

Appendix for the SAR Test Report

Dosimetric Assessment of the Portable Device K-SHH14 from Panasonic (FCC ID: ACJ9TAK-SHH14) (IC: 216A-KSHH14)

According to the FCC Requirements SAR Distribution Plots

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The test results only relate to the items tested.

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1 SAR Distribution Plots

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [SHH14_yphm_1_front.da4](#)

DUT: Panasonic; Type: K-SHH14;

Program Name: US DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Flat 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

Flat Part/Area Scan (7x17x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.001 mW/g

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

Reference Value = 0.484 V/m; Power Drift = 0.108 dB

Peak SAR (extrapolated) = 0.001 W/kg

SAR(1 g) = 0.00035 mW/g; SAR(10 g) = 0.000174 mW/g

Maximum value of SAR (measured) = 0.000 mW/g

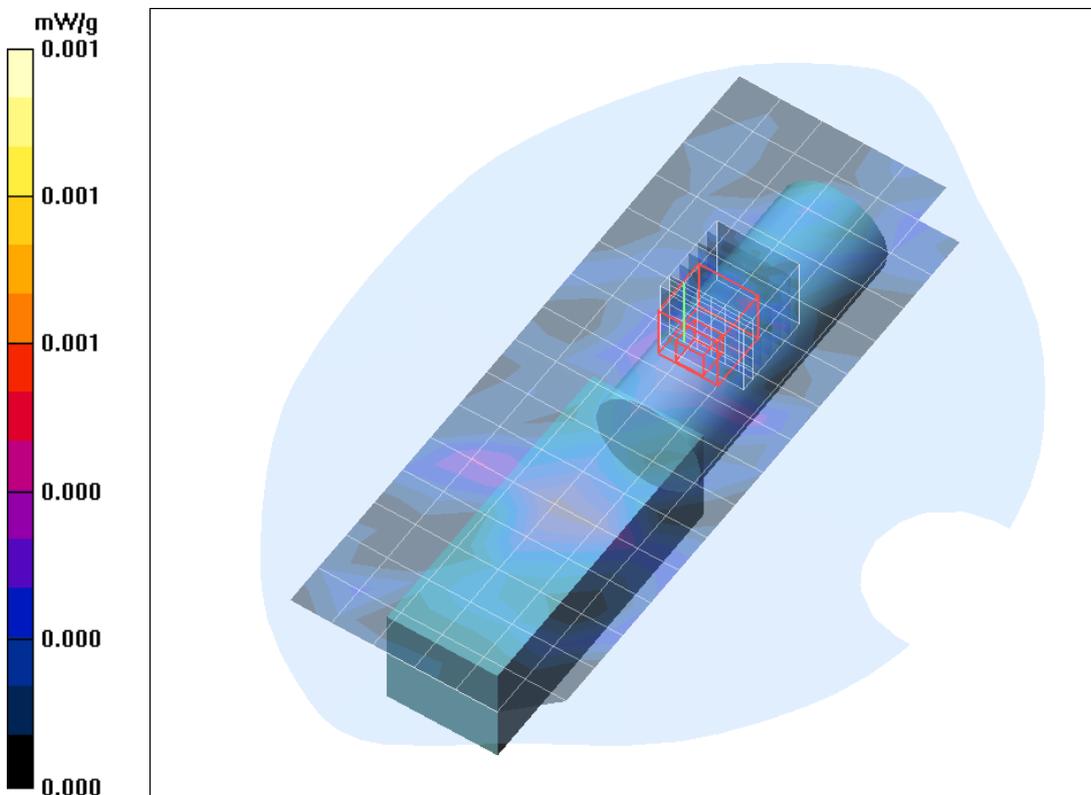


Fig. 1: SAR distribution for DECT US, channel 2, test position 1, front of the K-SHH14 towards the flat part of SAM phantom, 0 mm distance (November 24, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [SHH14_yphm_2_back.da4](#)

DUT: Panasonic; **Type:** K-SHH14;

Program Name: US DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Flat 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

Flat Part/Area Scan (7x17x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.001 mW/g

Flat Part/Zoom Scan 3 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.482 V/m; Power Drift = -0.159 dB

Peak SAR (extrapolated) = 0.003 W/kg

SAR(1 g) = 0.000913 mW/g; SAR(10 g) = 0.000443 mW/g

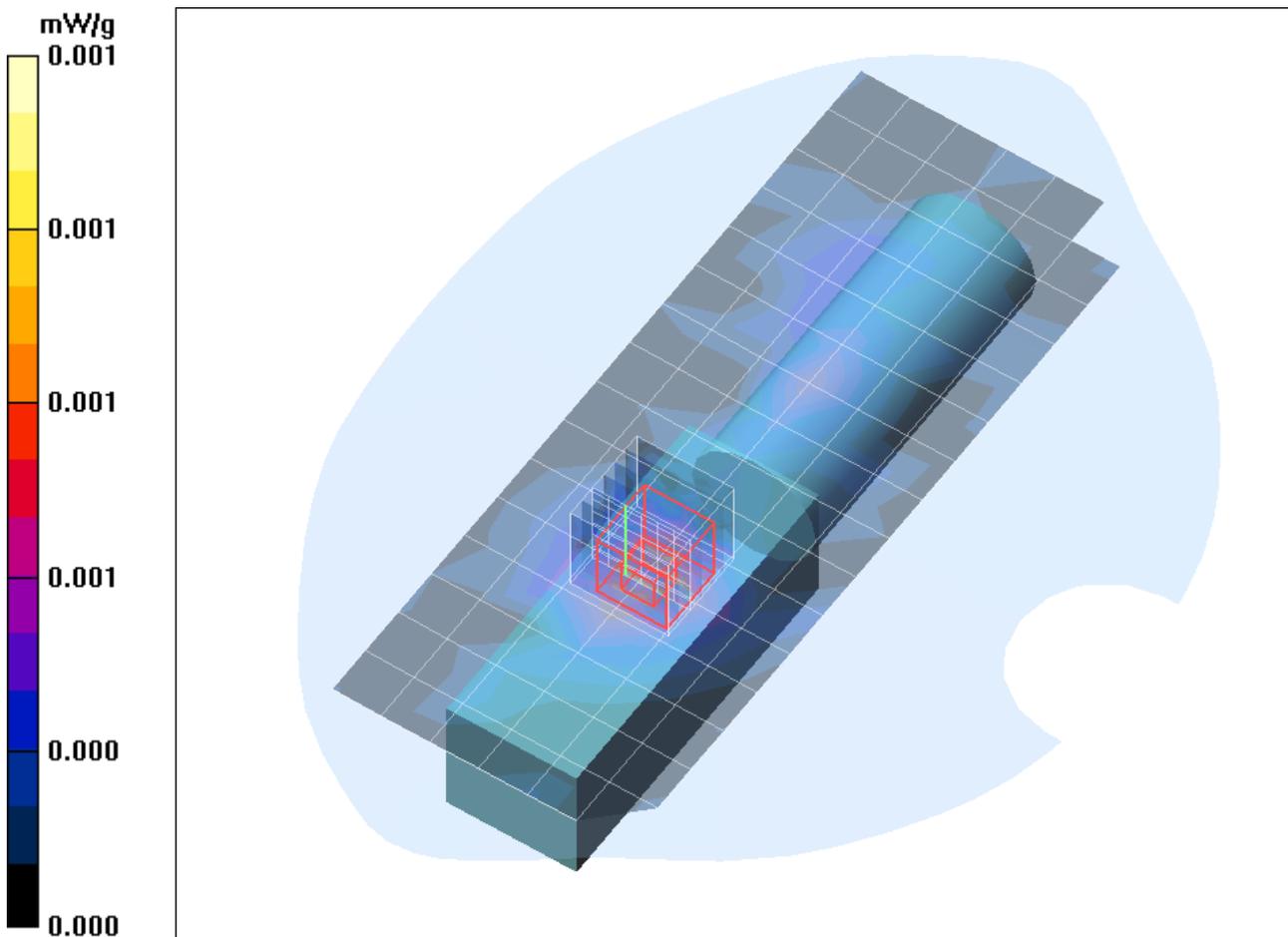


Fig. 2: SAR distribution for DECT US, channel 2, test position 2, back of the K-SHH14 towards the flat part of SAM phantom, 0 mm distance (November 24, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [SHH14_yphm_3_left.da4](#)

DUT: Panasonic; **Type:** K-SHH14;

Program Name: US DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Flat 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

Flat Part/Area Scan (7x17x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.001 mW/g

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

Reference Value = 0.248 V/m; Power Drift = 0.168 dB

Peak SAR (extrapolated) = 0.003 W/kg

SAR(1 g) = 0.00132 mW/g; SAR(10 g) = 0.0007 mW/g

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

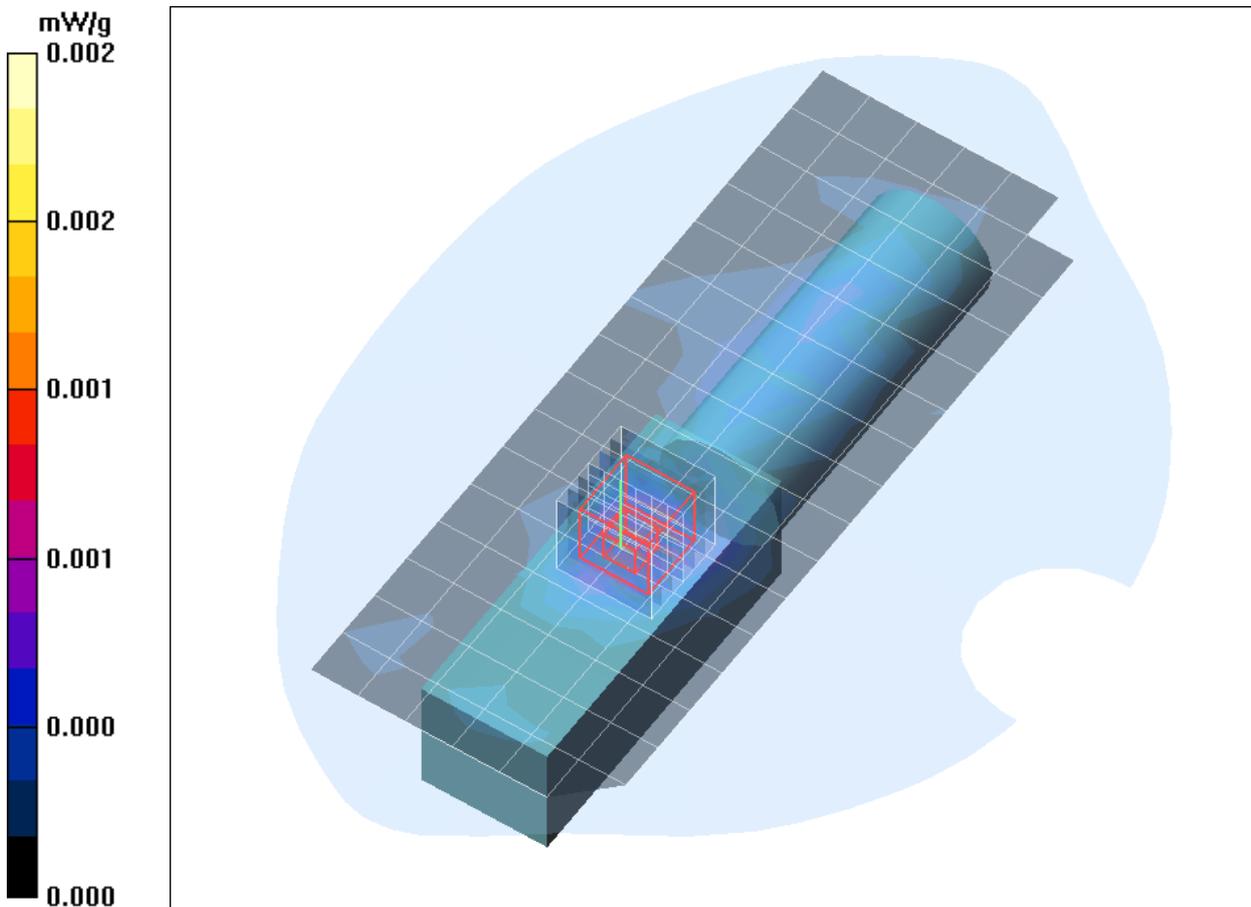


Fig. 3: SAR distribution for DECT US, channel, test position 3, left side of the K-SHH14 towards the flat part of SAM phantom, 0 mm distance (November 24, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [SHH14_yphm_4_right.da4](#)

DUT: Panasonic; **Type:** K-SHH14;

Program Name: US DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Flat 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

Flat Part/Area Scan (7x17x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.001 mW/g

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

Reference Value = 0.165 V/m; Power Drift = 0.142 dB

Peak SAR (extrapolated) = 0.002 W/kg

SAR(1 g) = 0.00105 mW/g; SAR(10 g) = 0.000536 mW/g

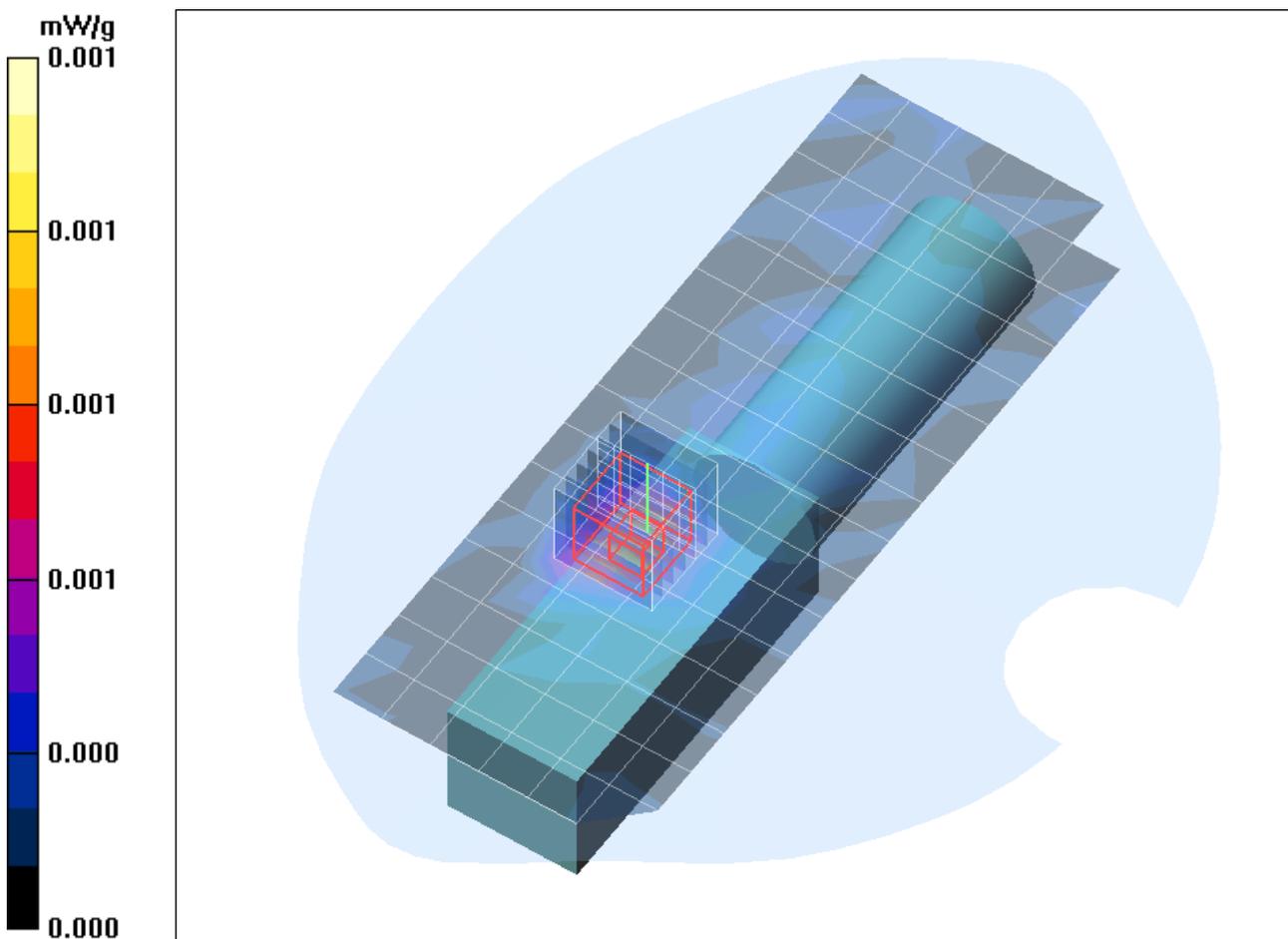


Fig. 4: SAR distribution for DECT US, channel 2, test position 4, right side of the K-SHH14 towards the flat part of SAM phantom, 0 mm distance (November 24, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [SHH14_yphm_5_top.da4](#)

DUT: Panasonic; **Type:** K-SHH14;

Program Name: US DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Flat 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

Flat Part/Area Scan (8x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.000 mW/g

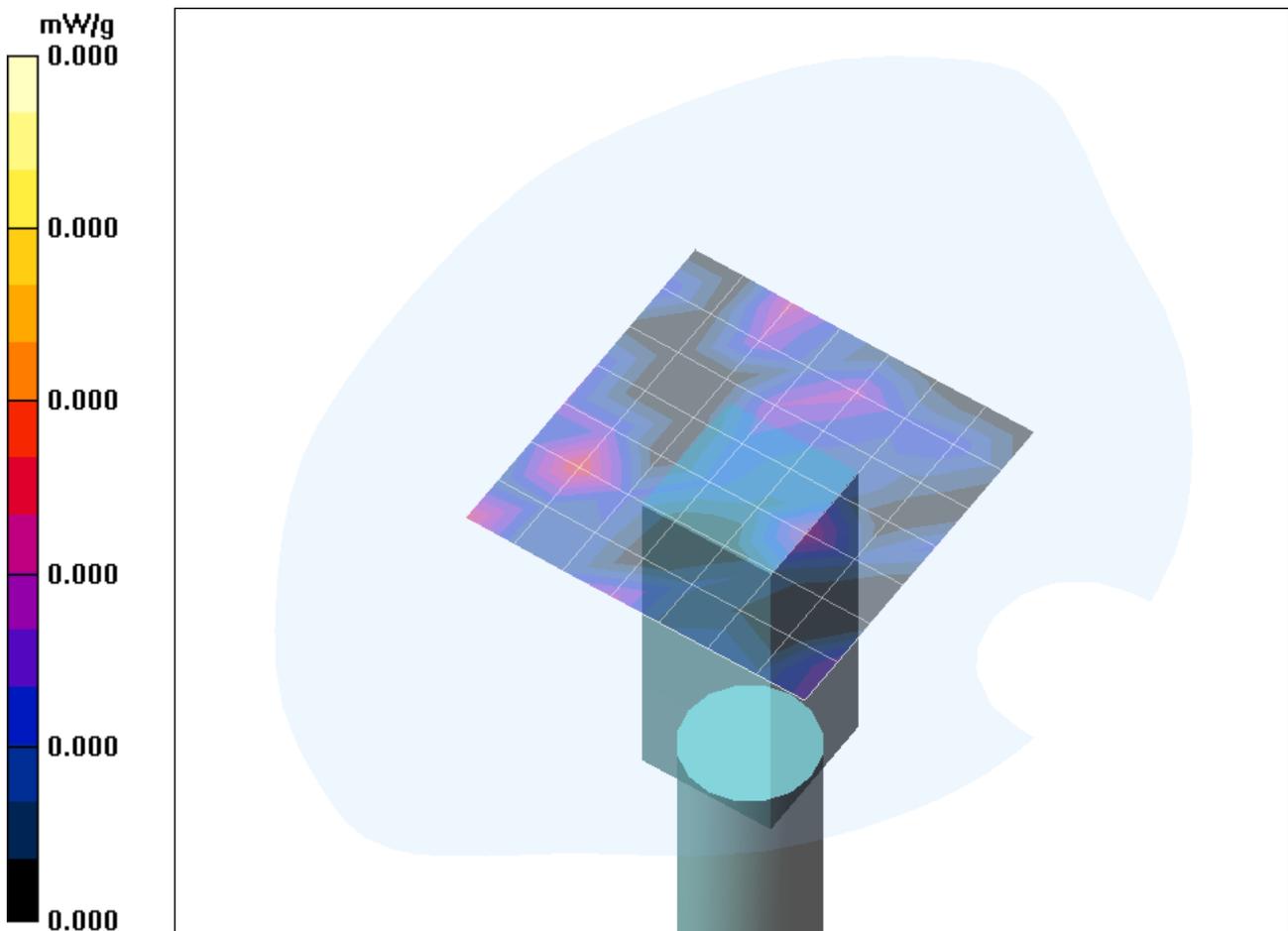


Fig. 5: SAR distribution for DECT US, channel 2, test position 5, top side of the K-SHH14 towards the flat part of SAM phantom, 0 mm distance (November 24, 2014)