

# **Appendix for the Report**

## **Dosimetric Assessment of the Datalogic SKORPIO X3 Contains FCC ID: U4G004W Contains IC: 3862E-004W**

### **According to the FCC Requirements**

### **SAR Distribution Plots**

May 22, 2012

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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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## 1 SAR Distribution Plots, IEEE 802.11 b/g Head

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [X3\\_ywlm\\_1\\_CH6\\_b.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 b

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

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.81$  mho/m;  $\epsilon_r = 39.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.45, 7.45, 7.45); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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

**Cheek Left/Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.085 mW/g

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

Reference Value = 6.91 V/m; Power Drift = -0.161 dB

Peak SAR (extrapolated) = 0.169 W/kg

**SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.044 mW/g**

Maximum value of SAR (measured) = 0.093 mW/g

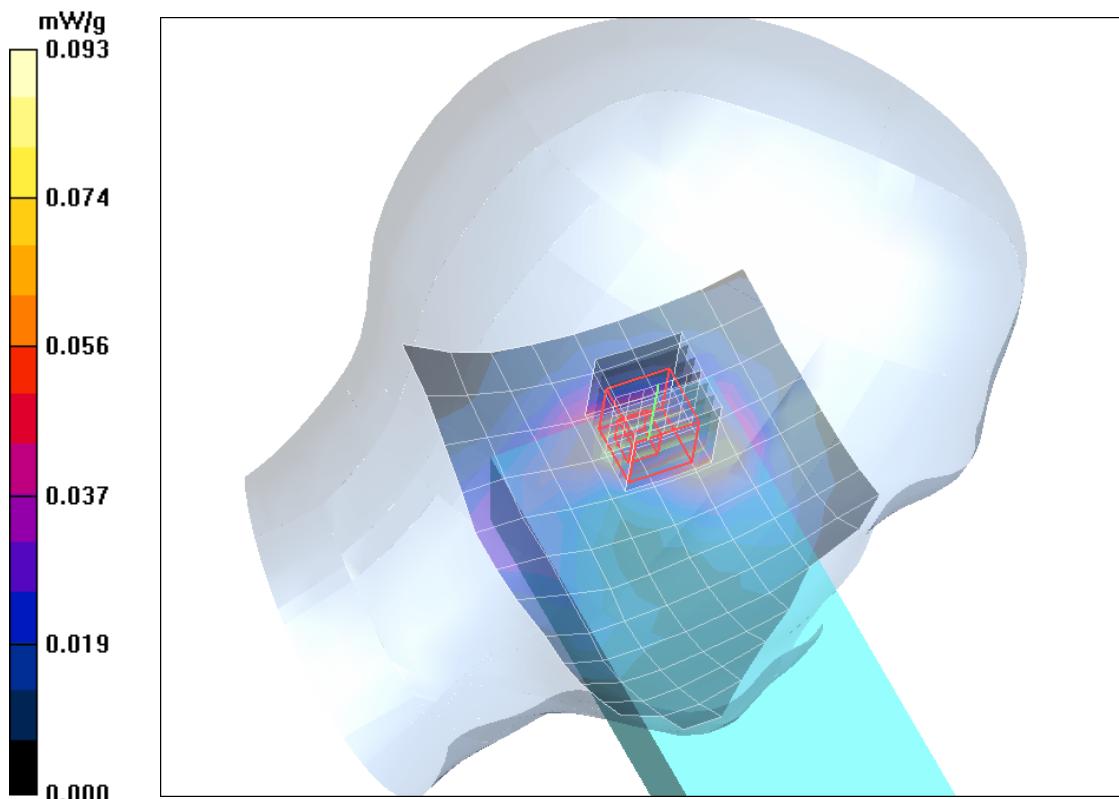


Fig. 1: SAR distribution for IEEE 802.11 b, channel 6, cheek position, left side of head (May 18, 2012; Ambient Temperature: 22.4° C; Liquid Temperature: 22.3° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [X3\\_ywlm\\_2\\_CH6\\_b.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 b

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

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.81$  mho/m;  $\epsilon_r = 39.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.45, 7.45, 7.45); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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

**Tilted Left/Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.092 mW/g

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

Reference Value = 7.43 V/m; Power Drift = 0.079 dB

Peak SAR (extrapolated) = 0.194 W/kg

**SAR(1 g) = 0.097 mW/g; SAR(10 g) = 0.049 mW/g**

Maximum value of SAR (measured) = 0.106 mW/g

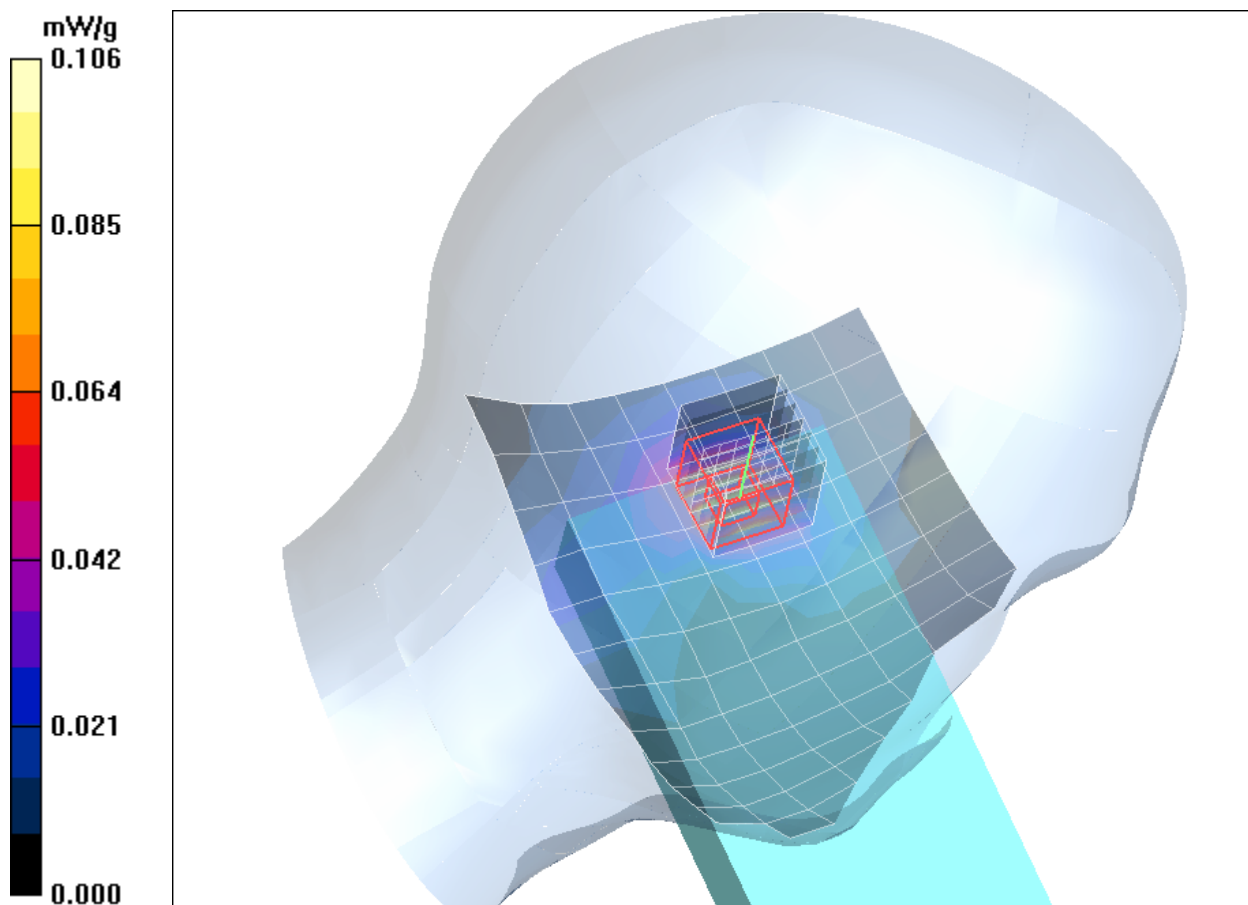


Fig. 2: SAR distribution for IEEE 802.11 b, channel 6, tilted position, left side of head (May 18, 2012; Ambient Temperature: 22.4° C; Liquid Temperature: 22.3° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [X3\\_ywrm\\_1\\_CH6\\_b.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 b

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

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.81$  mho/m;  $\epsilon_r = 39.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.45, 7.45, 7.45); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- 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

**Cheek Right/Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.084 mW/g

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

Reference Value = 6.62 V/m; Power Drift = 0.078 dB

Peak SAR (extrapolated) = 0.167 W/kg

**SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.044 mW/g**

Maximum value of SAR (measured) = 0.094 mW/g

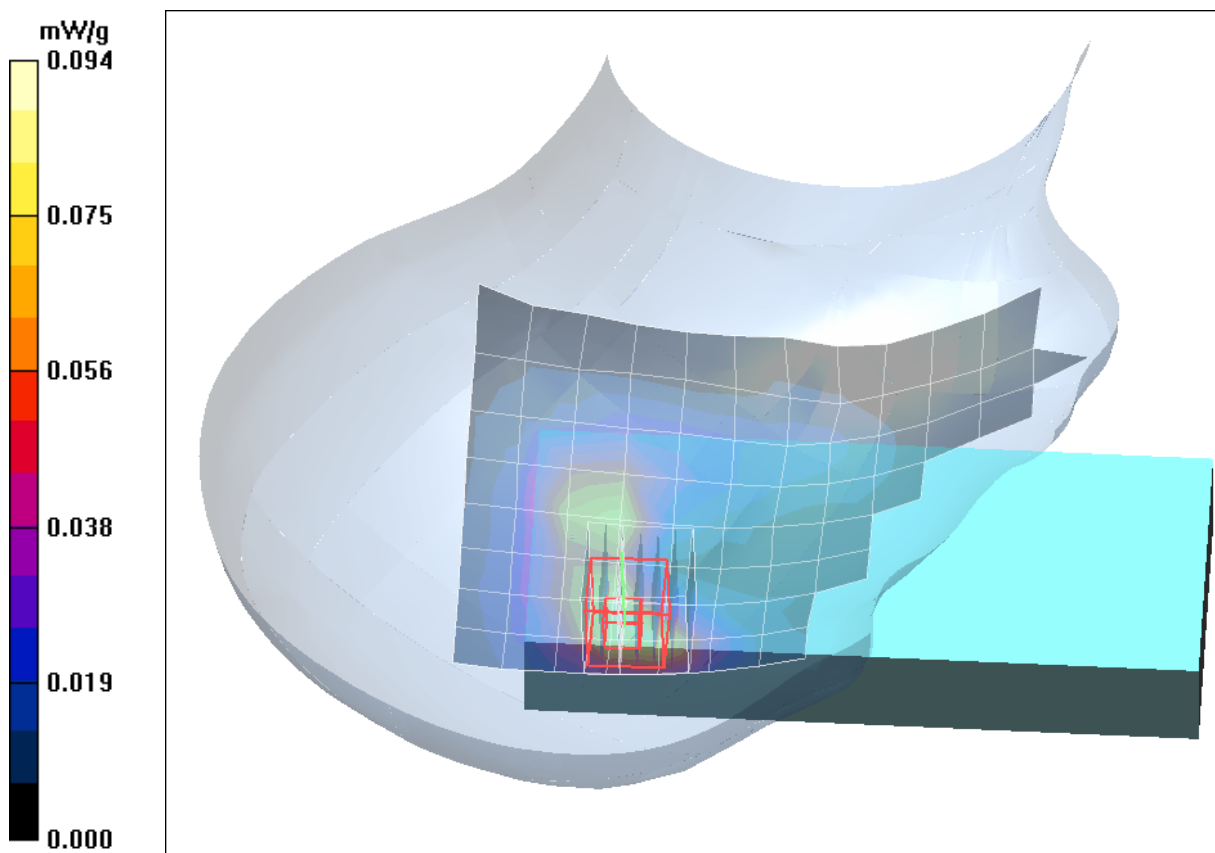


Fig. 3: SAR distribution for IEEE 802.11 b, channel 6, cheek position, right side of head (May 18, 2012; Ambient Temperature: 22.4° C; Liquid Temperature: 22.3° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [X3\\_ywrm\\_2\\_CH6\\_b.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 b

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

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.81$  mho/m;  $\epsilon_r = 39.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.45, 7.45, 7.45); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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

**Tilted Right/Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.087 mW/g

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

Reference Value = 7.48 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.181 W/kg

**SAR(1 g) = 0.094 mW/g; SAR(10 g) = 0.048 mW/g**

Maximum value of SAR (measured) = 0.103 mW/g

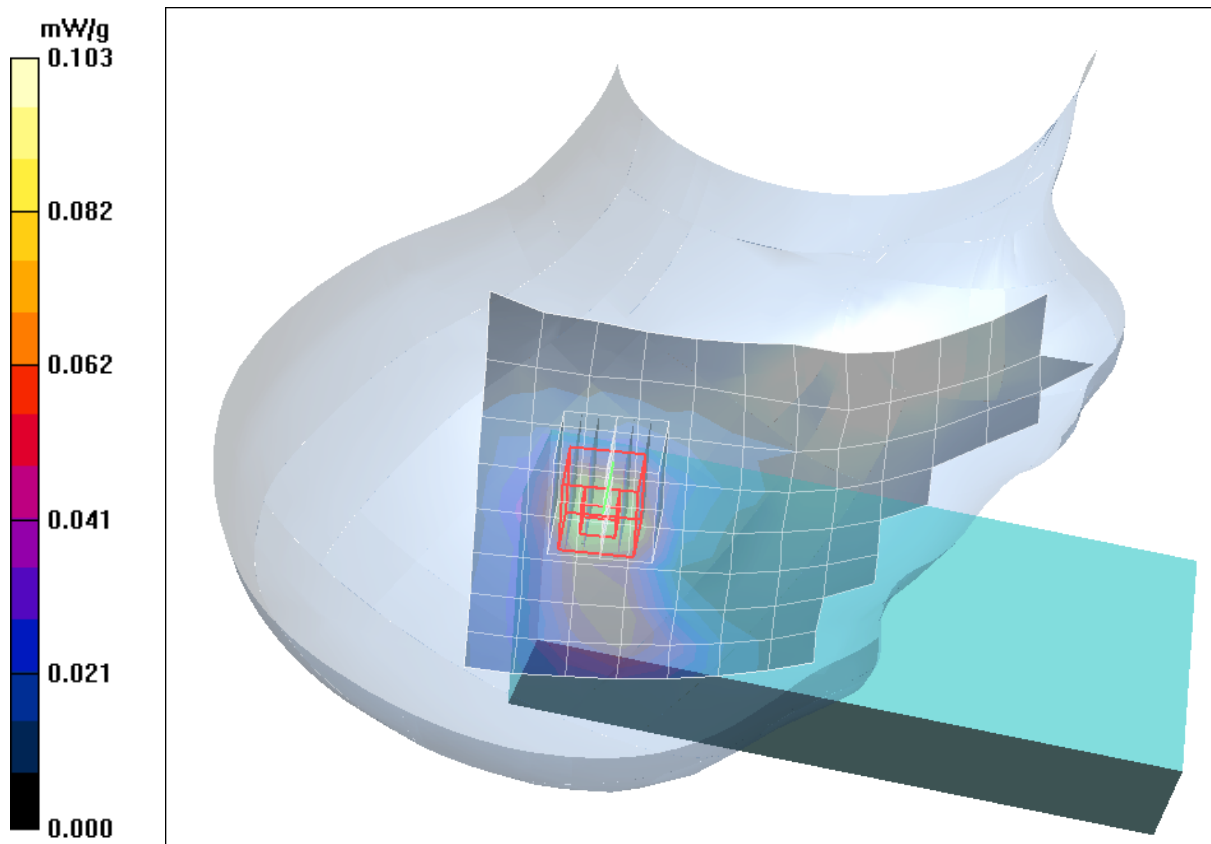


Fig. 4: SAR distribution for IEEE 802.11 b, channel 6, tilted position, right side of head (May 18, 2012; Ambient Temperature: 22.4° C; Liquid Temperature: 22.3° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [X3\\_ywll\\_2\\_CH1\\_b.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 b

Communication System: WLAN 2450; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.77$  mho/m;  $\epsilon_r = 39.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.45, 7.45, 7.45); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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

**Tilted Left/Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.080 mW/g

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

Reference Value = 7.10 V/m; Power Drift = -0.093 dB

Peak SAR (extrapolated) = 0.170 W/kg

**SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.042 mW/g**

Maximum value of SAR (measured) = 0.092 mW/g

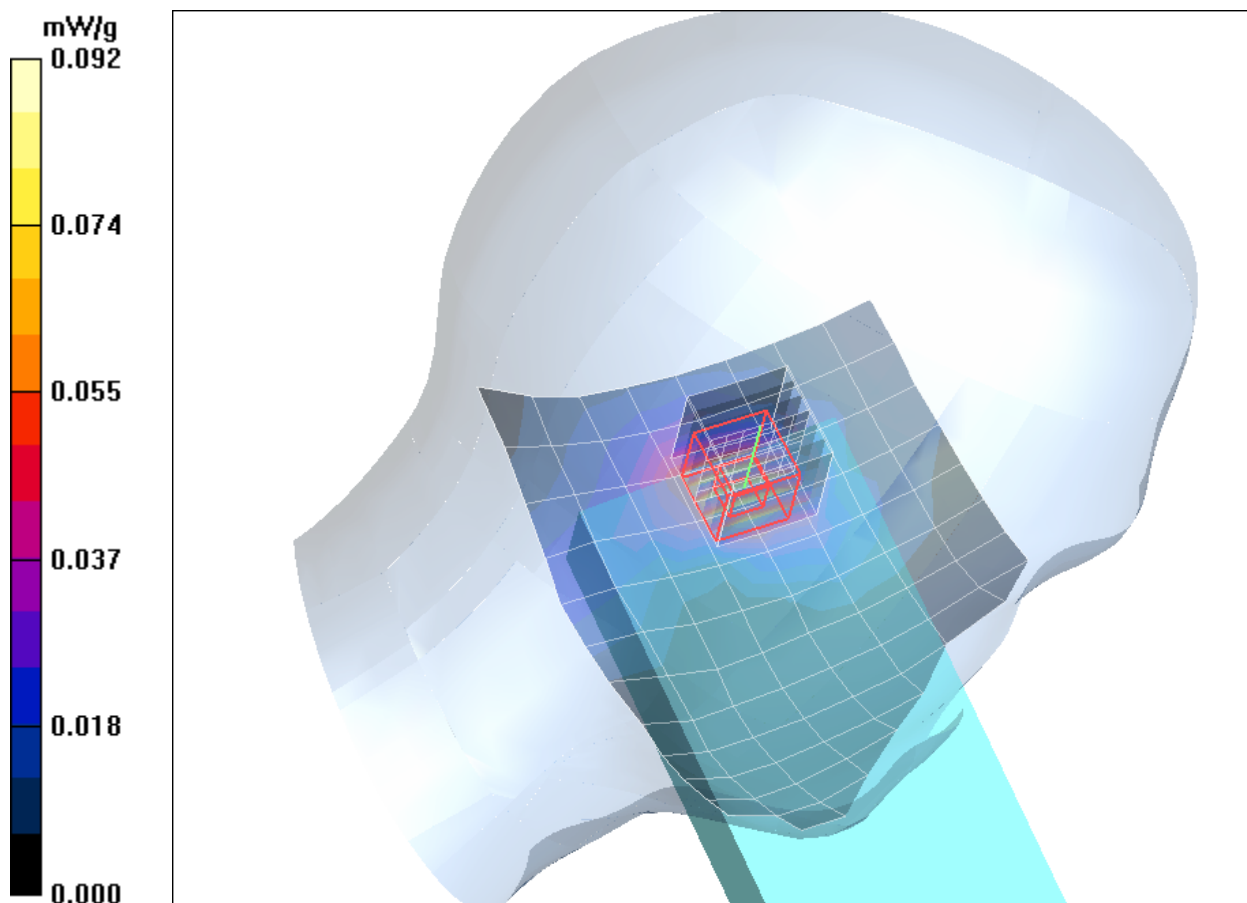


Fig. 5: SAR distribution for IEEE 802.11 b, channel 1, cheek position, left side of head (May 18, 2012; Ambient Temperature: 22.4° C; Liquid Temperature: 22.3° C).



Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [X3\\_yw1h\\_2\\_CH11\\_b.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 b

Communication System: WLAN 2450; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.85$  mho/m;  $\epsilon_r = 39.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.45, 7.45, 7.45); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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

**Tilted Left/Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.069 mW/g

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

Reference Value = 6.68 V/m; Power Drift = 0.127 dB

Peak SAR (extrapolated) = 0.164 W/kg

**SAR(1 g) = 0.083 mW/g; SAR(10 g) = 0.042 mW/g**

Maximum value of SAR (measured) = 0.093 mW/g

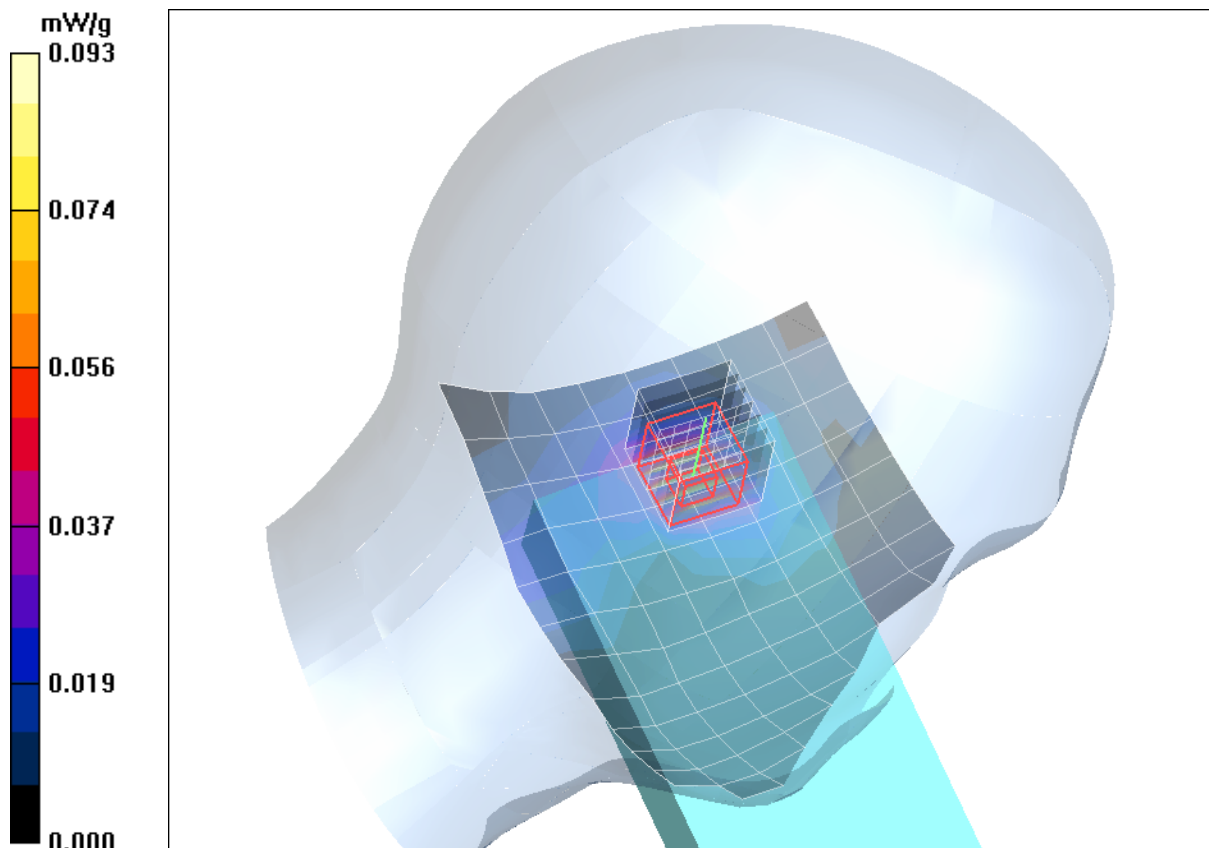


Fig. 6: SAR distribution for IEEE 802.11 b, channel 11, cheek position, left side of head (May 18, 2012; Ambient Temperature: 22.4° C; Liquid Temperature: 22.3° C).



Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [X3\\_ywlm\\_2\\_CH6\\_g.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 g

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

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.81$  mho/m;  $\epsilon_r = 39.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.45, 7.45, 7.45); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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

**Tilted Left/Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.059 mW/g

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

Reference Value = 6.40 V/m; Power Drift = -0.119 dB

Peak SAR (extrapolated) = 0.127 W/kg

**SAR(1 g) = 0.064 mW/g; SAR(10 g) = 0.032 mW/g**

Maximum value of SAR (measured) = 0.071 mW/g

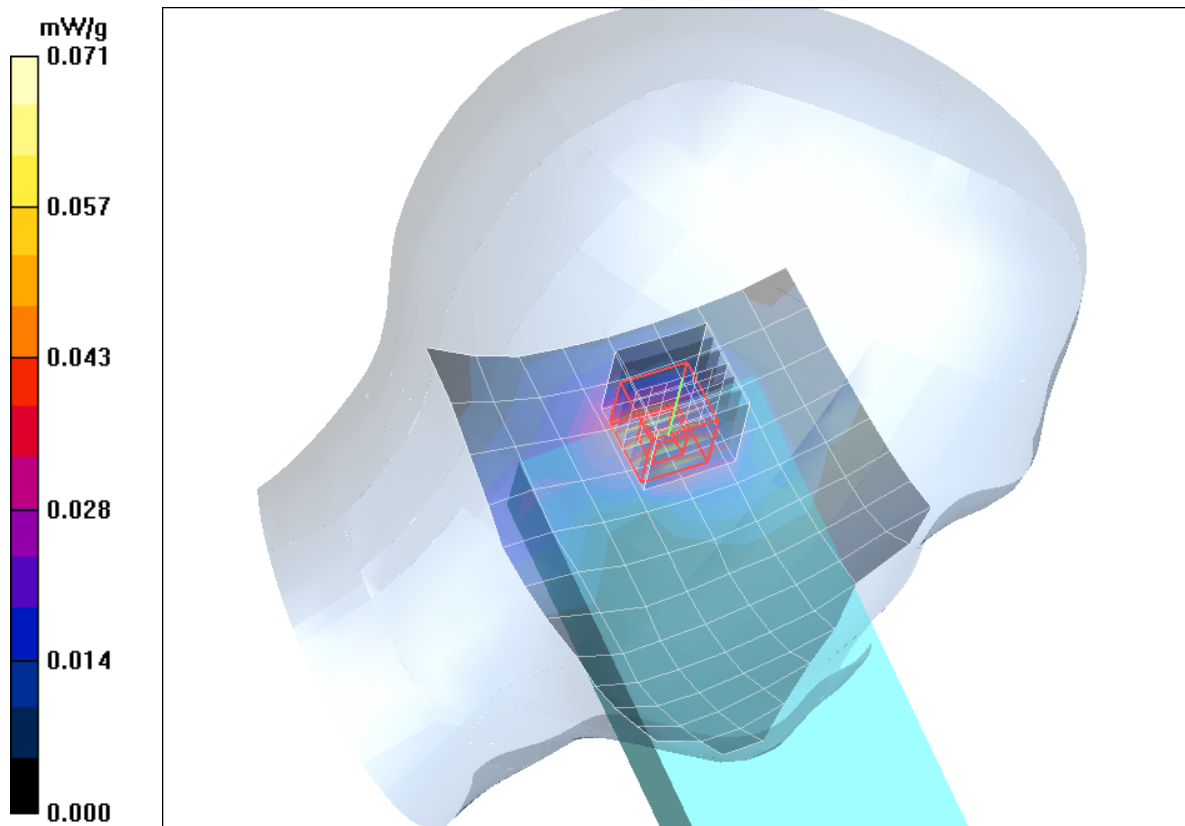


Fig. 7: SAR distribution for IEEE 802.11 g, channel 6, tilted position, left side of head (May 18, 2012; Ambient Temperature: 22.4° C; Liquid Temperature: 22.3° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [X3\\_ywlm\\_2\\_CH6\\_b\\_std\\_bat.da4](#)

DUT: Datalogic; Type: Scorpio X3; Serial: A12P00054

Program Name: IEEE 802.11 b

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

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.81$  mho/m;  $\epsilon_r = 39.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.45, 7.45, 7.45); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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

**Tilted Left/Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.088 mW/g

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

Reference Value = 7.58 V/m; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 0.197 W/kg

**SAR(1 g) = 0.102 mW/g; SAR(10 g) = 0.052 mW/g**

Maximum value of SAR (measured) = 0.112 mW/g

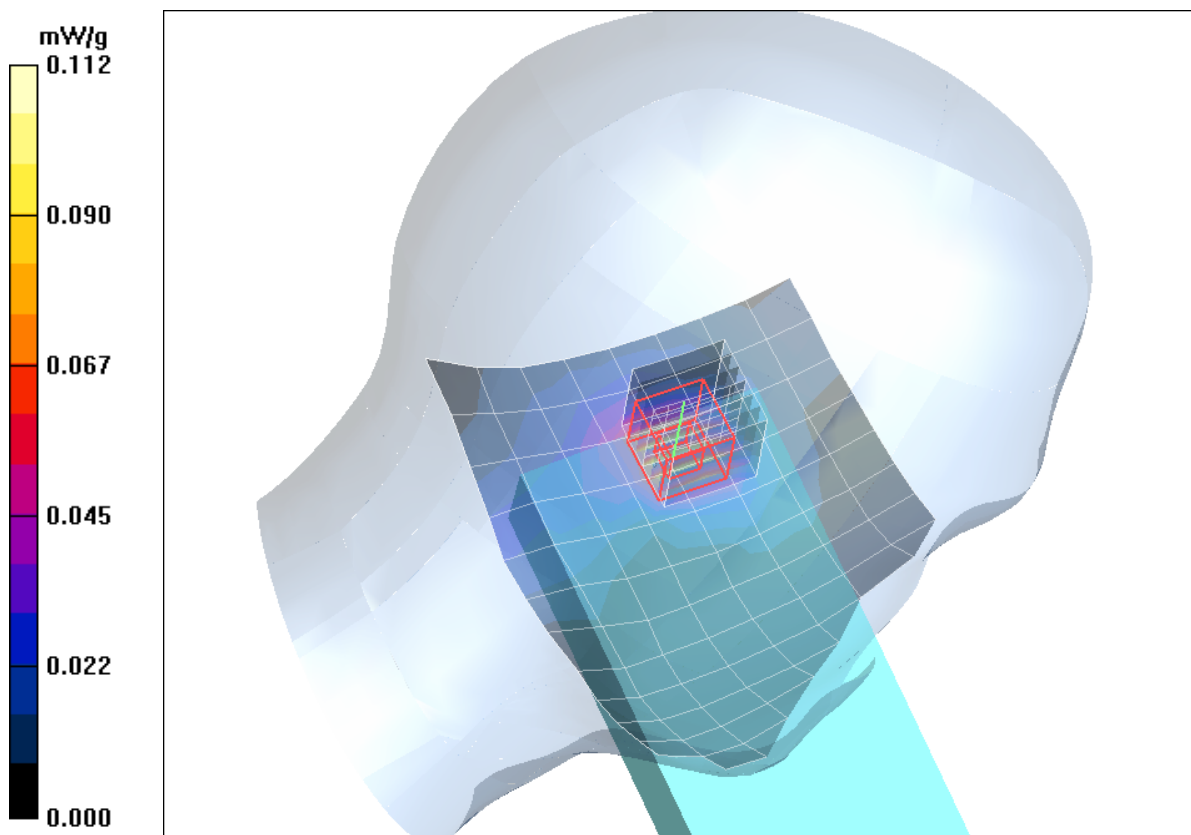


Fig. 8: SAR distribution for IEEE 802.11 g, channel 6, tilted position, left side of head, standard battery (May 18, 2012; Ambient Temperature: 22.4° C; Liquid Temperature: 22.3° C).

## 2 SAR Distribution Plots, IEEE 802.11 a Head (5200 MHz Range)

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [X3\\_bwlm\\_1\\_CH52\\_a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

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

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.56$  mho/m;  $\epsilon_r = 34.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.9, 4.9, 4.9); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Left/Area Scan (13x22x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.078 mW/g

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

Reference Value = 1.82 V/m; Power Drift = 0.152 dB

Peak SAR (extrapolated) = 0.290 W/kg

**SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.026 mW/g**

Maximum value of SAR (measured) = 0.091 mW/g

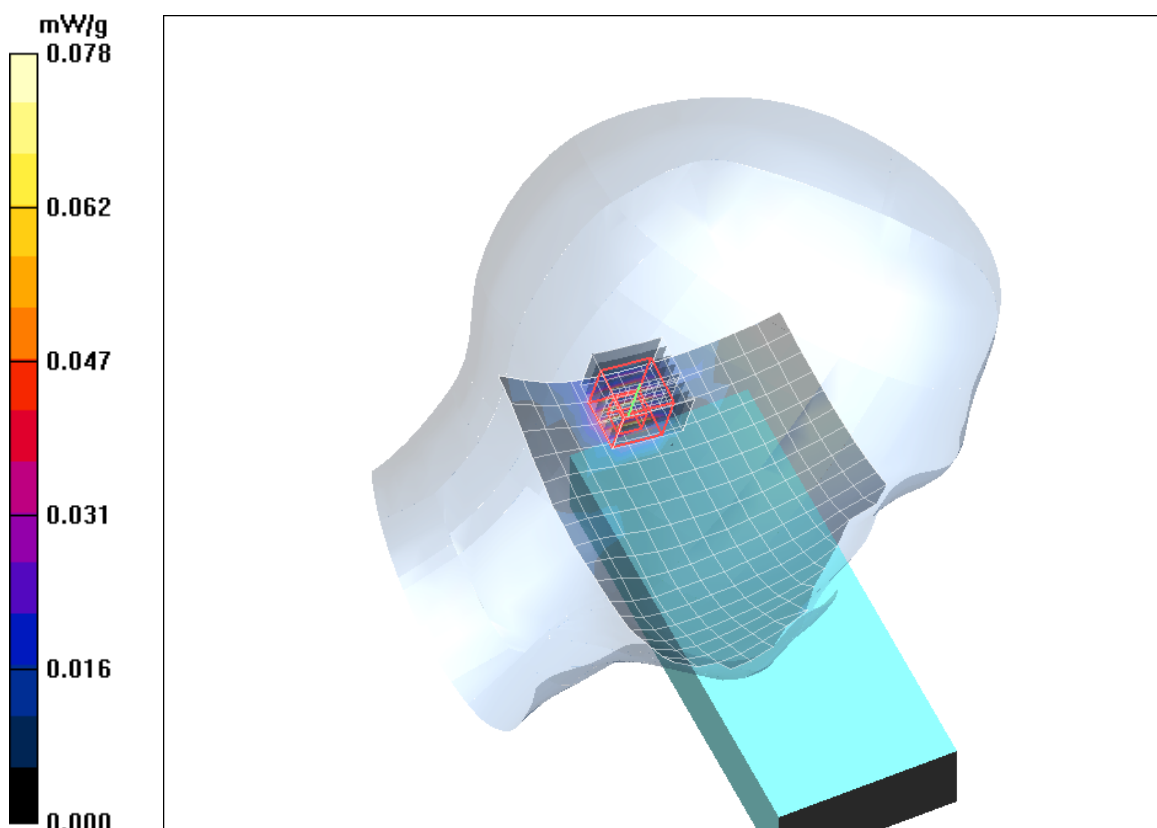


Fig. 9: SAR distribution for IEEE 802.11 a, channel 52, cheek position, left side of head (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [X3 bwlm 2 CH52 a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

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

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.56$  mho/m;  $\epsilon_r = 34.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.9, 4.9, 4.9); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**tilted Left/Area Scan (13x22x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.105 mW/g

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

Reference Value = 2.82 V/m; Power Drift = 0.140 dB

Peak SAR (extrapolated) = 0.291 W/kg

**SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.036 mW/g**

Maximum value of SAR (measured) = 0.113 mW/g

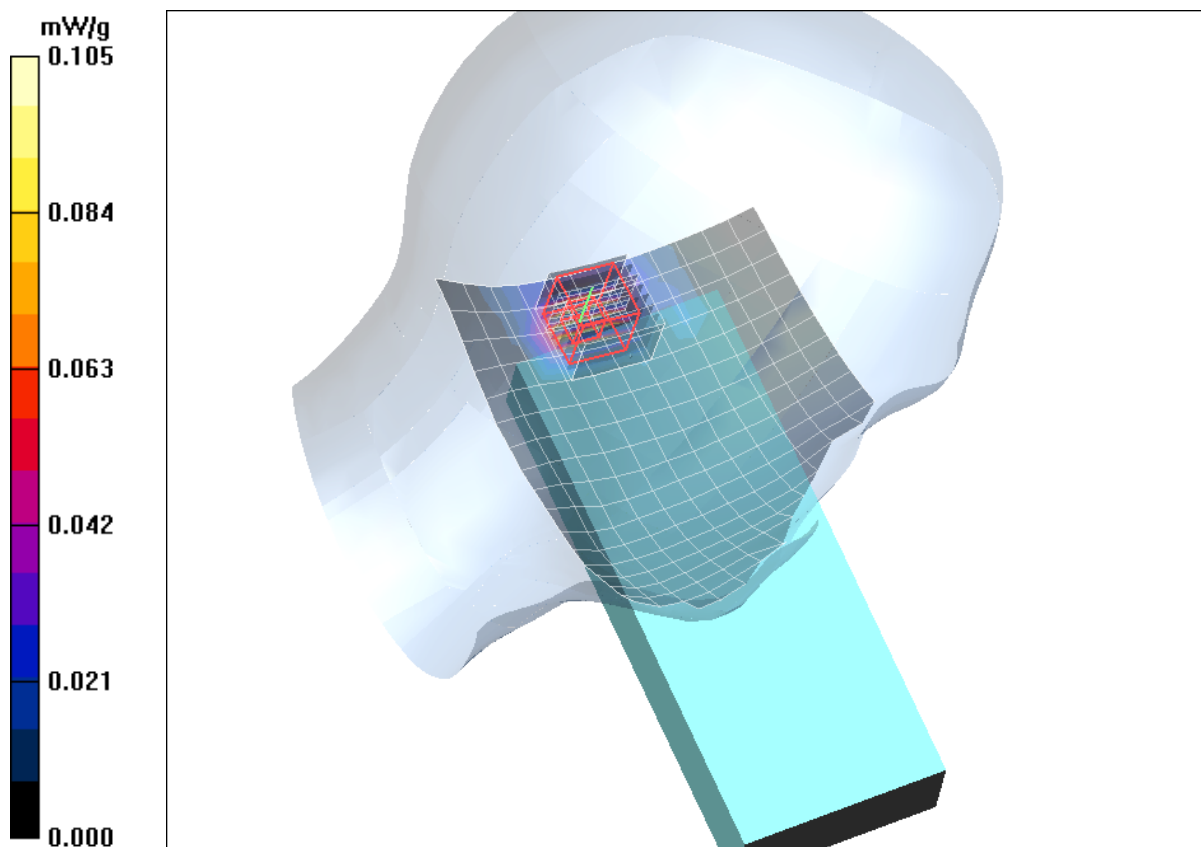


Fig. 10: SAR distribution for IEEE 802.11 a, channel 52, tilted position, left side of head (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).

**Test Laboratory:** IMST GmbH, DASY Blue (I); **File Name:** [X3\\_bwrm\\_1\\_CH52\\_a.da4](#)  
**DUT:** Datalogic; **Type:** SKORPIO X3; **Serial:** A12P00054  
**Program Name:** IEEE 802.11 a

Communication System: 5 GHz ; Frequency: 5260 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.56$  mho/m;  $\epsilon_r = 34.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Right Section

**DASY4 Configuration:**

- Probe: EX3DV4 - SN3536; ConvF(4.9, 4.9, 4.9); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Right/Area Scan (13x22x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.048 mW/g

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

Reference Value = 2.39 V/m; Power Drift = 0.043 dB

Peak SAR (extrapolated) = 0.570 W/kg

**SAR(1 g) = 0.083 mW/g; SAR(10 g) = 0.026 mW/g**

Maximum value of SAR (measured) = 0.049 mW/g

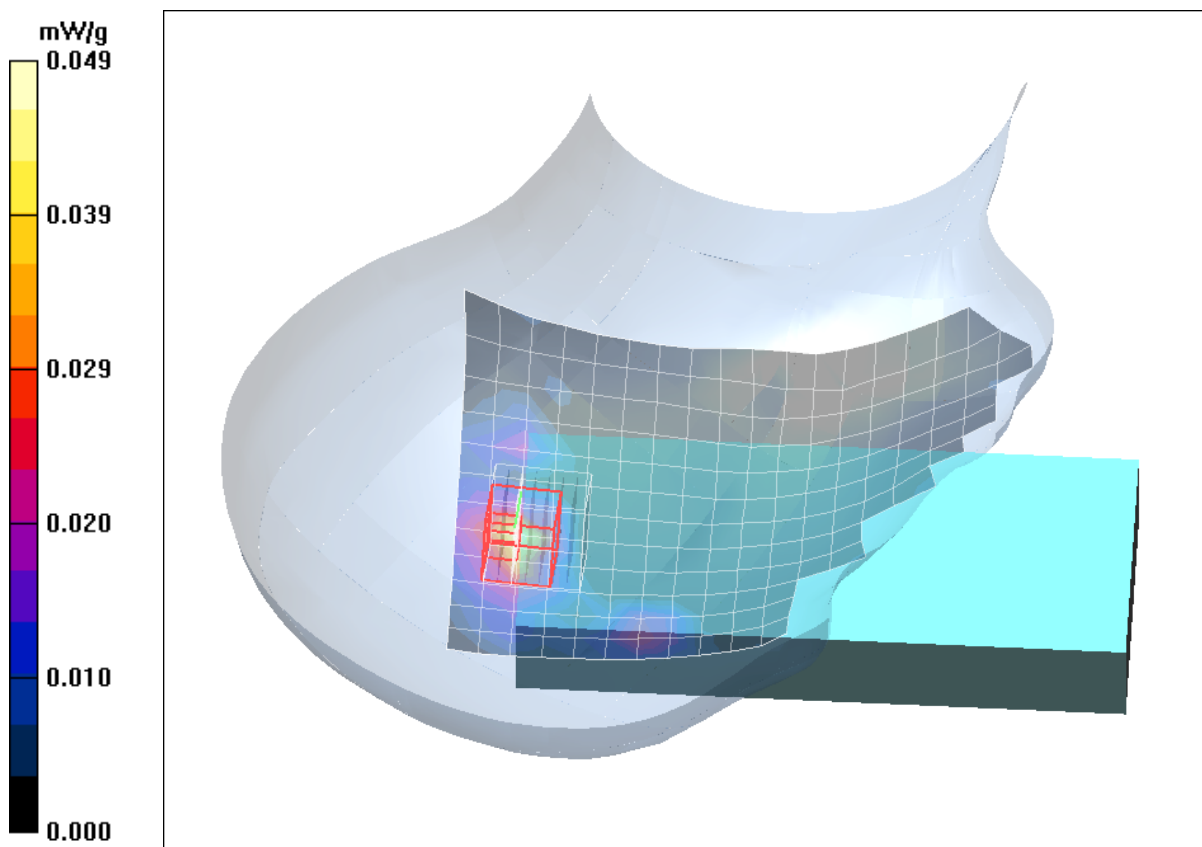


Fig. 11: SAR distribution for IEEE 802.11 a, channel 52, cheek position, right side of head (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [X3 bwrn 2 CH52 a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

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

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.56$  mho/m;  $\epsilon_r = 34.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.9, 4.9, 4.9); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilted Right/Area Scan (13x22x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.071 mW/g

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

Reference Value = 2.36 V/m; Power Drift = 0.118 dB

Peak SAR (extrapolated) = 0.685 W/kg

**SAR(1 g) = 0.103 mW/g; SAR(10 g) = 0.036 mW/g**

Maximum value of SAR (measured) = 0.070 mW/g

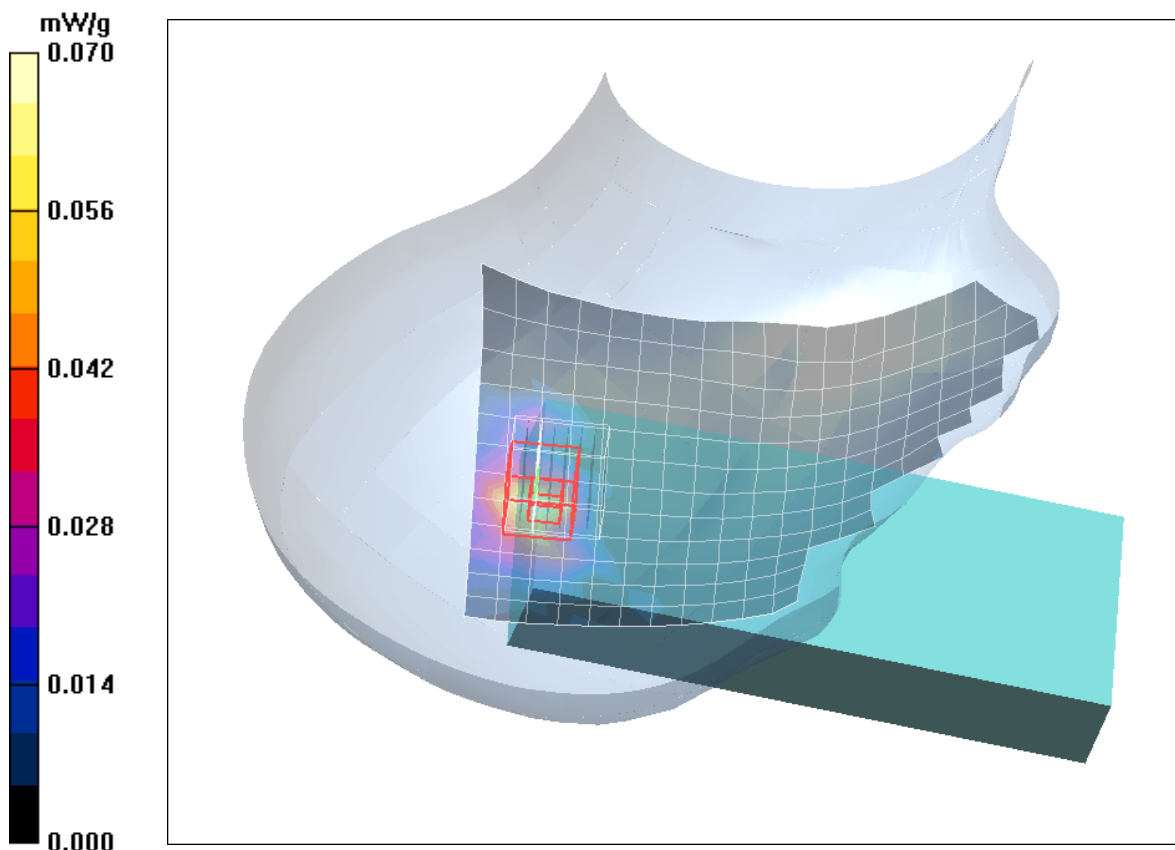


Fig. 12: SAR distribution for IEEE 802.11 a, channel 52, tilted position, right side of head (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).



### 3 SAR Distribution Plots, IEEE 802.11 a Head (5500 MHz Range)

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [X3\\_bwlm\\_1\\_CH100\\_a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

Communication System: 5 GHz ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.82$  mho/m;  $\epsilon_r = 34.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.61, 4.61, 4.61); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Left/Area Scan (13x22x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.137 mW/g

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

Reference Value = 2.42 V/m; Power Drift = 0.182 dB

Peak SAR (extrapolated) = 0.385 W/kg

**SAR(1 g) = 0.127 mW/g; SAR(10 g) = 0.045 mW/g**

Maximum value of SAR (measured) = 0.139 mW/g

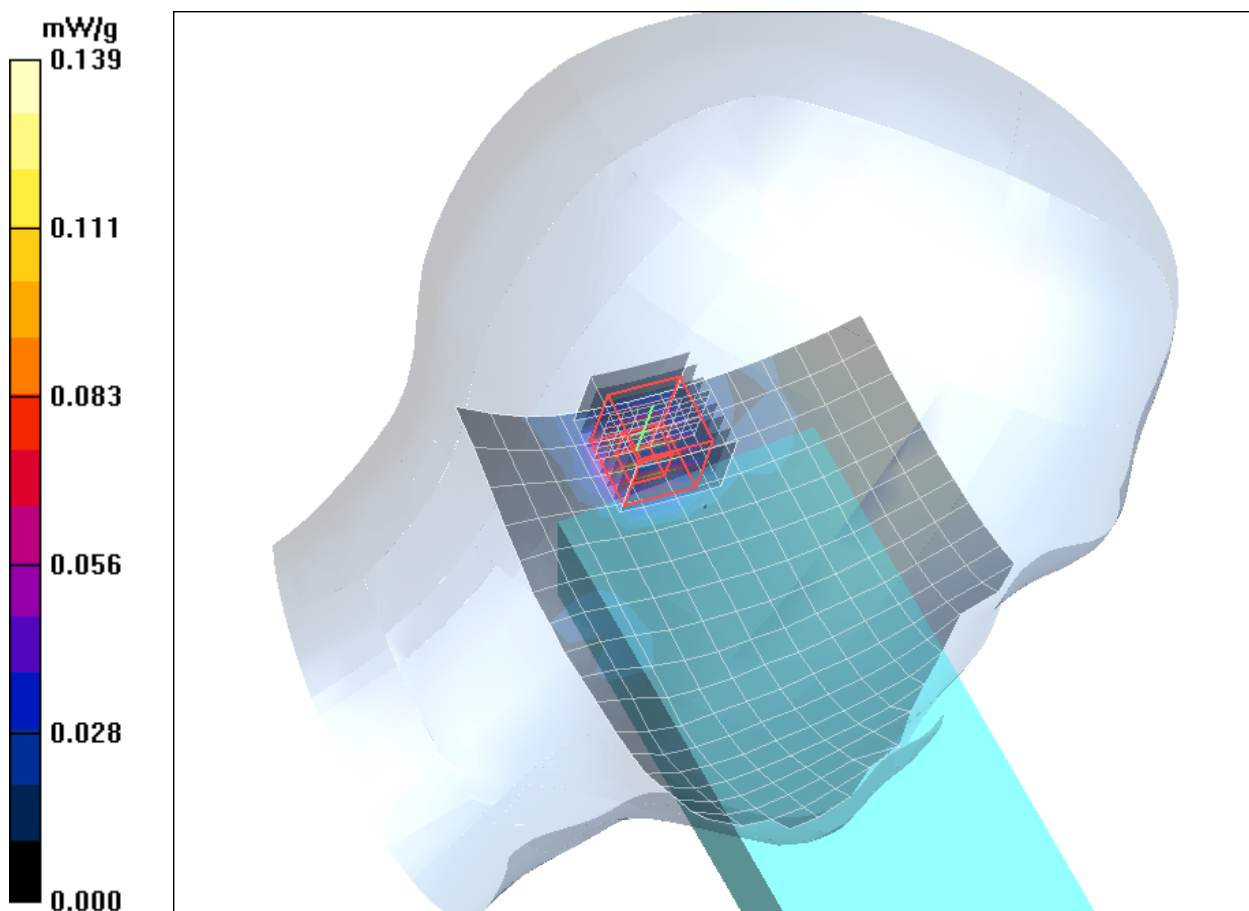


Fig. 13: SAR distribution for IEEE 802.11 a, channel 100, cheek position, left side of head (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).



Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [X3 bwlm 2 CH100 a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

Communication System: 5 GHz ; Frequency: 5500 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.82$  mho/m;  $\epsilon_r = 34.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.61, 4.61, 4.61); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilted Left/Area Scan (12x23x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.188 mW/g

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

Reference Value = 2.80 V/m; Power Drift = -0.112 dB

Peak SAR (extrapolated) = 0.543 W/kg

**SAR(1 g) = 0.185 mW/g; SAR(10 g) = 0.066 mW/g**

Maximum value of SAR (measured) = 0.203 mW/g

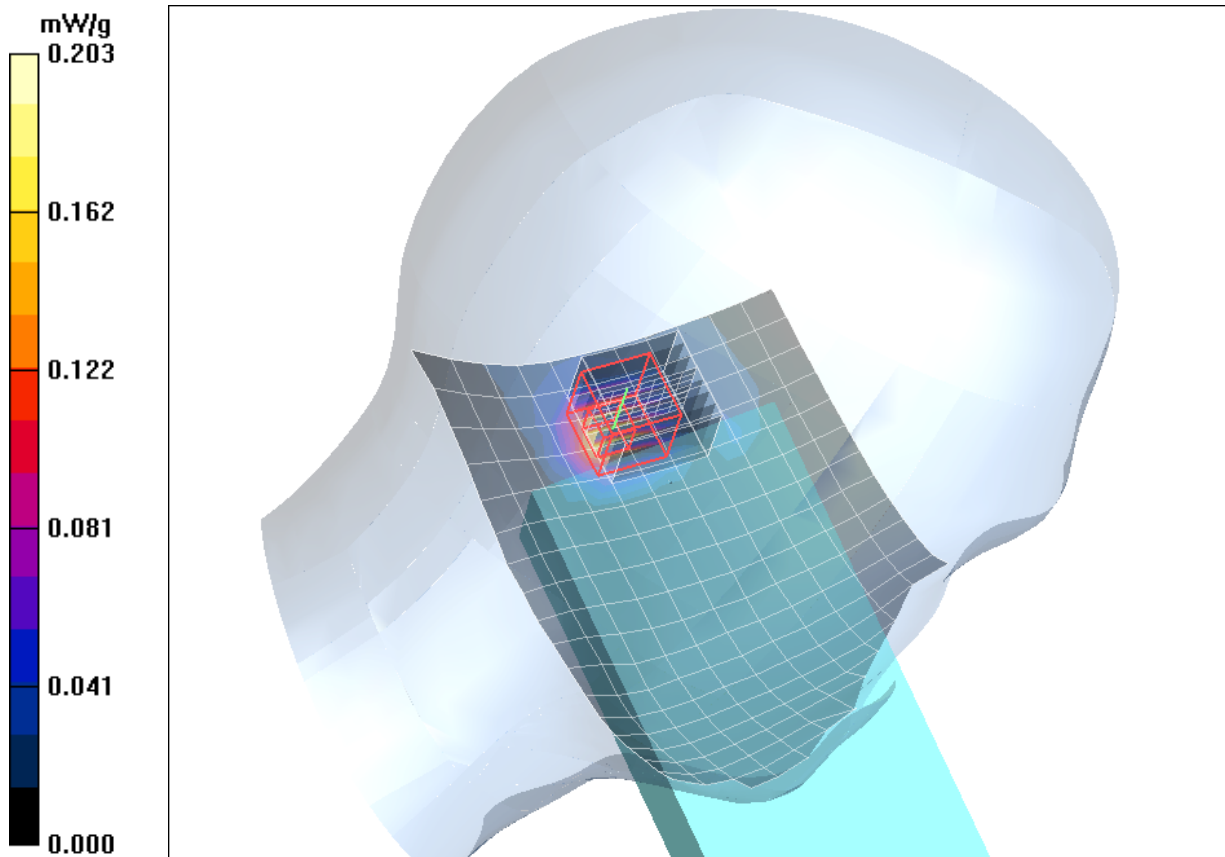


Fig. 14: SAR distribution for IEEE 802.11 a, channel 100, tilted position, left side of head (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [X3 bwrn 1 CH100 a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

Communication System: 5 GHz ; Frequency: 5500 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.82$  mho/m;  $\epsilon_r = 34.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.61, 4.61, 4.61); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Right/Area Scan (12x24x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.075 mW/g

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

Reference Value = 1.69 V/m; Power Drift = 0.127 dB

Peak SAR (extrapolated) = 0.580 W/kg

**SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.033 mW/g**

Maximum value of SAR (measured) = 0.076 mW/g

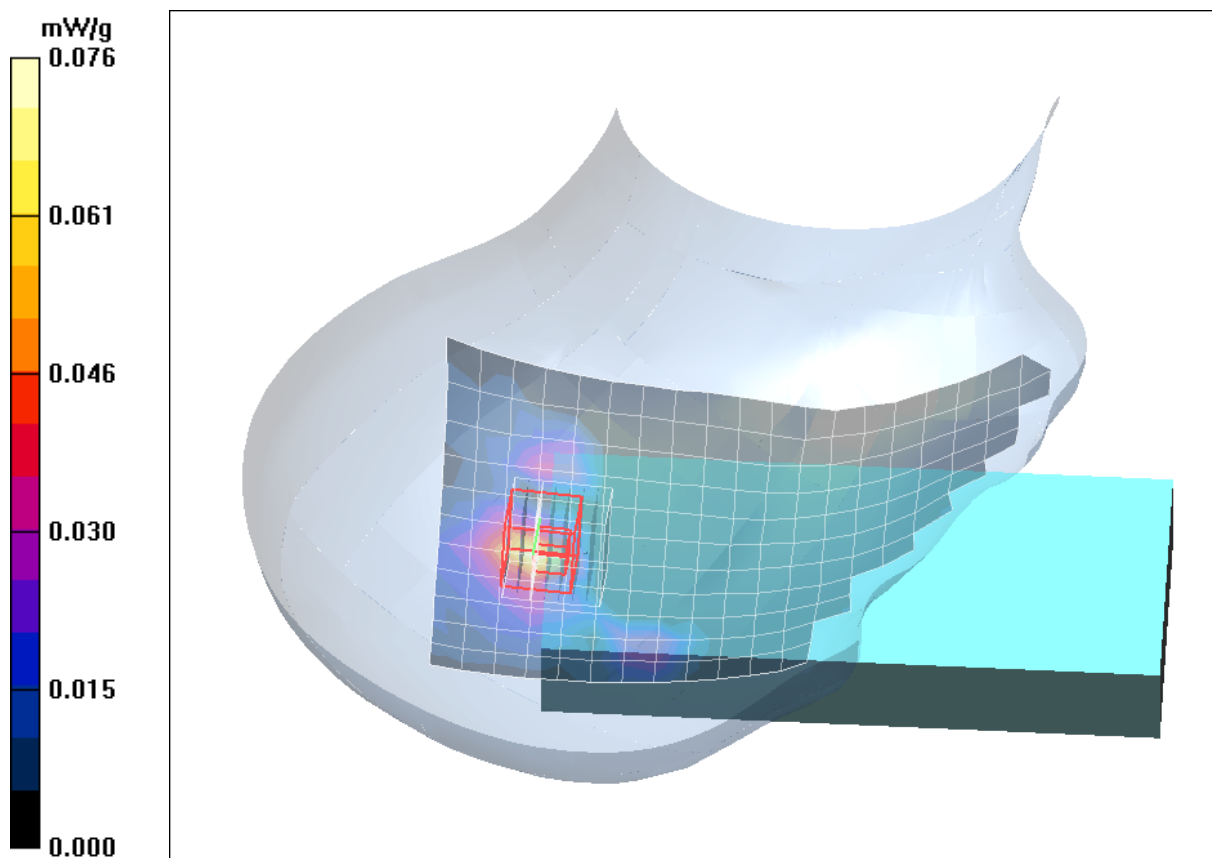


Fig. 15: SAR distribution for IEEE 802.11 a, channel 100, cheek position, right side of head (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [X3\\_bwrn\\_2\\_CH100\\_a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

Communication System: 5 GHz ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.82$  mho/m;  $\epsilon_r = 34.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.61, 4.61, 4.61); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilted Right/Area Scan (12x24x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.100 mW/g

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

Reference Value = 2.36 V/m; Power Drift = 0.109 dB

Peak SAR (extrapolated) = 0.510 W/kg

**SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.034 mW/g**

Maximum value of SAR (measured) = 0.099 mW/g

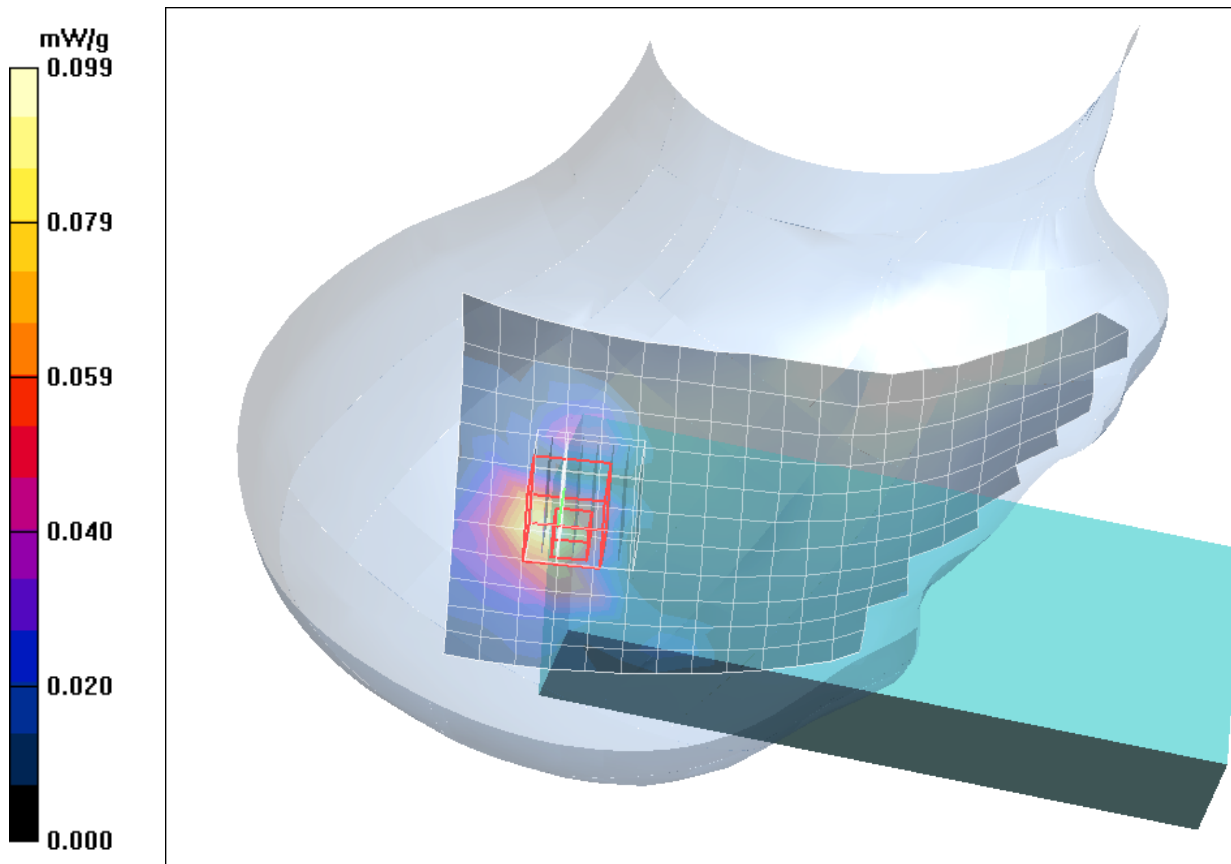


Fig. 16: SAR distribution for IEEE 802.11 a, channel 100, tilted position, right side of head (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).

## 4 SAR Distribution Plots, IEEE 802.11 a Head (5800 MHz Range)

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [X3\\_bwlm\\_1\\_CH149\\_a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

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

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.39$  mho/m;  $\epsilon_r = 34$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.53, 4.53, 4.53); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Left/Area Scan (12x23x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.134 mW/g

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

Reference Value = 2.16 V/m; Power Drift = -0.120 dB

Peak SAR (extrapolated) = 0.418 W/kg

**SAR(1 g) = 0.136 mW/g; SAR(10 g) = 0.047 mW/g**

Maximum value of SAR (measured) = 0.151 mW/g

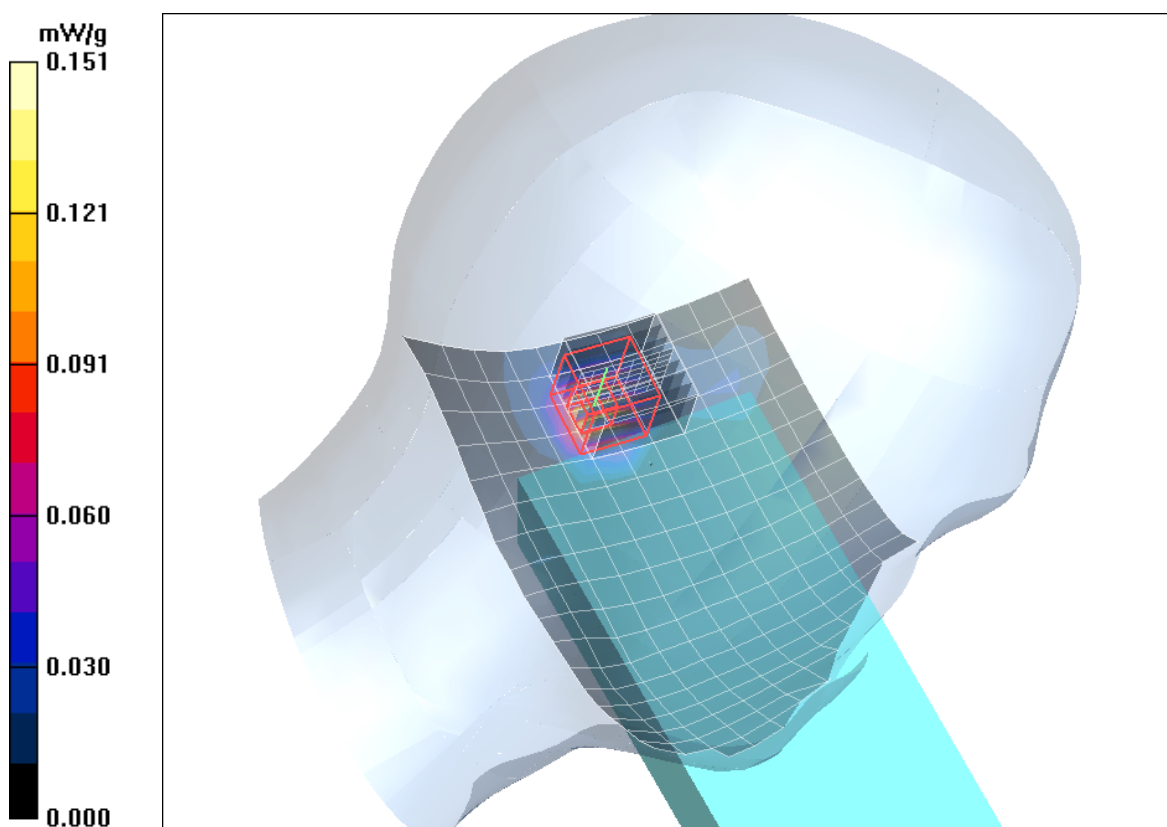


Fig. 17: SAR distribution for IEEE 802.11 a, channel 149, cheek position, left side of head (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [X3 bwlm 2 CH149 a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

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

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.39 \text{ mho/m}$ ;  $\epsilon_r = 34$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.53, 4.53, 4.53); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilted Left/Area Scan (12x23x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.199 mW/g

**Tilted Left/Zoom Scan (8x8x8)/Cube 0:** Measurement grid:  $dx=4.3\text{mm}$ ,  $dy=4.3\text{mm}$ ,  $dz=3\text{mm}$

Reference Value = 2.21 V/m; Power Drift = 0.130 dB

Peak SAR (extrapolated) = 0.574 W/kg

**SAR(1 g) = 0.193 mW/g; SAR(10 g) = 0.070 mW/g**

Maximum value of SAR (measured) = 0.214 mW/g

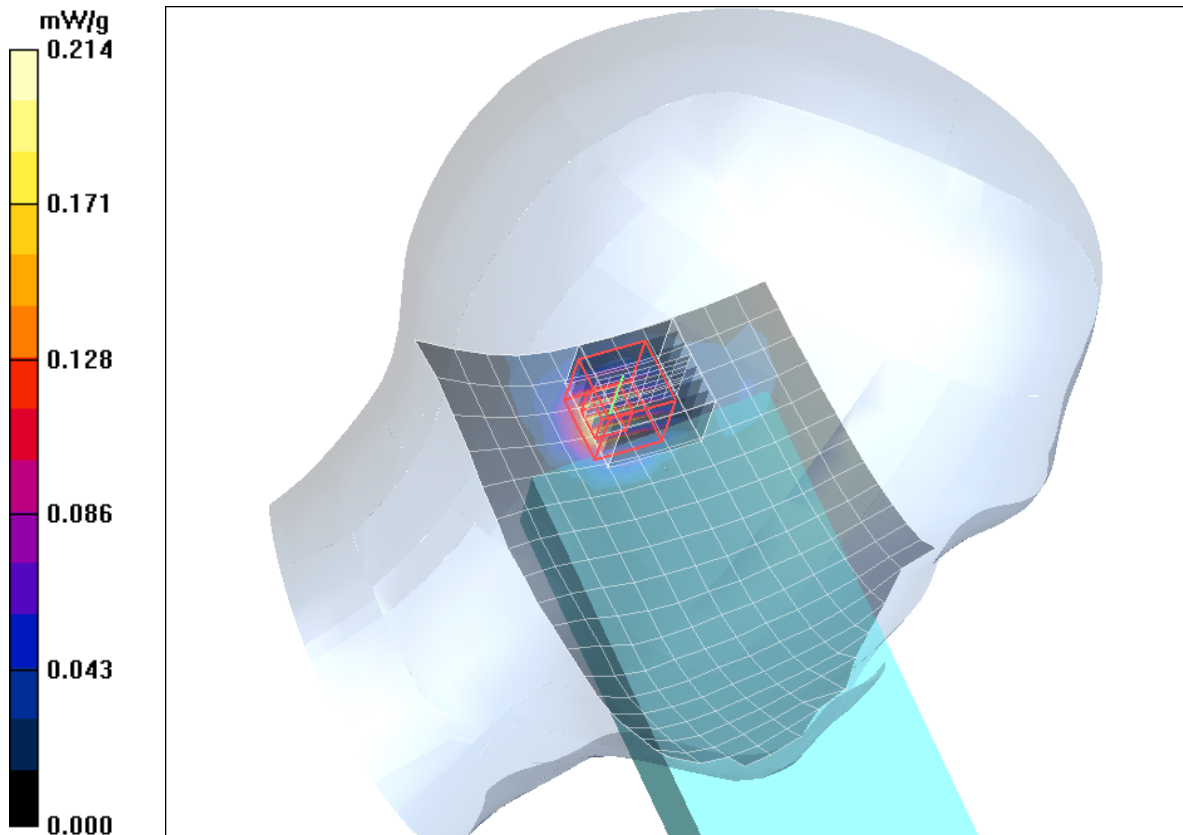


Fig. 18: SAR distribution for IEEE 802.11 a, channel 149, tilted position, left side of head (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [X3 bwrn 1 CH149 a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

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

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.39$  mho/m;  $\epsilon_r = 34$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.53, 4.53, 4.53); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Cheek Right/Area Scan (12x24x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.075 mW/g

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

Reference Value = 1.37 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.404 W/kg

**SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.026 mW/g**

Maximum value of SAR (measured) = 0.078 mW/g

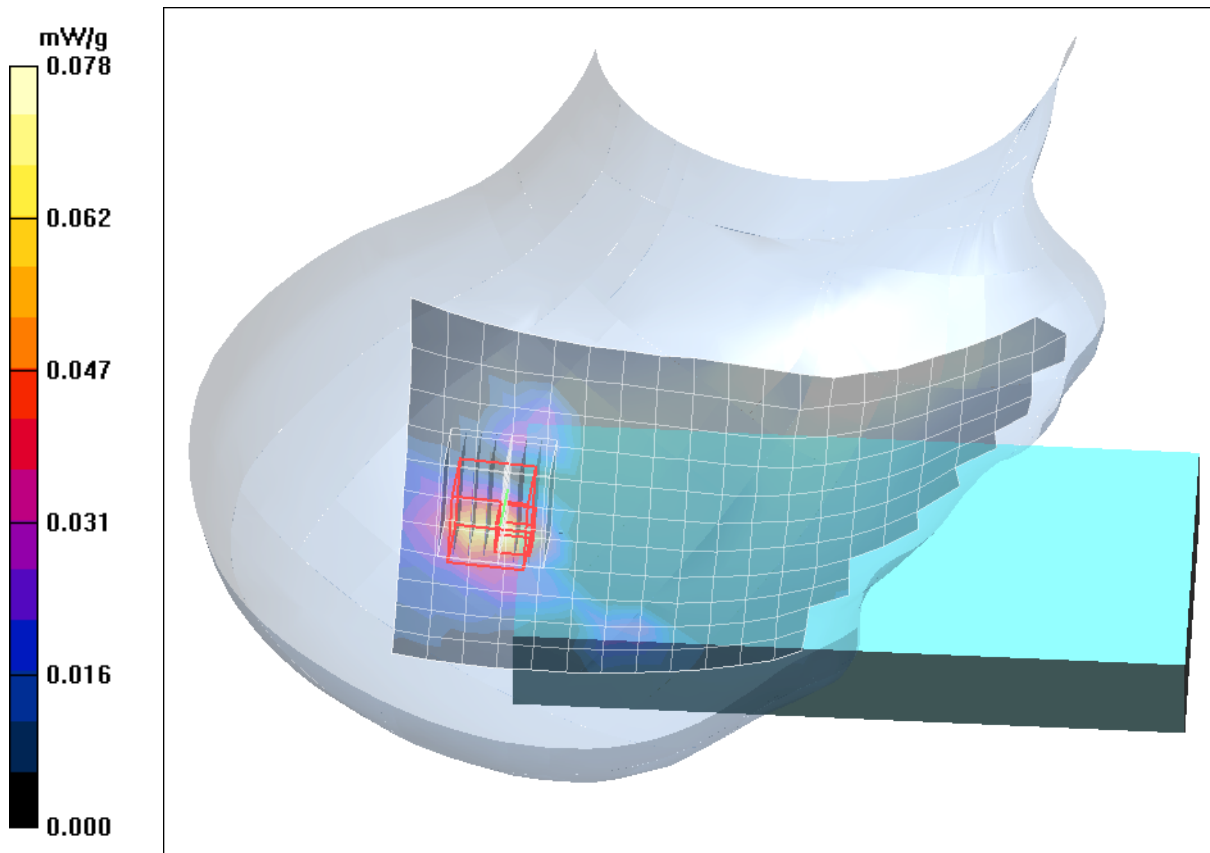


Fig. 19: SAR distribution for IEEE 802.11 a, channel 149, cheek position, right side of head (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).



Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [X3\\_bwrn\\_2\\_CH149\\_a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

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

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.39$  mho/m;  $\epsilon_r = 34$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.53, 4.53, 4.53); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilted Right/Area Scan (12x24x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.109 mW/g

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

Reference Value = 1.94 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 0.720 W/kg

**SAR(1 g) = 0.109 mW/g; SAR(10 g) = 0.038 mW/g**

Maximum value of SAR (measured) = 0.108 mW/g

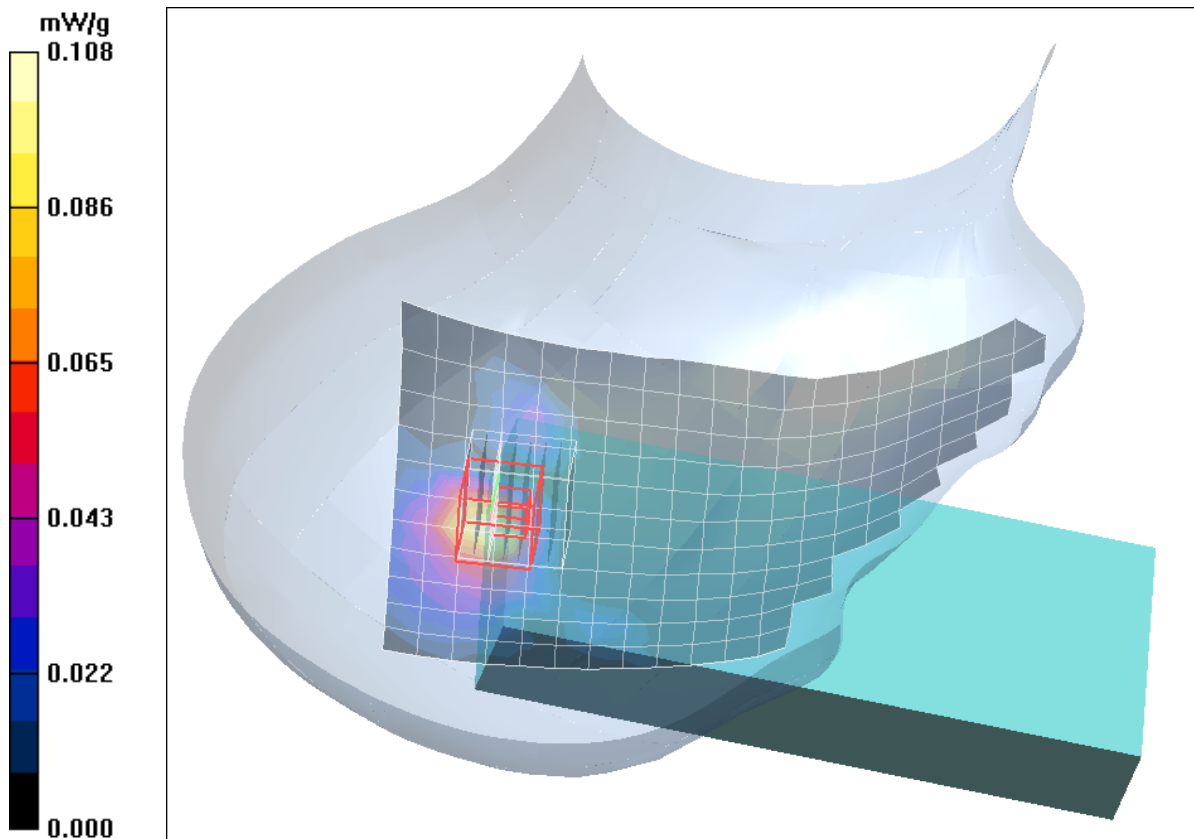


Fig. 20: SAR distribution for IEEE 802.11 a, channel 149, tilted position, right side of head (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).



Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [X3 bwlm 2 CH149 a sdt bat.da4](#)

DUT: Datalogic; Type: Scorpio X3; Serial: A12P00054

Program Name: IEEE 802.11 a

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

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.39$  mho/m;  $\epsilon_r = 34$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.53, 4.53, 4.53); Calibrated: 26.09.2011
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Tilted Left/Area Scan (12x23x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.365 mW/g

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

Reference Value = 8.72 V/m; Power Drift = -0.174 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.204 mW/g; SAR(10 g) = 0.077 mW/g**

Maximum value of SAR (measured) = 0.371 mW/g

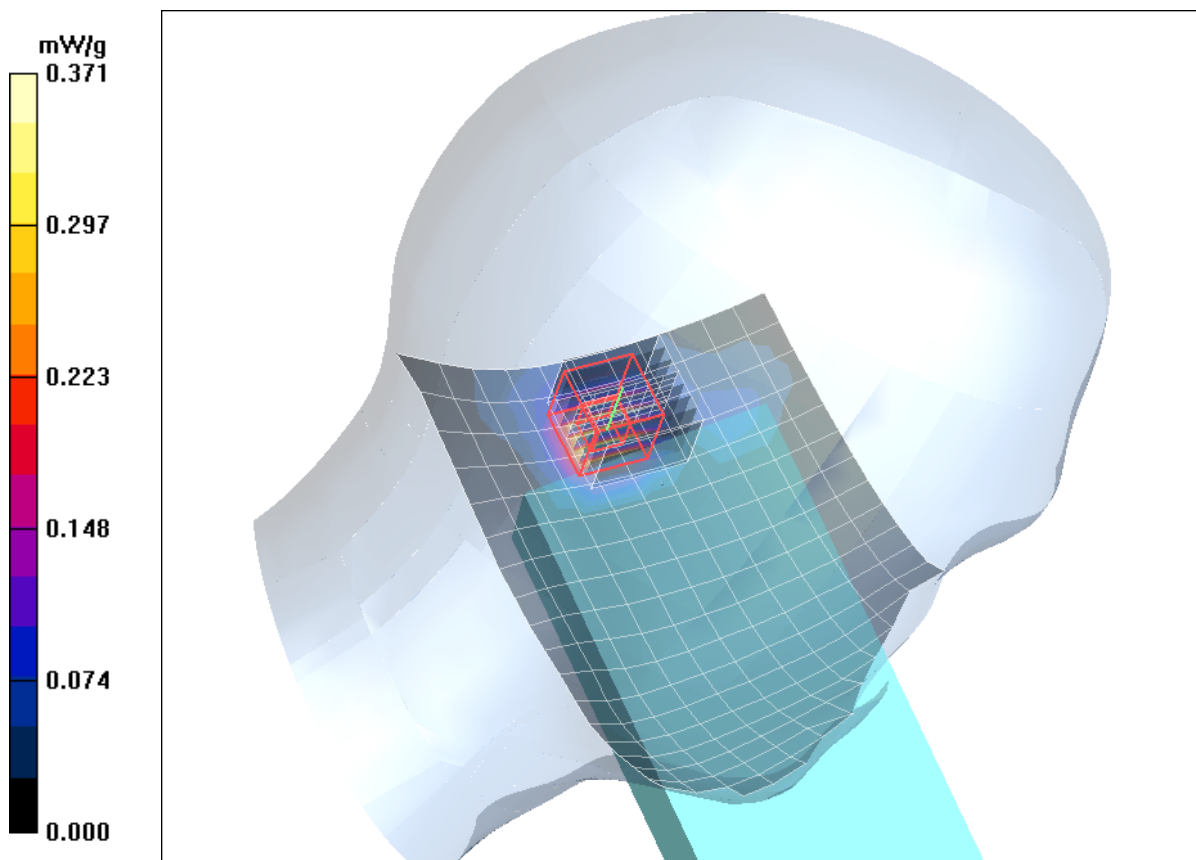


Fig. 21: SAR distribution for IEEE 802.11 a, channel 149, cheek position, left side of head, standard battery (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).

## 5 SAR Distribution Plots, IEEE 802.11 b/g Body

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [X3\\_ywhm\\_1\\_ch6\\_dspl\\_up\\_0mm\\_b.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 b

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

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 54.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.42, 7.42, 7.42); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- 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 (8x16x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.094 mW/g

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

Reference Value = 2.29 V/m; Power Drift = 0.074 dB

Peak SAR (extrapolated) = 0.223 W/kg

**SAR(1 g) = 0.109 mW/g; SAR(10 g) = 0.053 mW/g**

Maximum value of SAR (measured) = 0.122 mW/g

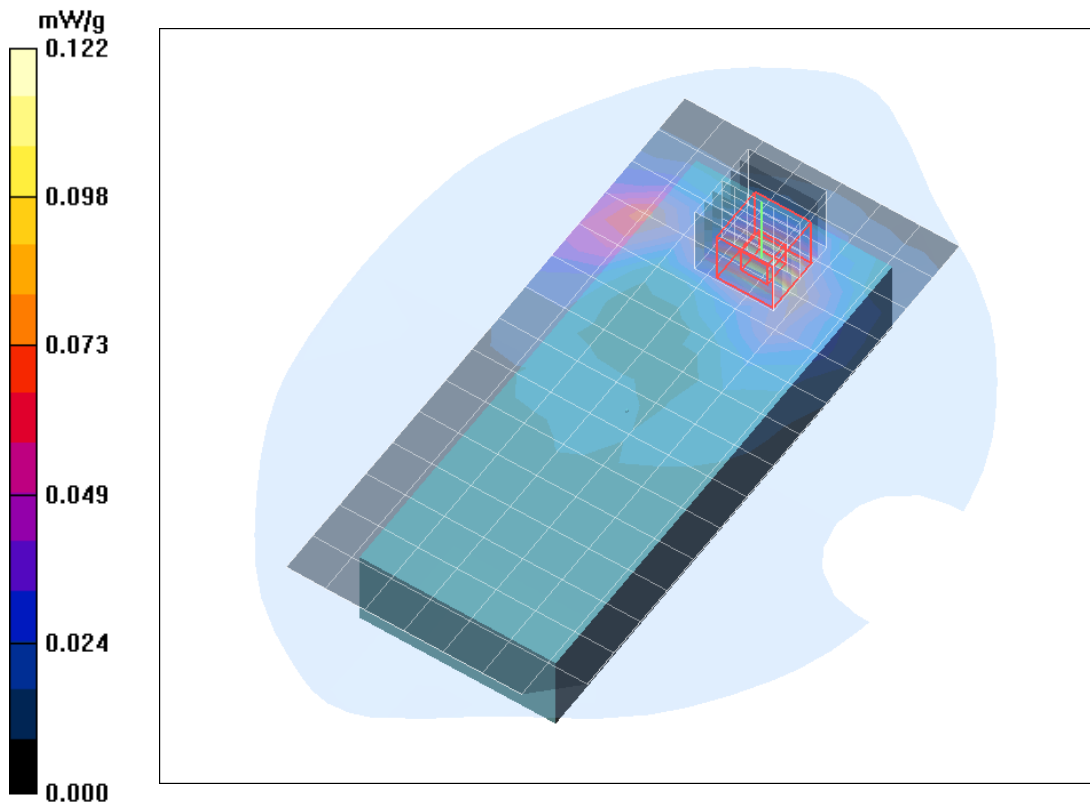


Fig. 22: SAR distribution for IEEE 802.11 b, channel 6, body worn configuration, position 1 (May 15, 2012; Ambient Temperature: 22.7° C; Liquid Temperature: 22.3° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name:

[X3\\_ywhm\\_2\\_ch6\\_dspl\\_down\\_0mm\\_b.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 b

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

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 54.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.42, 7.42, 7.42); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (9x16x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.294 mW/g

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

Reference Value = 3.19 V/m; Power Drift = 0.195 dB

Peak SAR (extrapolated) = 0.703 W/kg

**SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.157 mW/g**

Maximum value of SAR (measured) = 0.388 mW/g

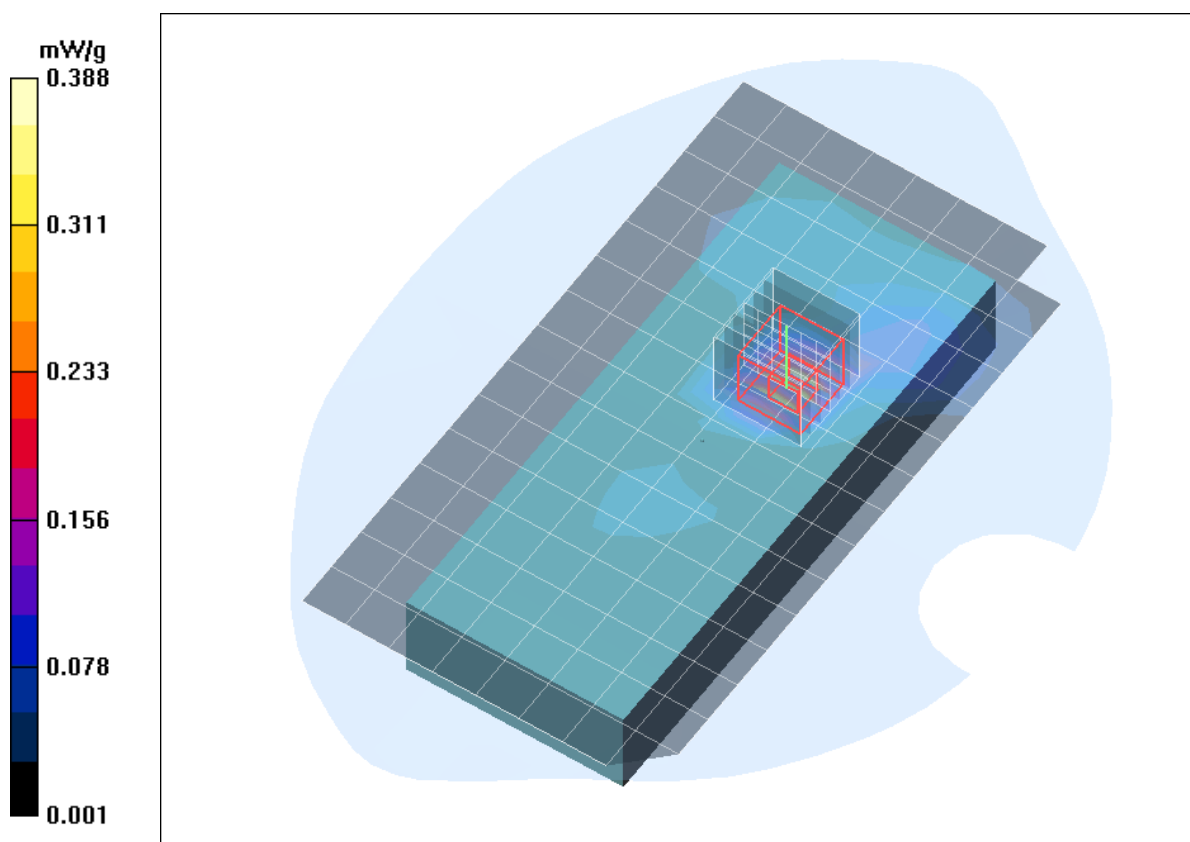


Fig. 23: SAR distribution for IEEE 802.11 b, channel 6, body worn configuration, position 2 (May 15, 2012; Ambient Temperature: 22.7° C; Liquid Temperature: 22.3° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name:

[X3\\_ywhm\\_2\\_ch1\\_dspl\\_down\\_0mm\\_b.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 b

Communication System: WLAN 2450; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.91$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.42, 7.42, 7.42); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (9x16x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.247 mW/g

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

Reference Value = 2.97 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.572 W/kg

**SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.132 mW/g**

Maximum value of SAR (measured) = 0.321 mW/g

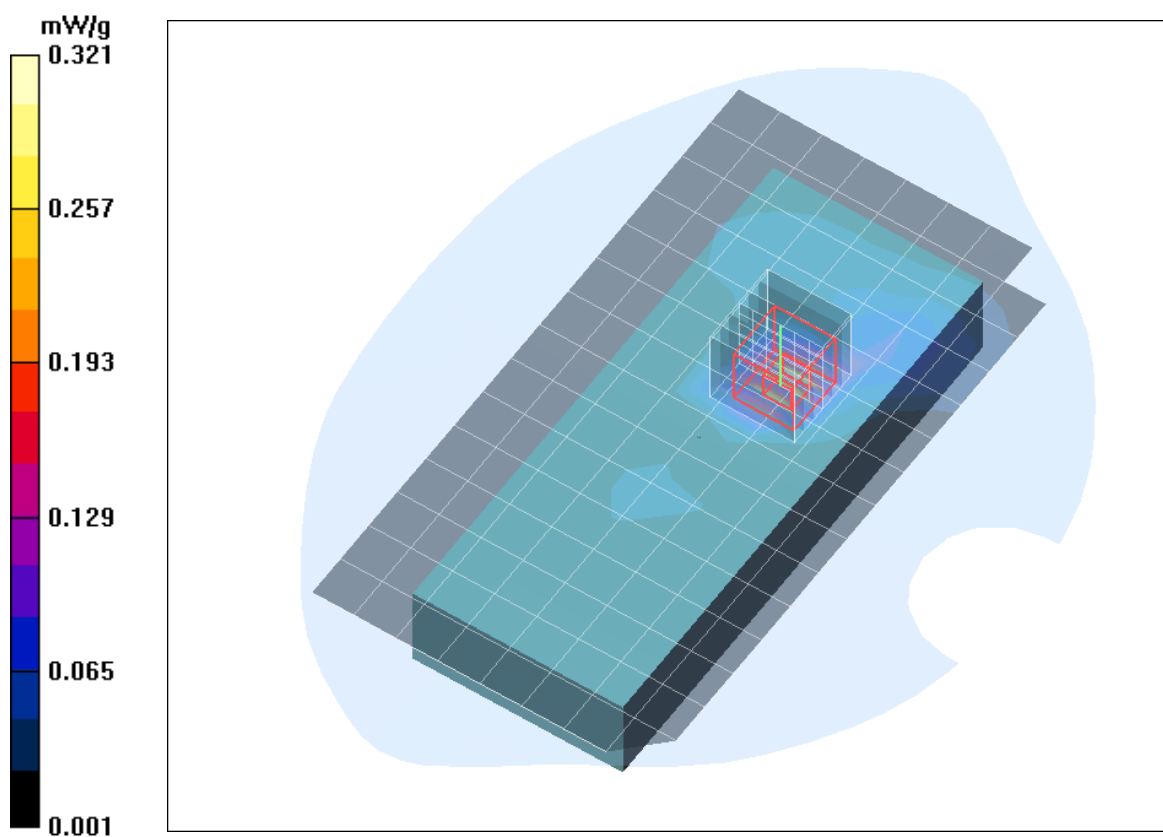


Fig. 24: SAR distribution for IEEE 802.11 b, channel 1, body worn configuration, position 2 (May 15, 2012; Ambient Temperature: 22.7° C; Liquid Temperature: 22.3° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name:

[X3\\_ywhm\\_2\\_ch11\\_dspl\\_down\\_0mm\\_b.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 b

Communication System: WLAN 2450; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.42, 7.42, 7.42); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (9x16x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.226 mW/g

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

Reference Value = 2.86 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 0.549 W/kg

**SAR(1 g) = 0.267 mW/g; SAR(10 g) = 0.122 mW/g**

Maximum value of SAR (measured) = 0.296 mW/g

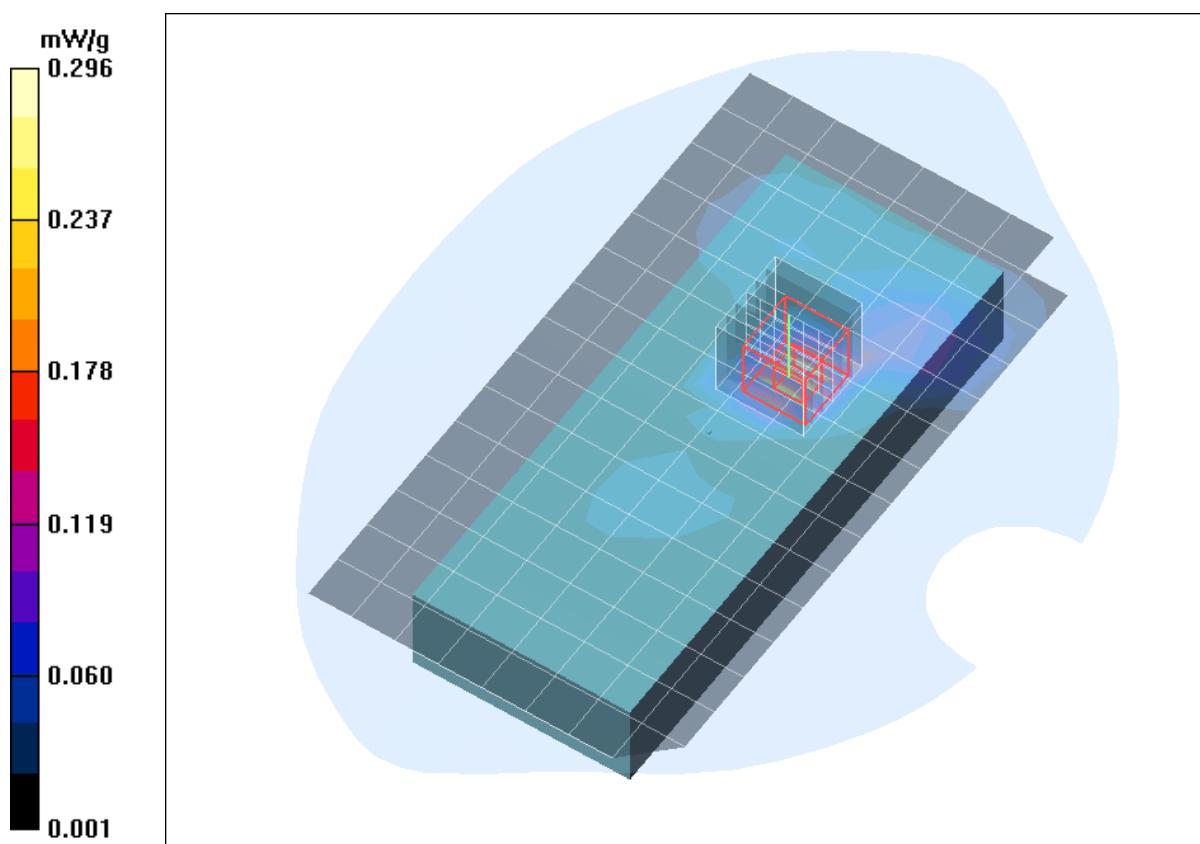


Fig. 25: SAR distribution for IEEE 802.11 b, channel 11, body worn configuration, position 2 (May 15, 2012; Ambient Temperature: 22.7° C; Liquid Temperature: 22.3° C).

**Test Laboratory:** Imst GmbH, DASY Yellow (II); **File Name:**

[X3\\_ywhm\\_2\\_ch6\\_dspl\\_down\\_0mm\\_b\\_std\\_bat.da4](#)

**DUT:** Datalogic; **Type:** Scorpio X3; **Serial:** A12P00054

**Program Name:** IEEE 802.11 b

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

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 54.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.42, 7.42, 7.42); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (9x16x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.304 mW/g

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

Reference Value = 4.31 V/m; Power Drift = -0.137 dB

Peak SAR (extrapolated) = 0.716 W/kg

**SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.157 mW/g**

Maximum value of SAR (measured) = 0.397 mW/g

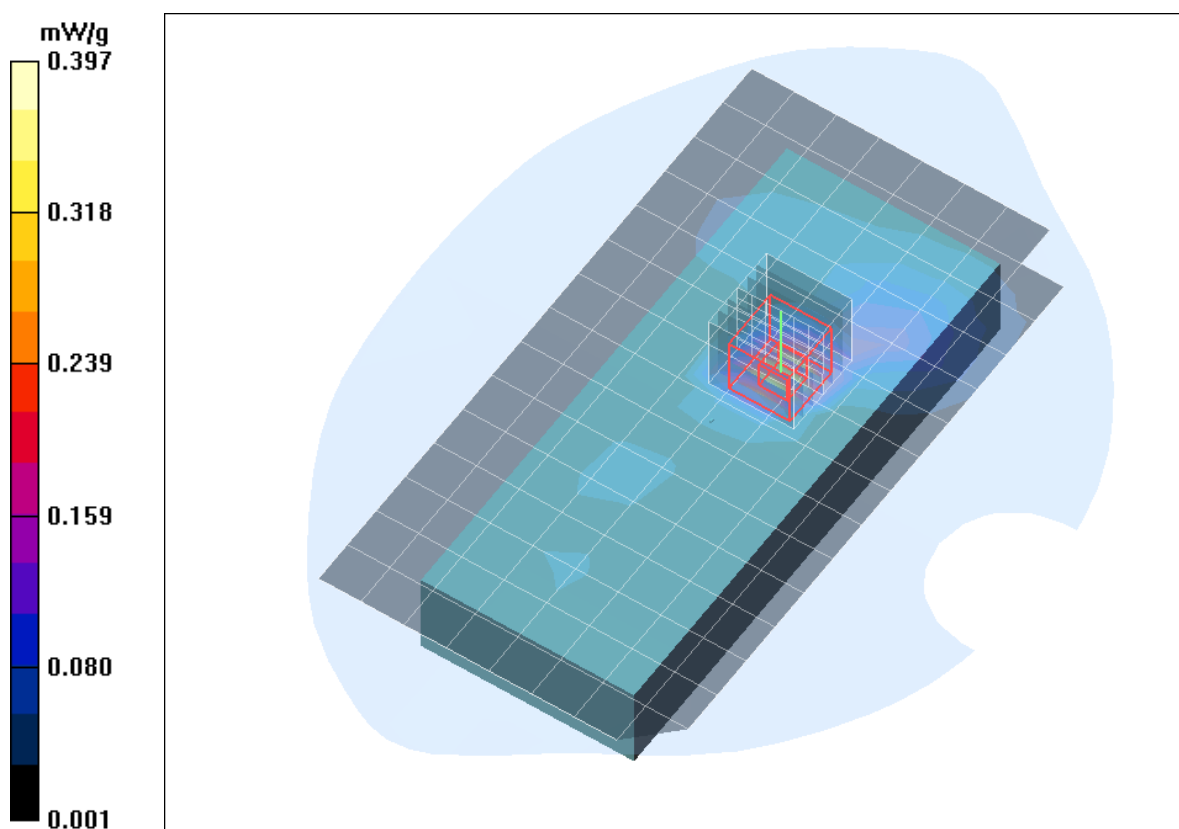


Fig. 26: SAR distribution for IEEE 802.11 b, channel 6, body worn configuration, position 2, standard battery (May 15, 2012; Ambient Temperature: 22.7° C; Liquid Temperature: 22.3° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name:

[X3\\_ywhm\\_2\\_ch6\\_dspl\\_down\\_0mm\\_b\\_std\\_bat\\_clip.da4](#)

DUT: Datalogic; Type: Scorpio X3; Serial: A12P00054

Program Name: IEEE 802.11 b

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

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 54.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.42, 7.42, 7.42); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (9x16x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.346 mW/g

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

Reference Value = 5.35 V/m; Power Drift = 0.089 dB

Peak SAR (extrapolated) = 0.685 W/kg

**SAR(1 g) = 0.367 mW/g; SAR(10 g) = 0.165 mW/g**

Maximum value of SAR (measured) = 0.425 mW/g

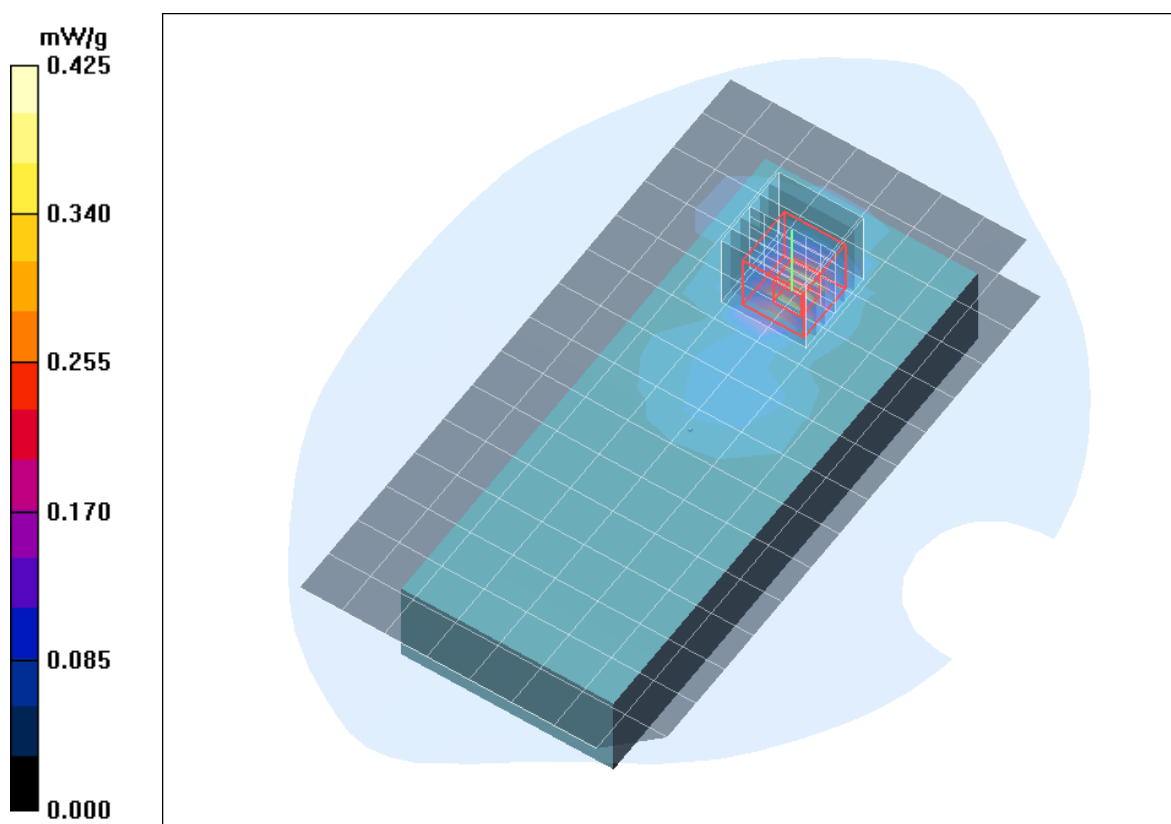


Fig. 27: SAR distribution for IEEE 802.11 b, channel 6, body worn configuration, position 2 with belt clip and standard battery (May 15, 2012; Ambient Temperature: 22.7° C; Liquid Temperature: 22.3° C).



Test Laboratory: Imst GmbH, DASY Yellow (II); File Name:

[X3\\_ywhm\\_2\\_ch6\\_dspl\\_down\\_0mm\\_g.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 g

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

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 54.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.42, 7.42, 7.42); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (9x16x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.208 mW/g

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

Reference Value = 2.76 V/m; Power Drift = -0.142 dB

Peak SAR (extrapolated) = 0.513 W/kg

**SAR(1 g) = 0.247 mW/g; SAR(10 g) = 0.112 mW/g**

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

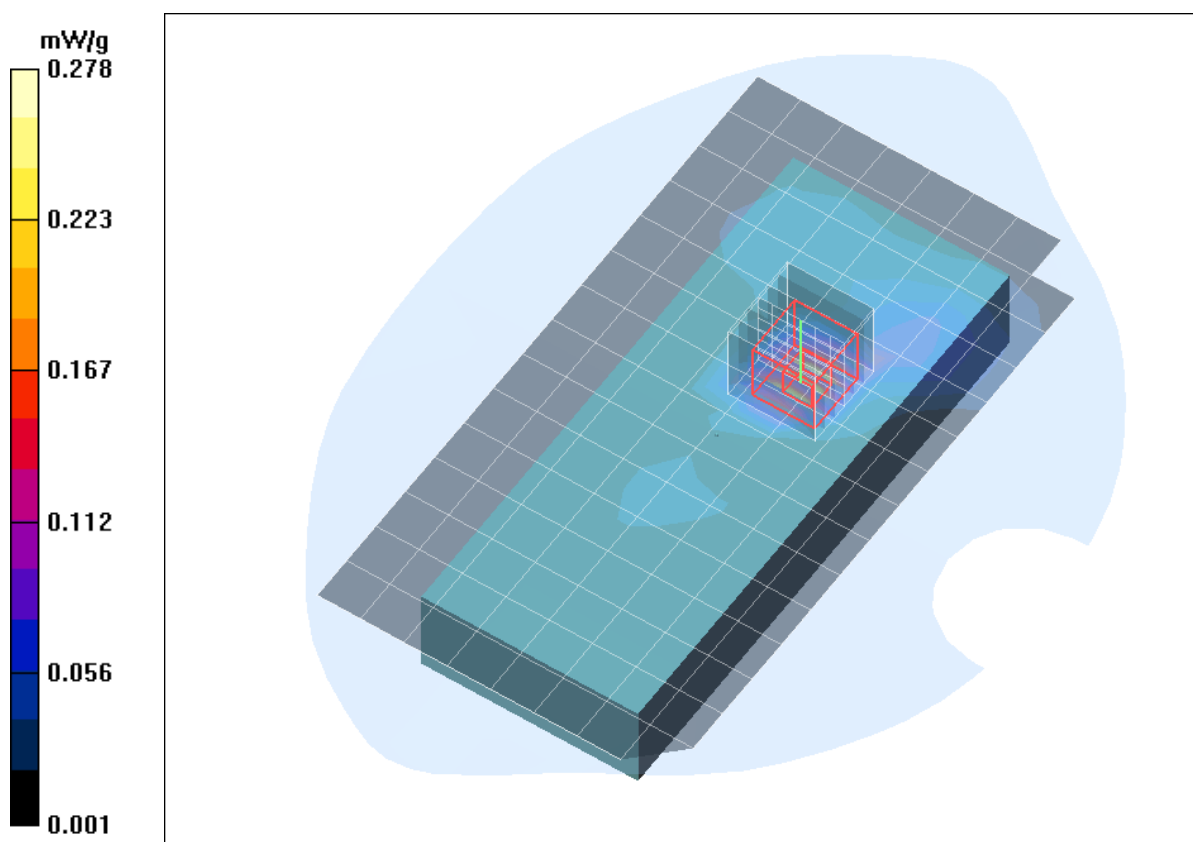


Fig. 28: SAR distribution for IEEE 802.11 g, channel 6, body worn configuration, position 2 (May 15, 2012; Ambient Temperature: 22.7° C; Liquid Temperature: 22.3° C).

## 6 SAR Distribution Plots, IEEE 802.11 a Body (5200 MHz Range)

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [X3\\_bwhm\\_1\\_ch52\\_dspl\\_up\\_0mm\\_a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

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

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.21$  mho/m;  $\epsilon_r = 49.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.18, 4.18, 4.18); Calibrated: 26.09.2011
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- 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 (13x23x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.066 mW/g

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

Reference Value = 4.16 V/m; Power Drift = 0.043 dB

Peak SAR (extrapolated) = 0.117 W/kg

**SAR(1 g) = 0.035 mW/g; SAR(10 g) = 0.011 mW/g**

Maximum value of SAR (measured) = 0.074 mW/g

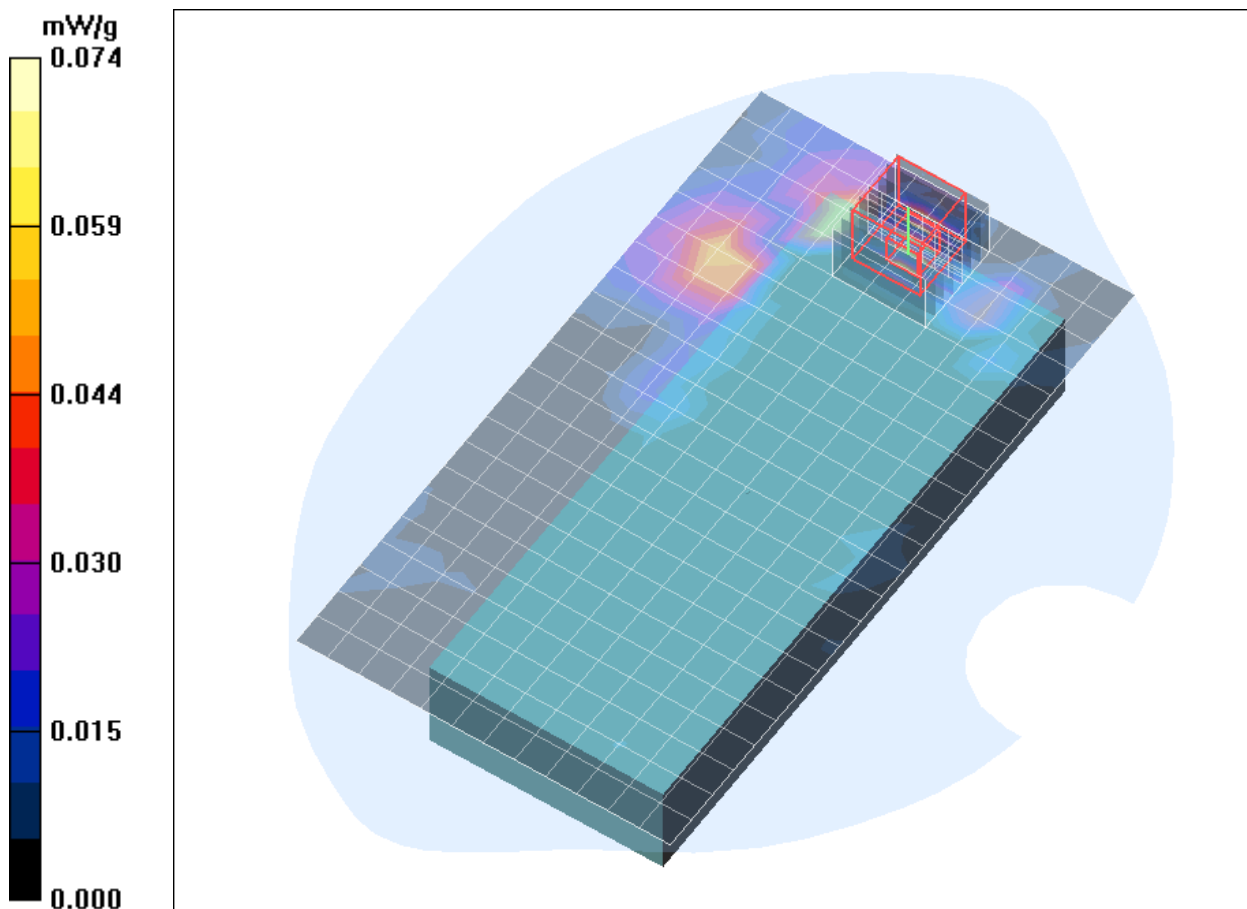


Fig. 29: SAR distribution for IEEE 802.11 a, channel 52, body worn configuration, position 1 (May 18, 2012; Ambient Temperature: 21.6° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name:

[X3\\_bwhm\\_2\\_ch52\\_dspl\\_down\\_0mm\\_a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

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

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.21$  mho/m;  $\epsilon_r = 49.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.18, 4.18, 4.18); Calibrated: 26.09.2011
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- 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 (13x23x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.251 mW/g

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

Reference Value = 7.75 V/m; Power Drift = -0.103 dB

Peak SAR (extrapolated) = 0.424 W/kg

**SAR(1 g) = 0.138 mW/g; SAR(10 g) = 0.051 mW/g**

Maximum value of SAR (measured) = 0.261 mW/g

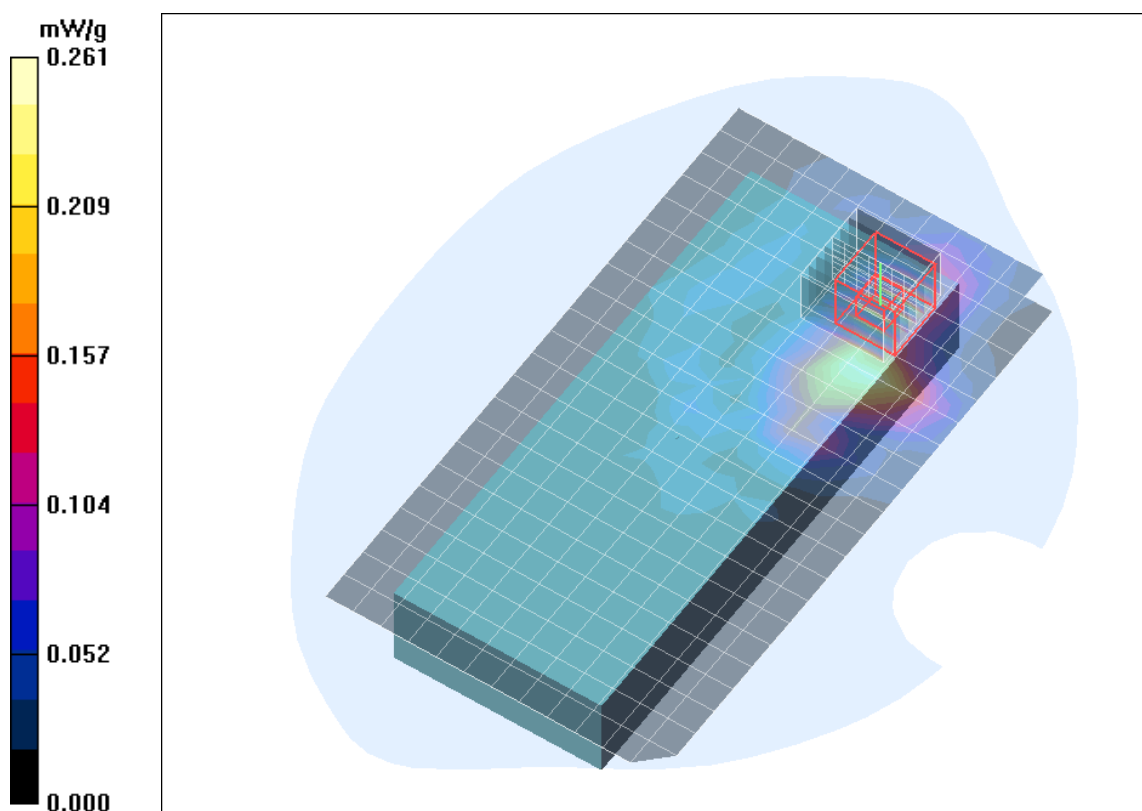


Fig. 30: SAR distribution for IEEE 802.11 a, channel 52, body worn configuration, position 2 (May 18, 2012; Ambient Temperature: 21.6° C; Liquid Temperature: 21.2° C).

## 7 SAR Distribution Plots, IEEE 802.11 a Body (5500 MHz Range)

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [X3\\_bwhm\\_1\\_ch100\\_dspl\\_up\\_0mm\\_a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

Communication System: 5 GHz ; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.75$  mho/m;  $\epsilon_r = 49.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(3.92, 3.92, 3.92); Calibrated: 26.09.2011
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- 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 (13x23x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.098 mW/g

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

Reference Value = 4.81 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.124 W/kg

**SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.015 mW/g**

Maximum value of SAR (measured) = 0.089 mW/g

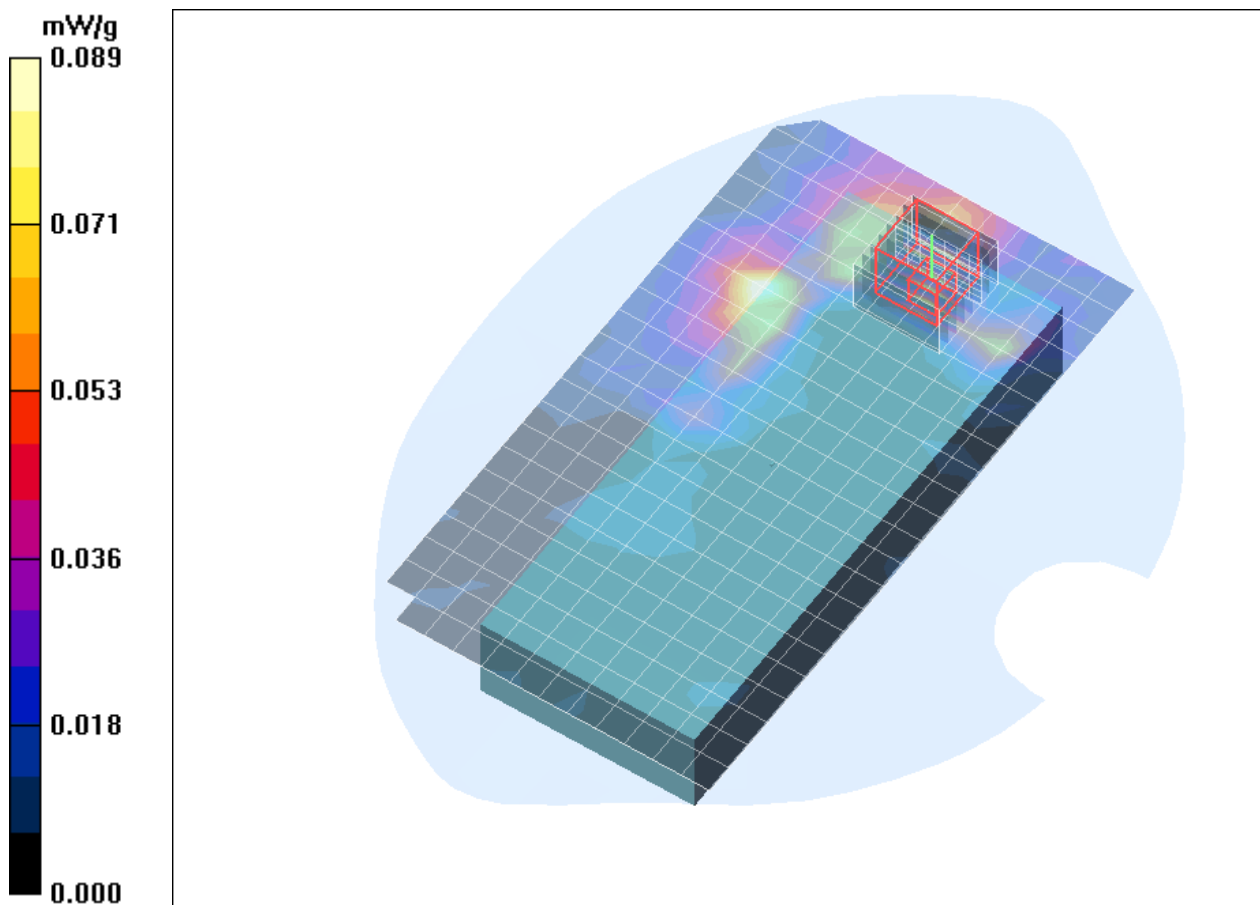


Fig. 31: SAR distribution for IEEE 802.11 a, channel 100, body worn configuration, position 1 (May 18, 2012; Ambient Temperature: 21.6° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name:

[X3\\_bwhm\\_2\\_ch100\\_dspl\\_down\\_0mm\\_a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

Communication System: 5 GHz ; Frequency: 5500 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.75$  mho/m;  $\epsilon_r = 49.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(3.92, 3.92, 3.92); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (13x23x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.301 mW/g

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

Reference Value = 7.98 V/m; Power Drift = -0.115 dB

Peak SAR (extrapolated) = 0.580 W/kg

**SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.050 mW/g**

Maximum value of SAR (measured) = 0.306 mW/g

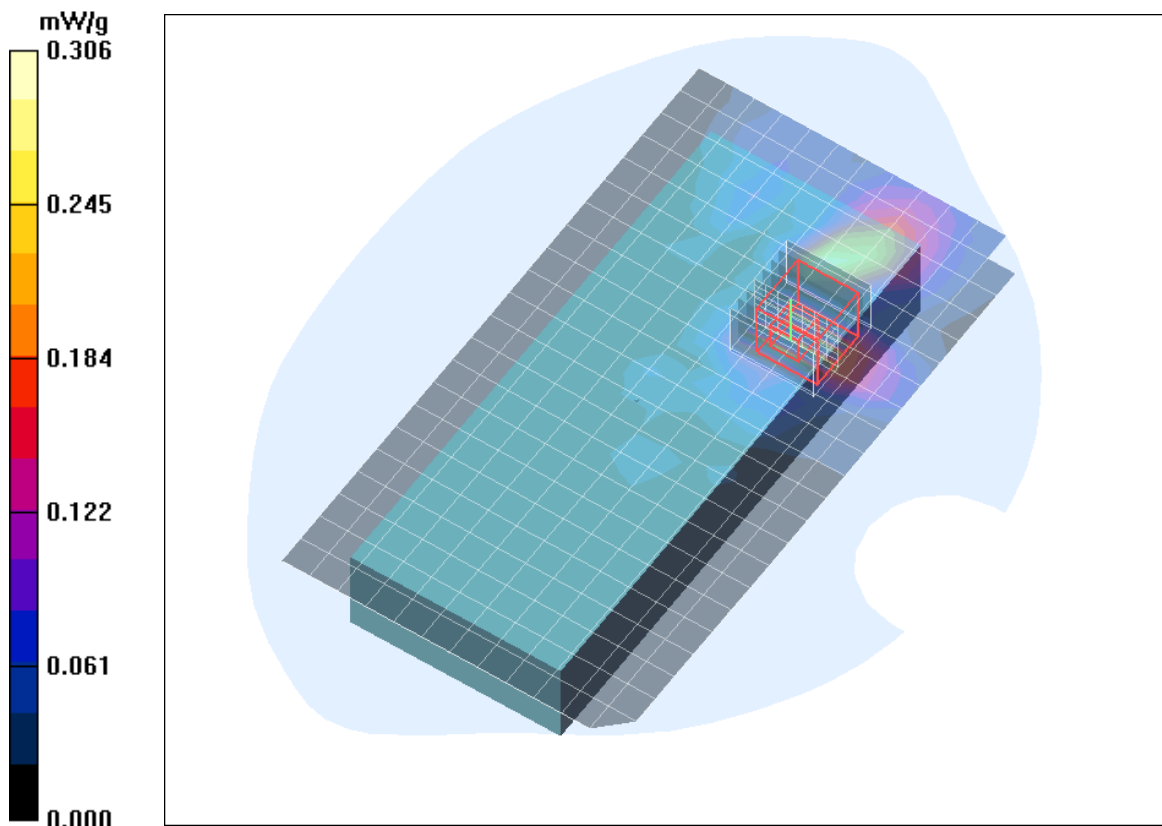


Fig. 32: SAR distribution for IEEE 802.11 a, channel 100, body worn configuration, position 2 (May 18, 2012; Ambient Temperature: 21.6° C; Liquid Temperature: 21.2° C).

## 8 SAR Distribution Plots, IEEE 802.11 a Body (5800 MHz Range)

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [X3\\_bwhm\\_1\\_ch149\\_dspl\\_up\\_0mm\\_a.da4](#)

DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054

Program Name: IEEE 802.11 a

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

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.92$  mho/m;  $\epsilon_r = 48.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(3.92, 3.92, 3.92); Calibrated: 26.09.2011
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- 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 (13x23x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.086 mW/g

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

Reference Value = 4.67 V/m; Power Drift = -0.167 dB

Peak SAR (extrapolated) = 0.154 W/kg

**SAR(1 g) = 0.049 mW/g; SAR(10 g) = 0.017 mW/g**

Maximum value of SAR (measured) = 0.094 mW/g

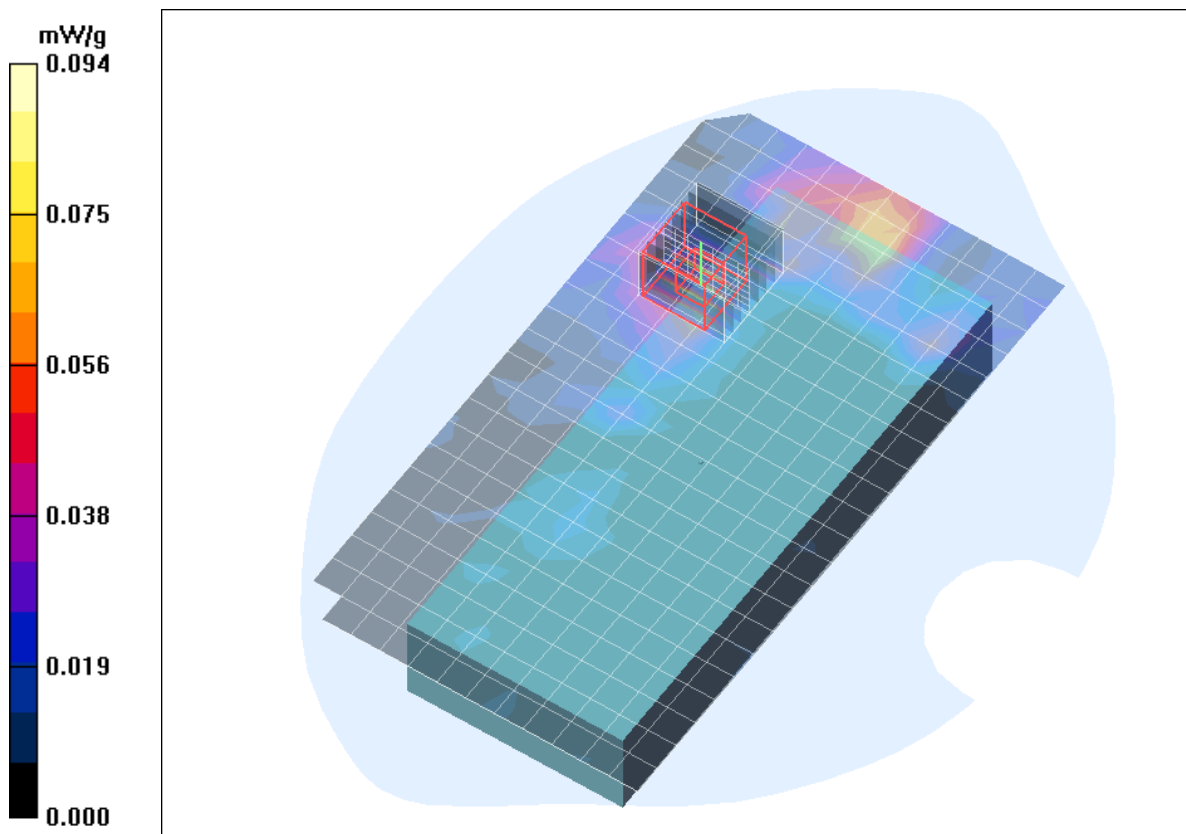


Fig. 33: SAR distribution for IEEE 802.11 a, channel 149, body worn configuration, position 1 (May 18, 2012; Ambient Temperature: 21.6° C; Liquid Temperature: 21.2° C).



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

**[X3\\_bwhm\\_2\\_ch149\\_dspl\\_down\\_0mm\\_a.da4](#)**

**DUT: Datalogic; Type: SKORPIO X3; Serial: A12P00054**

**Program Name: IEEE 802.11 a**

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

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.92$  mho/m;  $\epsilon_r = 48.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(3.92, 3.92, 3.92); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (13x23x1):** 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 = 8.30 V/m; Power Drift = -0.161 dB

Peak SAR (extrapolated) = 0.849 W/kg

**SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.061 mW/g**

Maximum value of SAR (measured) = 0.338 mW/g

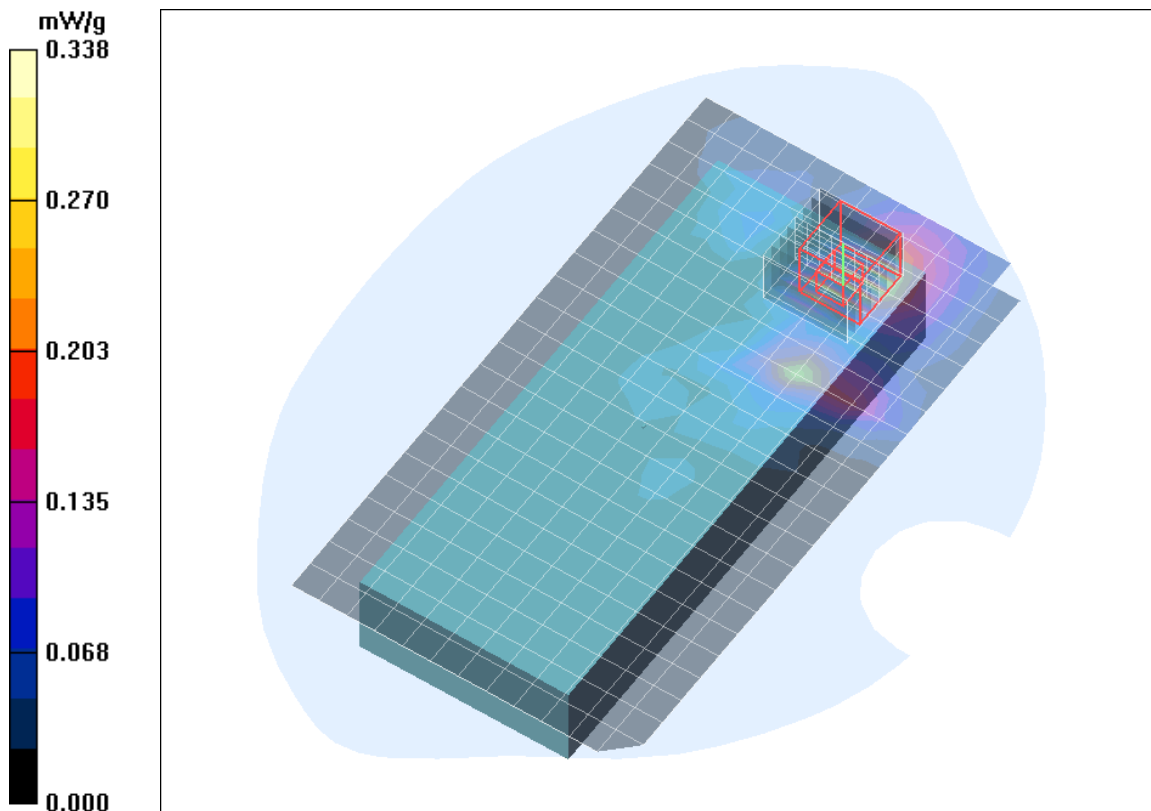


Fig. 34: SAR distribution for IEEE 802.11 a, channel 149, body worn configuration, position 2 (May 18, 2012; Ambient Temperature: 21.6° C; Liquid Temperature: 21.2° C).



Test Laboratory: IMST GmbH, DASY Blue (I); File Name:

[X3\\_bwhm\\_2\\_ch149\\_dspl\\_down\\_0mm\\_a\\_std-bat.da4](#)

DUT: Datalogic; Type: Scorpio X3; Serial: A12P00054

Program Name: IEEE 802.11 a

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

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 6.07$  mho/m;  $\epsilon_r = 48.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.03, 4.03, 4.03); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (13x23x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.320 mW/g

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

Reference Value = 8.13 V/m; Power Drift = -0.086 dB

Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.178 mW/g; SAR(10 g) = 0.067 mW/g**

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

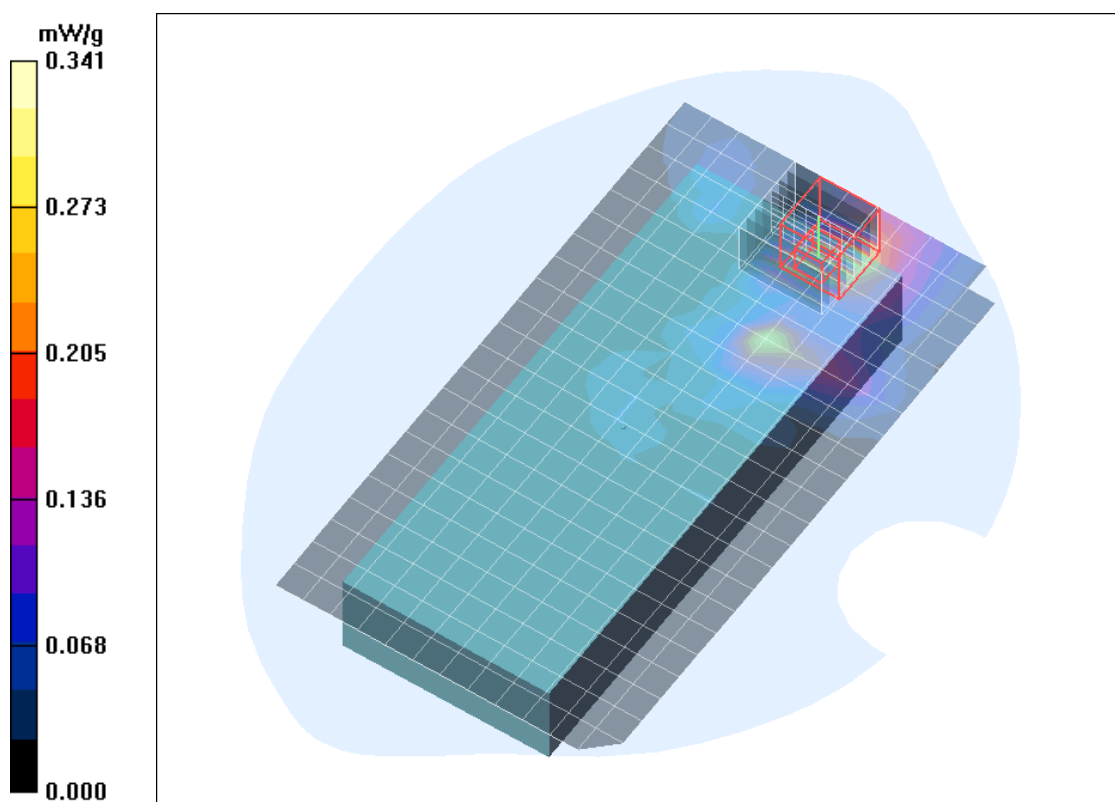


Fig. 35: SAR distribution for IEEE 802.11 a, channel 149, body worn configuration, position 2, standard battery (May 18, 2012; Ambient Temperature: 21.6° C; Liquid Temperature: 21.2° C).

**Test Laboratory: IMST GmbH, DASY Blue (I); File Name:**  
[X3\\_bwhm\\_2\\_ch149\\_dspl\\_down\\_0mm\\_a\\_std-bat\\_clip.da4](#)

**DUT: Datalogic; Type: Scorpio X3; Serial: A12P00054**  
**Program Name: IEEE 802.11 a**

Communication System: 5 GHz ; Frequency: 5745 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 5745$  MHz;  $\sigma = 6.07$  mho/m;  $\epsilon_r = 48.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(4.03, 4.03, 4.03); Calibrated: 26.09.2011
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- 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 (13x23x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.064 mW/g

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

Reference Value = 3.44 V/m; Power Drift = 0.043 dB

Peak SAR (extrapolated) = 0.219 W/kg

**SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.012 mW/g**

Maximum value of SAR (measured) = 0.055 mW/g

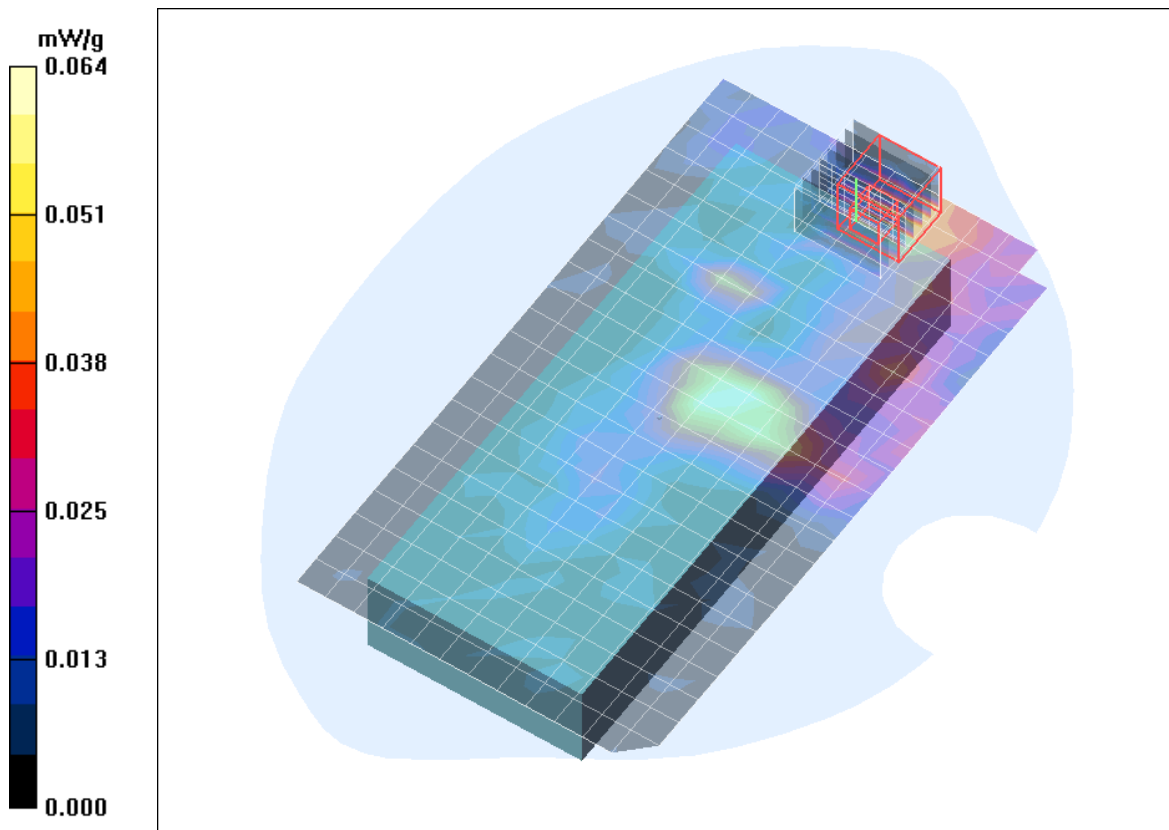


Fig. 36: SAR distribution for IEEE 802.11 a, channel 149, body worn configuration, position 2 with belt clip and standard battery (May 18, 2012; Ambient Temperature: 21.6° C; Liquid Temperature: 21.2° C).

## 9 SAR Z-axis Scans (Validation)

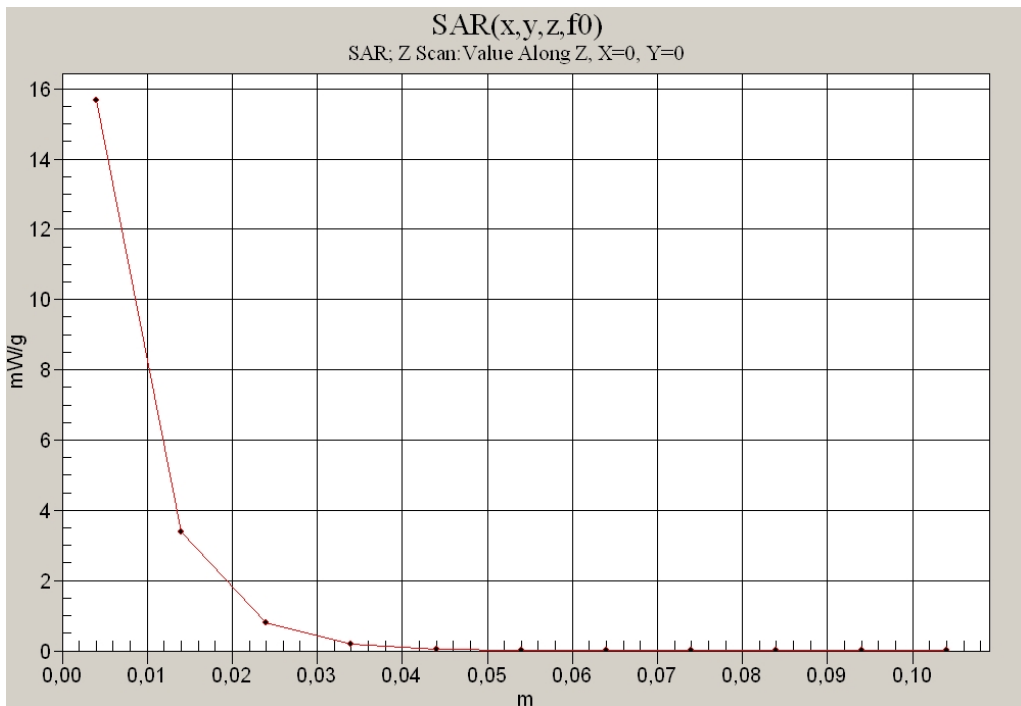


Fig. 37: SAR versus liquid depth, 2450 MHz, head (May 18, 2012; Ambient Temperature: 22.4° C; Liquid Temperature: 22.3° C).

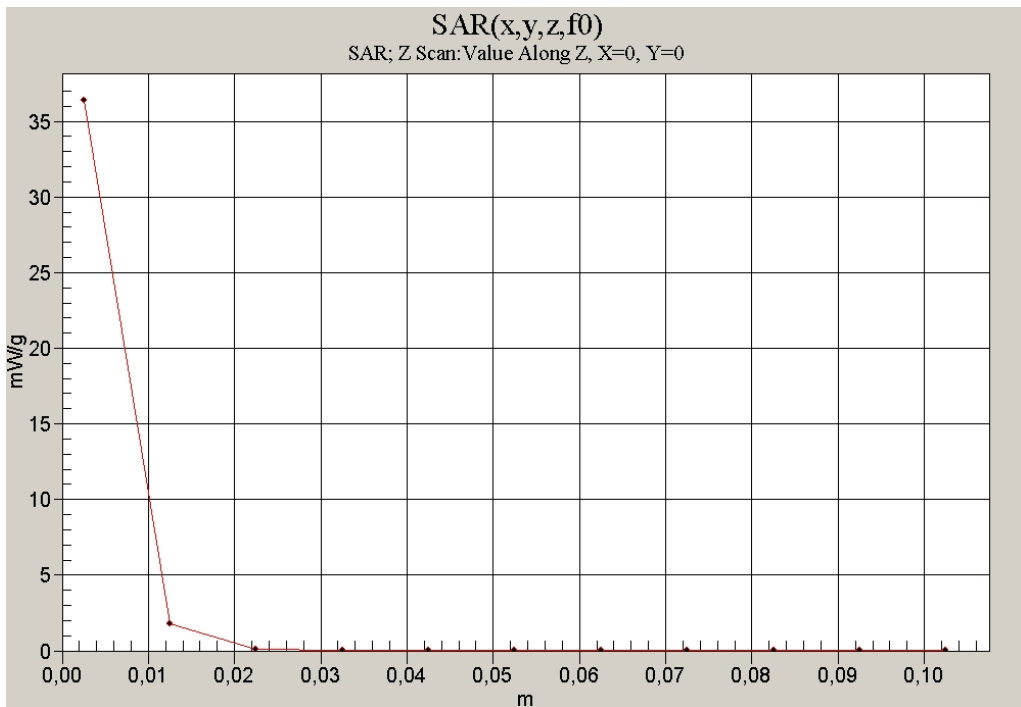


Fig. 38: SAR versus liquid depth, 5200 MHz, head (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).

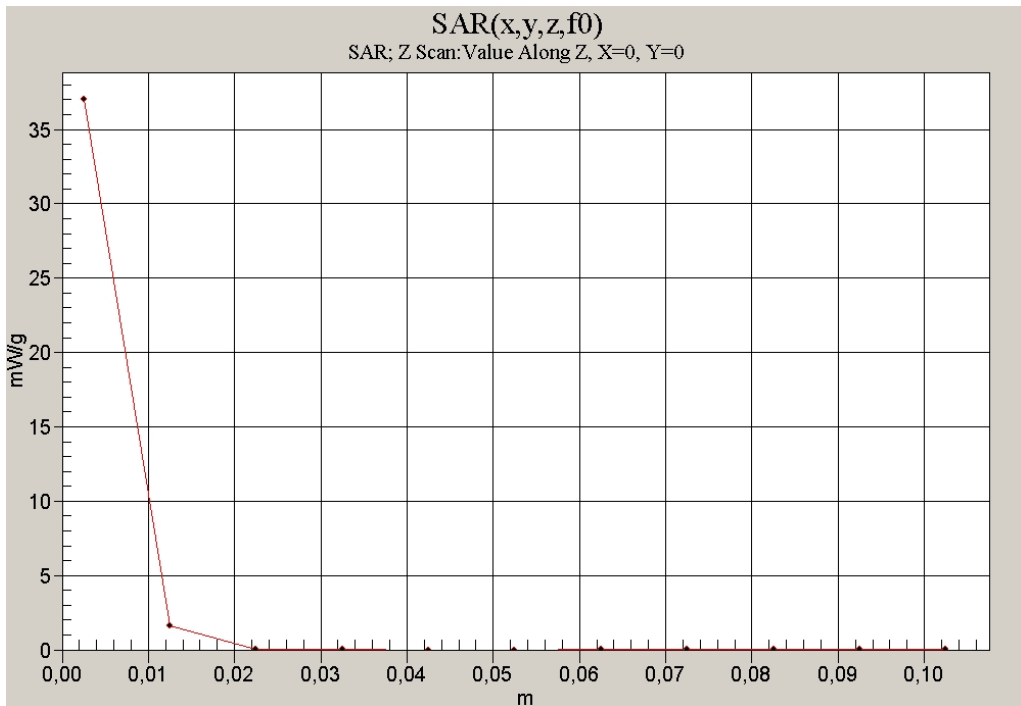


Fig. 39: SAR versus liquid depth, 5500 MHz, head (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).

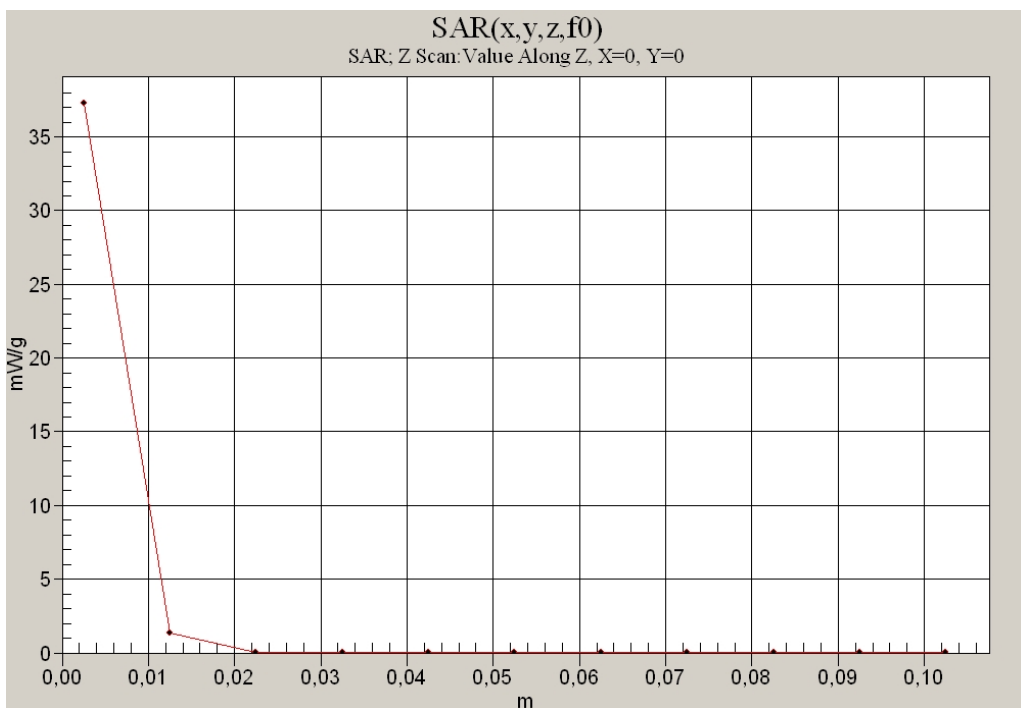


Fig. 40: SAR versus liquid depth, 5800 MHz, head (May 21, 2012; Ambient Temperature: 21.8° C; Liquid Temperature: 21.5° C).

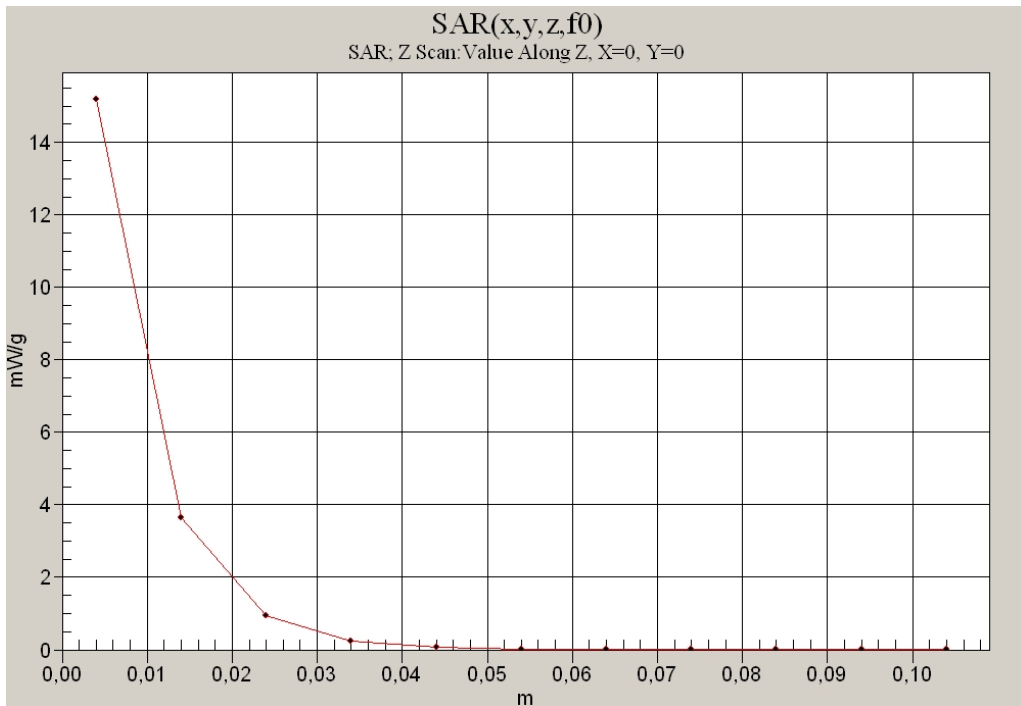


Fig. 41: SAR versus liquid depth, 2450 MHz, body (May 15, 2012; Ambient Temperature: 22.5° C; Liquid Temperature: 22.2° C).

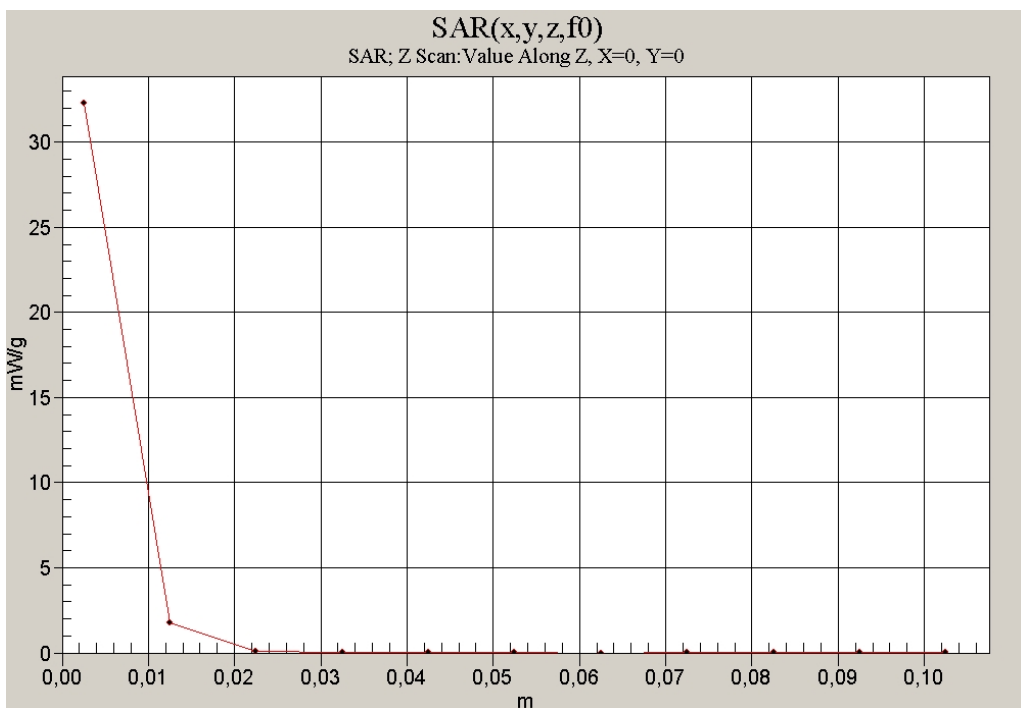


Fig. 42: SAR versus liquid depth, 5200 MHz, body (May 18, 2012; Ambient Temperature: 21.6° C; Liquid Temperature: 21.2° C).

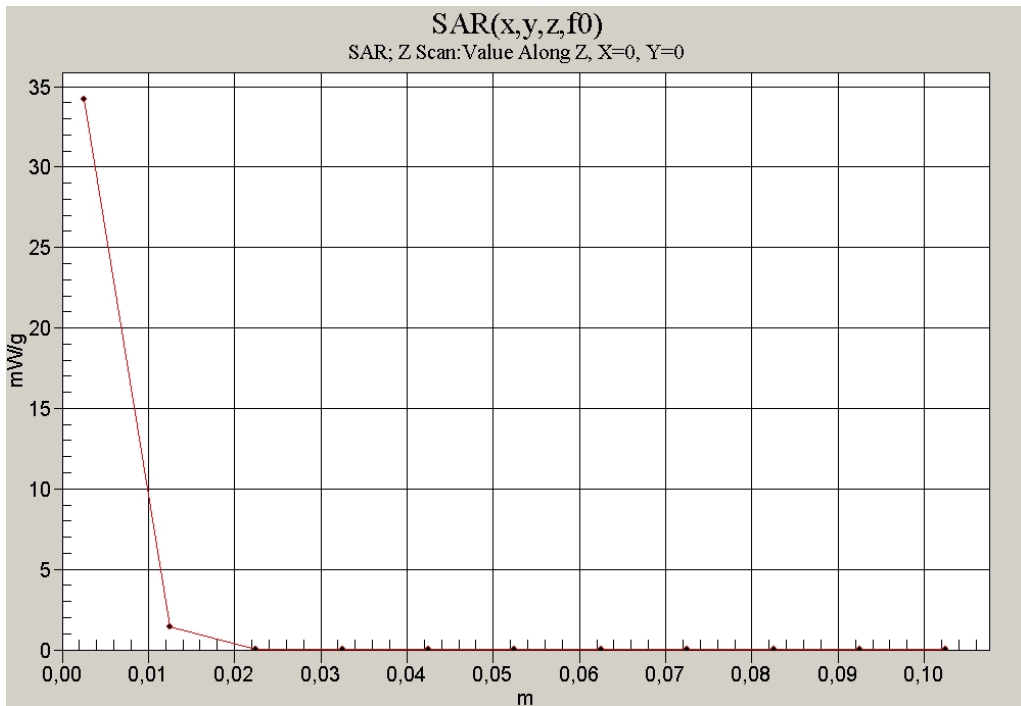


Fig. 43: SAR versus liquid depth, 5500 MHz, body (May 18, 2012; Ambient Temperature: 21.6° C; Liquid Temperature: 21.2° C).

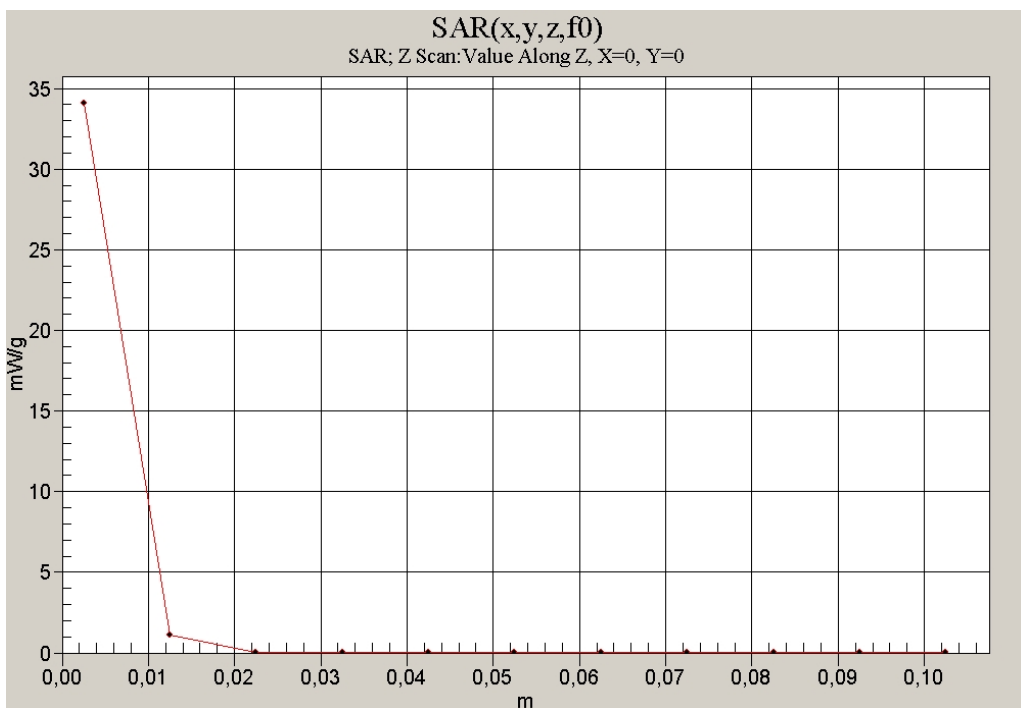


Fig. 44: SAR versus liquid depth, 5800 MHz, body (May 18, 2012; Ambient Temperature: 21.6° C; Liquid Temperature: 21.2° C).

## 10 SAR Z-axis Scans (Measurements)

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

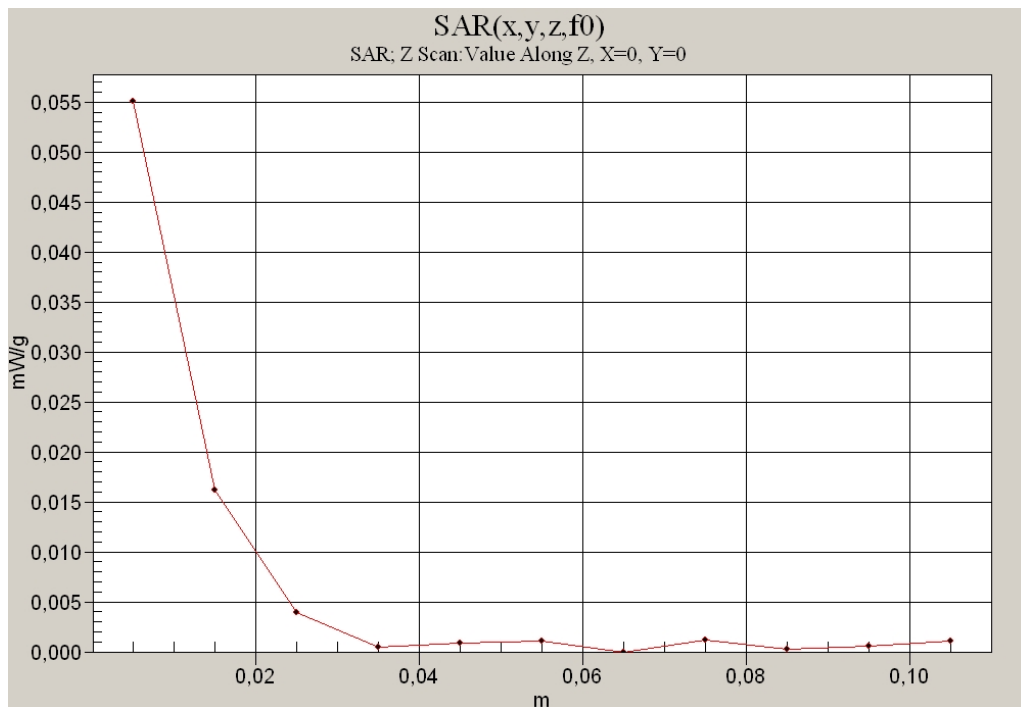


Fig. 45: SAR versus liquid depth, head: IEEE 802.11 b, channel 6, tilted position, left side of head, standard battery (May 18, 2012; Ambient Temperature: 22.4° C; Liquid Temperature : 22.3° C).

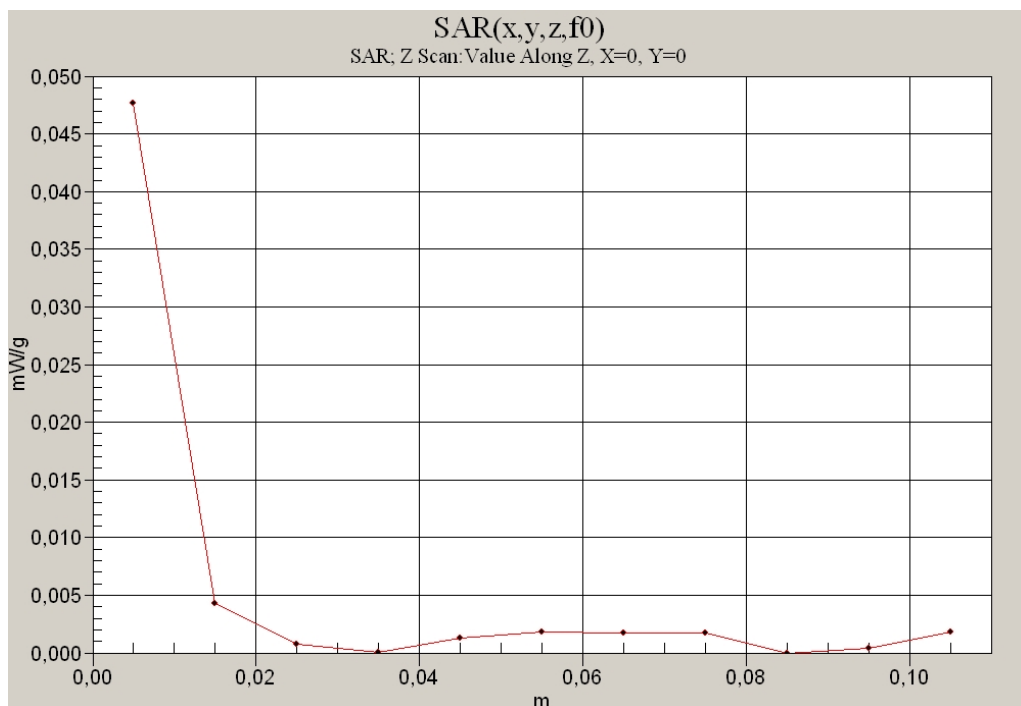


Fig. 46: SAR versus liquid depth, head: IEEE 802.11 a channel 149, tilted position, left side of head, standard battery (May 21, 2012; Ambient Temperature: 21.4° C; Liquid Temperature : 20.8° C).



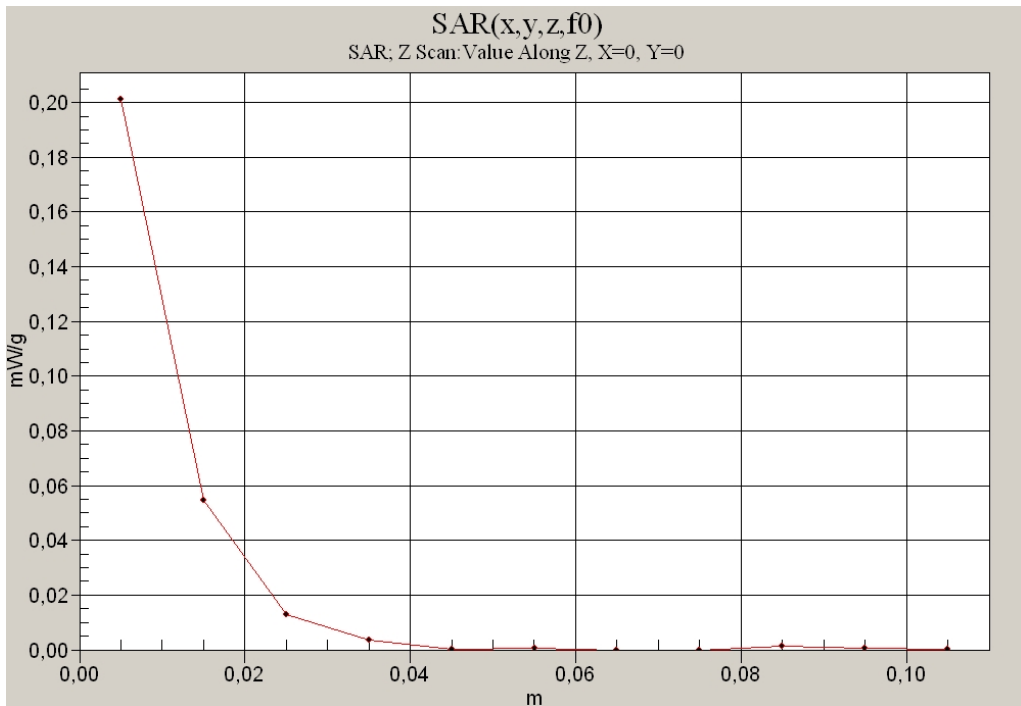


Fig. 47: SAR versus liquid depth, body: IEEE 802.11 b, channel 6, position 2 with belt clip and standard battery (May 15, 2012; Ambient Temperature: 22.7° C; Liquid Temperature: 22.3° C).

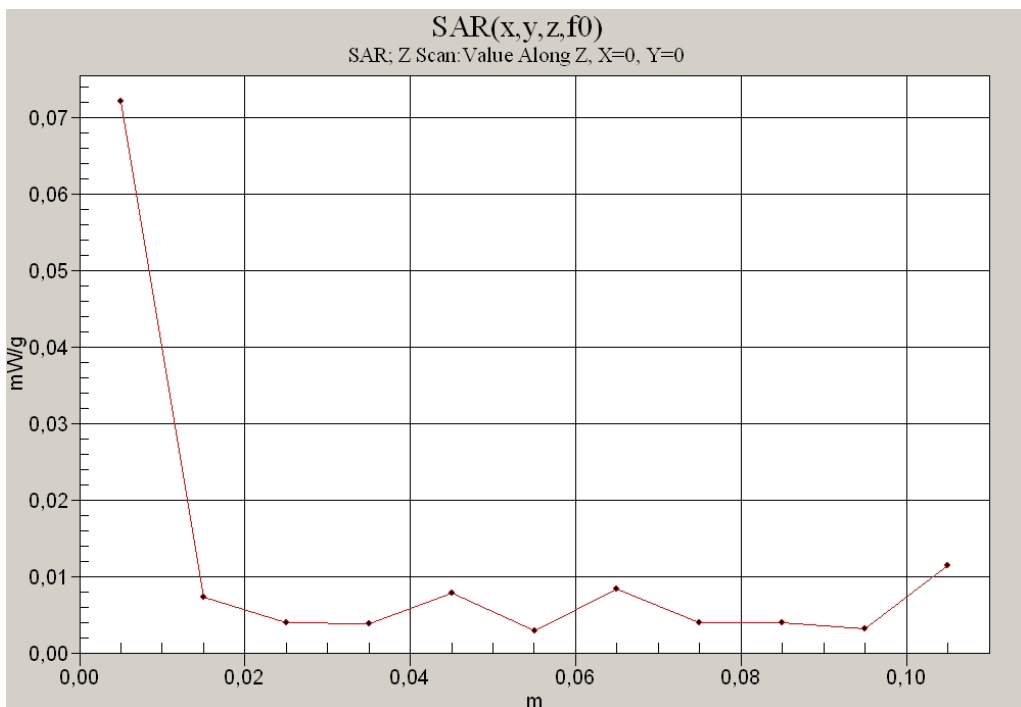


Fig. 48: SAR versus liquid depth, body: IEEE 802.11 a, channel 149, position 2, standard battery (May 18, 2012; Ambient Temperature: 21.6°C; Liquid Temperature: 21.2°C).