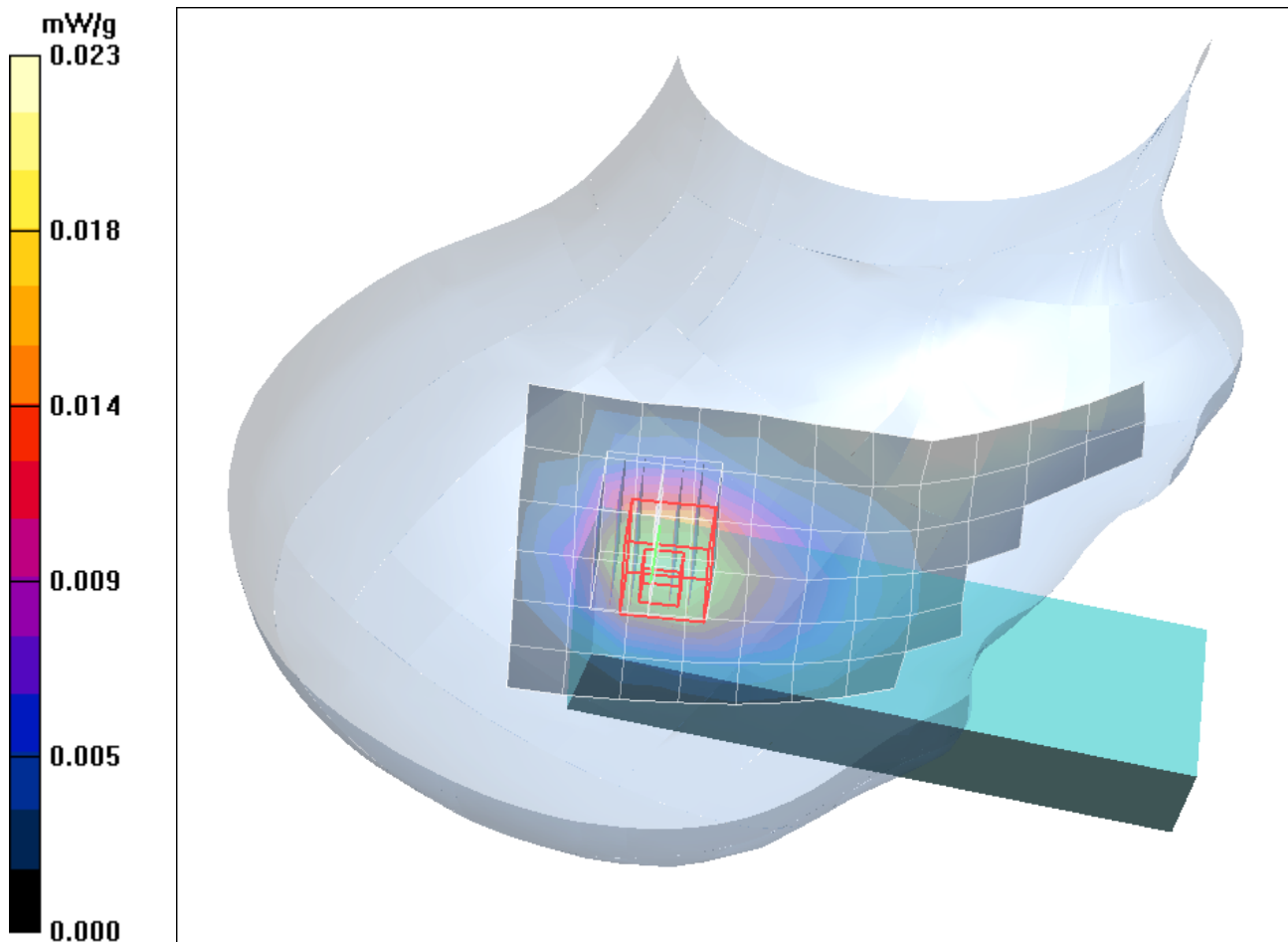


Fig. 4: SAR distribution for DECT US, channel 2, tilted position, right side of head (November 27, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [TGFA30_yphm_1_front_hs_clip.da4](#)

DUT: Panasonic; **Type:** KX-TGFA30;

Program Name: US DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.57, 4.57, 4.57); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- 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 (7x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.035 mW/g

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

Reference Value = 2.32 V/m; Power Drift = -0.168 dB

Peak SAR (extrapolated) = 0.062 W/kg

SAR(1 g) = 0.035 mW/g; SAR(10 g) = 0.020 mW/g

Maximum value of SAR (measured) = 0.038 mW/g

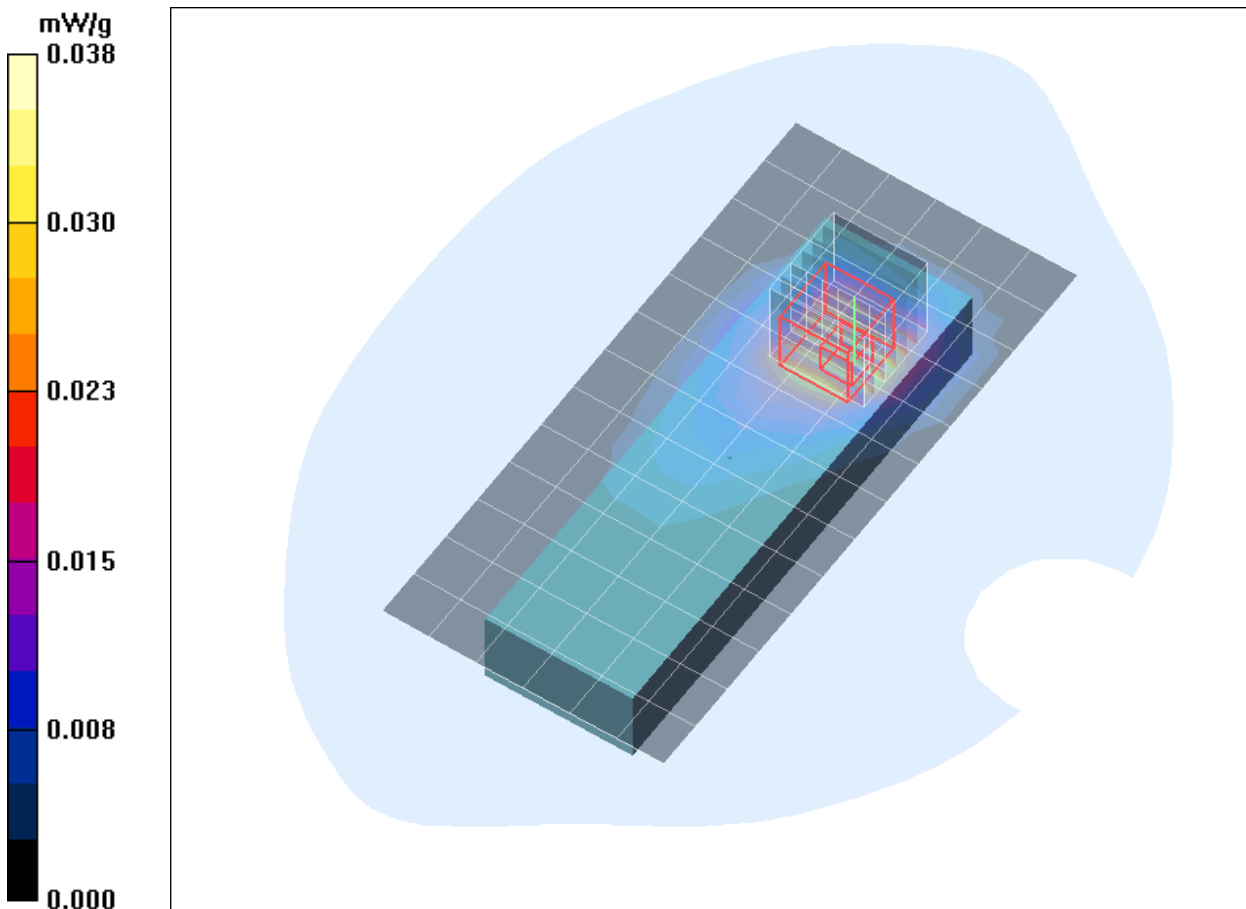


Fig. 5: SAR distribution for DECT US, channel 2, body worn configuration, front side of the device towards the phantom (December 02, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [TGFA30_yphm 2 back hs.da4](#)

DUT: Panasonic; **Type:** KX-TGFA30;

Program Name: US DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.57, 4.57, 4.57); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- 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 (7x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.022 mW/g

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

Reference Value = 1.91 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 0.034 W/kg

SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.011 mW/g

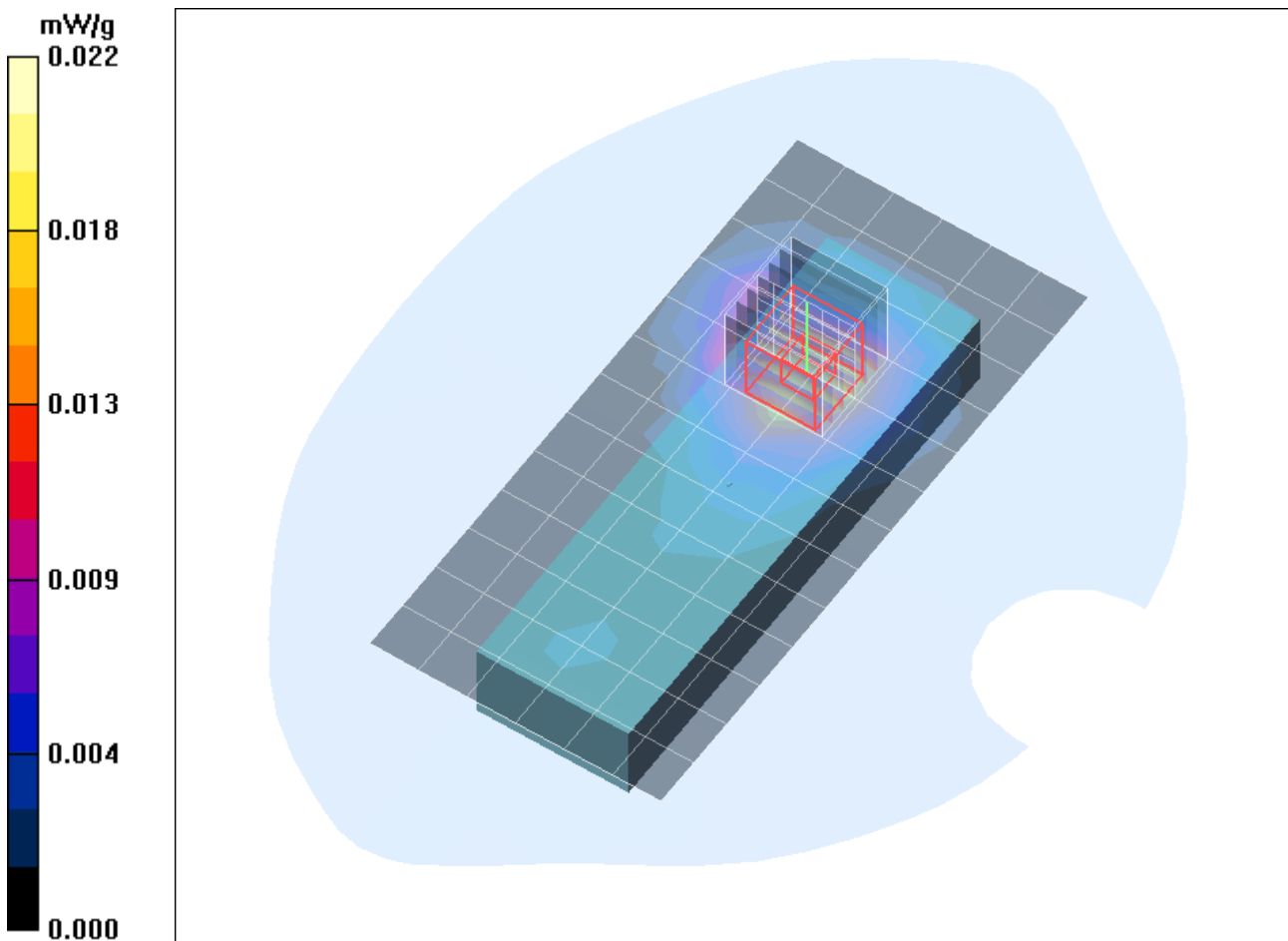


Fig. 6: SAR distribution for DECT US, channel 2, body worn configuration, back side of the device towards the phantom (December 02, 2014)