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Appendix for the Report

Dosimetric Assessment of the Portable Device KX-TGHA20 (FCC ID: ACJ96NKX-TGHA20) (IC: 216A-KXTGHA20)

According to the FCC Requirements SAR Distribution Plots

November 20, 2013

IMST GmbH

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Customer

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1 SAR Distribution Plots, Head Measurement

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGHA20_yplm_1.da4](#)

DUT: Panasonic; Type: KX-TGHA20;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.05, 5.05, 5.05); Calibrated: 19.02.2013

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

- Electronics: DAE4 Sn631; Calibrated: 23.09.2013

- 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) = 0.017 mW/g

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

Reference Value = 1.68 V/m; Power Drift = 0.166 dB

Peak SAR (extrapolated) = 0.025 W/kg

SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00887 mW/g

Maximum value of SAR (measured) = 0.018 mW/g

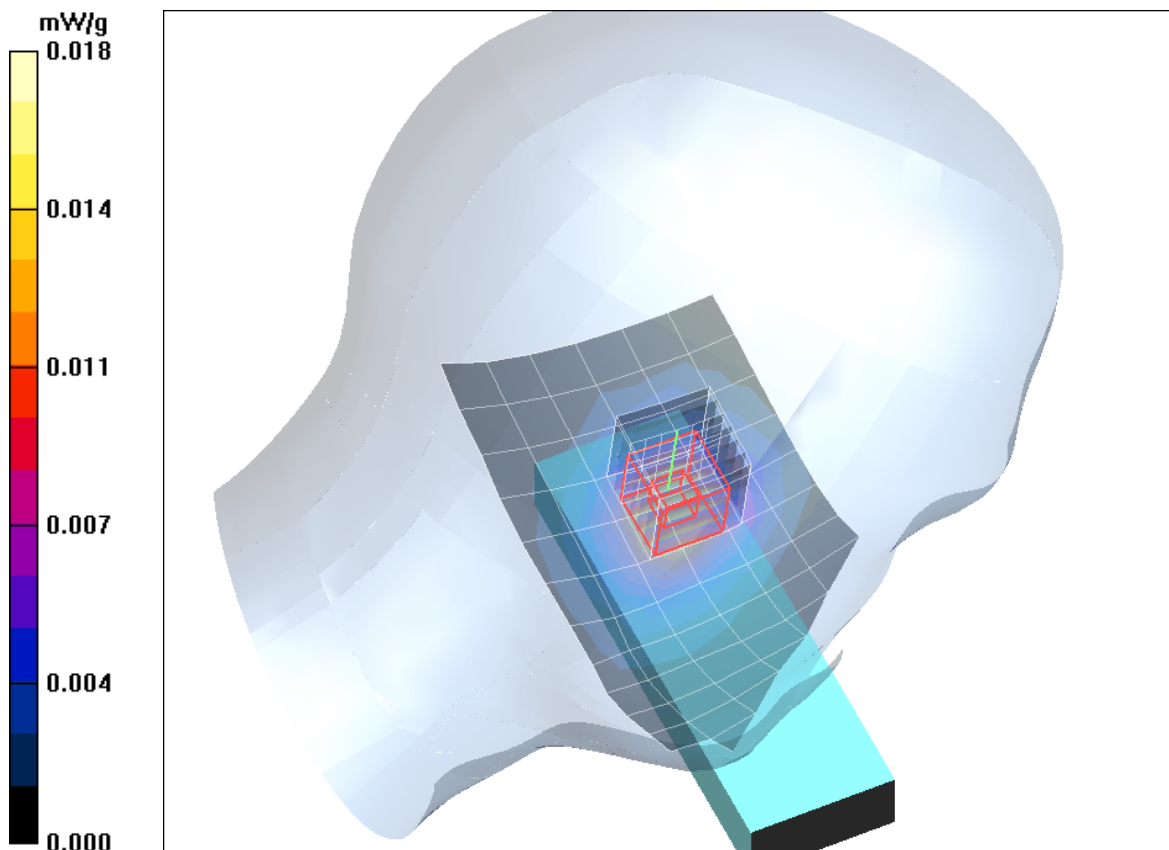


Fig. 1: SAR distribution for DECT US, channel 2, cheek position, left side of head (November 18, 2013).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGHA20_yplm_2.da4](#)

DUT: Panasonic; Type: KX-TGHA20;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.05, 5.05, 5.05); Calibrated: 19.02.2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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) = 0.009 mW/g

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

Reference Value = 1.71 V/m; Power Drift = 0.090 dB

Peak SAR (extrapolated) = 0.014 W/kg

SAR(1 g) = 0.00859 mW/g; SAR(10 g) = 0.00492 mW/g

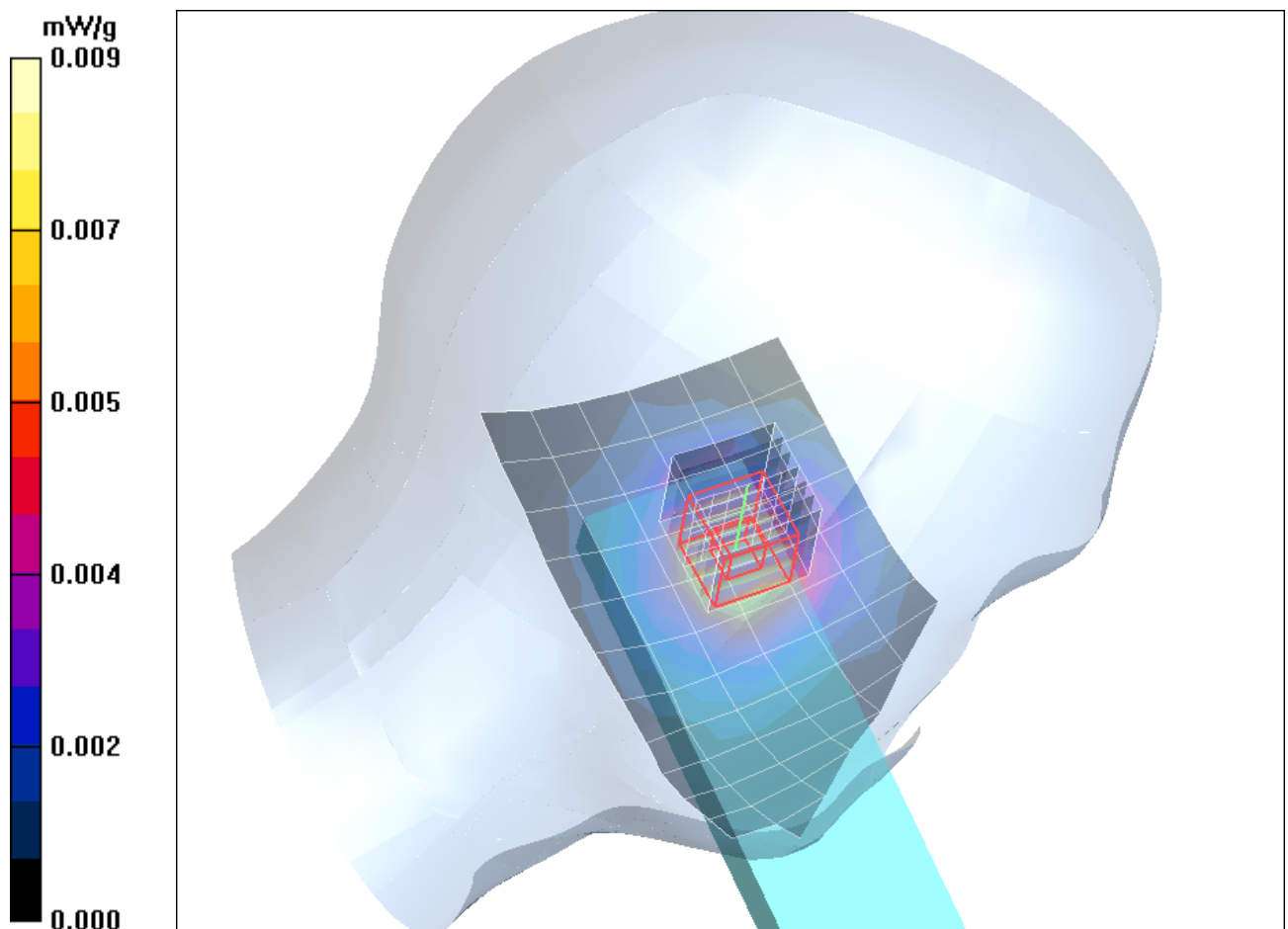


Fig. 2: SAR distribution for DECT US, channel 2, tilted position, left side of head (November 18, 2013).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGHA20_yprm_1.da4](#)

DUT: Panasonic; Type: KX-TGHA20;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.89, 4.89, 4.89); Calibrated: 19.02.2013

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

- Electronics: DAE4 Sn631; Calibrated: 23.09.2013

- 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=15mm, dy=15mm

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

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

Reference Value = 2.50 V/m; Power Drift = 0.083 dB

Peak SAR (extrapolated) = 0.023 W/kg

SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00933 mW/g

Maximum value of SAR (measured) = 0.017 mW/g

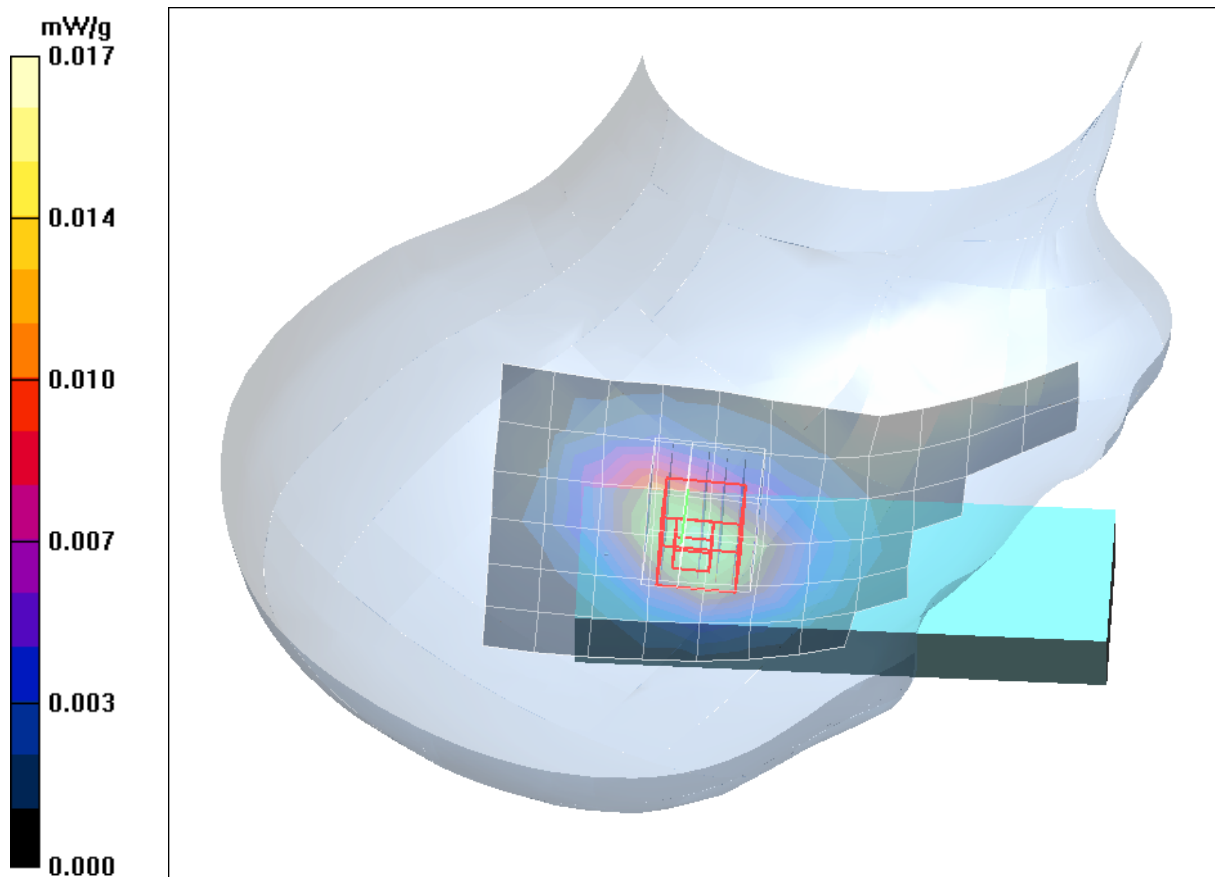


Fig. 3: SAR distribution for DECT US, channel 2, cheek position, right side of head (November 18, 2013).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGHA20_yprm_2.da4](#)

DUT: Panasonic; Type: KX-TGHA20;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.89, 4.89, 4.89); Calibrated: 19.02.2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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=15mm, dy=15mm

Maximum value of SAR (measured) = 0.008 mW/g

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

Reference Value = 2.36 V/m; Power Drift = -0.185 dB

Peak SAR (extrapolated) = 0.014 W/kg

SAR(1 g) = 0.00817 mW/g; SAR(10 g) = 0.00482 mW/g

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

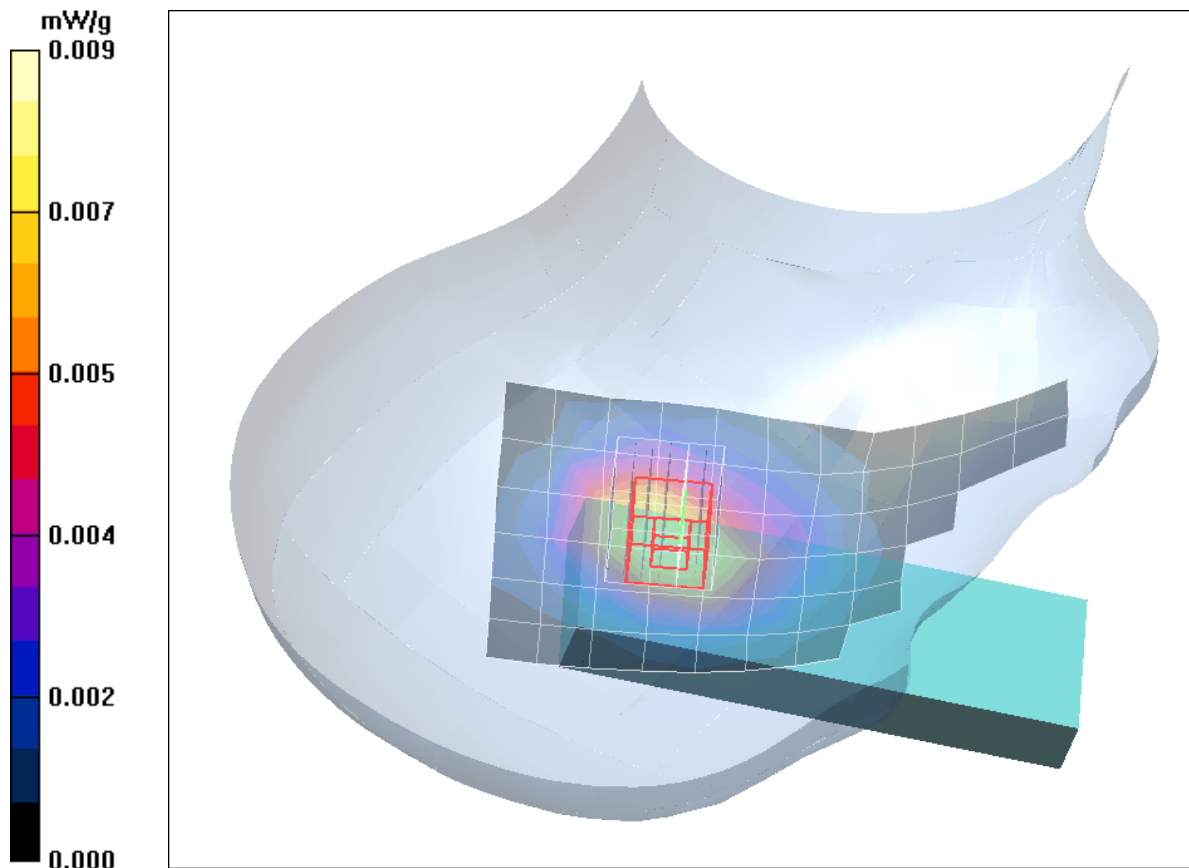


Fig. 4: SAR distribution for DECT US, channel 2, tilted position, right side of head (November 18, 2013)