

# **Appendix for the Report**

## **Dosimetric Assessment of the Portable Device Panasonic KX-TGA20 (FCC ID: ACJ96NKX-TGA20) (IC 216A-KXTGA20)**

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

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The test results only relate to the items tested. This report shall not be reproduced except in full without the written approval of the testing laboratory.

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## 1 SAR Distribution Plots

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGA20\\_yphm\\_1\\_front.da4](#)

DUT: Panasonic; Type: KX-TGA20;

Program Name: DECT

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.56$  mho/m;  $\epsilon_r = 54.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.4, 8.4, 8.4); Calibrated: 24.09.2012

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

- Electronics: DAE3 Sn335; Calibrated: 20.02.2012

- 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 (6x7x1):** Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 1.11 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.013 W/kg

**SAR(1 g) = 0.002 mW/g; SAR(10 g) = 0.0003 mW/g**

Maximum value of SAR (measured) = 0.003 mW/g

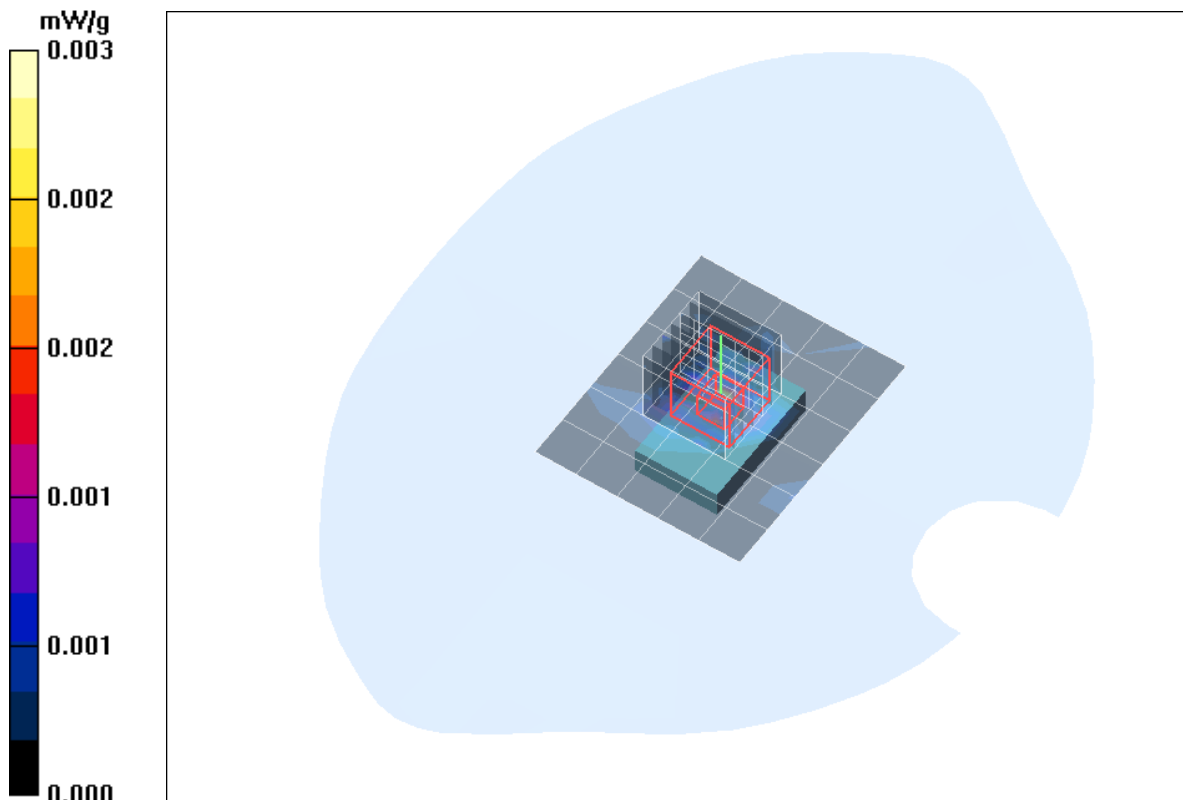


Fig. 1: SAR distribution for DECT US, channel 2, Position 1, 0 mm distance (December 17, 2012; Ambient Temperature: 21.5°C; Liquid Temperature: 21.3°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGA20\\_yphm\\_2\\_back.da4](#)

DUT: Panasonic; Type: KX-TGA20;

Program Name: DECT

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

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.56$  mho/m;  $\epsilon_r = 54.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.4, 8.4, 8.4); Calibrated: 24.09.2012

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

- Electronics: DAE3 Sn335; Calibrated: 20.02.2012

- 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 (6x7x1):** Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 1.02 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 0.006 W/kg

**SAR(1 g) = 0.001 mW/g; SAR(10 g) = 9.34e-005 mW/g**

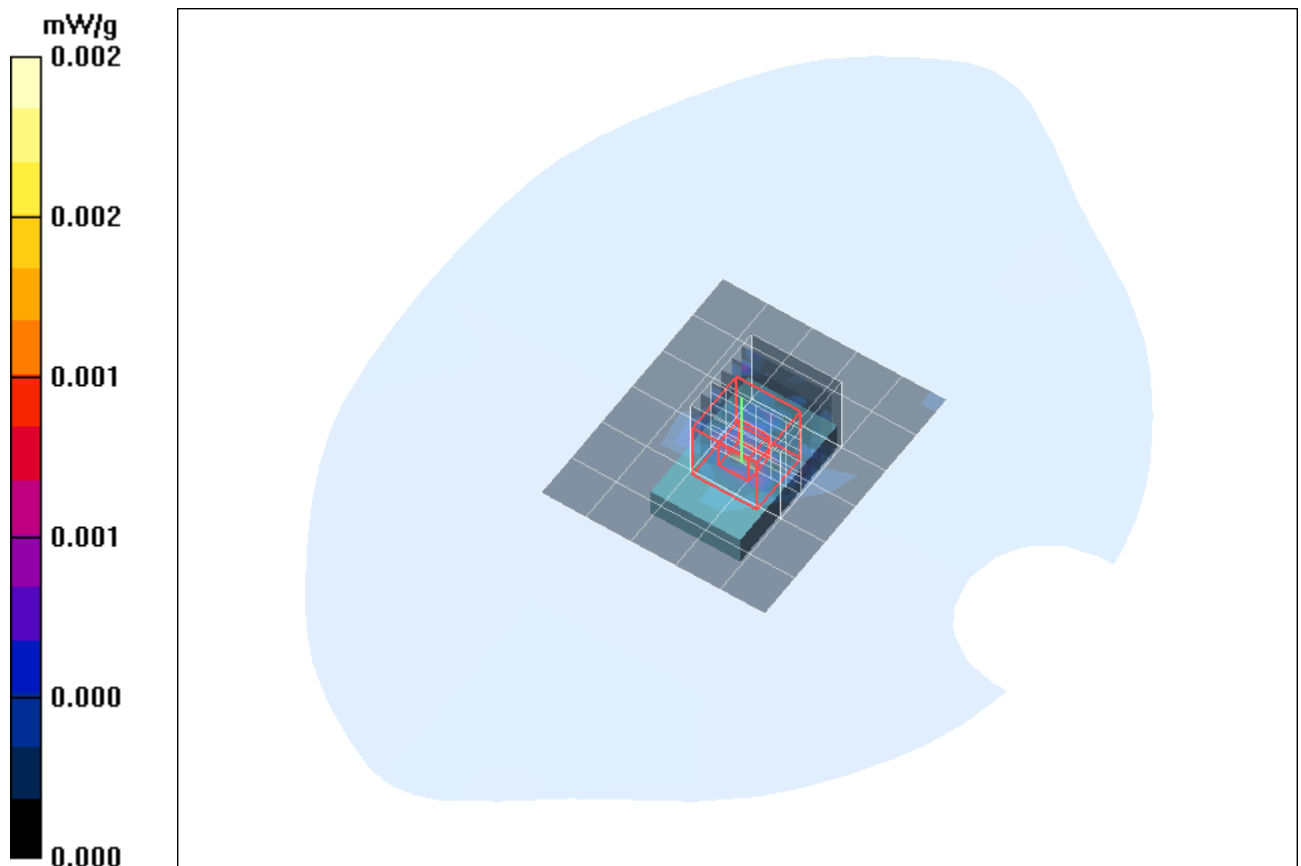


Fig. 2: SAR distribution for DECT US, channel 2, Position 2, 0 mm distance (December 17, 2012; Ambient Temperature: 21.5°C; Liquid Temperature: 21.3°C).

## 2 SAR Z-axis Scans (Validation)

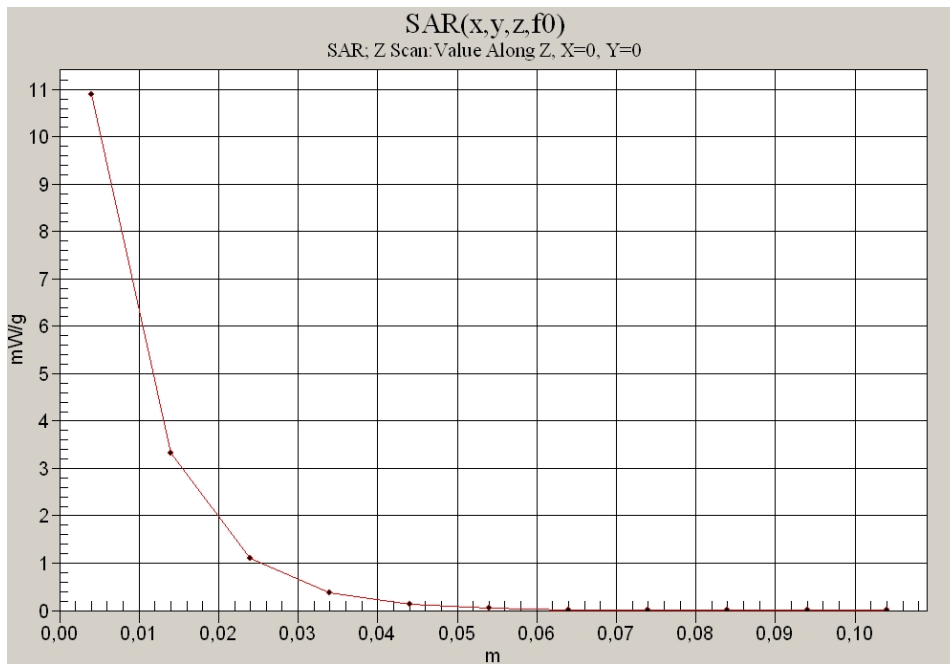


Fig. 3: SAR versus liquid depth, 1900 MHz, body (December 17, 2012; Ambient Temperature: 21.5°C; Liquid Temperature: 21.3°C).

## 3 SAR Z-axis Scans (Measurements)

The following picture shows the plot of SAR versus liquid depth for the worst case values.

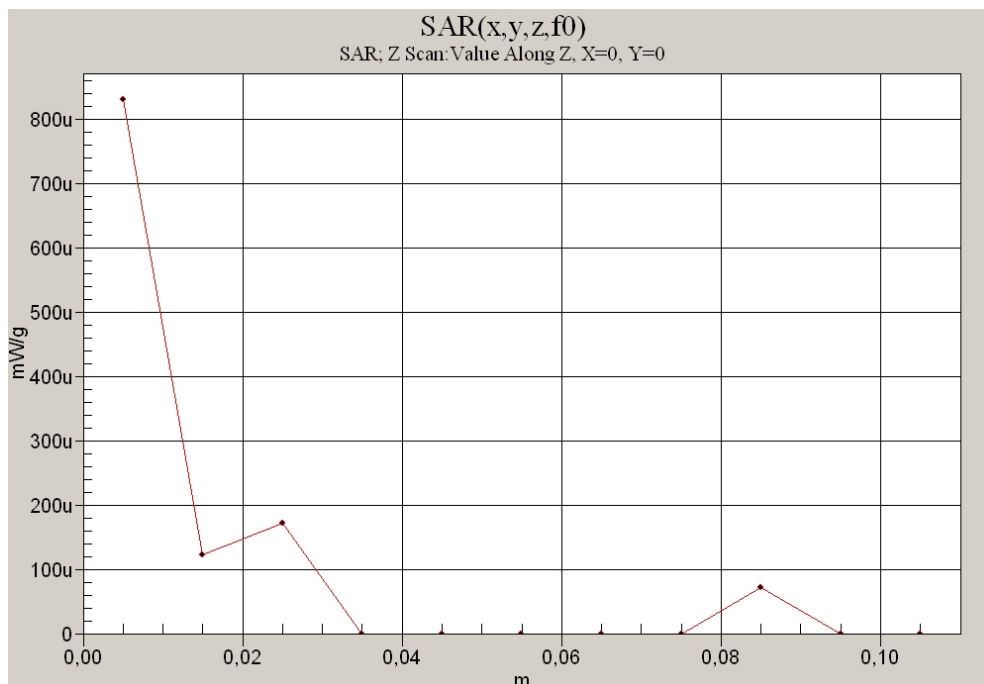


Fig. 4: SAR versus liquid depth, body: DECT US, channel 2, Position 1, 0mm distance (December 17, 2012; Ambient Temperature: 21.5°C; Liquid Temperature: 21.5°C).