DAkkS
Deutsche
Akkreditierungsstelle
D-PL-12139-01-00

The Testcenter facility 'Dosimetric Test Lab' within IMST GmbH is accredited by the German National 'Deutsche Akkreditierungsstelle GmbH (DAkkS)' for testing according to the scope as listed in the accreditation certificate: D-PL-12139-01-00.

# Appendix for the SAR Test Report

# Dosimetric Assessment of the Portable Device KX-TGLA40 from Panasonic

(FCC ID: ACJ96NKX-TGLA40)

# According to the FCC Requirements SAR Distribution Plots

November 5, 2015


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**Customer**

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# SAR Distribution Plots for Head and Body Worn Configuration

**Test Laboratory: IMST GmbH, DASY Blue (I); File Name: TGLA40_bplm_1.da4**

**DUT: Panasonic; Type: KX-TGLA40; Serial: N.A.**
**Program Name: DECT**

Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1925 MHz; $\sigma$ = 1.47 mho/m; $\varepsilon_r$ = 41.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1669; ConvF(4.97, 4.97, 4.97); Calibrated: 19.02.2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 16.09.2015
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Left/Area Scan (7x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.028 mW/g
**Cheek Left/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.58 V/m; Power Drift = -0.146 dB
Peak SAR (extrapolated) = 0.051 W/kg
**SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.016 mW/g**
Maximum value of SAR (measured) = 0.031 mW/g

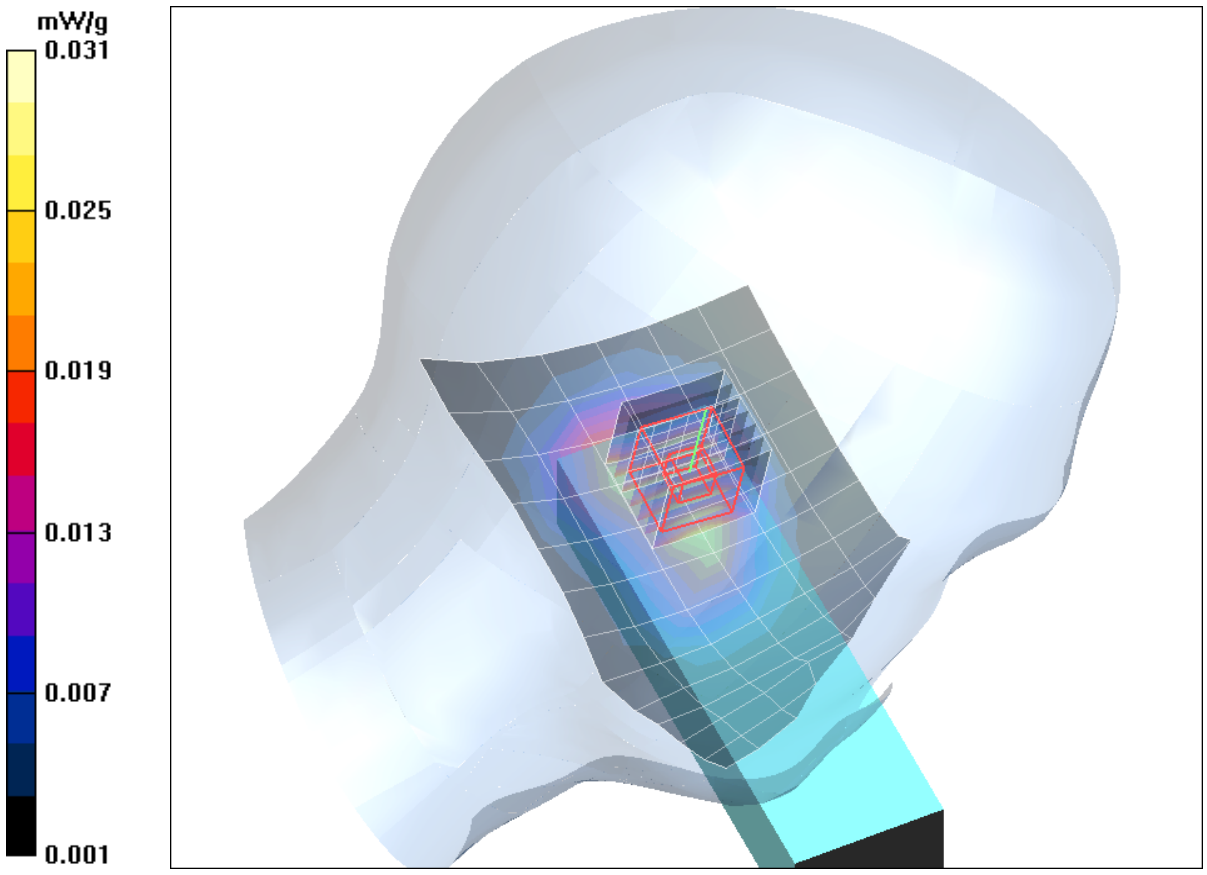


*Fig. 1: SAR distribution for DECT US, channel 2, cheek position, left side of head (November 3, 2015)*

**Test Laboratory: IMST GmbH, DASY Blue (I); File Name: TGLA40_bplm_2.da4**

**DUT: Panasonic; Type: KX-TGLA40; Serial: N.A.**
**Program Name: DECT**

; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1925 MHz; $\sigma$ = 1.47 mho/m; $\varepsilon_r$ = 41.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1669; ConvF(4.97, 4.97, 4.97); Calibrated: 19.02.2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 16.09.2015
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilt Left/Area Scan (7x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.018 mW/g
**Tilt Left/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.47 V/m; Power Drift = 0.008 dB
Peak SAR (extrapolated) = 0.027 W/kg
**SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.010 mW/g**
Maximum value of SAR (measured) = 0.019 mW/g

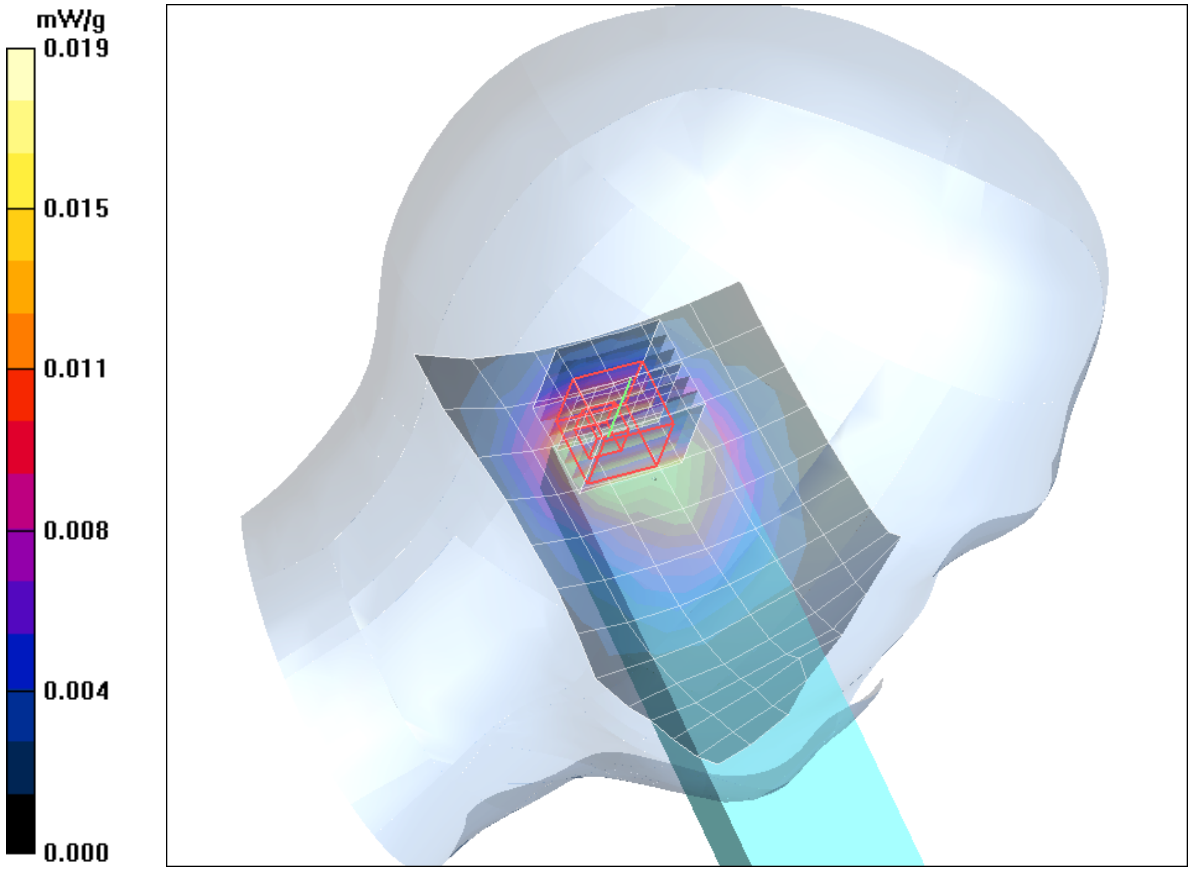


*Fig. 2: SAR distribution for DECT US, channel 2, tilted position, left side of head (November 3, 2015)*

**Test Laboratory: IMST GmbH, DASY Blue (I); File Name: TGLA40_bprm_1.da4**

**DUT: Panasonic; Type: KX-TGLA40; Serial: N.A.**
**Program Name: DECT**

; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1925 MHz; $\sigma$ = 1.47 mho/m; $\varepsilon_r$ = 41.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1669; ConvF(4.97, 4.97, 4.97); Calibrated: 19.02.2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 16.09.2015
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Right/Area Scan (7x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.025 mW/g
**Cheek Right/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.86 V/m; Power Drift = 0.006 dB
Peak SAR (extrapolated) = 0.038 W/kg
**SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.015 mW/g**
Maximum value of SAR (measured) = 0.027 mW/g
**Cheek Right/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.86 V/m; Power Drift = 0.006 dB
Peak SAR (extrapolated) = 0.037 W/kg
**SAR(1 g) = 0.021 mW/g; SAR(10 g) = 0.013 mW/g**
Maximum value of SAR (measured) = 0.023 mW/g

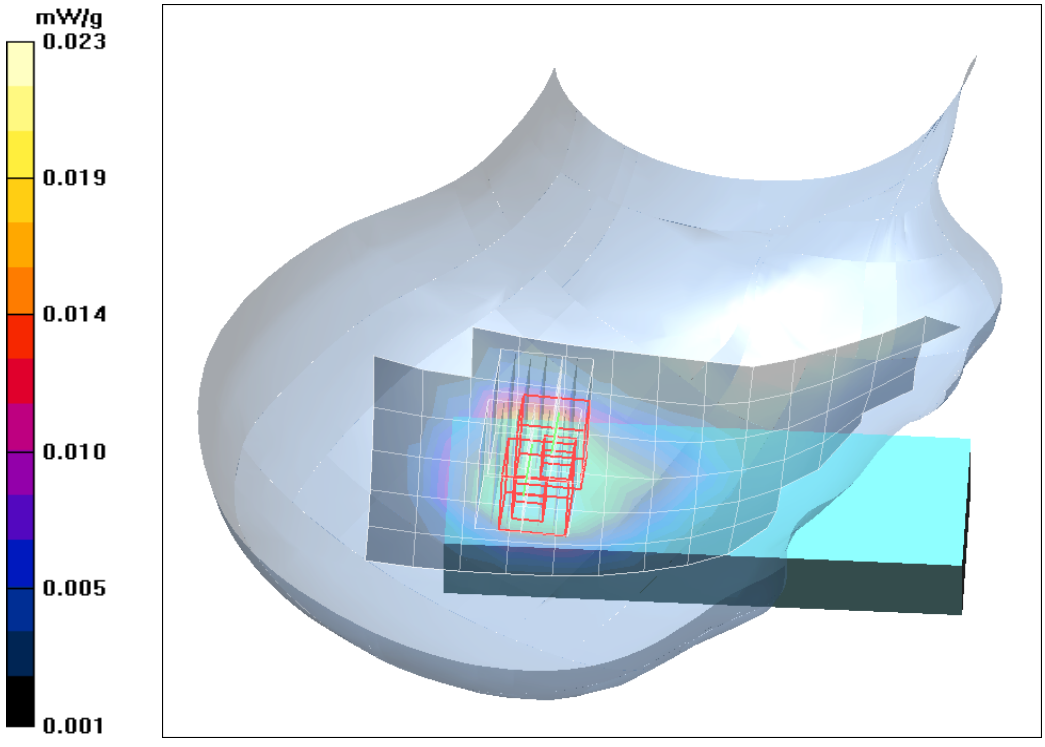


*Fig. 3: SAR distribution for DECT US, channel 2, cheek position, right side of head (November 3, 2015)*

**Test Laboratory: IMST GmbH, DASY Blue (I); File Name: TGLA40_bprm_2.da4**

**DUT: Panasonic; Type: KX-TGLA40; Serial: N.A.**
**Program Name: DECT**

; Frequency: 1924.99 MHz;Duty Cycle: 1:24
Medium parameters used: f = 1925 MHz; $\sigma$ = 1.47 mho/m; $\varepsilon_r$ = 41.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1669; ConvF(4.97, 4.97, 4.97); Calibrated: 19.02.2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 16.09.2015
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilt Right/Area Scan (7x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.020 mW/g
**Tilt Right/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.40 V/m; Power Drift = -0.057 dB
Peak SAR (extrapolated) = 0.031 W/kg
**SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.012 mW/g**
Maximum value of SAR (measured) = 0.022 mW/g

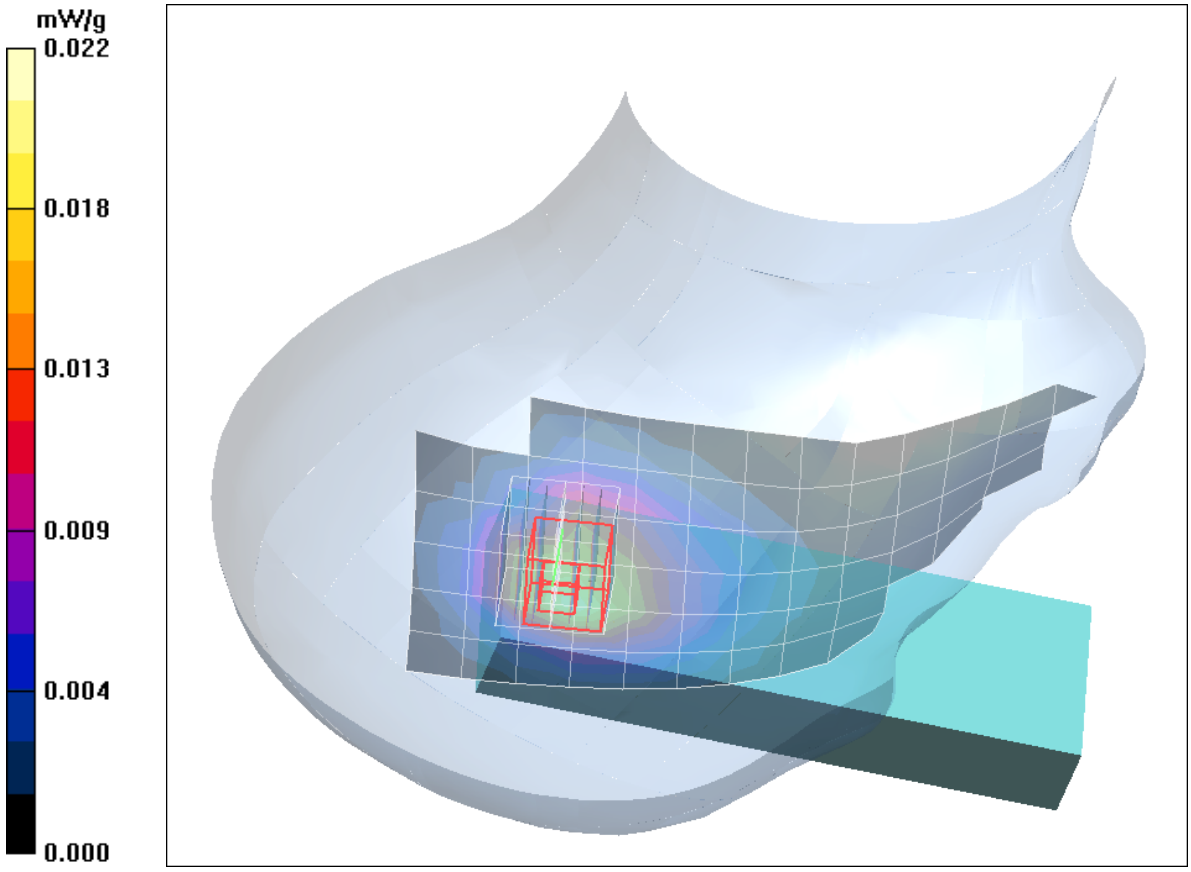


*Fig. 4: SAR distribution for DECT US, channel 2, tilted position, right side of head (November 3, 2015)*