
Appendix for the Report

Dosimetric Assessment of the Portable Device Datalogic Joya+ A (FCC ID: U4GA056) (IC ID: 3862E-MA056) (Contains FCC ID: U4G004W) (Contains IC: 3862E-004W)

According to the FCC and IC Requirements SAR Distribution Plots

April 15, 2011

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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, IEEE 802.11 b

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [Joya_ywhm_b_CH6_dspl_down.da4](#)

DUT: Datalogic; Type: Joya+ A; Serial: D10P00437

Program Name: WLAN

Communication System: WLAN 2450; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.02$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.48, 7.48, 7.48); Calibrated: 16.09.2010

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

- Electronics: DAE4 Sn631; Calibrated: 17.09.2010

- 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 Worn/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.172 mW/g

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

Reference Value = 5.37 V/m; Power Drift = 0.081 dB

Peak SAR (extrapolated) = 0.313 W/kg

SAR(1 g) = 0.168 mW/g; SAR(10 g) = 0.094 mW/g

Maximum value of SAR (measured) = 0.183 mW/g

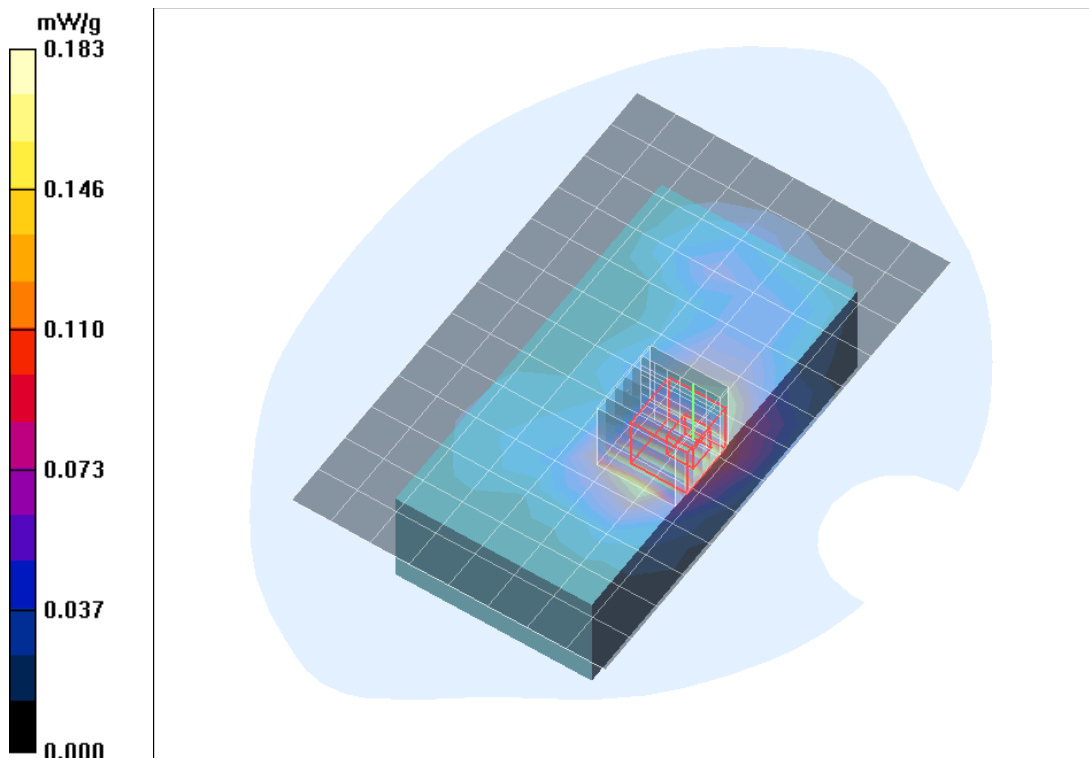


Fig. 1: SAR distribution for IEEE 802.11 b, channel 6, body worn configuration, display towards the ground, 0 mm distance (January 31, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.8° C).

2 SAR Distribution Plots, IEEE 802.11 g

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [Joya_ywhm_g_CH6_dspl_down.da4](#)

DUT: Datalogic; Type: Joya+ A; Serial: D10P00437

Program Name: WLAN

Communication System: WLAN 2450; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.02$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.48, 7.48, 7.48); Calibrated: 16.09.2010

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

- Electronics: DAE4 Sn631; Calibrated: 17.09.2010

- 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 Worn/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.184 mW/g

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

Reference Value = 5.58 V/m; Power Drift = 0.122 dB

Peak SAR (extrapolated) = 0.323 W/kg

SAR(1 g) = 0.174 mW/g; SAR(10 g) = 0.097 mW/g

Maximum value of SAR (measured) = 0.191 mW/g

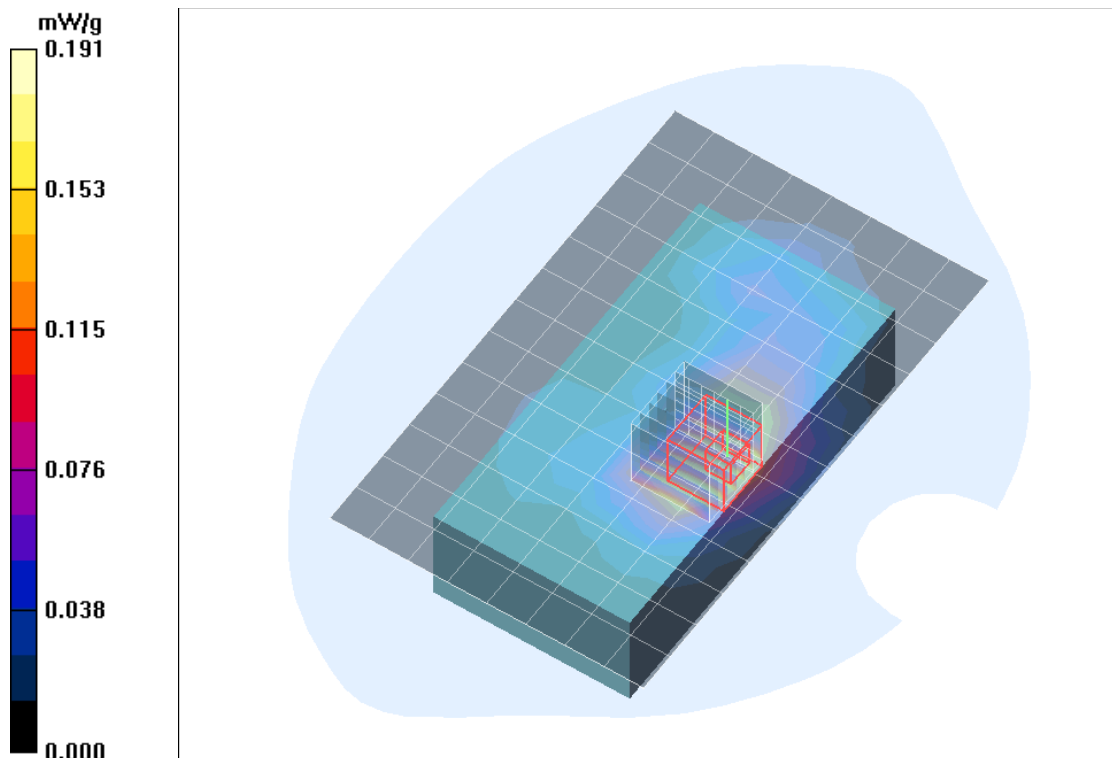


Fig. 2: SAR distribution for IEEE 802.11 g, channel 6, body worn configuration, display towards the ground, 0 mm distance (January 31, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.8° C).

3 SAR Distribution Plots, IEEE 802.11 a (5200 MHz Range)

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [Joya_bwhm_ch36_dspl_down.da4](#)

DUT: Datalogic; Type: Joya+ A; Serial: D10P00437

Program Name: WiFi 5200 MHz

Communication System: 5 GHz ; Frequency: 5180 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5180$ MHz; $\sigma = 5.22$ mho/m; $\epsilon_r = 48.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.36, 4.36, 4.36); Calibrated: 16.09.2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2010
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (12x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.414 mW/g

Body Worn/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 10.1 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.829 W/kg

SAR(1 g) = 0.214 mW/g; SAR(10 g) = 0.075 mW/g

Maximum value of SAR (measured) = 0.508 mW/g

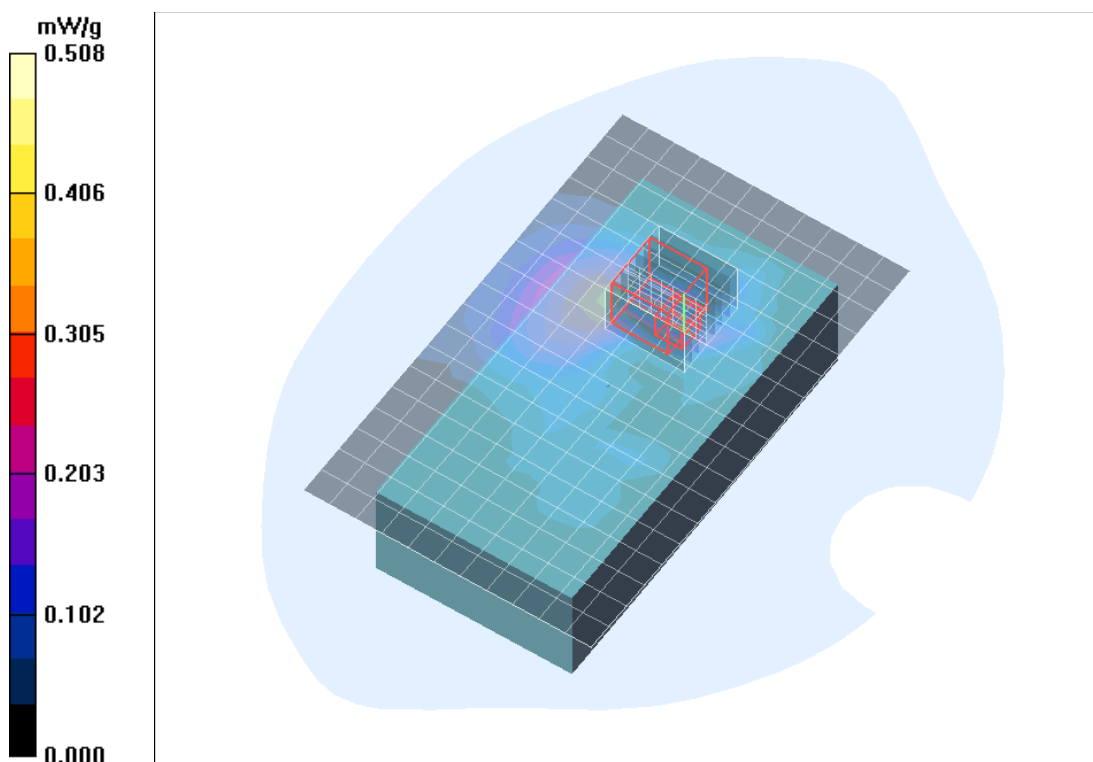


Fig. 3: SAR distribution for IEEE 802.11 a, channel 36, body worn configuration, display towards the ground, 0 mm distance (April 08, 2011; Ambient Temperature: 22.2° C; Liquid Temperature: 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [Joya bwhm ch48 dspl down.da4](#)

DUT: Datalogic; Type: Joya+ A; Serial: D10P00437

Program Name: WiFi 5200 MHz

Communication System: 5 GHz ; Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5240$ MHz; $\sigma = 5.28$ mho/m; $\epsilon_r = 48.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.36, 4.36, 4.36); Calibrated: 16.09.2010

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn631; Calibrated: 17.09.2010

- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (12x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.317 mW/g

Body Worn/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 8.91 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 0.844 W/kg

SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.061 mW/g

Maximum value of SAR (measured) = 0.344 mW/g

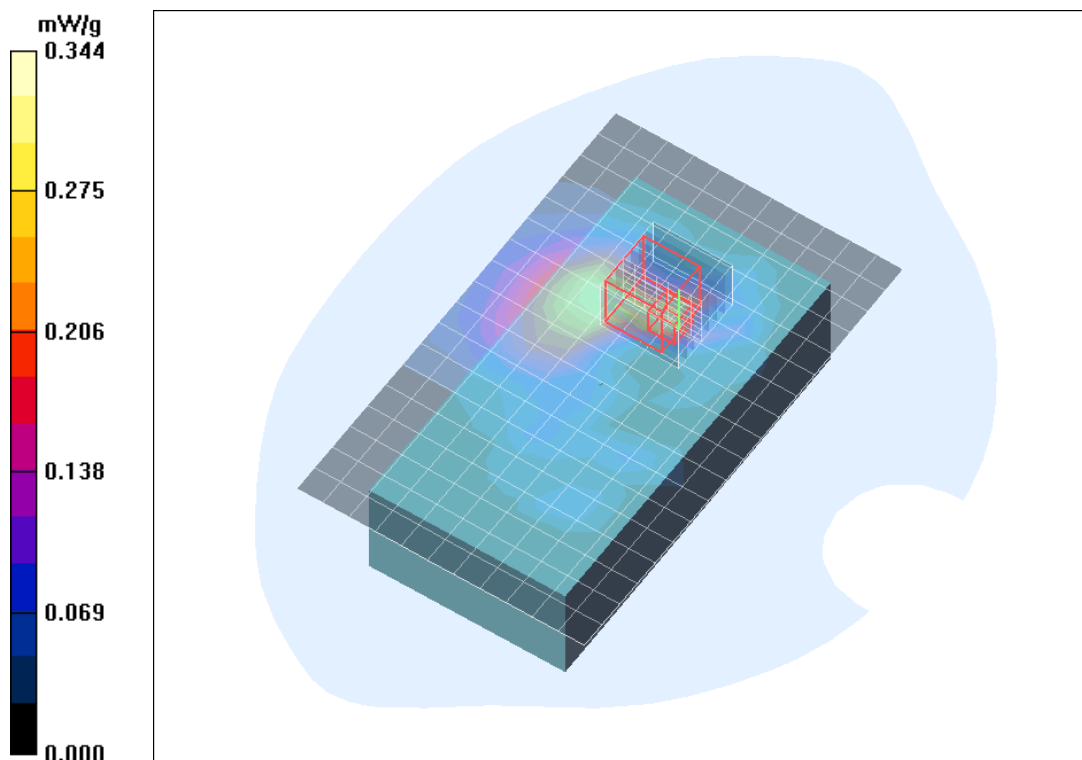


Fig. 4: SAR distribution for IEEE 802.11 a, channel 48, body worn configuration, display towards the ground, 0 mm distance (April 08, 2011; Ambient Temperature: 22.2° C; Liquid Temperature: 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [Joya bwhm ch52 dspl down.da4](#)

DUT: Datalogic; Type: Joya+ A; Serial: D10P00437

Program Name: WiFi 5200 MHz

Communication System: 5 GHz ; Frequency: 5260 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5260$ MHz; $\sigma = 5.3$ mho/m; $\epsilon_r = 48.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.13, 4.13, 4.13); Calibrated: 16.09.2010

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn631; Calibrated: 17.09.2010

- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (12x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.337 mW/g

Body Worn/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 8.95 V/m; Power Drift = -0.049 dB

Peak SAR (extrapolated) = 0.568 W/kg

SAR(1 g) = 0.191 mW/g; SAR(10 g) = 0.079 mW/g

Maximum value of SAR (measured) = 0.341 mW/g

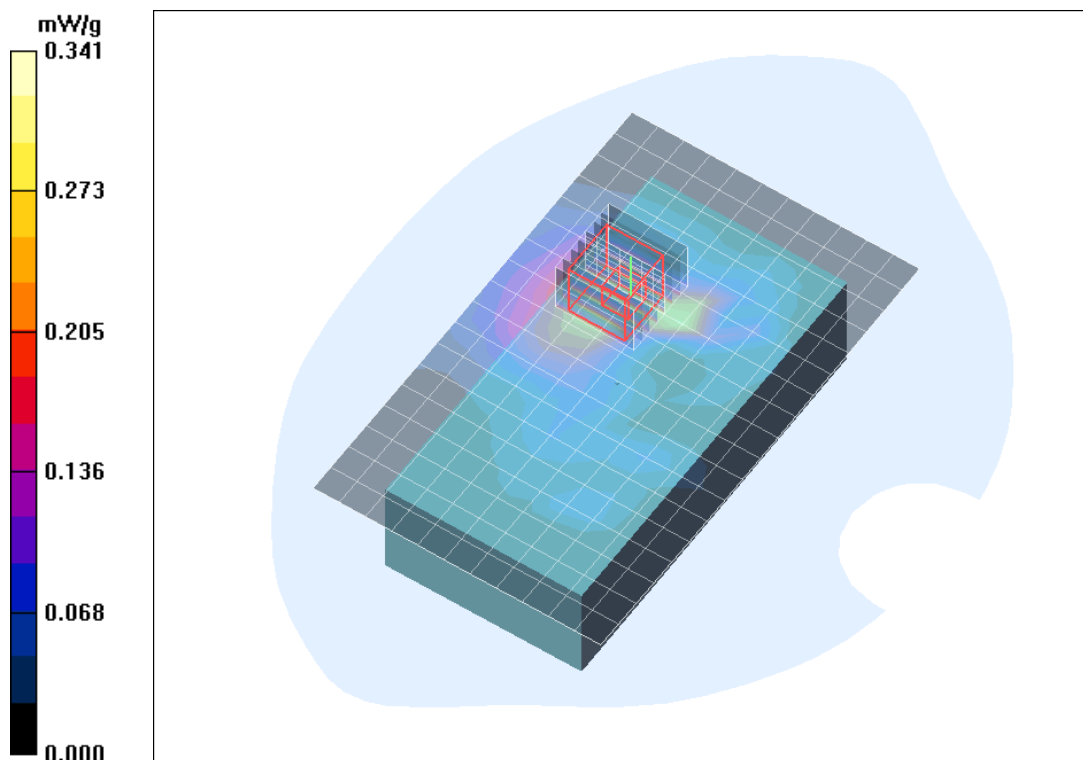


Fig. 5: SAR distribution for IEEE 802.11 a, channel 52, body worn configuration, display towards the ground, 0 mm distance (April 08, 2011; Ambient Temperature: 22.2° C; Liquid Temperature: 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [Joya bwhm ch64 dspl down.da4](#)

DUT: Datalogic; Type: Joya+ A; Serial: D10P00437

Program Name: WiFi 5200 MHz

Communication System: 5 GHz ; Frequency: 5320 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5320$ MHz; $\sigma = 5.42$ mho/m; $\epsilon_r = 48.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.13, 4.13, 4.13); Calibrated: 16.09.2010

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn631; Calibrated: 17.09.2010

- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (12x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.343 mW/g

Body Worn/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 9.01 V/m; Power Drift = 0.108 dB

Peak SAR (extrapolated) = 0.604 W/kg

SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.084 mW/g

Maximum value of SAR (measured) = 0.351 mW/g

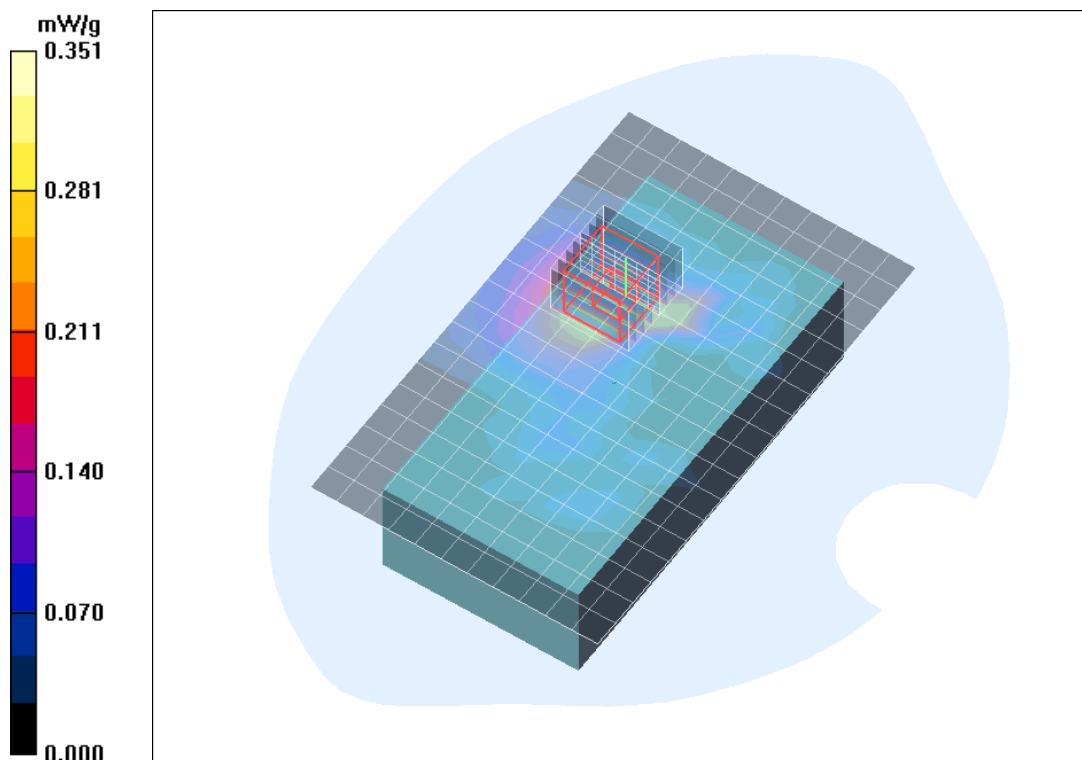


Fig. 6: SAR distribution for IEEE 802.11 a, channel 64, body worn configuration, display towards the ground, 0 mm distance (April 08, 2011; Ambient Temperature: 22.2° C; Liquid Temperature: 21.5° C).

4 SAR Distribution Plots, IEEE 802.11 a (5500 MHz Range)

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [Joya_bwhm_ch104_dspl_down.da4](#)

DUT: Datalogic; Type: Joya+ A; Serial: D10P00437

Program Name: WiFi 5500 MHz

Communication System: 5 GHz ; Frequency: 5520 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5520$ MHz; $\sigma = 5.71$ mho/m; $\epsilon_r = 48$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(3.9, 3.9, 3.9); Calibrated: 16.09.2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2010
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (12x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.309 mW/g

Body Worn/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 8.76 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.564 W/kg

SAR(1 g) = 0.189 mW/g; SAR(10 g) = 0.080 mW/g

Maximum value of SAR (measured) = 0.336 mW/g

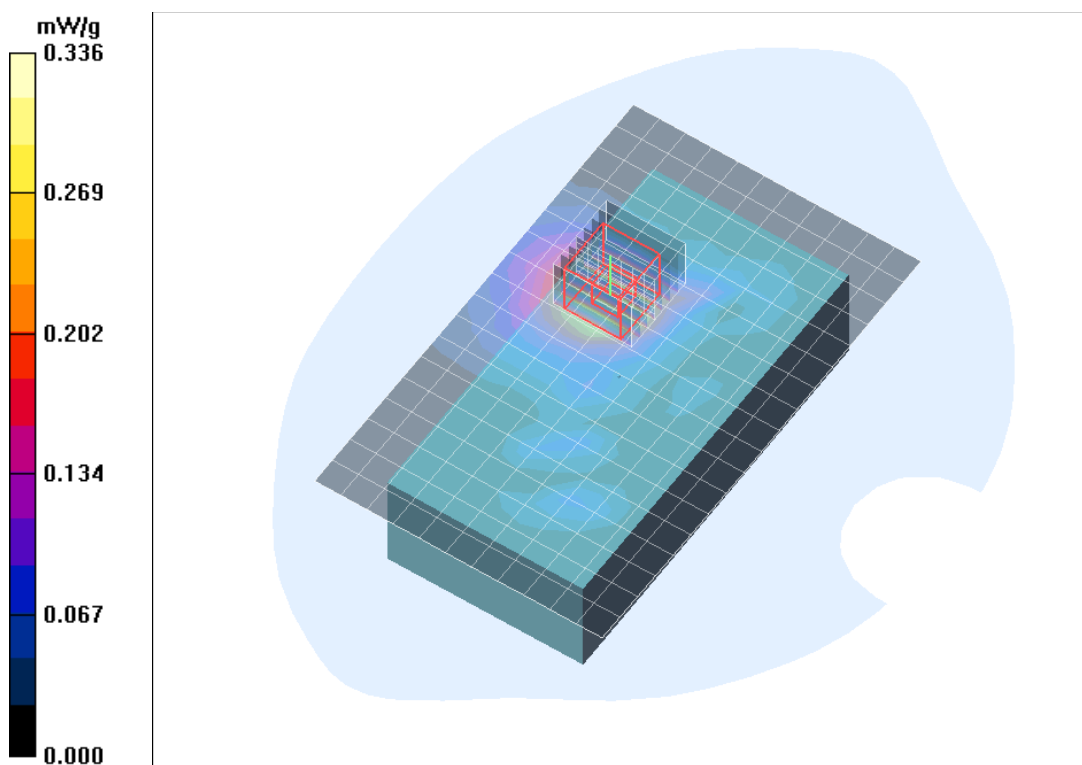


Fig. 7: SAR distribution for IEEE 802.11 a, channel 104, body worn configuration, display towards the ground, 0 mm distance (April 13, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.6° C).

Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [Joya bwhm ch116 dspl down.da4](#)

DUT: Datalogic; **Type:** Joya+ A; **Serial:** D10P00437

Program Name: WiFi 5500 MHz

Communication System: 5 GHz ; Frequency: 5580 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5580$ MHz; $\sigma = 5.8$ mho/m; $\epsilon_r = 47.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(3.9, 3.9, 3.9); Calibrated: 16.09.2010

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn631; Calibrated: 17.09.2010

- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (12x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.278 mW/g

Body Worn/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 8.16 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.493 W/kg

SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.072 mW/g

Maximum value of SAR (measured) = 0.312 mW/g

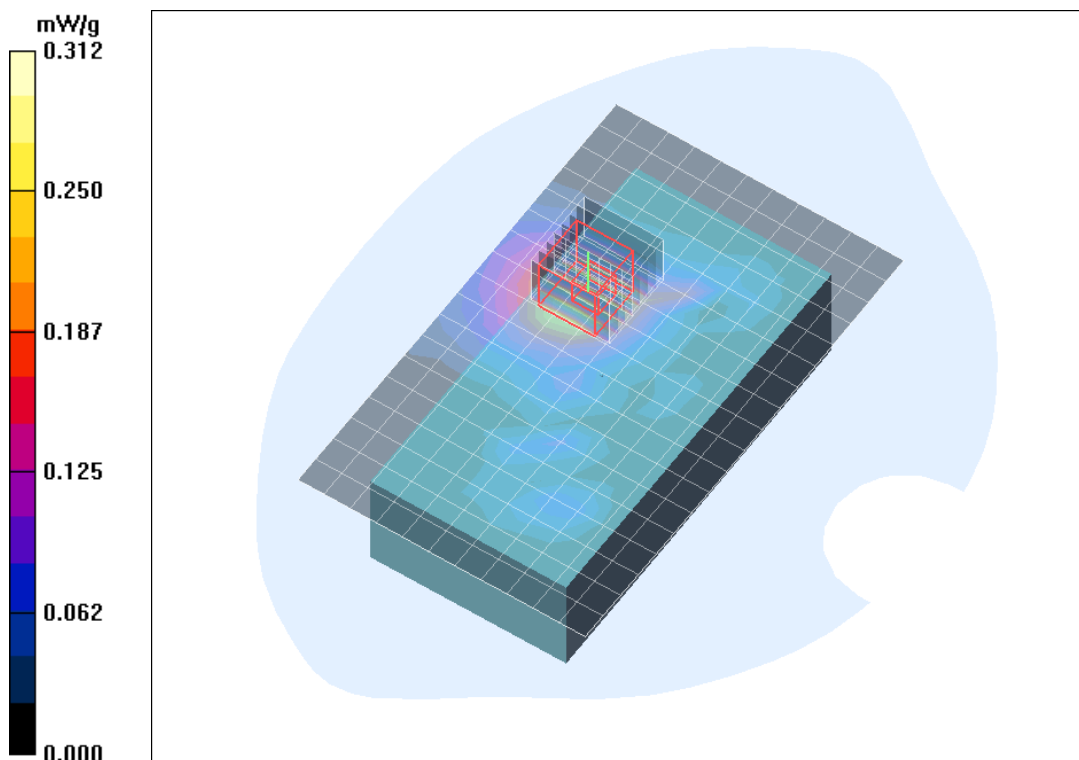


Fig. 8: SAR distribution for IEEE 802.11 a, channel 116, body worn configuration, display towards the ground, 0 mm distance (April 13, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.6° C).

Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [Joya bwhm ch124 dspl down.da4](#)

DUT: Datalogic; **Type:** Joya+ A; **Serial:** D10P00437

Program Name: WiFi 5500 MHz

Communication System: 5 GHz ; Frequency: 5620 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5620$ MHz; $\sigma = 5.88$ mho/m; $\epsilon_r = 47.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(3.9, 3.9, 3.9); Calibrated: 16.09.2010

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn631; Calibrated: 17.09.2010

- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (12x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.287 mW/g

Body Worn/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 7.99 V/m; Power Drift = 0.134 dB

Peak SAR (extrapolated) = 0.538 W/kg

SAR(1 g) = 0.174 mW/g; SAR(10 g) = 0.073 mW/g

Maximum value of SAR (measured) = 0.316 mW/g

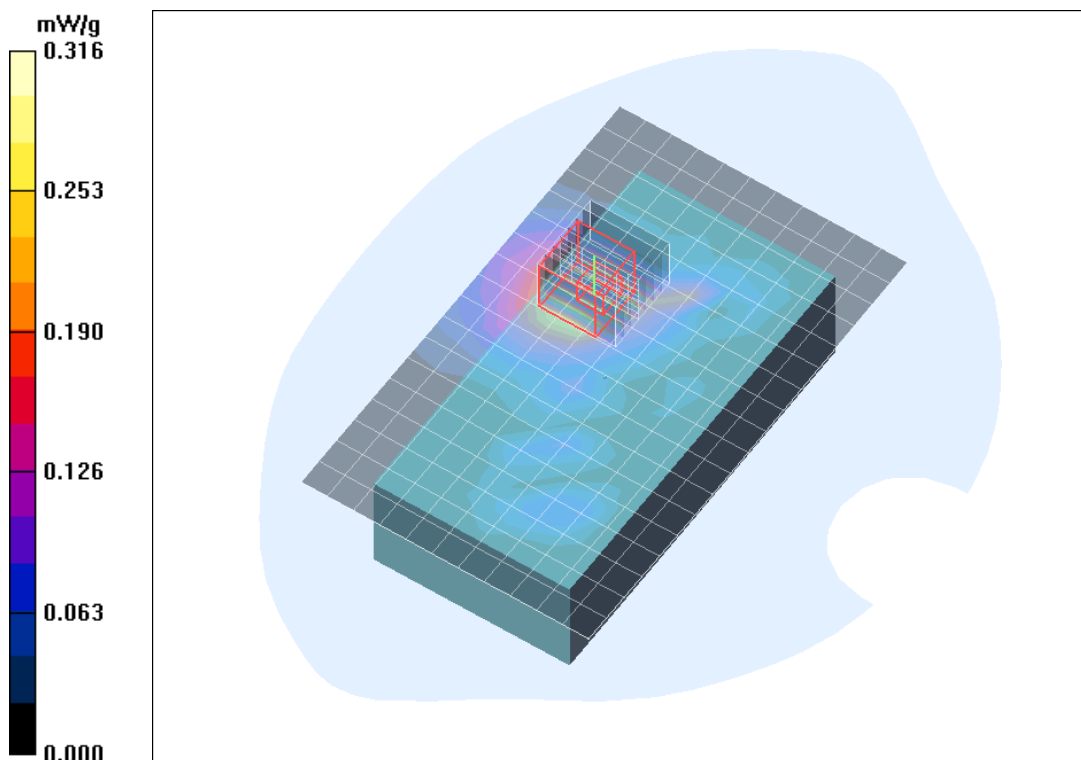


Fig. 9: SAR distribution for IEEE 802.11 a, channel 124, body worn configuration, display towards the ground, 0 mm distance (April 13, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.6° C).

Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [Joya bwhm ch136 dspl down.da4](#)

DUT: Datalogic; **Type:** Joya+ A; **Serial:** D10P00437

Program Name: WiFi 5500 MHz

Communication System: 5 GHz ; Frequency: 5680 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5680$ MHz; $\sigma = 5.97$ mho/m; $\epsilon_r = 47.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(3.9, 3.9, 3.9); Calibrated: 16.09.2010

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn631; Calibrated: 17.09.2010

- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (12x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.314 mW/g

Body Worn/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 8.33 V/m; Power Drift = 0.064 dB

Peak SAR (extrapolated) = 0.590 W/kg

SAR(1 g) = 0.188 mW/g; SAR(10 g) = 0.077 mW/g

Maximum value of SAR (measured) = 0.351 mW/g

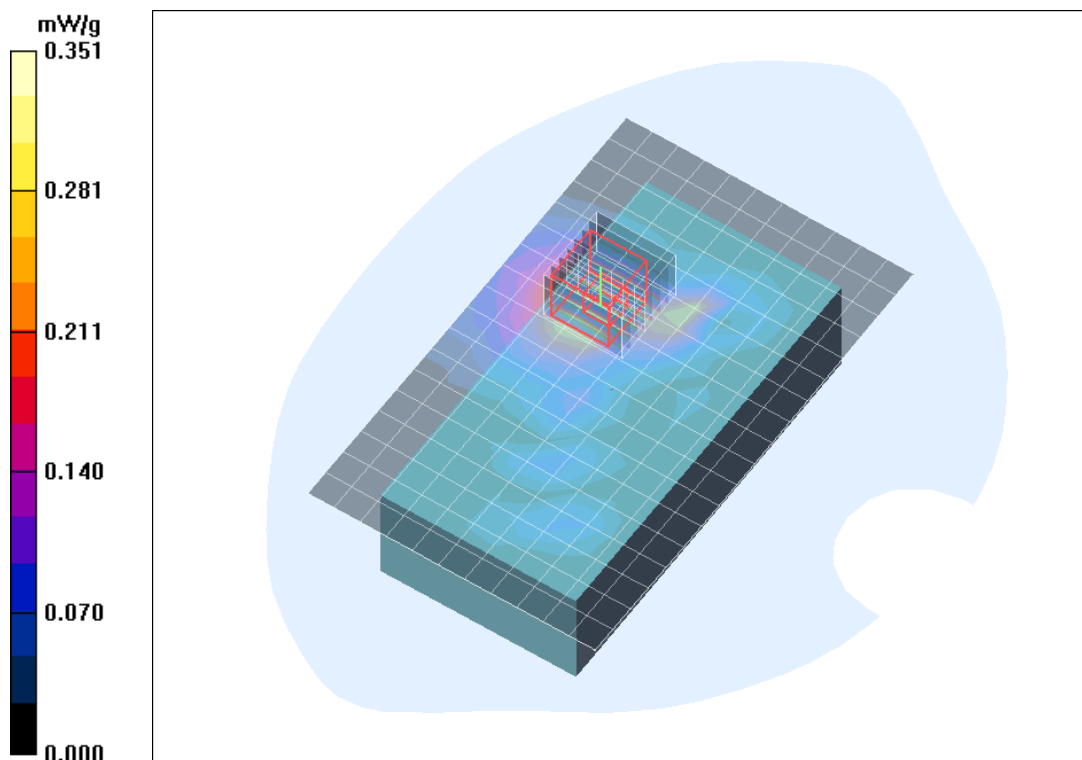


Fig. 10: SAR distribution for IEEE 802.11 a, channel 136, body worn configuration, display towards the ground, 0 mm distance (April 13, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.6° C).

5 SAR Distribution Plots, IEEE 802.11 a (5800 MHz Range)

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [Joya_bwhm_ch149_dspl_down.da4](#)

DUT: Datalogic; Type: Joya+ A; Serial: D10P00437

Program Name: WiFi 5800 MHz

Communication System: 5 GHz ; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5745$ MHz; $\sigma = 6.1$ mho/m; $\epsilon_r = 47.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.1, 4.1, 4.1); Calibrated: 16.09.2010

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn631; Calibrated: 17.09.2010

- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (12x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.345 mW/g

Body Worn/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 8.37 V/m; Power Drift = 0.260 dB

Peak SAR (extrapolated) = 0.562 W/kg

SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.054 mW/g

Maximum value of SAR (measured) = 0.359 mW/g

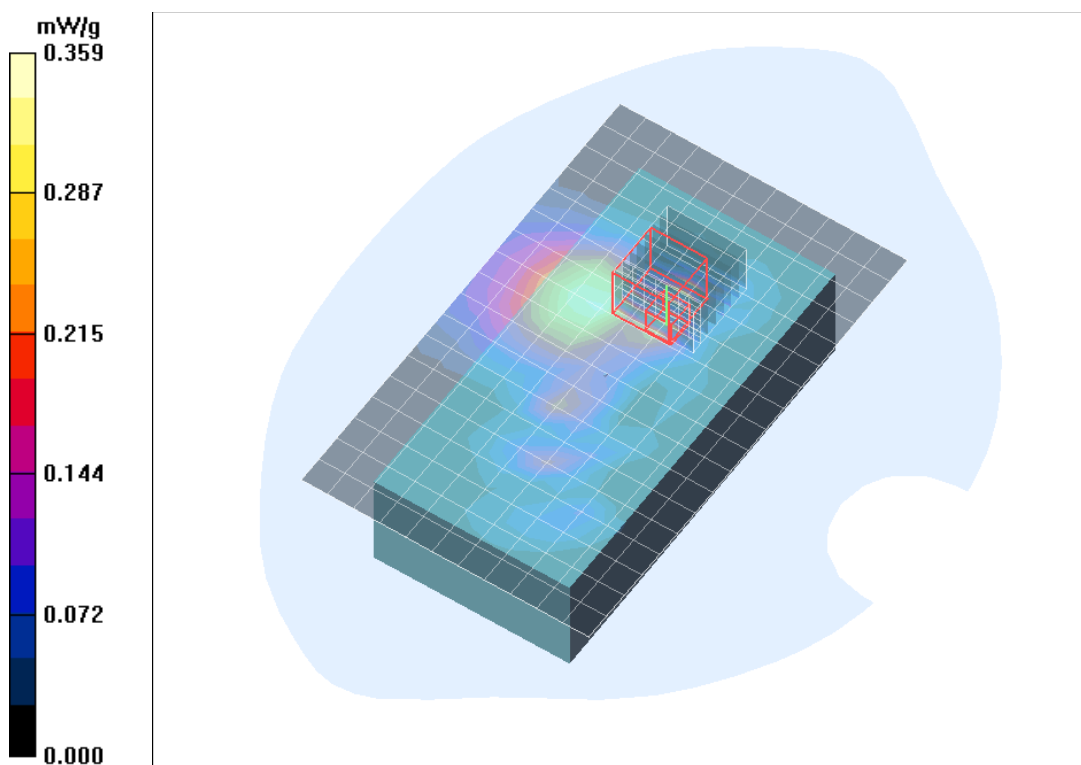


Fig. 11: SAR distribution for IEEE 802.11 a, channel 149, body worn configuration, display towards the ground, 0 mm distance (April 14, 2011; Ambient Temperature: 22.3° C; Liquid Temperature: 21.7° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [Joya bwhm ch161 dspl down.da4](#)

DUT: Datalogic; Type: Joya+ A; Serial: D10P00437

Program Name: WiFi 5800 MHz

Communication System: 5 GHz ; Frequency: 5805 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5805$ MHz; $\sigma = 6.18$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.1, 4.1, 4.1); Calibrated: 16.09.2010

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn631; Calibrated: 17.09.2010

- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (12x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.384 mW/g

Body Worn/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 8.87 V/m; Power Drift = 0.132 dB

Peak SAR (extrapolated) = 0.660 W/kg

SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.057 mW/g

Maximum value of SAR (measured) = 0.442 mW/g

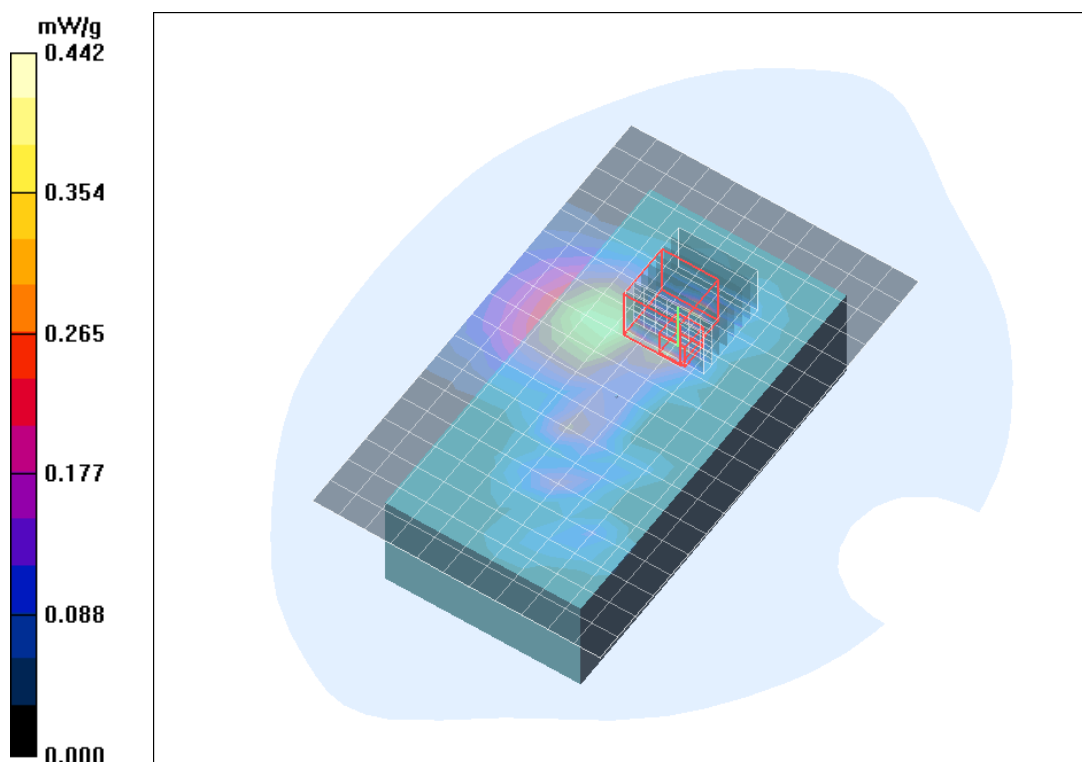


Fig. 12: SAR distribution for IEEE 802.11 a, channel 161, body worn configuration, display towards the ground, 0 mm distance (April 14, 2011; Ambient Temperature: 22.3° C; Liquid Temperature: 21.7° C).

6 SAR Z-axis Scans (Validation)

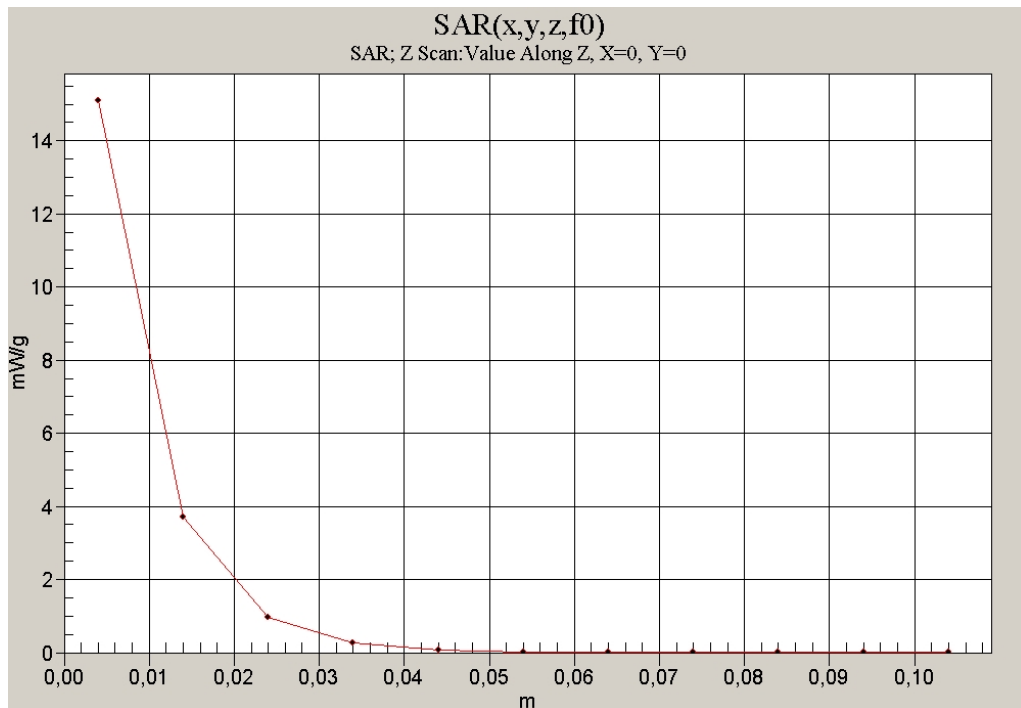


Fig. 13: SAR versus liquid depth, 2450 MHz, body (January 31, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.8° C).

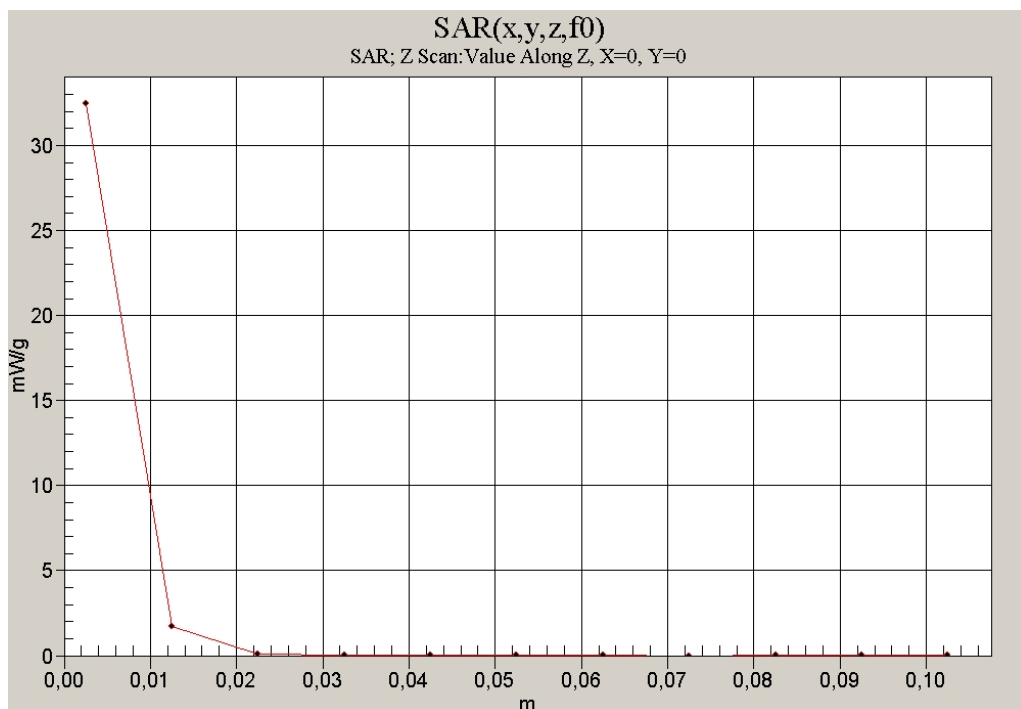


Fig. 14: SAR versus liquid depth, 5200 MHz, body (April 08, 2011; Ambient Temperature: 22.2° C; Liquid Temperature: 21.5° C).

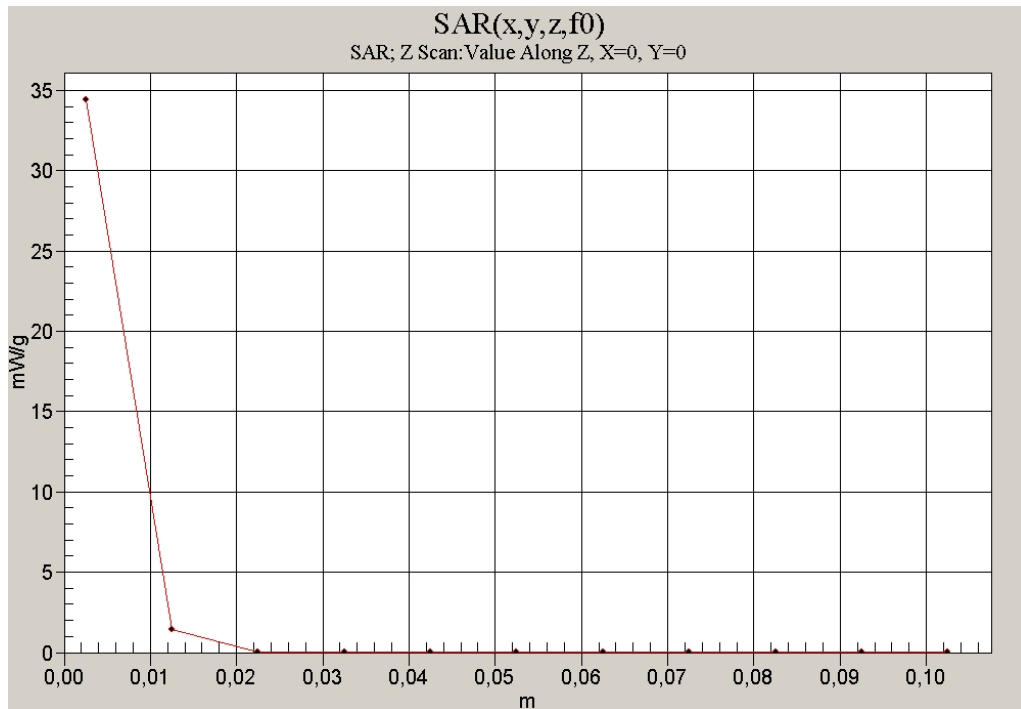


Fig. 15: SAR versus liquid depth, 5500 MHz, body (April 13, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.5° C).

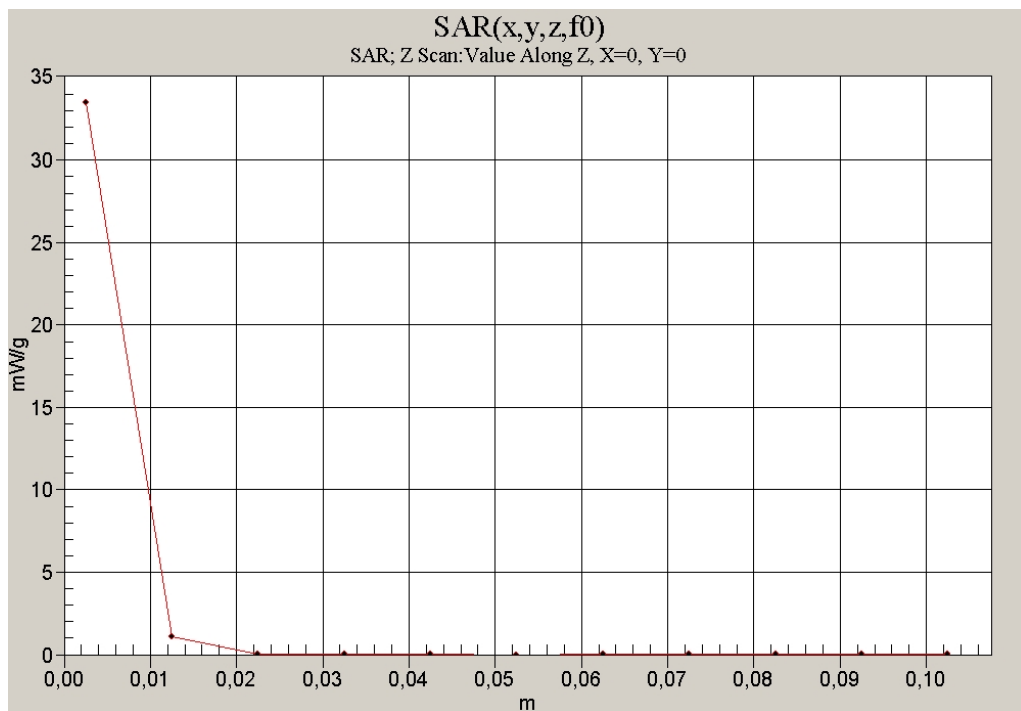


Fig. 16: SAR versus liquid depth, 5800 MHz, body (April 14, 2011; Ambient Temperature: 22.3° C; Liquid Temperature: 21.7° C).

7 SAR Z-axis Scans (Measurements)

The following pictures show the plots of SAR versus liquid depth for the worst case values.

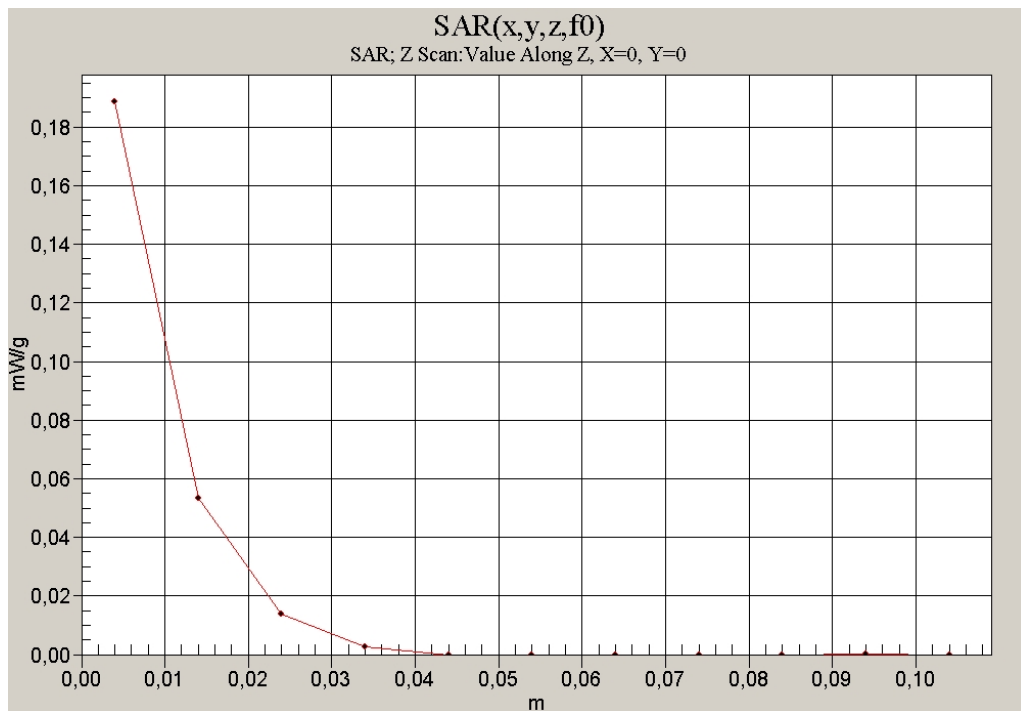


Fig. 17: SAR versus liquid depth, body: IEEE 802.11 g, channel 6, display towards the ground (January 31, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.8° C).

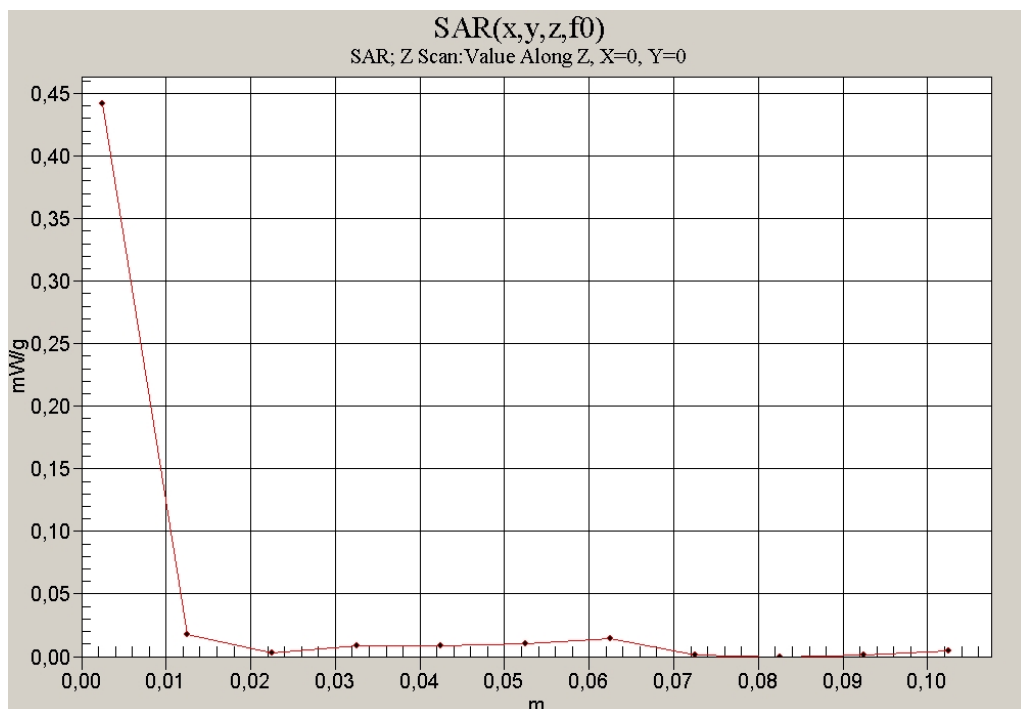


Fig. 18: SAR versus liquid depth, body: IEEE 802.11 a, channel 36, display towards the ground (April 08, 2011; Ambient Temperature: 22.2°C; Liquid Temperature: 21.5° C).