

Appendix for the Report

Dosimetric Assessment of the Portable Device SCA Humidity Logger from Prevas (FCC ID: 2ABK3IDENTIFI) (IC: IC-10866A-61407)

According to the FCC Requirements SAR Distribution Plots

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This revised version of the report supersedes all previous versions. 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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SAR Distribution Plots, GPRS 850 Body

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [SCA_340_yahm_1.da4](#)

DUT: SCA Humidity Logger; Serial: 351579050121340

Program Name: GPRS 850 (Class 12)

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 56.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.24, 6.24, 6.24); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 20.09.2012
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (9x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.118 mW/g

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

Reference Value = 6.56 V/m; Power Drift = -0.185 dB

Peak SAR (extrapolated) = 0.251 W/kg

SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.048 mW/g

Maximum value of SAR (measured) = 0.117 mW/g

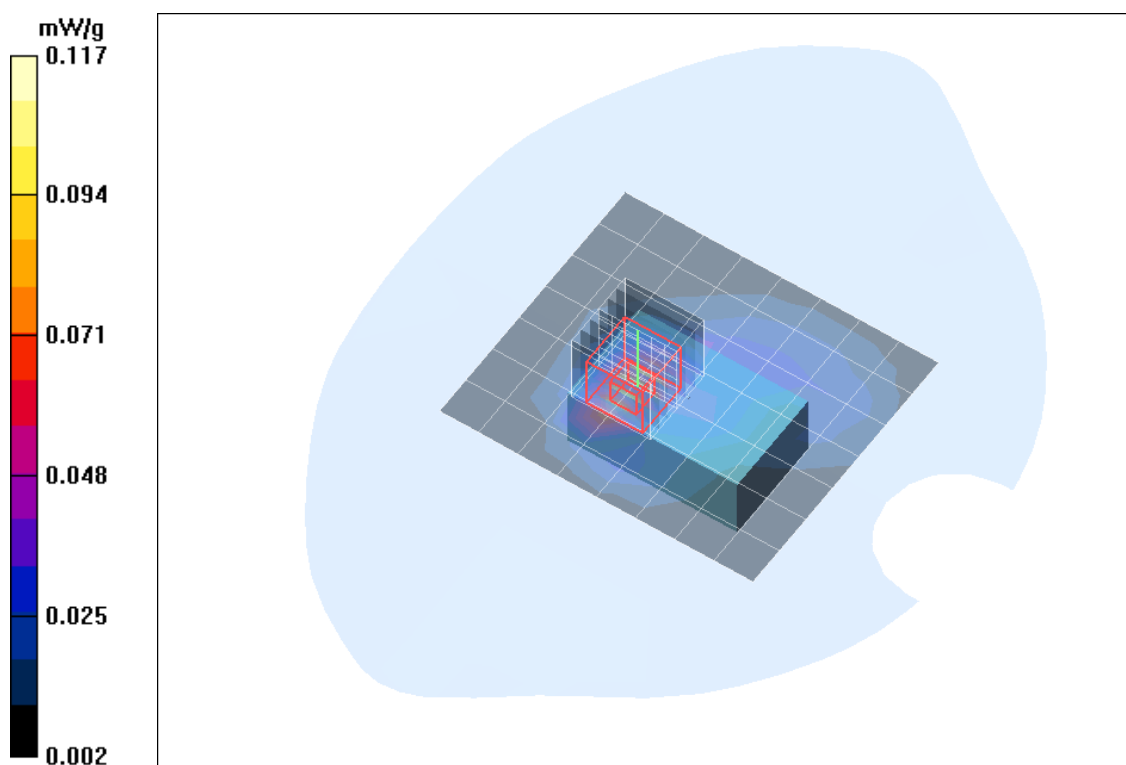


Fig. 1: SAR distribution for GPRS 850 (Class 12), channel 190, Position 1, (January 23, 2013; Ambient Temperature: 21.5°C; Liquid Temperature: 21.3°C).

1 SAR Distribution Plots, GPRS 1900 Body

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [SCA_340_yphh_1.da4](#)

DUT: SCA Humidity Logger; Serial: 351579050121340

Program Name: GPRS 1900 (Class 12)

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

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 (11x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.780 mW/g

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

Reference Value = 18.4 V/m; Power Drift = -0.069 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.749 mW/g; SAR(10 g) = 0.408 mW/g

Maximum value of SAR (measured) = 0.836 mW/g

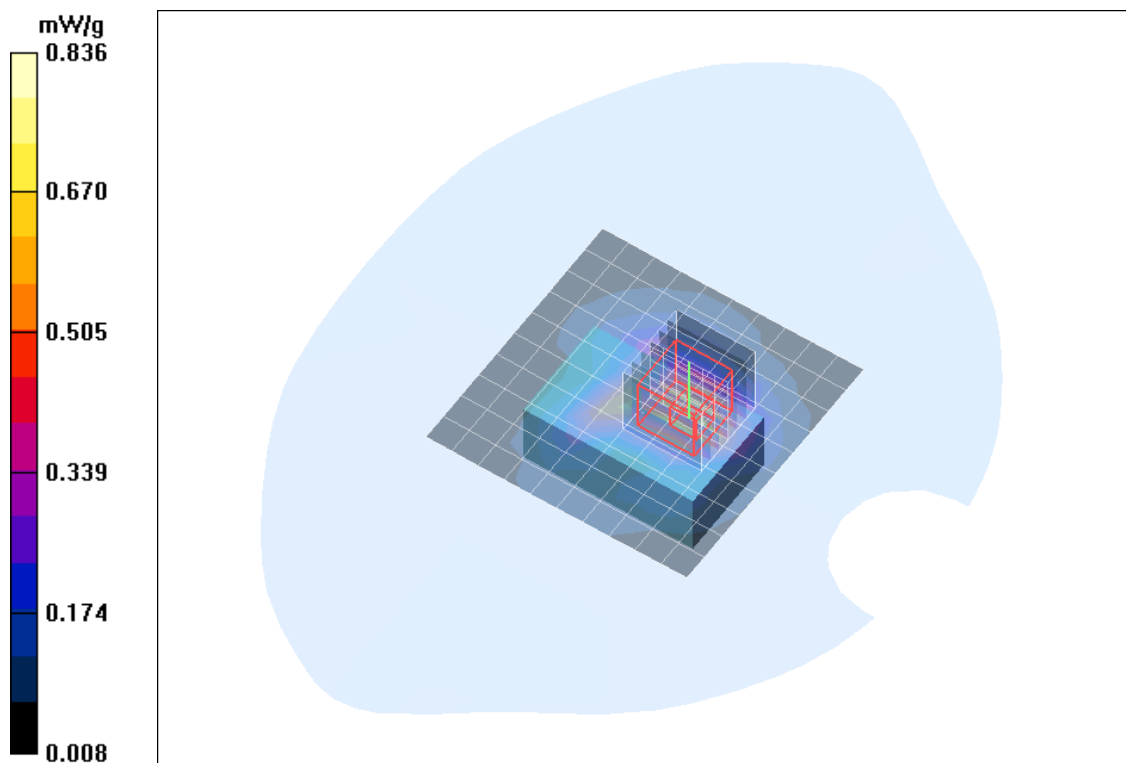


Fig. 2: SAR distribution for GPRS 1900 (Class 12), channel 810, Position 1 (January 18, 2013; Ambient Temperature: 21.7°C; Liquid Temperature: 21.6°C).

2 SAR Distribution Plots, WCDMA FDD II Body

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [SCA_340_yullhl_1.da4](#)

DUT: SCA Humidity Logger; Serial: 351579050121340

Program Name: WCDMA II (FDD)

Communication System: WCDMA FDD Band II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 53.7$; $\rho = 1000$ kg/m³

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 (11x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.623 mW/g

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

Reference Value = 16.7 V/m; Power Drift = 0.093 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.619 mW/g; SAR(10 g) = 0.353 mW/g

Maximum value of SAR (measured) = 0.685 mW/g

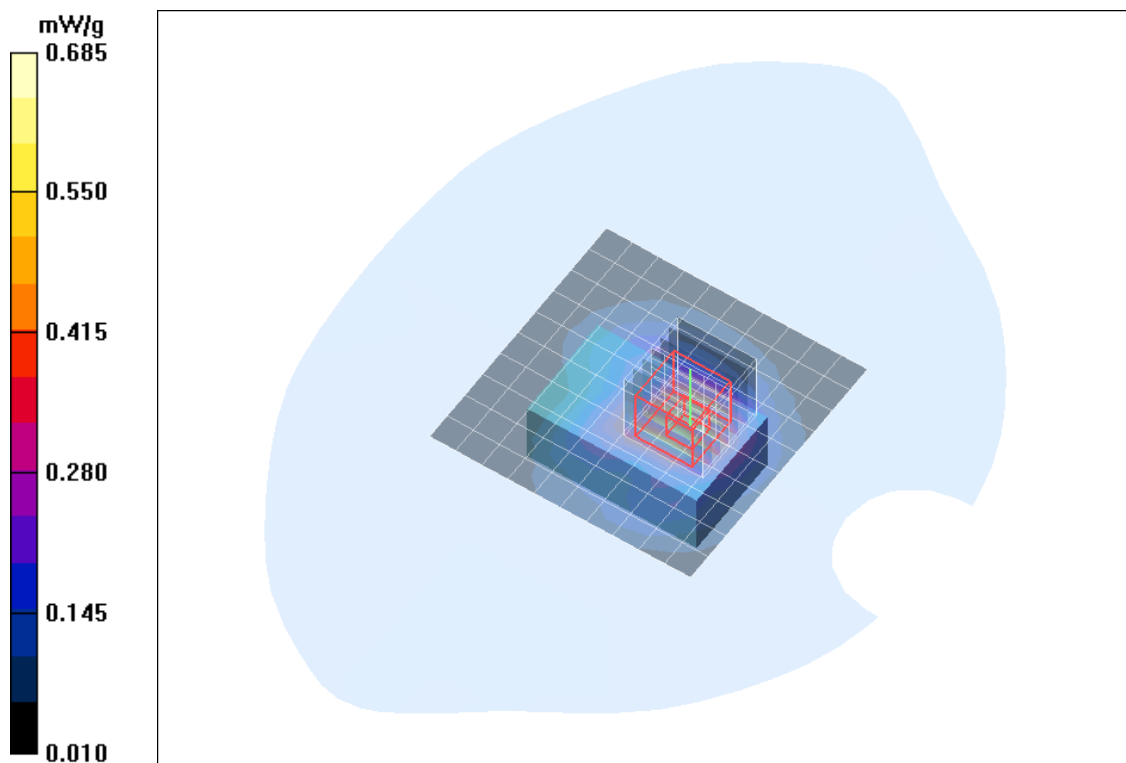


Fig. 3: SAR distribution for WCDMA II, channel 9262, Position 1 (January 17, 2013; Ambient Temperature: 21.8°C; Liquid Temperature: 21.6°C).

3 SAR Distribution Plots, WCDMA FDD IV Body

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [SCA_340_yuIVhl_1.da4](#)

DUT: SCA Humidity Logger; Serial: 351579050121340

Program Name: WCDMA IV (FDD)

Communication System: WCDMA (FDD) Band IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.79, 4.79, 4.79); Calibrated: 19.02.2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 18.02.2013
- 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

Body/Area Scan (11x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.717 mW/g

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

Reference Value = 19.1 V/m; Power Drift = -0.185 dB

Peak SAR (extrapolated) = 0.898 W/kg

SAR(1 g) = 0.605 mW/g; SAR(10 g) = 0.356 mW/g

Maximum value of SAR (measured) = 0.674 mW/g

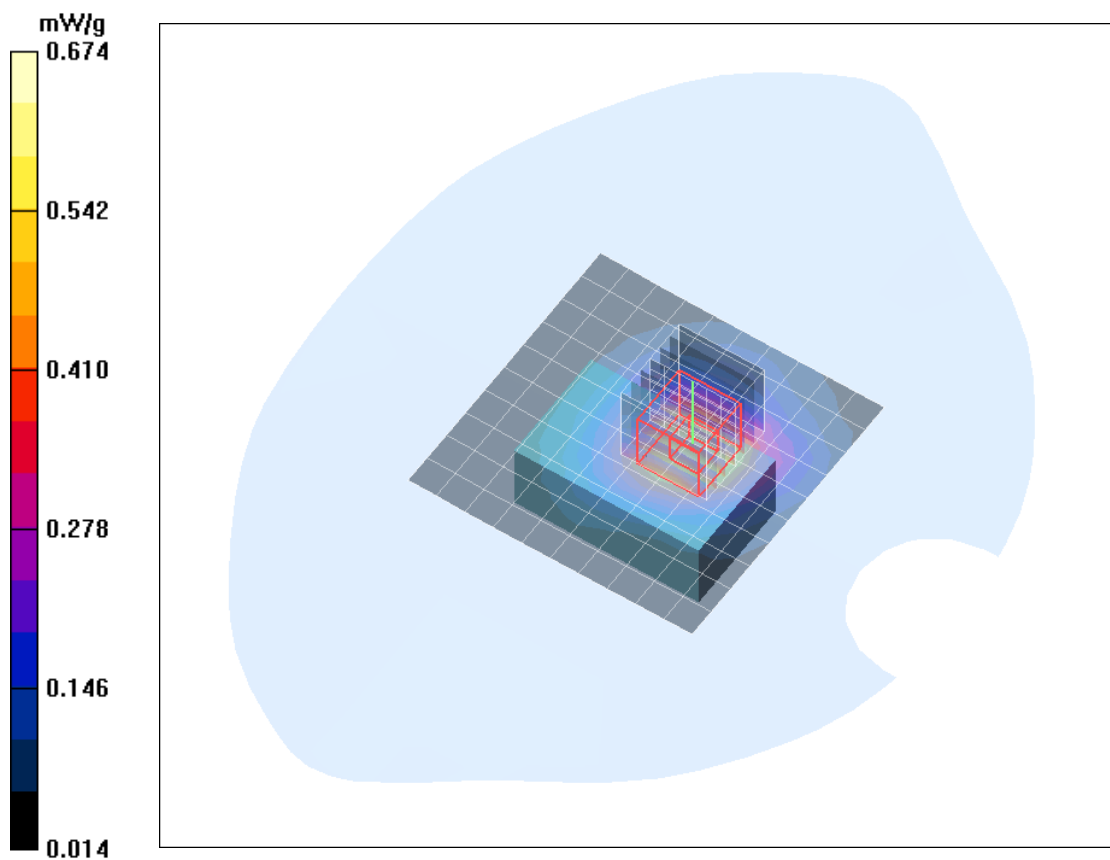


Fig. 4: SAR distribution for WCDMA IV, channel 1312, Position 1 (June 25, 2013; Ambient Temperature: 22.8°C; Liquid Temperature: 22.4°C).