



TTI-P-G 158



Appendix for the Report

Dosimetric Assessment of the Portable Device
Option Fusion Quad Band PCMCIA Card
(FCC ID: NCMOGLUWQ) tested in three host
products

According to the FCC Requirements

SAR Distribution Plots

November 30, 2004
IMST GmbH
Carl-Friedrich-Gauß-Str. 2
D-47475 Kamp-Lintfort

Customer
7layers AG
Borsigstrasse 11
D-40880 Ratingen

The test results only relate to the items tested.
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1 SAR Distribution Plots, GSM 850 Body

Test Laboratory: IMST GmbH; File Name: [Ricbalm_1_dell.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(6.32, 6.32, 6.32); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.880 mW/g

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

Reference Value = 25.6 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.870 mW/g; SAR(10 g) = 0.599 mW/g

Maximum value of SAR (measured) = 0.936 mW/g

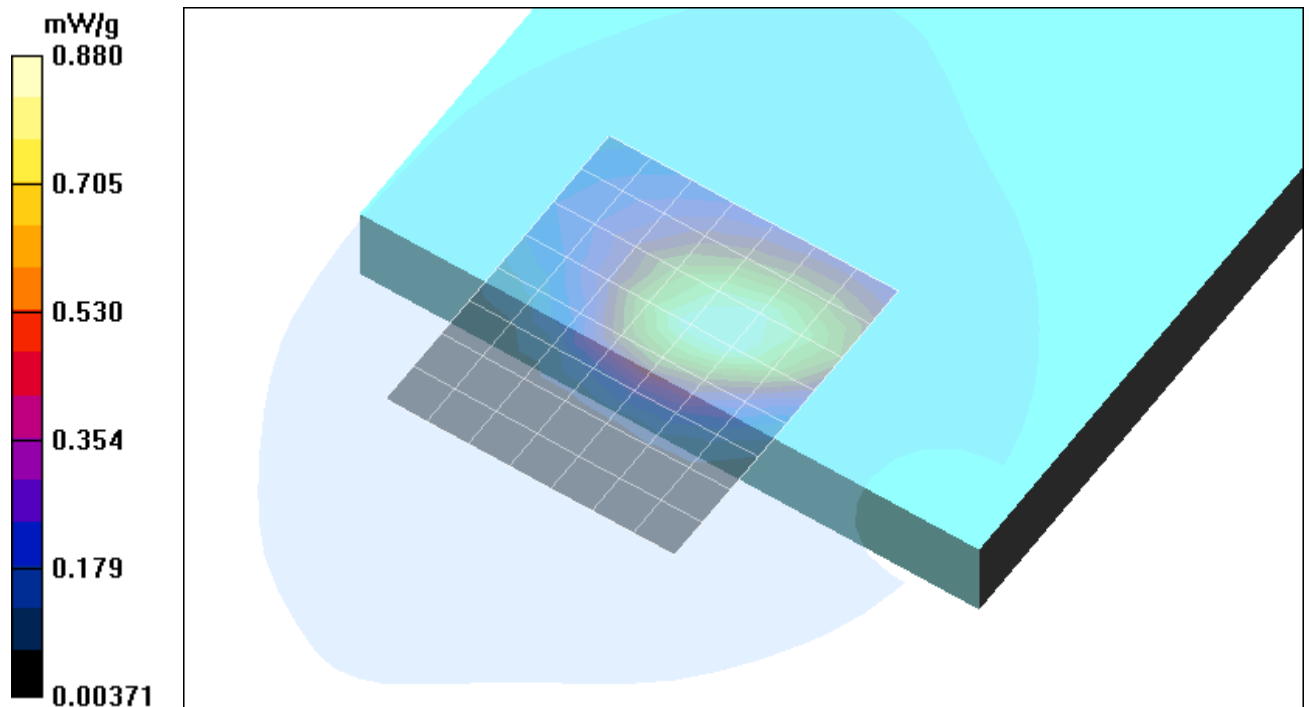


Fig. 1: SAR distribution for GSM 850, channel 190, DELL Latitude D505, position 1. (11.25.2004; Ambient Temperature: 21.2° C; Liquid Temperature: 20.3° C).

Test Laboratory: IMST GmbH; File Name: [Ricbalm 2 dell.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(6.32, 6.32, 6.32); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.663 mW/g

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

Reference Value = 17 V/m; Power Drift = -0.0381 dB

Peak SAR (extrapolated) = 0.971 W/kg

SAR(1 g) = 0.699 mW/g; SAR(10 g) = 0.481 mW/g

Maximum value of SAR (measured) = 0.741 mW/g

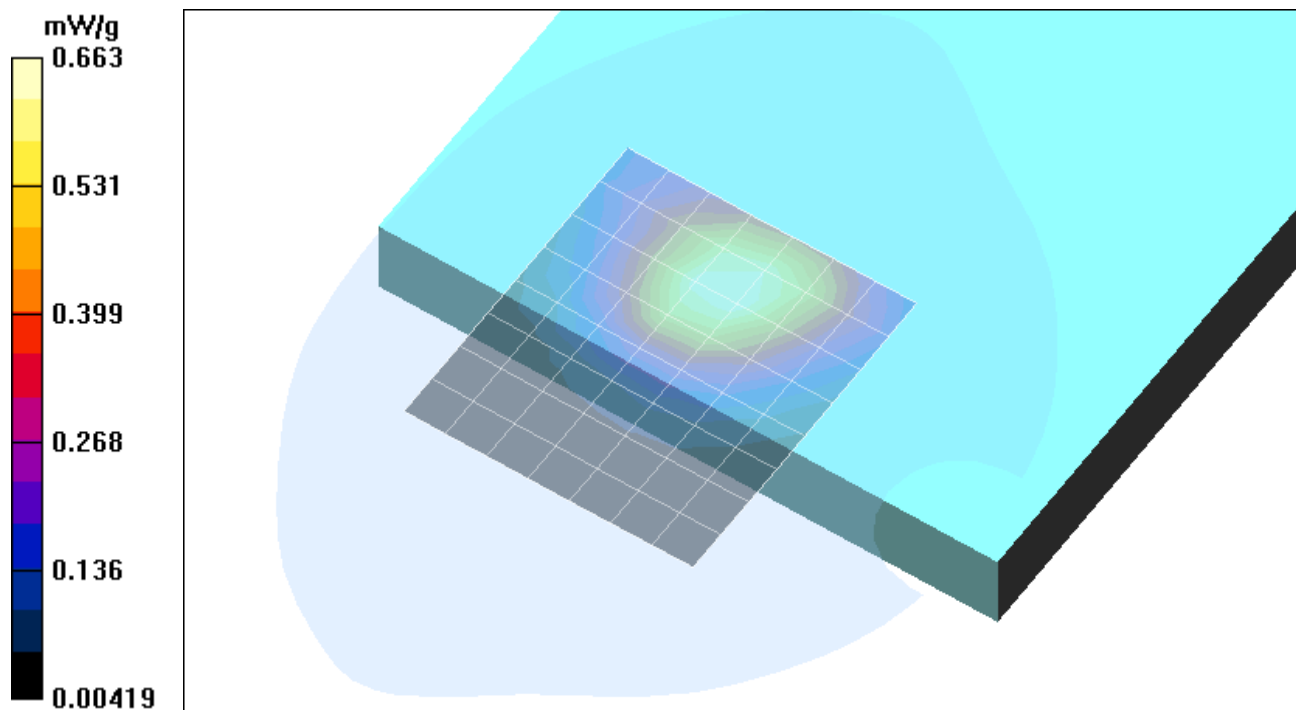


Fig. 2: SAR distribution for GSM 850, channel 190, DELL Latitude D505, position 2. (11.25.2004; Ambient Temperature: 21.2° C; Liquid Temperature: 20.3° C).

Test Laboratory: IMST GmbH; File Name: [Ricbalm_3_dell.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(6.32, 6.32, 6.32); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.081 mW/g

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

Reference Value = 8.83 V/m; Power Drift = -0.072 dB

Peak SAR (extrapolated) = 0.129 W/kg

SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.054 mW/g

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

Unnamed procedure/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.83 V/m; Power Drift = -0.072 dB

Peak SAR (extrapolated) = 0.135 W/kg

SAR(1 g) = 0.073 mW/g; SAR(10 g) = 0.047 mW/g

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

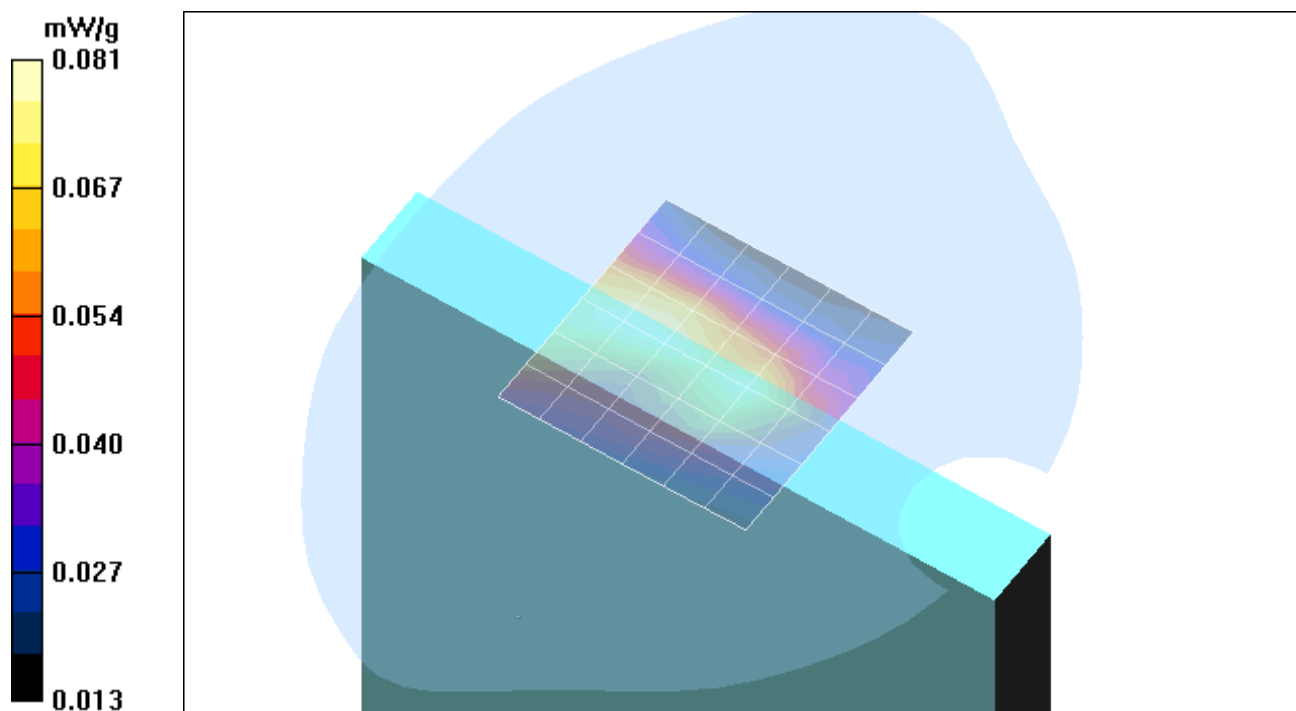


Fig. 3: SAR distribution for GSM 850, channel 190, DELL Latitude D505, position 3. (11.25.2004; Ambient Temperature: 21.2° C; Liquid Temperature: 20.3° C).

Test Laboratory: IMST GmbH; File Name: [Ricbalm_4_dell.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(6.32, 6.32, 6.32); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 10.8 V/m; Power Drift = -0.109 dB

Peak SAR (extrapolated) = 0.199 W/kg

SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.066 mW/g

Maximum value of SAR (measured) = 0.119 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.8 V/m; Power Drift = -0.109 dB

Peak SAR (extrapolated) = 0.081 W/kg

SAR(1 g) = 0.064 mW/g; SAR(10 g) = 0.047 mW/g

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

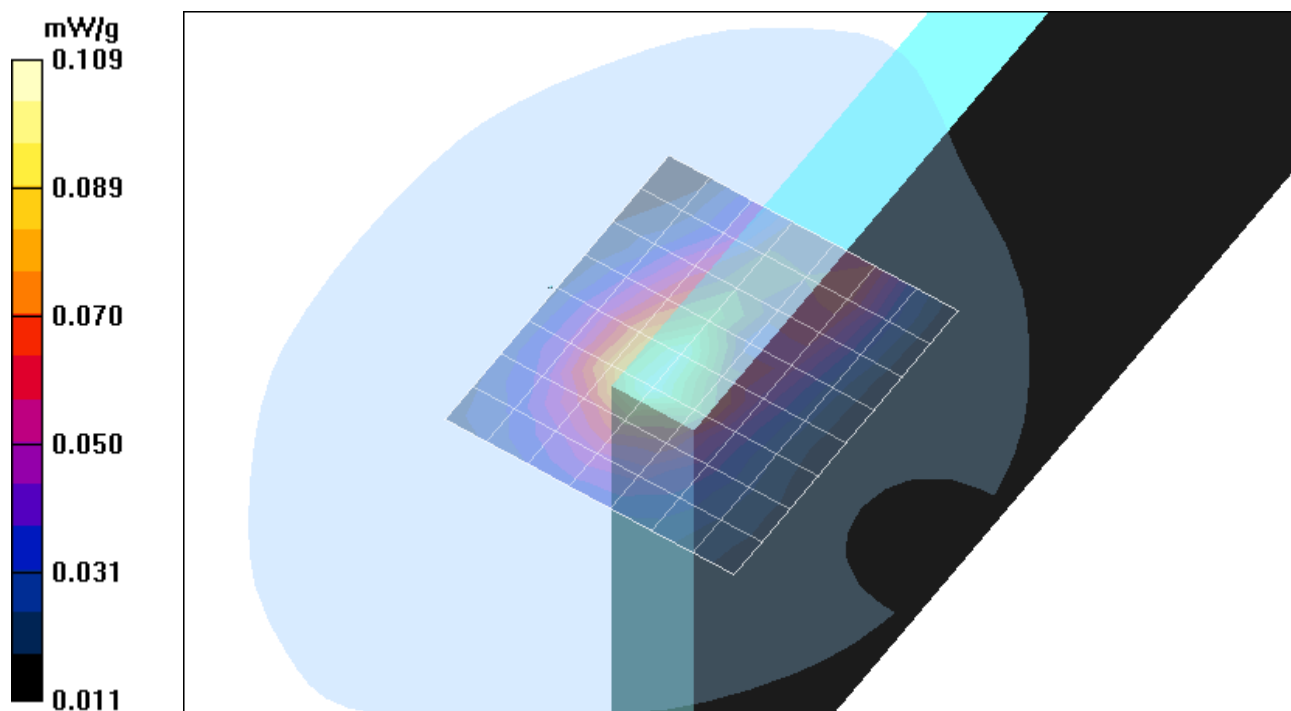


Fig. 4: SAR distribution for GSM 850, channel 190, DELL Latitude D505, position 4. (11.25.2004; Ambient Temperature: 21.2° C; Liquid Temperature: 20.3° C).

Test Laboratory: IMST GmbH; File Name: [Ricbalm 5 dell.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(6.32, 6.32, 6.32); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.043 mW/g

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

Reference Value = 6.78 V/m; Power Drift = 0.0536 dB

Peak SAR (extrapolated) = 0.086 W/kg

SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.027 mW/g

Maximum value of SAR (measured) = 0.050 mW/g

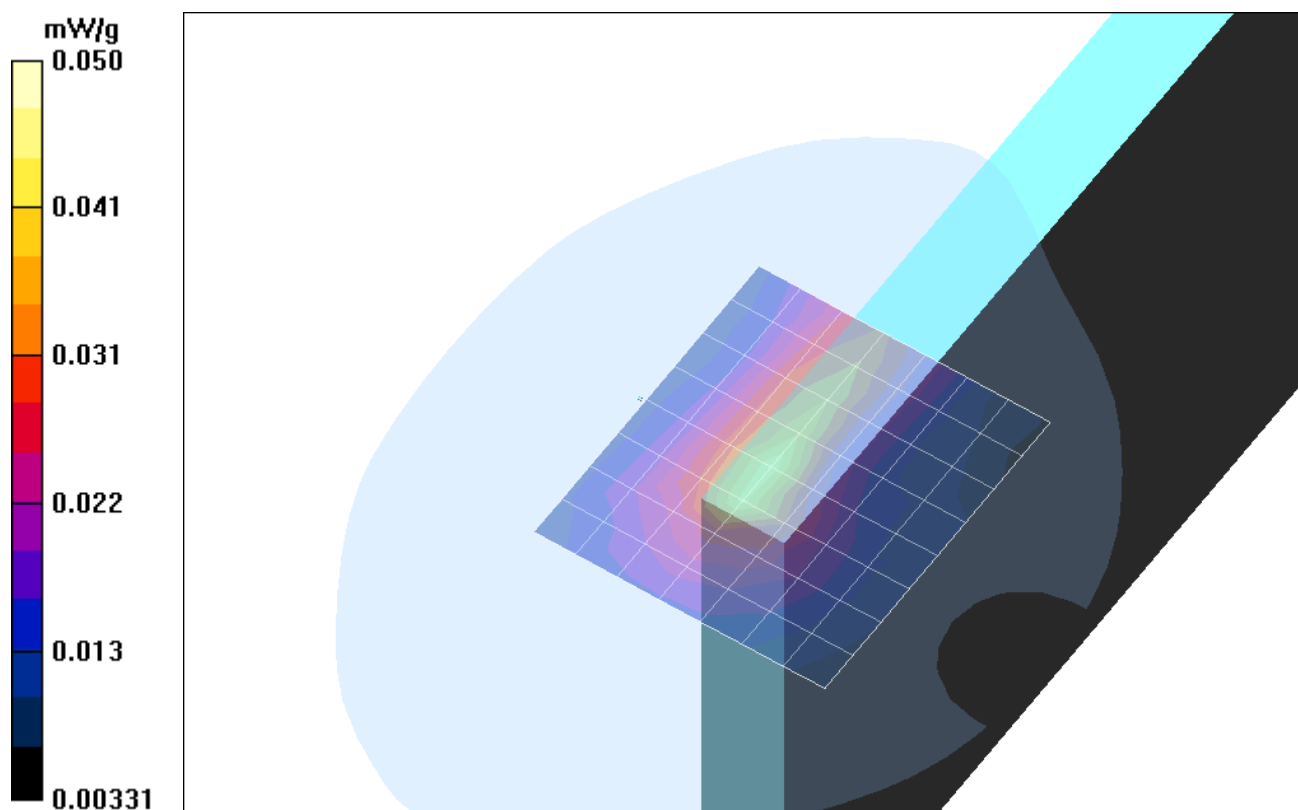


Fig. 5: SAR distribution for GSM 850, channel 190, DELL Latitude D505, position 5. (11.25.2004; Ambient Temperature: 21.2° C; Liquid Temperature: 20.3° C).

Test Laboratory: IMST GmbH; **File Name:** [Ricbahl_1_dell.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Communication System: GPRS 850; Frequency: 824.2 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(6.32, 6.32, 6.32); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 16.4 V/m; Power Drift = -0.162 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.777 mW/g; SAR(10 g) = 0.544 mW/g

Maximum value of SAR (measured) = 0.831 mW/g

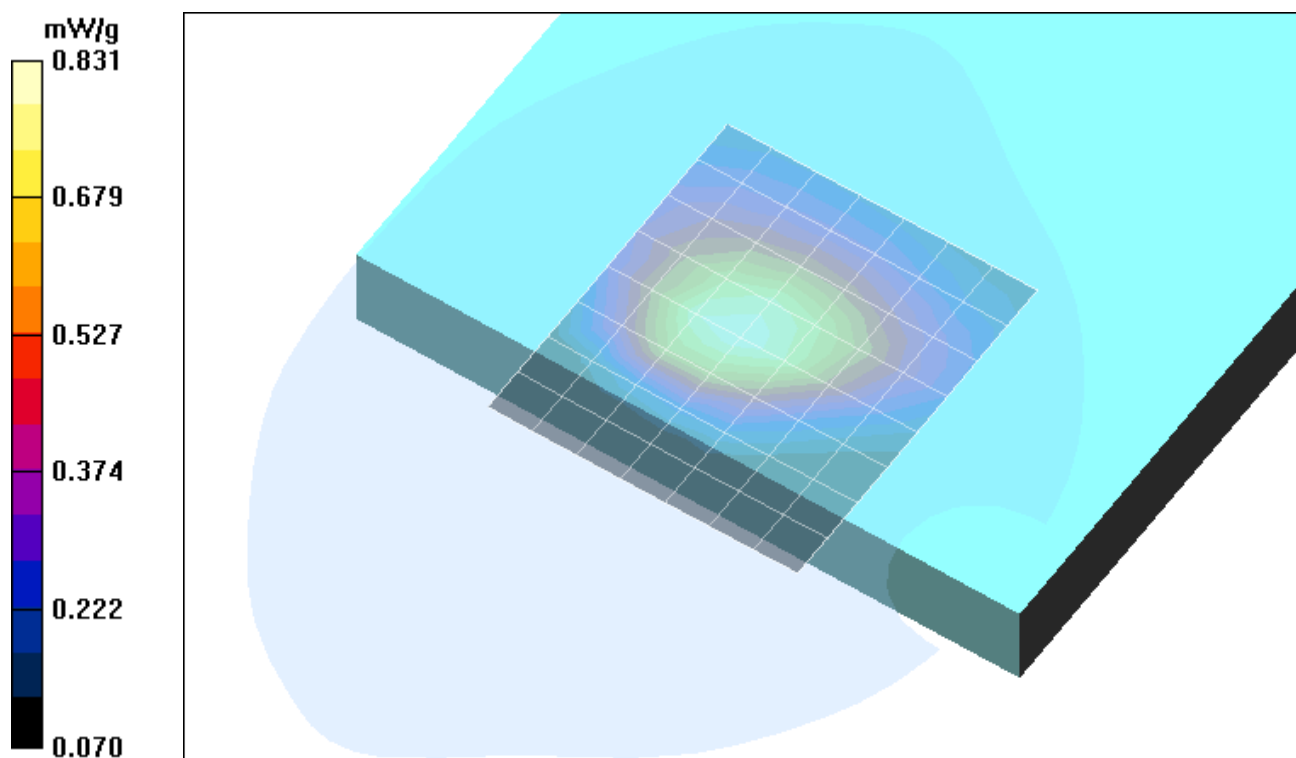


Fig. 6: SAR distribution for GSM 850, channel 128, DELL Latitude D505, position 1. (11.25.2004; Ambient Temperature: 21.3° C; Liquid Temperature: 20.3° C).

Test Laboratory: IMST GmbH; **File Name:** [Ricbahh_1_dell.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Communication System: GPRS 850; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(6.32, 6.32, 6.32); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.849 mW/g

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

Reference Value = 16.4 V/m; Power Drift = 0.002 dB

Peak SAR (extrapolated) = 1.1 W/kg

SAR(1 g) = 0.804 mW/g; SAR(10 g) = 0.560 mW/g

Maximum value of SAR (measured) = 0.855 mW/g

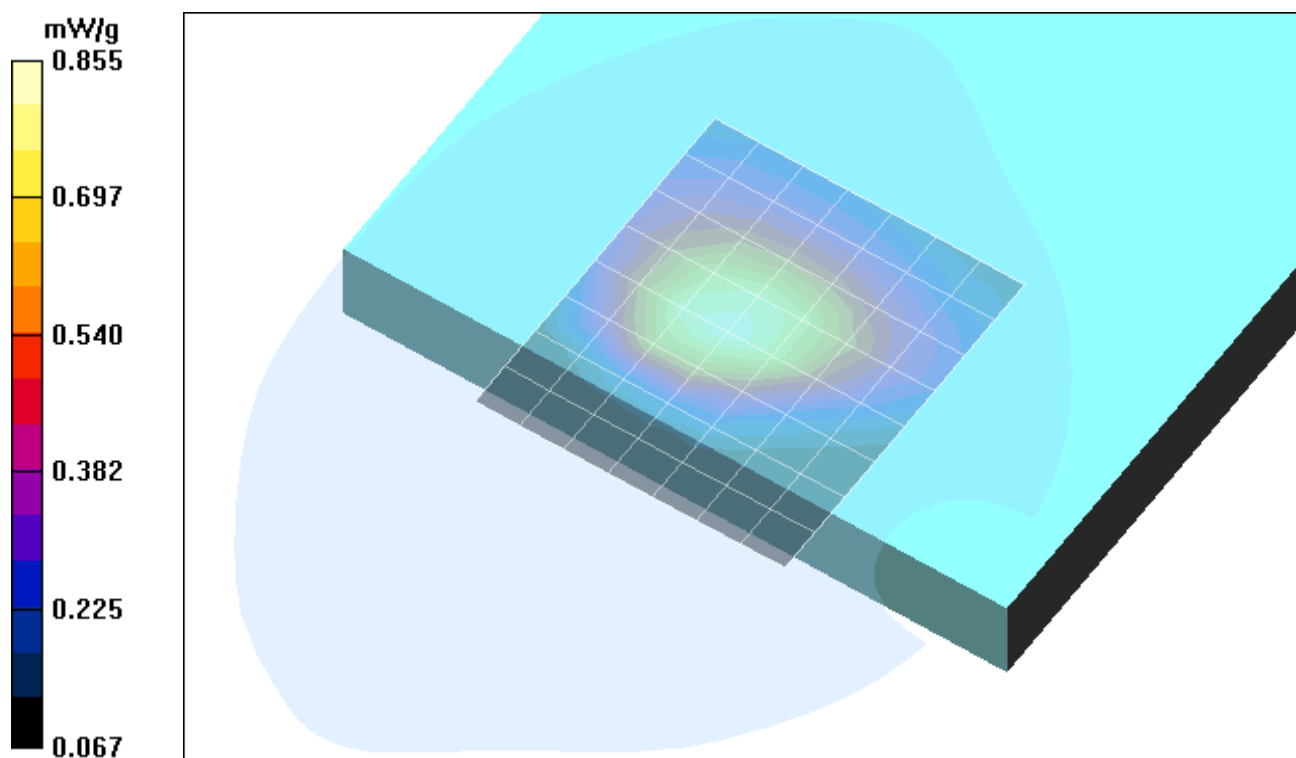


Fig. 7: SAR distribution for GSM 850, channel 251, DELL Latitude D505, position 1. (11.25.2004; Ambient Temperature: 21.4° C; Liquid Temperature: 20.3° C).

Test Laboratory: IMST GmbH; **File Name:** [Ricbalm_1_PB.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1579; ConvF(6.46, 6.46, 6.46); Calibrated: 01.09.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.577 mW/g

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

Reference Value = 14.1 V/m; Power Drift = 0.2 dB

Peak SAR (extrapolated) = 0.831 W/kg

SAR(1 g) = 0.594 mW/g; SAR(10 g) = 0.410 mW/g

Maximum value of SAR (measured) = 0.629 mW/g

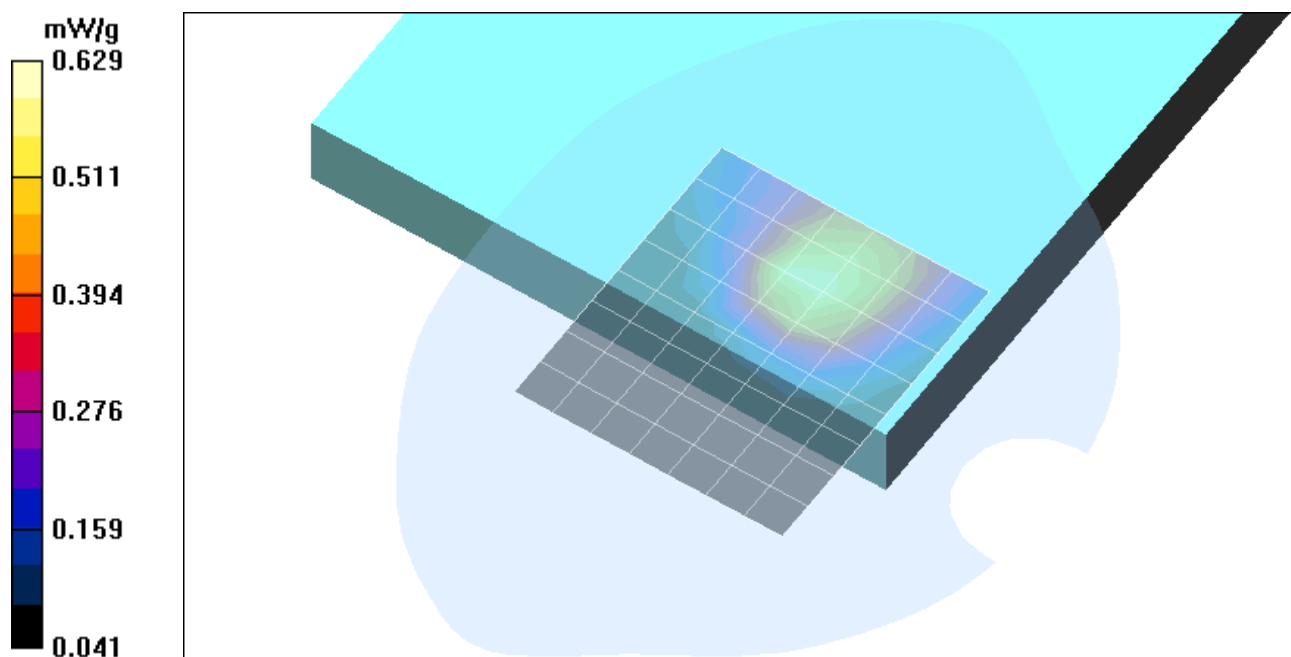


Fig. 8: SAR distribution for GSM 850, channel 190, Packard Bell Easy Note, position 1. (11.29.2004; Ambient Temperature: 21.4° C; Liquid Temperature: 20.5° C).

Test Laboratory: IMST GmbH; File Name: [Ricbahm 2 PB.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1579; ConvF(6.46, 6.46, 6.46); Calibrated: 01.09.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (9x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.477 mW/g

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

Reference Value = 12.5 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 0.624 W/kg

SAR(1 g) = 0.453 mW/g; SAR(10 g) = 0.322 mW/g

Maximum value of SAR (measured) = 0.482 mW/g

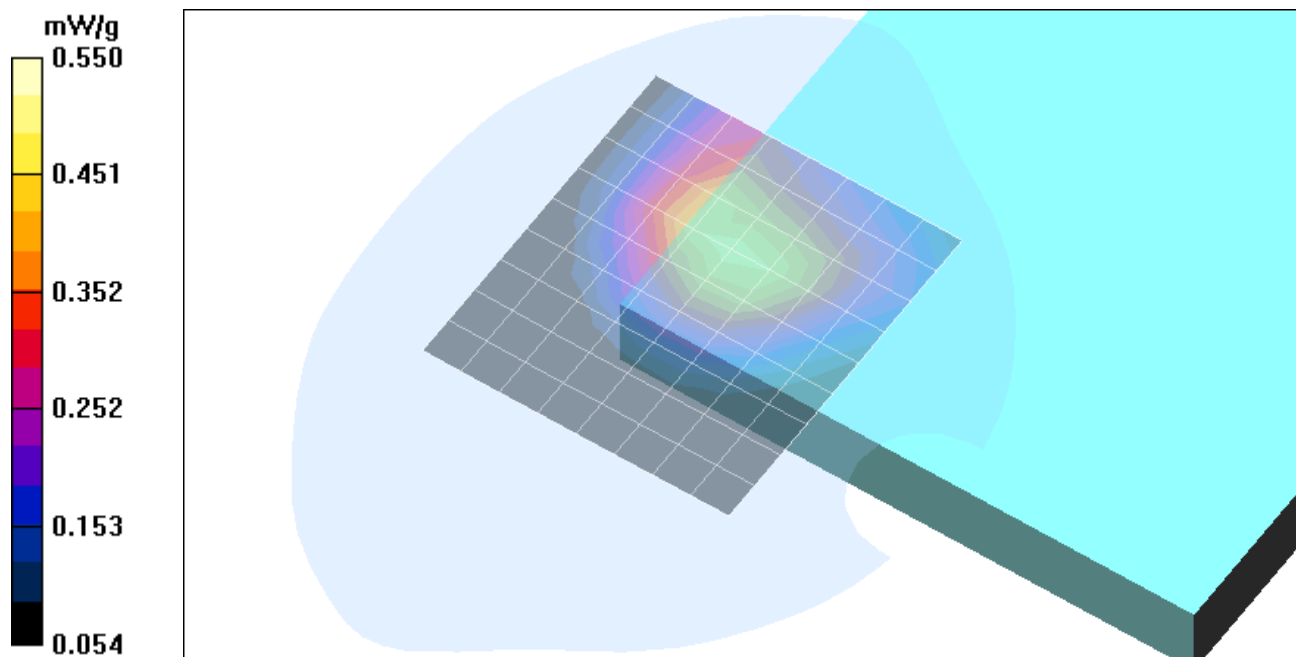


Fig. 9: SAR distribution for GSM 850, channel 190, Packard Bell Easy Note, position 2. (11.29.2004; Ambient Temperature: 21.5° C; Liquid Temperature: 20.5° C).

Test Laboratory: IMST GmbH; **File Name:** [Ricbalm 3 PB.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1579; ConvF(6.46, 6.46, 6.46); Calibrated: 01.09.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.127 mW/g

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

Reference Value = 10.8 V/m; Power Drift = -0.088 dB

Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.121 mW/g; SAR(10 g) = 0.077 mW/g

Maximum value of SAR (measured) = 0.131 mW/g

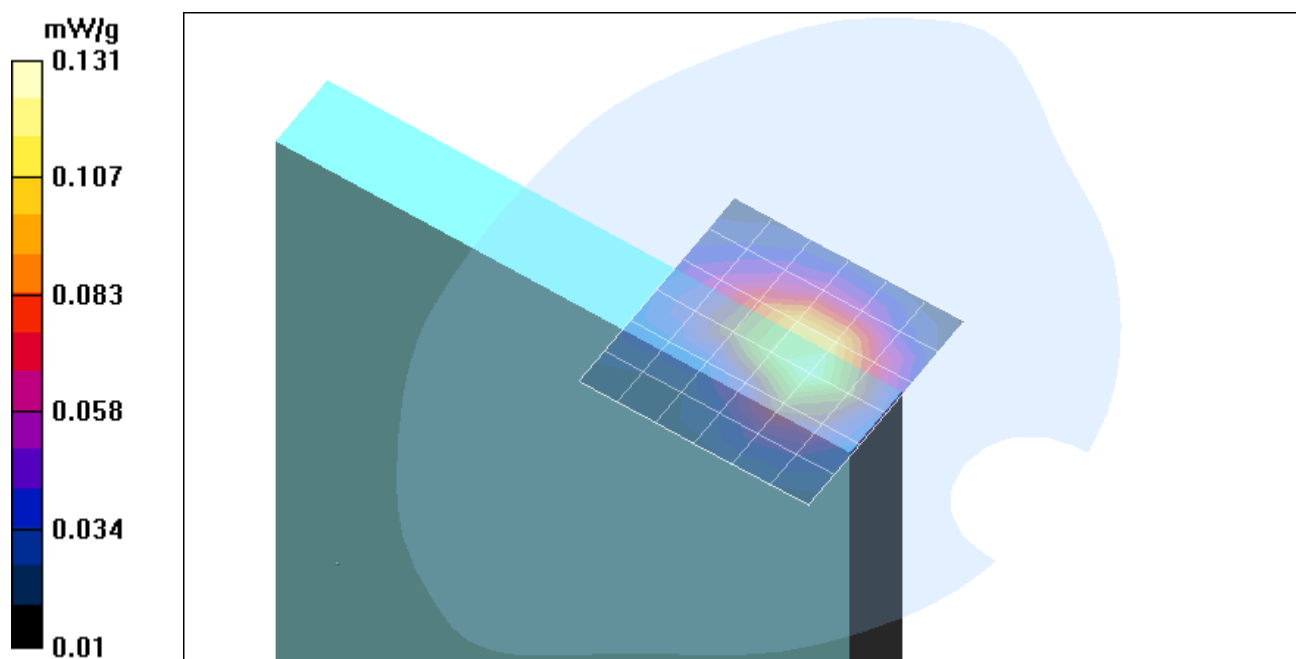


Fig. 10: SAR distribution for GSM 850, channel 190, Packard Bell Easy Note, position 3. (11.29.2004; Ambient Temperature: 21.5° C; Liquid Temperature: 20.5° C).

Test Laboratory: IMST GmbH; **File Name:** [Ricbalm 4 PB.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1579; ConvF(6.46, 6.46, 6.46); Calibrated: 01.09.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.140 mW/g

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

Reference Value = 10.3 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.242 W/kg

SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.077 mW/g

Maximum value of SAR (measured) = 0.142 mW/g

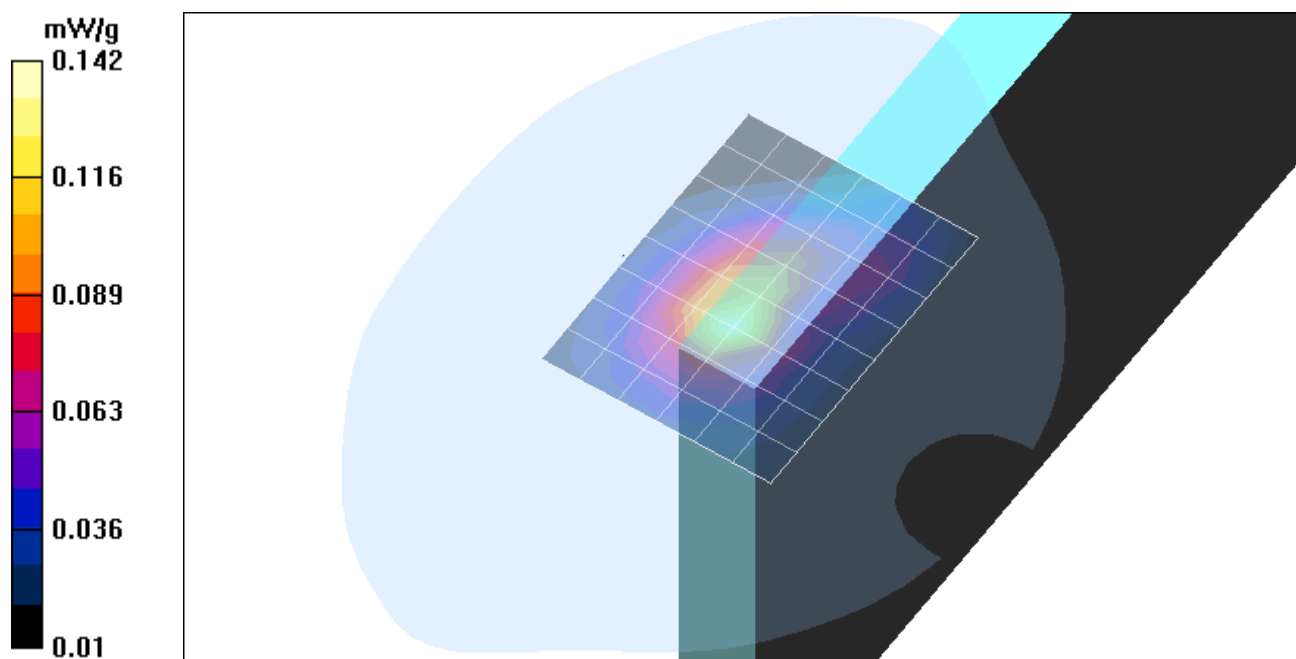


Fig. 11: SAR distribution for GSM 850, channel 190, Packard Bell Easy Note, position 4. (11.29.2004; Ambient Temperature: 21.6° C; Liquid Temperature: 20.5° C).

Test Laboratory: IMST GmbH; File Name: [Ricbalm_5_PB.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4
 Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.7$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1579; ConvF(6.46, 6.46, 6.46); Calibrated: 01.09.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.640 mW/g

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

Reference Value = 25.5 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 1.3 W/kg

SAR(1 g) = 0.621 mW/g; SAR(10 g) = 0.347 mW/g

Maximum value of SAR (measured) = 0.690 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.5 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.695 W/kg

SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.235 mW/g

Maximum value of SAR (measured) = 0.424 mW/g

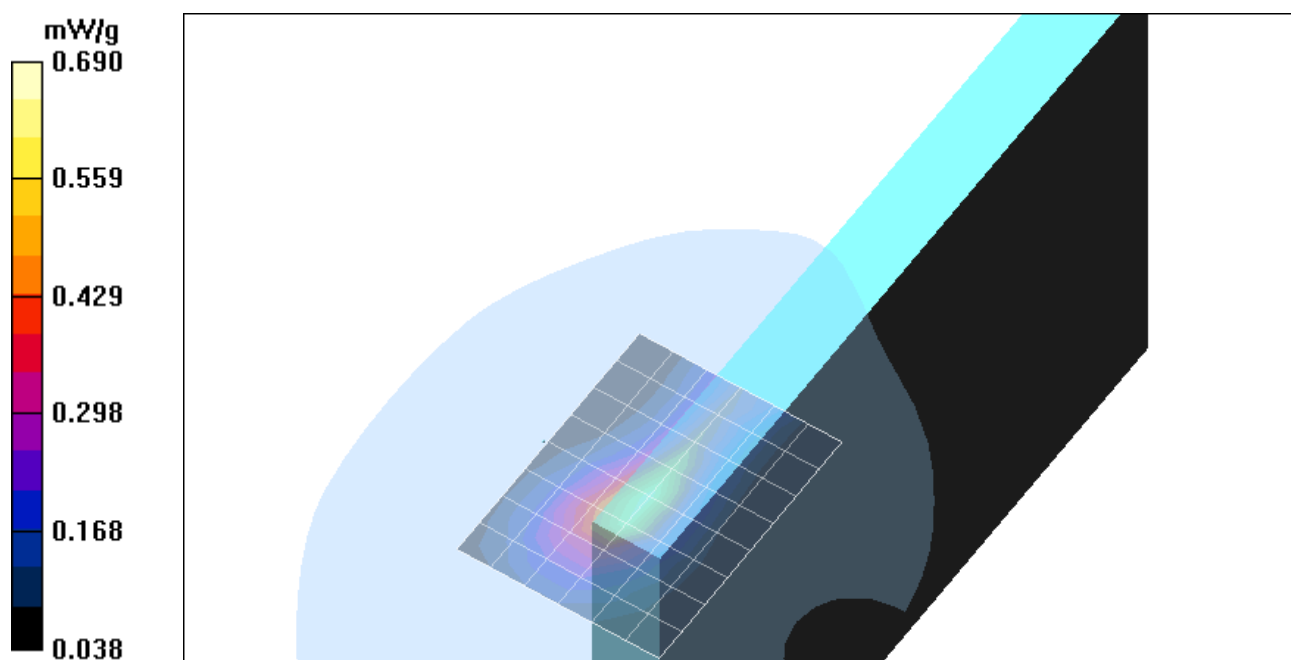


Fig. 12: SAR distribution for GSM 850, channel 190, Packard Bell Easy Note, position 5. (11.29.2004; Ambient Temperature: 21.6° C; Liquid Temperature: 20.5° C).

Test Laboratory: IMST GmbH; File Name: [ricbahm_1_Acer.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(6.32, 6.32, 6.32); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.696 mW/g

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

Reference Value = 9.57 V/m; Power Drift = -0.039 dB

Peak SAR (extrapolated) = 0.920 W/kg

SAR(1 g) = 0.685 mW/g; SAR(10 g) = 0.486 mW/g

Maximum value of SAR (measured) = 0.730 mW/g

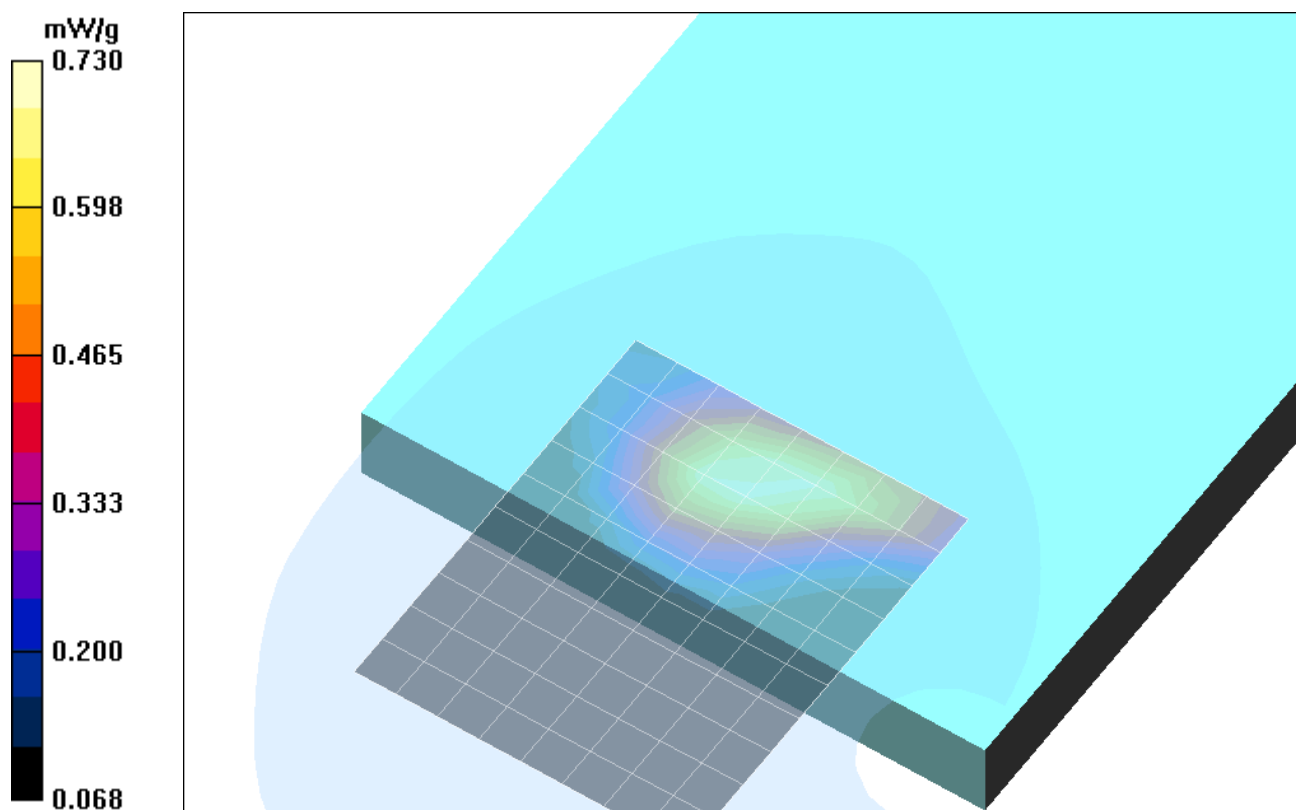


Fig. 13: SAR distribution for GSM 850, channel 190, Acer Aspire 2020, position 1. (11.25.2004; Ambient Temperature: 21.1° C; Liquid Temperature: 20.3° C).

Test Laboratory: IMST GmbH; File Name: [Ricbghm 2 Acer.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(6.32, 6.32, 6.32); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.603 mW/g

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

Reference Value = 16.5 V/m; Power Drift = -0.099 dB

Peak SAR (extrapolated) = 0.817 W/kg

SAR(1 g) = 0.597 mW/g; SAR(10 g) = 0.411 mW/g

Maximum value of SAR (measured) = 0.640 mW/g

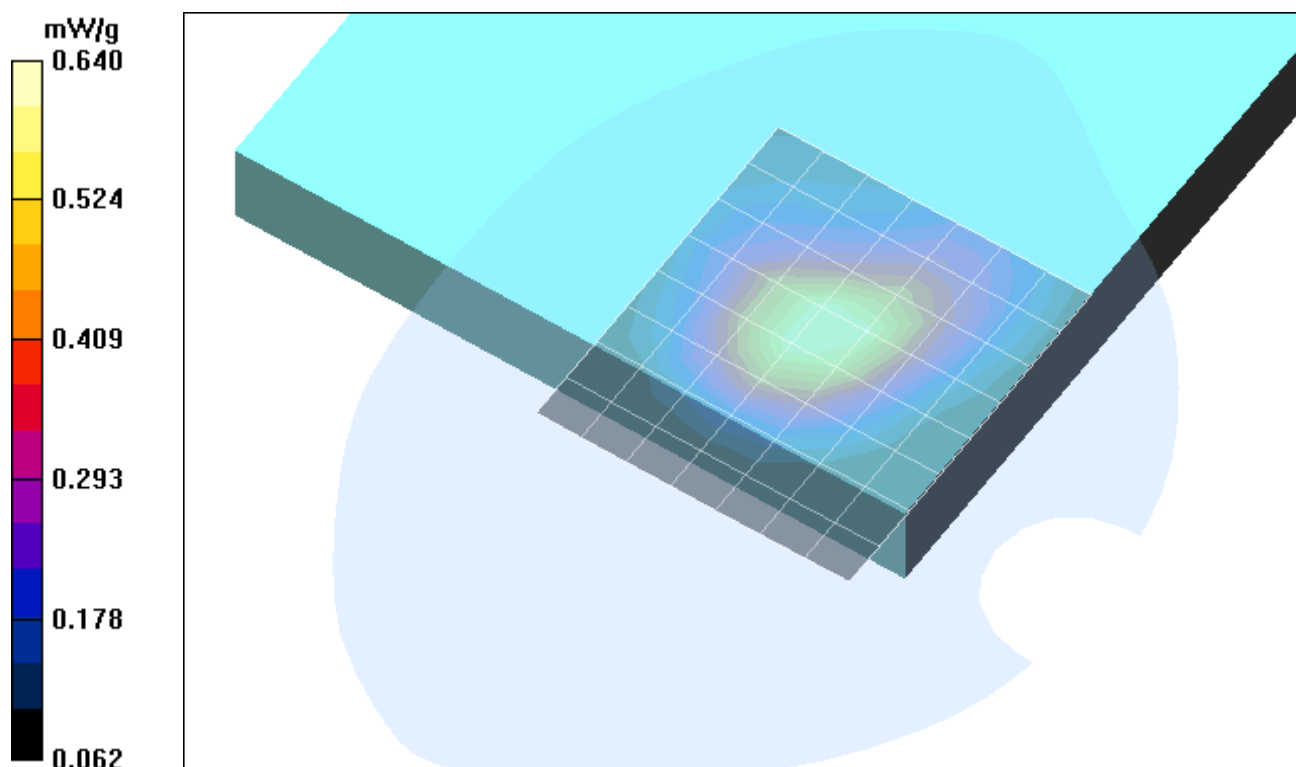


Fig. 14: SAR distribution for GSM 850, channel 190, Acer Aspire 2020, position 2. (11.25.2004; Ambient Temperature: 21.1° C; Liquid Temperature: 20.3° C).

Test Laboratory: IMST GmbH; File Name: [Ricbghm 3 Acer.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(6.32, 6.32, 6.32); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 9.52 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 0.138 W/kg

SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.056 mW/g

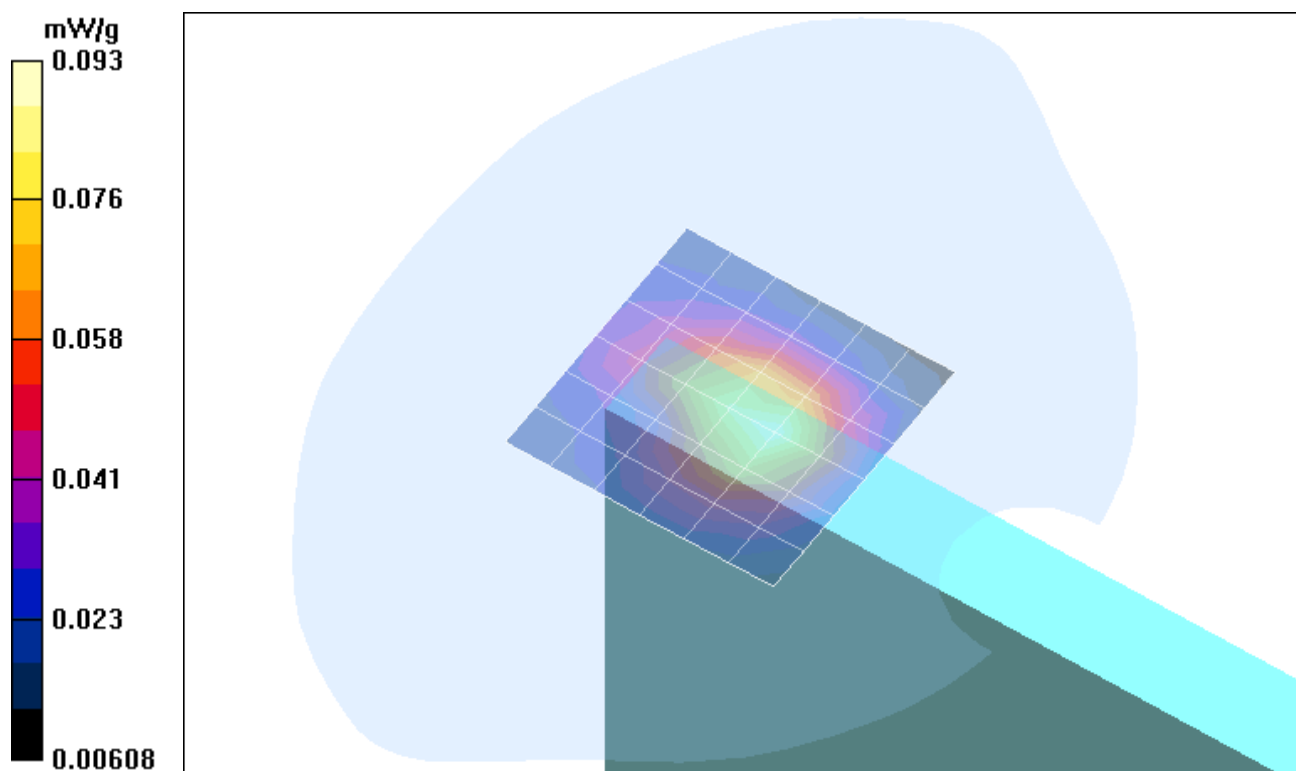


Fig. 15: SAR distribution for GSM 850, channel 190, Acer Aspire 2020, position 3. (11.25.2004; Ambient Temperature: 21.1° C; Liquid Temperature: 20.3° C).

Test Laboratory: IMST GmbH; File Name: [Ricbghm 4 Acer.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(6.32, 6.32, 6.32); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.433 mW/g

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

Reference Value = 20.1 V/m; Power Drift = -0.179 dB

Peak SAR (extrapolated) = 0.650 W/kg

SAR(1 g) = 0.396 mW/g; SAR(10 g) = 0.243 mW/g

Maximum value of SAR (measured) = 0.426 mW/g

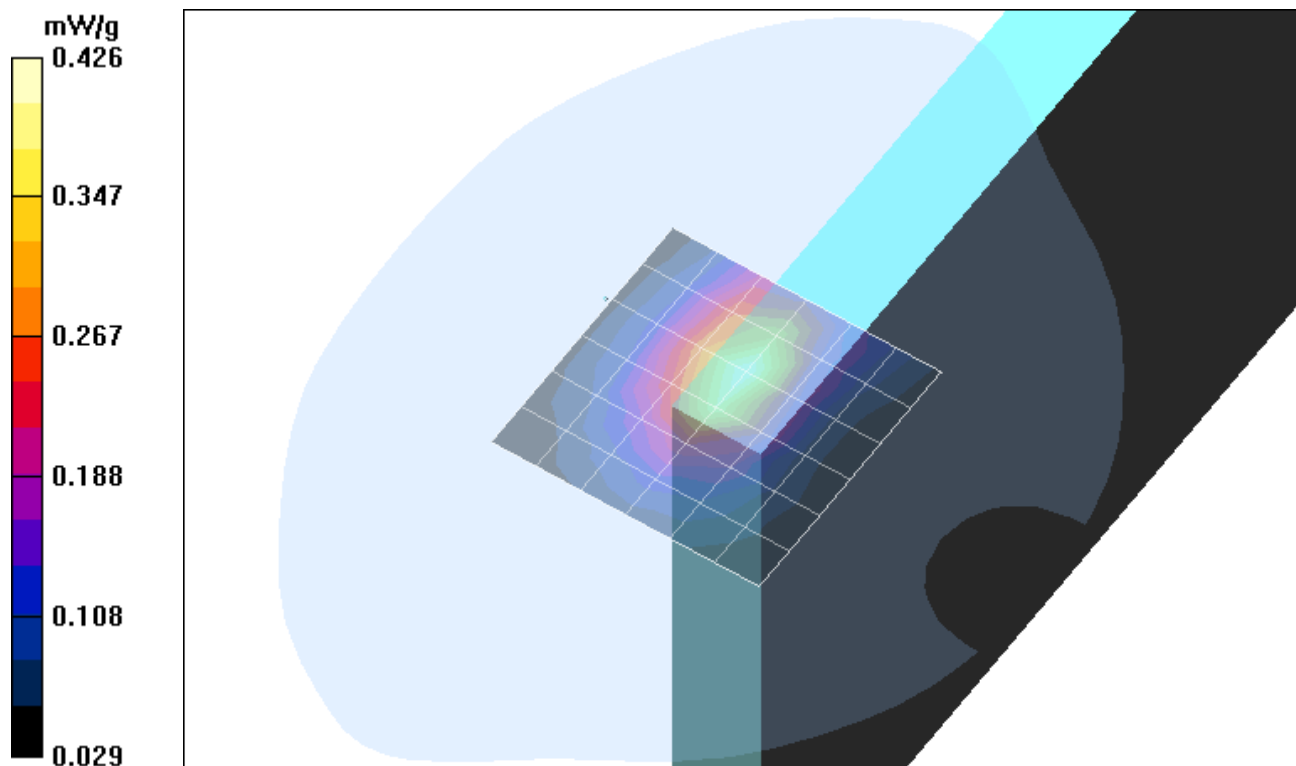


Fig. 16: SAR distribution for GSM 850, channel 190, Acer Aspire 2020, position 4. (11.25.2004; Ambient Temperature: 21.2° C; Liquid Temperature: 20.3° C).

Test Laboratory: IMST GmbH; File Name: [Ricbghm 5 Acer.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.01$; mho/m, $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(6.32, 6.32, 6.32); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.104 mW/g

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

Reference Value = 8 V/m; Power Drift = -0.138 dB

Peak SAR (extrapolated) = 0.255 W/kg

SAR(1 g) = 0.124 mW/g; SAR(10 g) = 0.070 mW/g

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

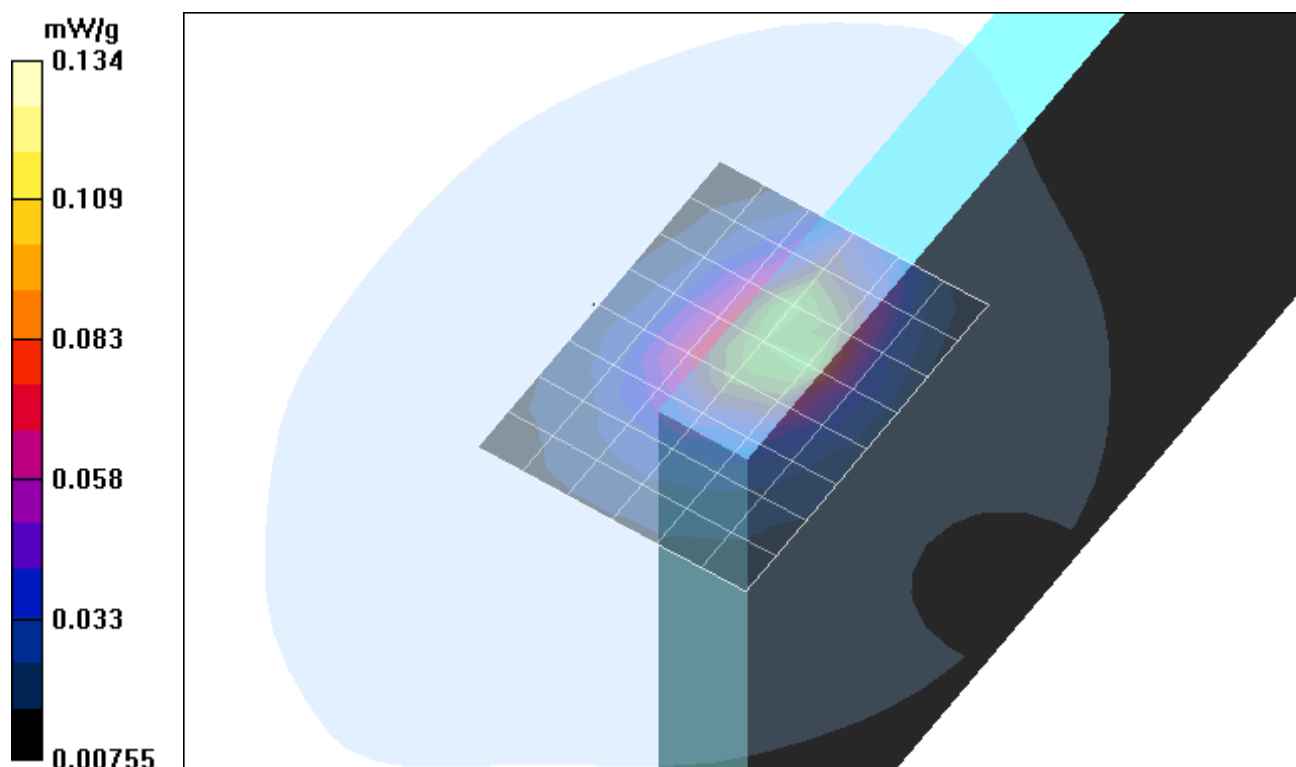


Fig. 17: SAR distribution for GSM 850, channel 190, Acer Aspire 2020, position 5. (11.25.2004; Ambient Temperature: 21.2° C; Liquid Temperature: 20.3° C).

2 SAR Distribution Plots, GSM 1900 Body

Test Laboratory: IMST GmbH; File Name: [Richphm_1_dell.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.19 mW/g

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

Reference Value = 29.5 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 2.14 W/kg

SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.754 mW/g

Maximum value of SAR (measured) = 1.41 mW/g

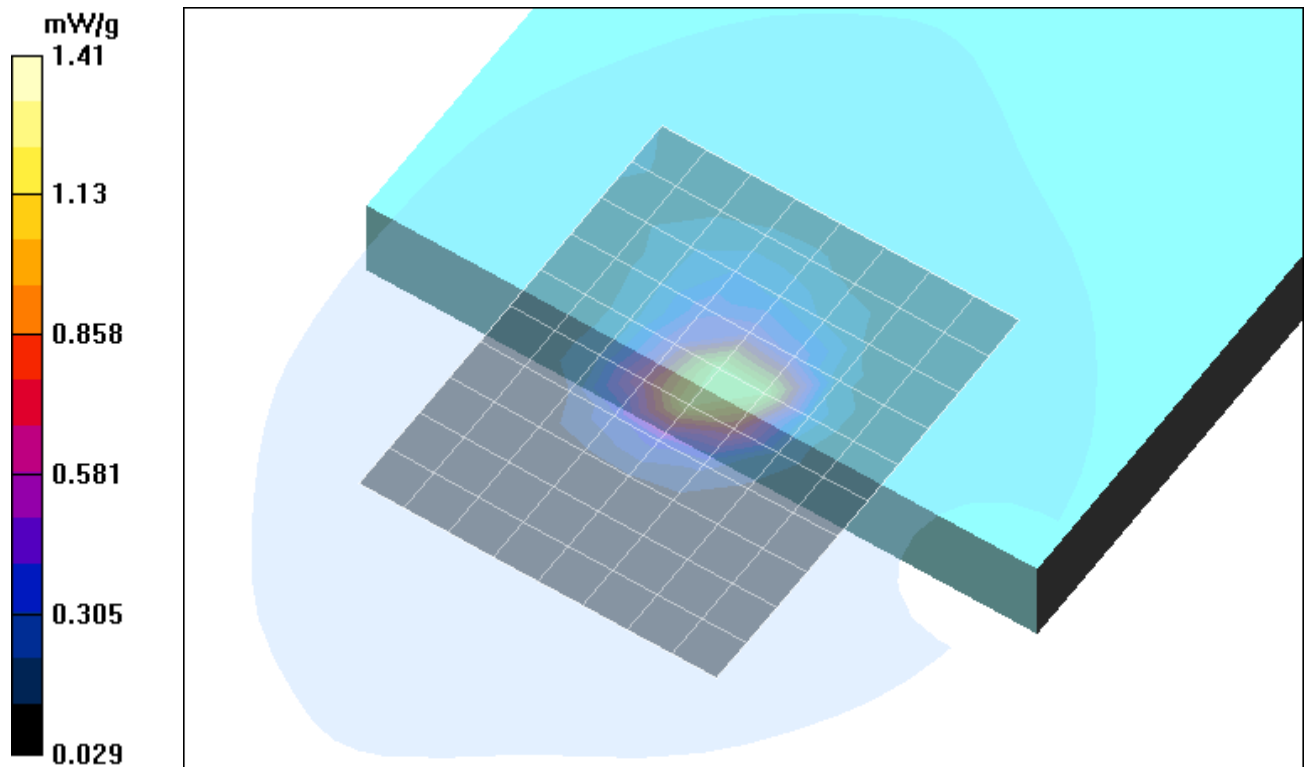


Fig. 18: SAR distribution for PCS 1900, channel 661, DELL Latitude D505, position 1. (11.24.2004; Ambient Temperature: 21.3° C; Liquid Temperature: 20.5° C).

Test Laboratory: IMST GmbH; File Name: [Ricbphm_2_dell.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.594 mW/g

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

Reference Value = 10.1 V/m; Power Drift = 0.116 dB

Peak SAR (extrapolated) = 0.848 W/kg

SAR(1 g) = 0.559 mW/g; SAR(10 g) = 0.339 mW/g

Maximum value of SAR (measured) = 0.614 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.1 V/m; Power Drift = 0.116 dB

Peak SAR (extrapolated) = 0.527 W/kg

SAR(1 g) = 0.320 mW/g; SAR(10 g) = 0.204 mW/g

Maximum value of SAR (measured) = 0.391 mW/g

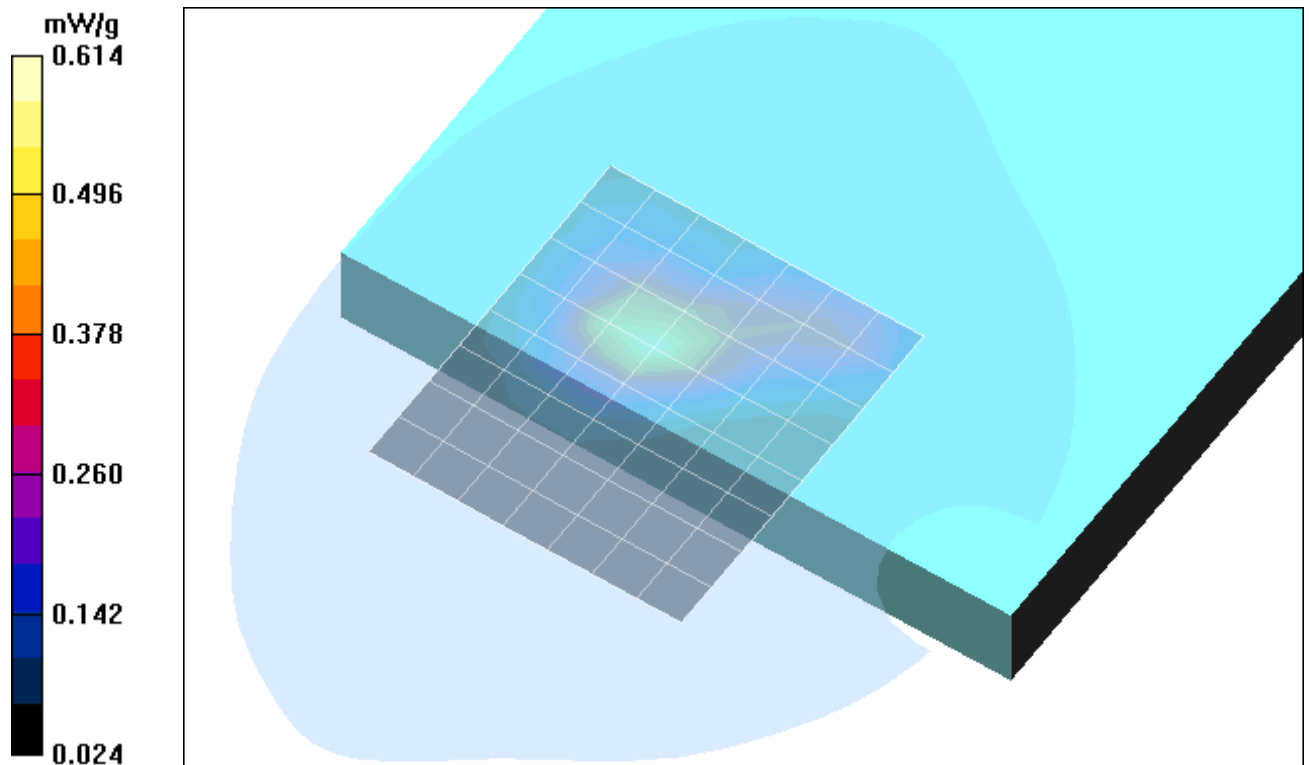


Fig. 19: SAR distribution for PCS 1900, channel 661, DELL Latitude D505, position 2. (11.24.2004; Ambient Temperature: 21.5° C; Liquid Temperature: 20.5° C).

Test Laboratory: IMST GmbH; File Name: [Ricbphm_3_dell.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.597 mW/g

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

Reference Value = 21.1 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.908 W/kg

SAR(1 g) = 0.597 mW/g; SAR(10 g) = 0.352 mW/g

Maximum value of SAR (measured) = 0.656 mW/g

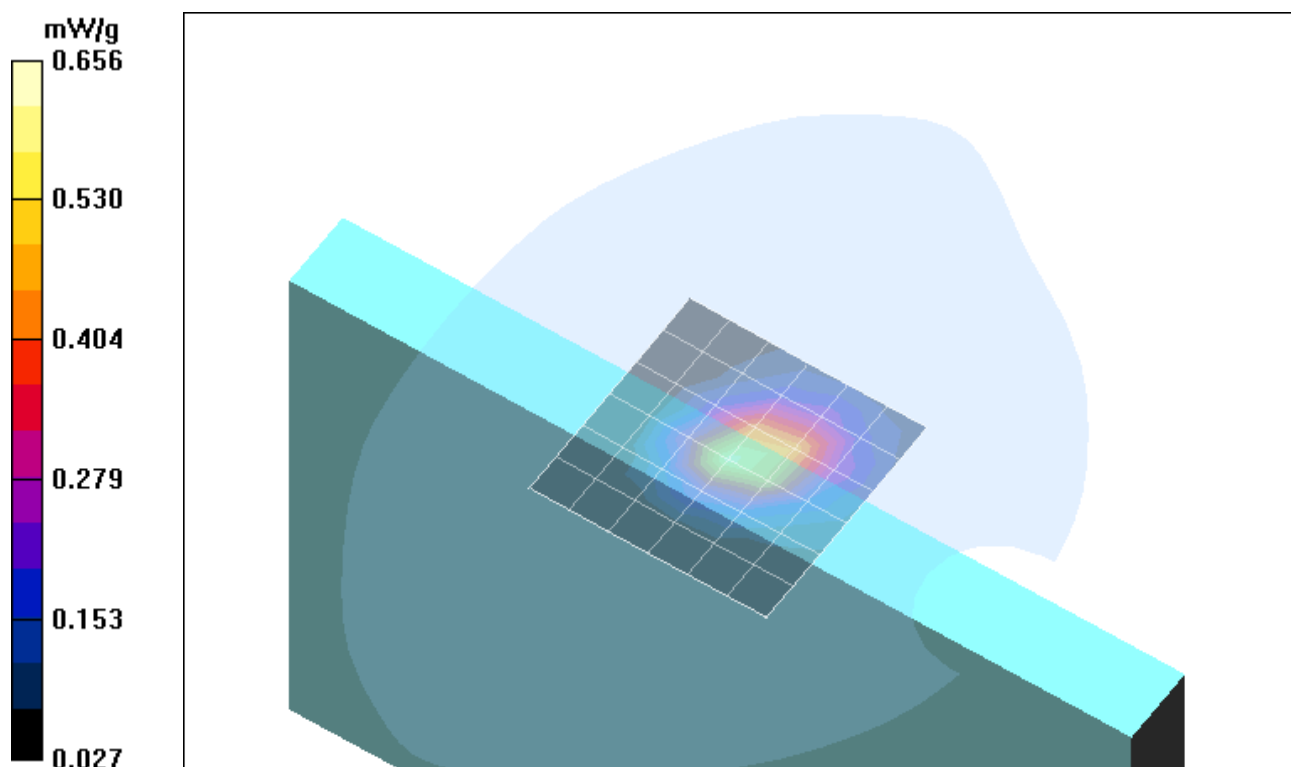


Fig. 20: SAR distribution for PCS 1900, channel 661, DELL Latitude D505, position 3. (11.24.2004; Ambient Temperature: 21.5° C; Liquid Temperature: 20.5° C).

Test Laboratory: IMST GmbH; File Name: [Ricbphm 4 dell.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.168 mW/g

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

Reference Value = 9.85 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.329 W/kg

SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.063 mW/g

Maximum value of SAR (measured) = 0.179 mW/g

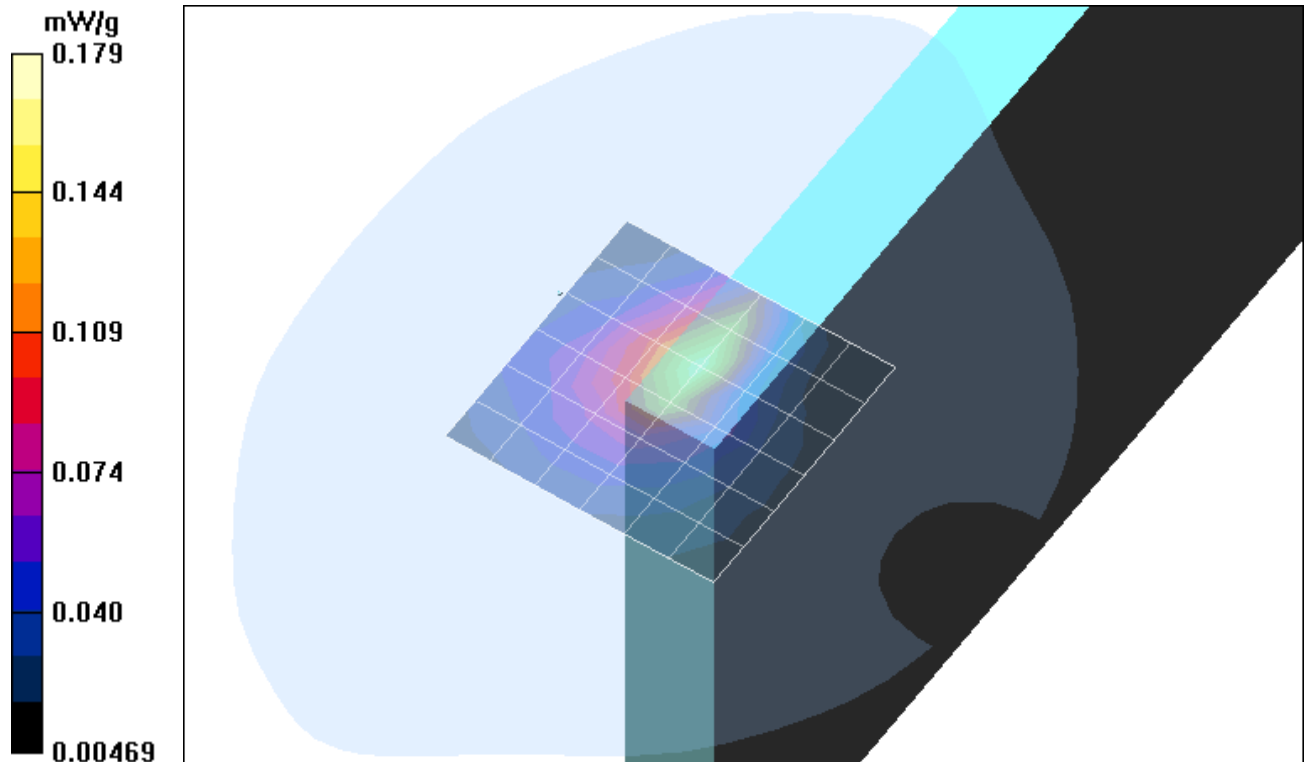


Fig. 21: SAR distribution for PCS 1900, channel 661, DELL Latitude D505, position 4. (11.24.2004; Ambient Temperature: 21.8° C; Liquid Temperature: 20.6° C).

Test Laboratory: IMST GmbH; File Name: [Ricbphm 5 dell.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.102 mW/g

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

Reference Value = 8.58 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.142 W/kg

SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.040 mW/g

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

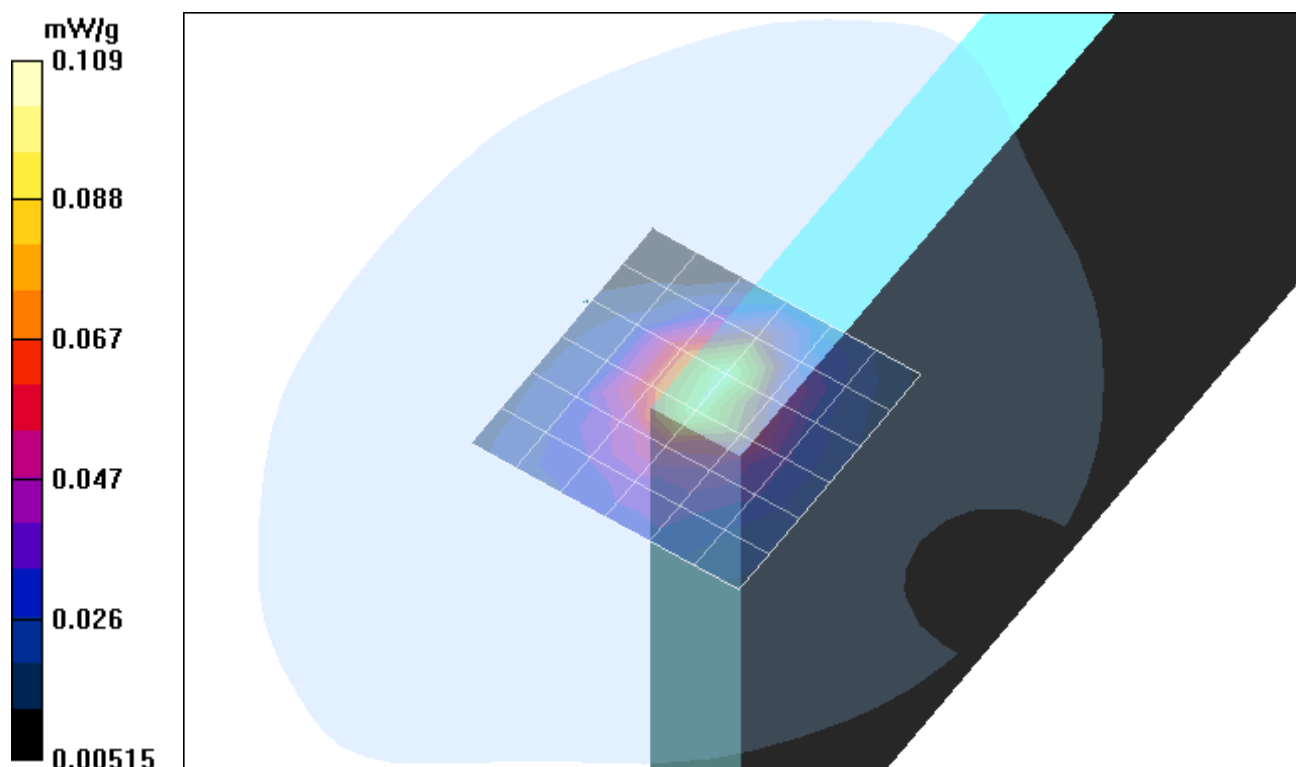


Fig. 22: SAR distribution for PCS 1900, channel 661, DELL Latitude D505, position 5. (11.24.2004; Ambient Temperature: 21.8° C; Liquid Temperature: 20.7° C).

Test Laboratory: IMST GmbH; File Name: [ricbphl_1_dell.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.37 mW/g

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

Reference Value = 26.9 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.758 mW/g

Maximum value of SAR (measured) = 1.39 mW/g

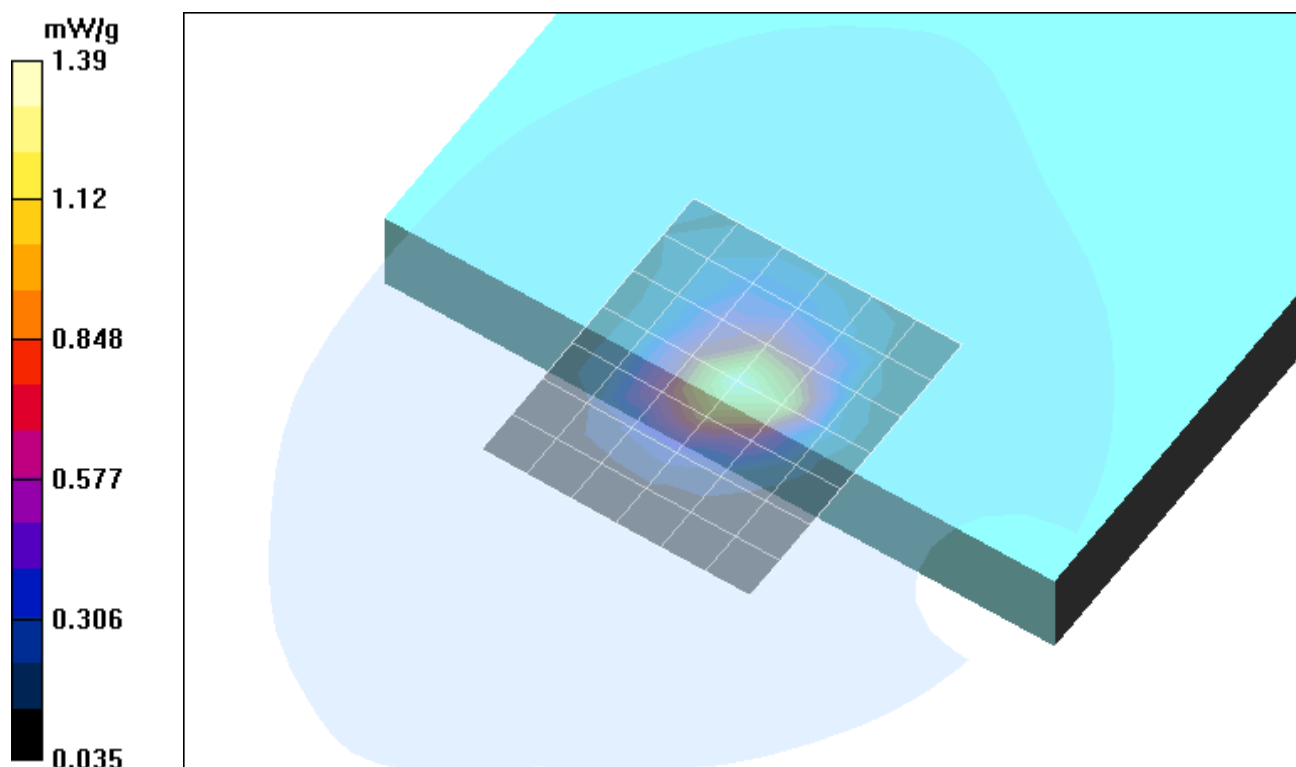


Fig. 23: SAR distribution for PCS 1900, channel 512, DELL Latitude D505, position 1. (11.24.2004; Ambient Temperature: 21.7° C; Liquid Temperature: 20.7° C).

Test Laboratory: IMST GmbH; File Name: [ricbphh_1_dell.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.07 mW/g

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

Reference Value = 24.3 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.626 mW/g

Maximum value of SAR (measured) = 1.19 mW/g

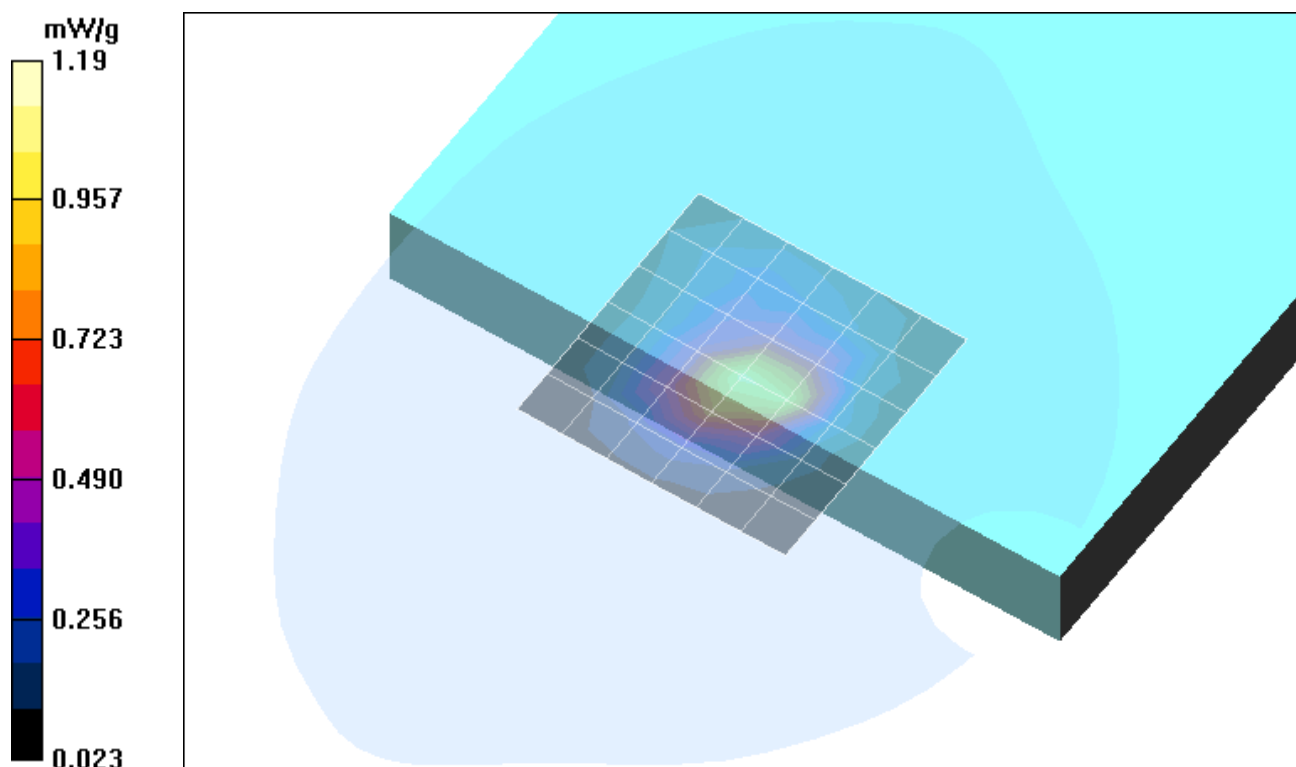


Fig. 24: SAR distribution for PCS 1900, channel 810, DELL Latitude D505, position 1. (11.24.2004; Ambient Temperature: 21.7° C; Liquid Temperature: 20.7° C).

Test Laboratory: IMST GmbH; File Name: [Ricbphm 1 PB.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (9x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.17 mW/g

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

Reference Value = 30.5 V/m; Power Drift = 0.052 dB

Peak SAR (extrapolated) = 2.33 W/kg

SAR(1 g) = 1.37 mW/g; SAR(10 g) = 0.789 mW/g

Maximum value of SAR (measured) = 1.52 mW/g

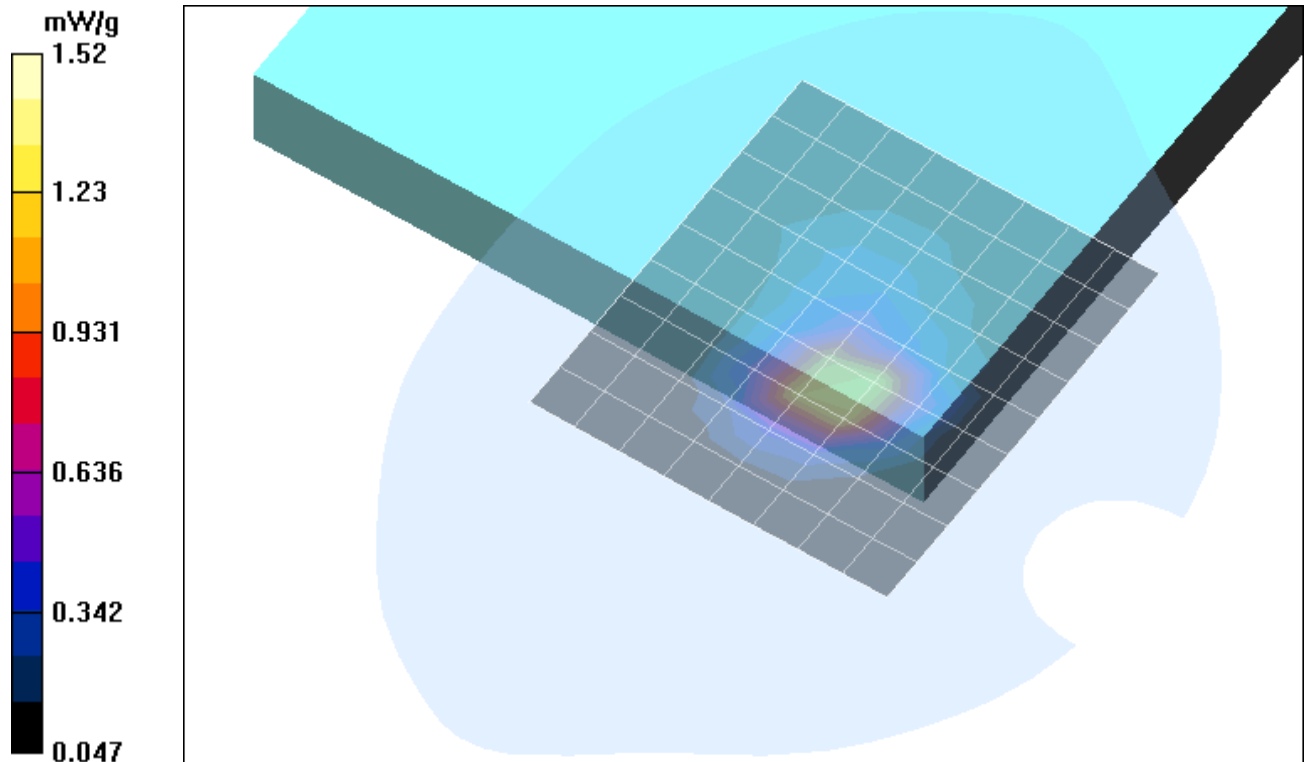


Fig. 25: SAR distribution for PCS 1900, channel 661, Packard Bell Easy Note, position 1. (11.24.2004; Ambient Temperature: 21.2° C; Liquid Temperature: 20.5° C).

Test Laboratory: IMST GmbH; File Name: [Ricbphm_2_PB.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (9x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.503 mW/g

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

Reference Value = 8.62 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.705 W/kg

SAR(1 g) = 0.498 mW/g; SAR(10 g) = 0.323 mW/g

Maximum value of SAR (measured) = 0.536 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.62 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.705 W/kg

SAR(1 g) = 0.467 mW/g; SAR(10 g) = 0.295 mW/g

Maximum value of SAR (measured) = 0.522 mW/g

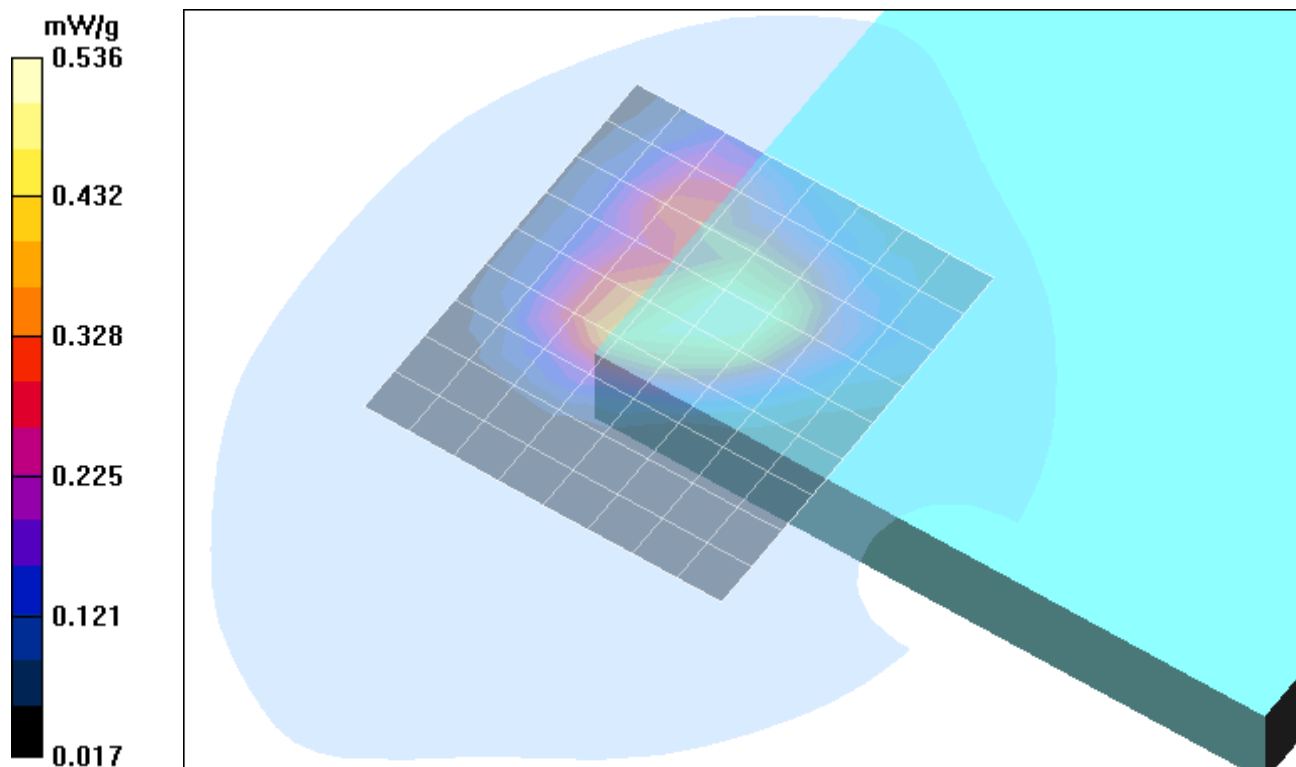


Fig. 26: SAR distribution for PCS 1900, channel 661, Packard Bell Easy Note, position 2. (11.24.2004; Ambient Temperature: 21.7° C; Liquid Temperature: 20.6° C).

Test Laboratory: IMST GmbH; File Name: [Ricbphm 3 PB.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz;Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.577 mW/g

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

Reference Value = 20.8 V/m; Power Drift = -0.058 dB

Peak SAR (extrapolated) = 0.877 W/kg

SAR(1 g) = 0.556 mW/g; SAR(10 g) = 0.334 mW/g

Maximum value of SAR (measured) = 0.612 mW/g

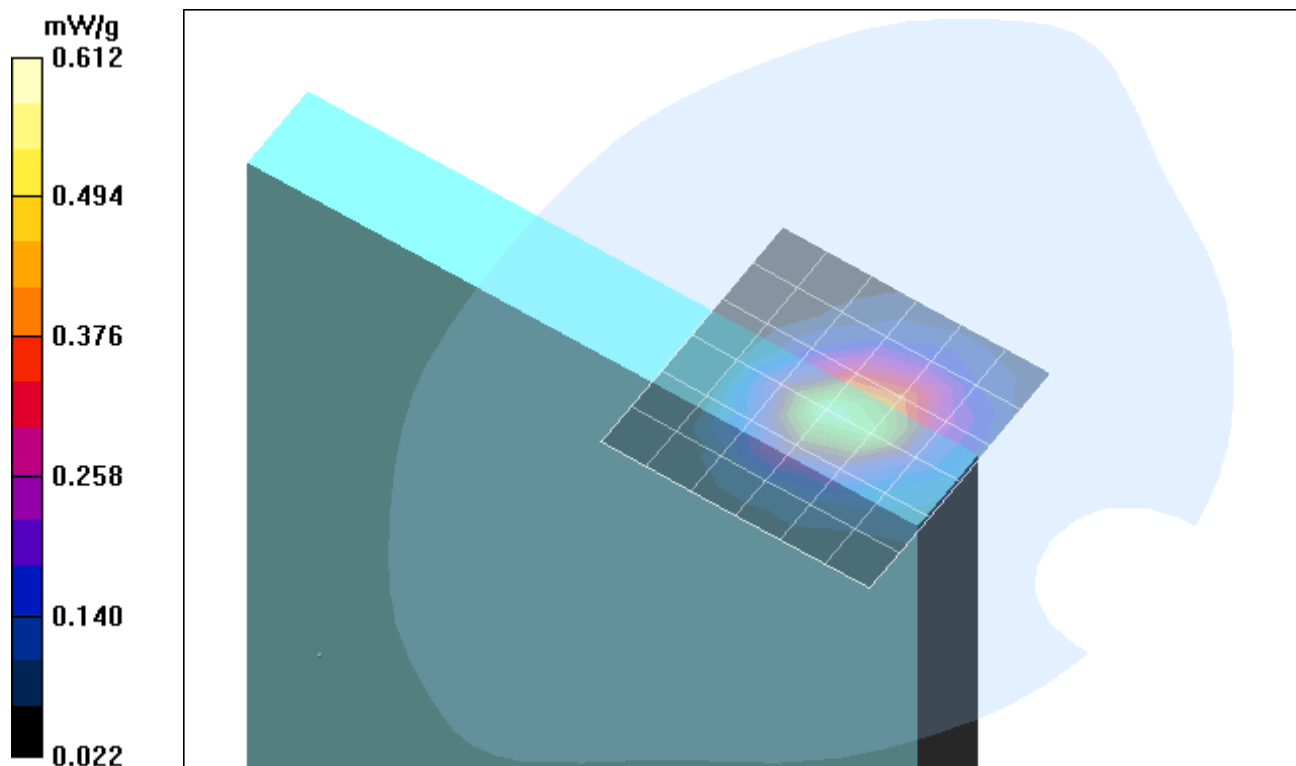


Fig. 27: SAR distribution for PCS 1900, channel 661, Packard Bell Easy Note, position 3. (11.24.2004; Ambient Temperature: 21.7° C; Liquid Temperature: 20.6° C).

Test Laboratory: IMST GmbH; File Name: [Ricbphm 4 PB.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.157 mW/g

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

Reference Value = 7.62 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.225 W/kg

SAR(1 g) = 0.090 mW/g; SAR(10 g) = 0.037 mW/g

Maximum value of SAR (measured) = 0.153 mW/g

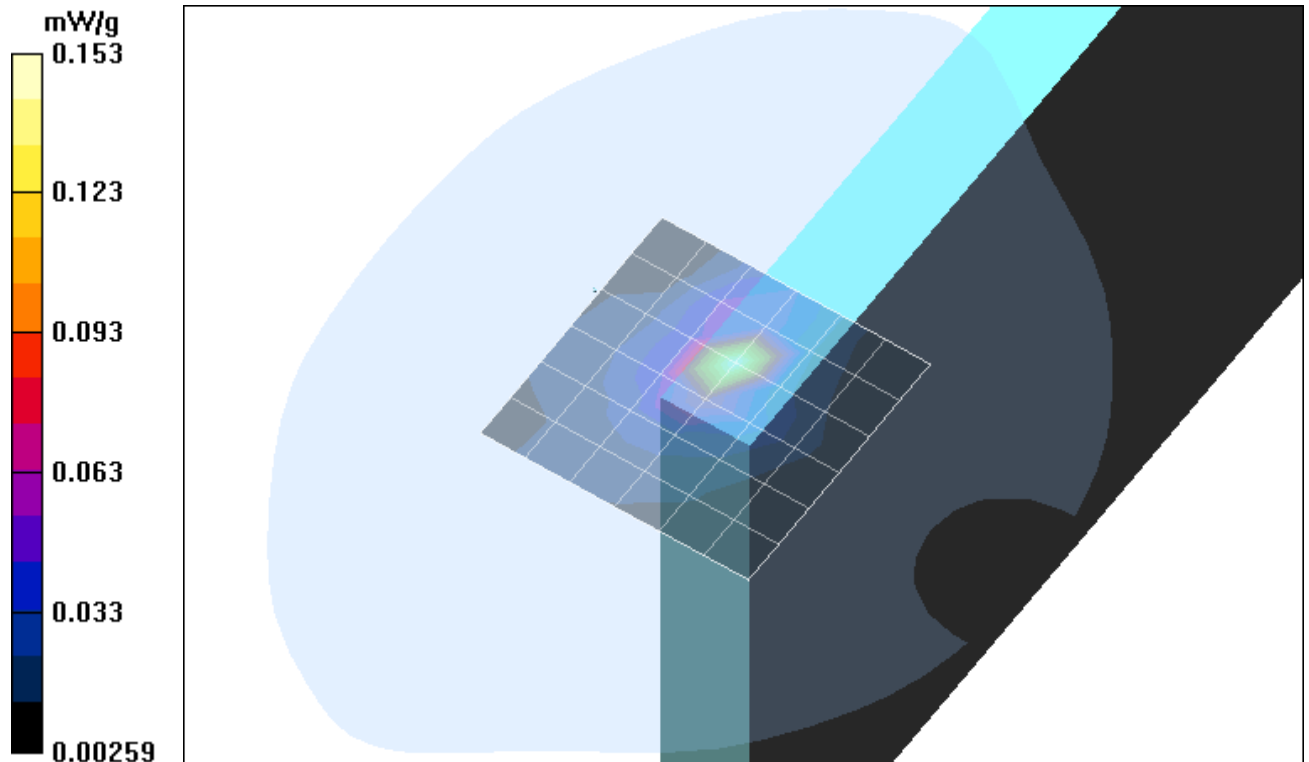


Fig. 28: SAR distribution for PCS 1900, channel 661, Packard Bell Easy Note, position 4. (11.24.2004; Ambient Temperature: 21.7° C; Liquid Temperature: 20.7° C).

Test Laboratory: IMST GmbH; File Name: [Ricbphm 5 PB.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.758 mW/g

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

Reference Value = 18.1 V/m; Power Drift = -0.105 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.671 mW/g; SAR(10 g) = 0.354 mW/g

Maximum value of SAR (measured) = 0.760 mW/g

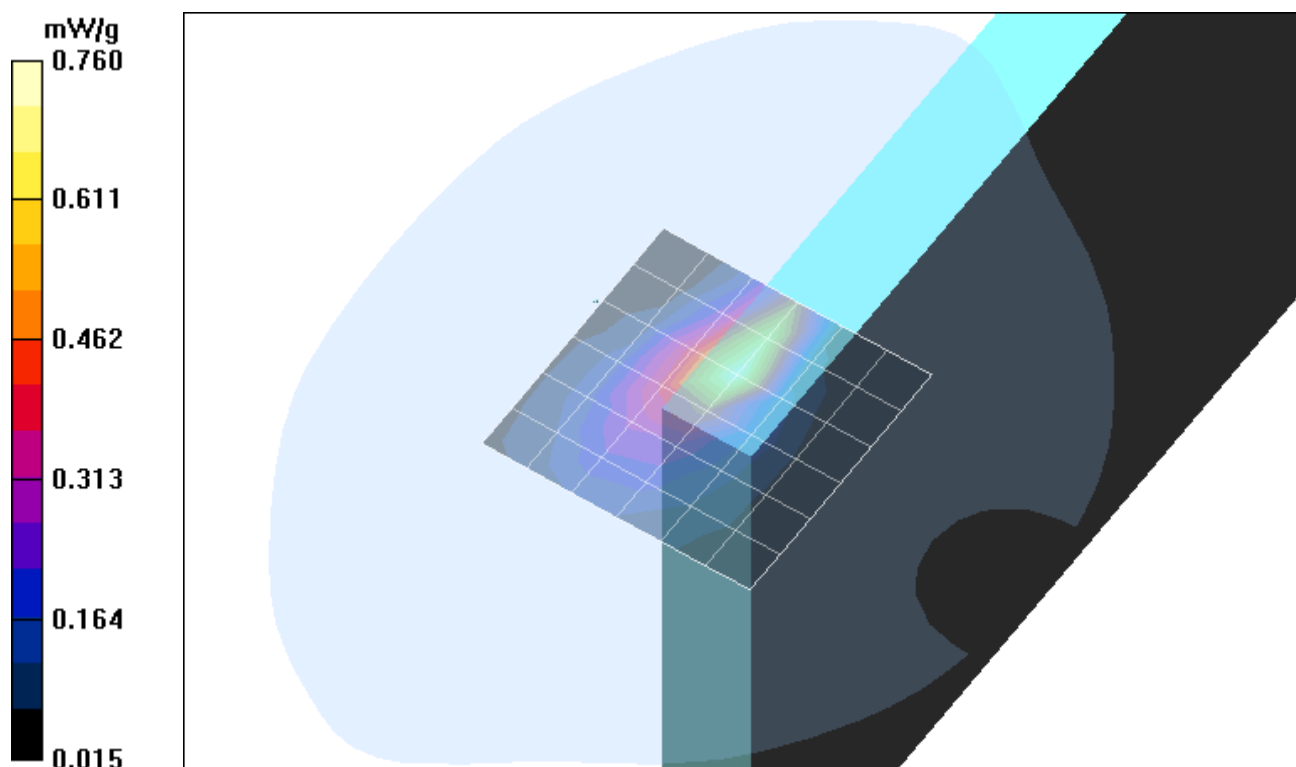


Fig. 29: SAR distribution for PCS 1900, channel 661, Packard Bell Easy Note, position 5. (11.24.2004; Ambient Temperature: 21.8° C; Liquid Temperature: 20.7° C).

Test Laboratory: IMST GmbH; File Name: [Ricbphl_1_PB.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

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

Maximum value of SAR (measured) = 1.32 mW/g

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

Reference Value = 32.1 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 2.41 W/kg

SAR(1 g) = 1.47 mW/g; SAR(10 g) = 0.853 mW/g

Maximum value of SAR (measured) = 1.63 mW/g

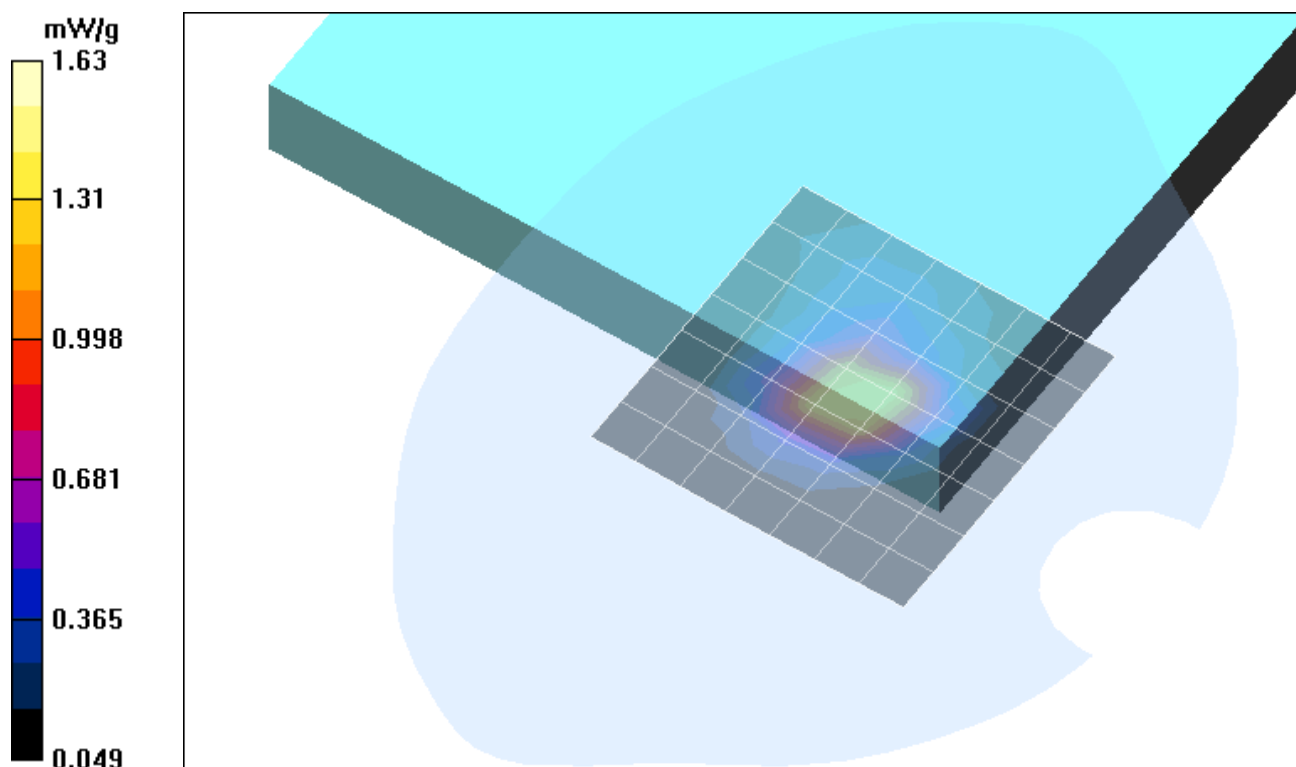


Fig. 30: SAR distribution for PCS 1900, channel 512, Packard Bell Easy Note, position 1. (11.24.2004; Ambient Temperature: 21.8° C; Liquid Temperature: 20.6° C).

Test Laboratory: IMST GmbH; File Name: [Ricbphh_1_PB.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

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

Maximum value of SAR (measured) = 1.08 mW/g

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

Reference Value = 29.1 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.684 mW/g

Maximum value of SAR (measured) = 1.34 mW/g

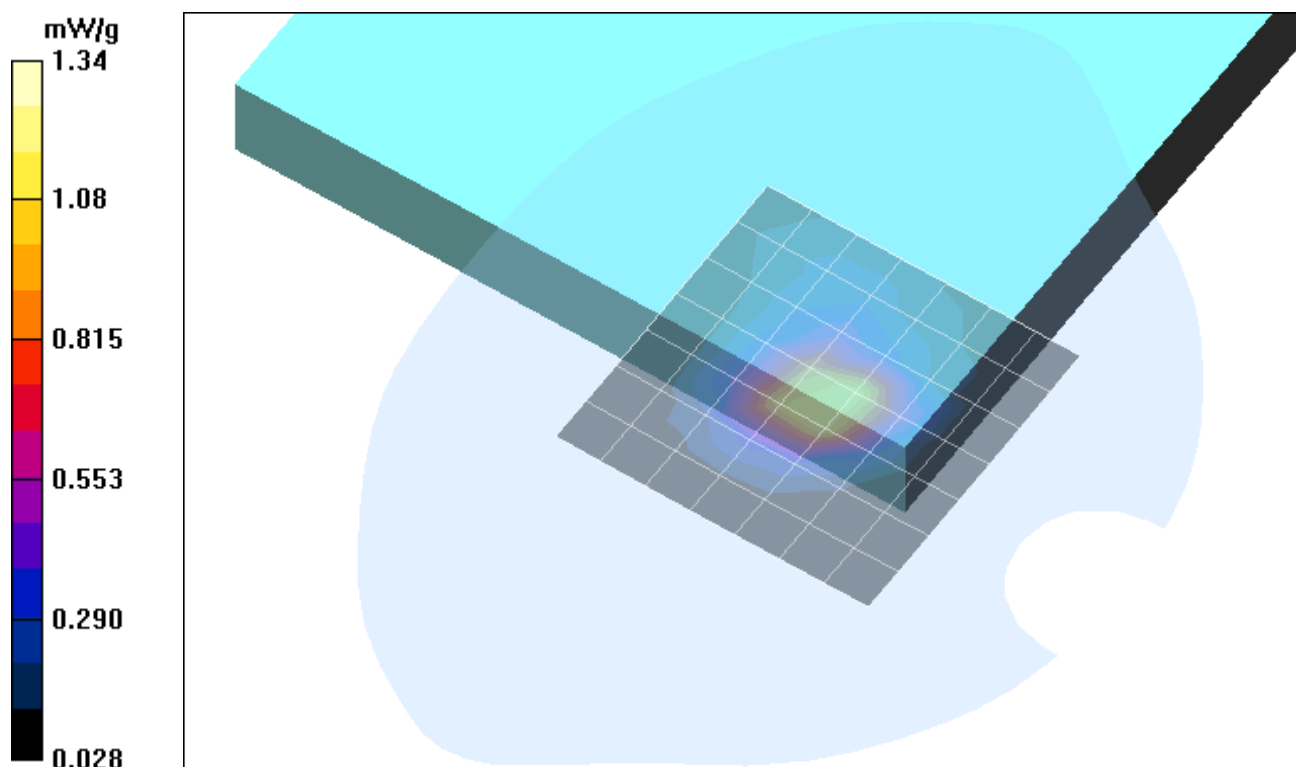


Fig. 31: SAR distribution for PCS 1900, channel 810, Packard Bell Easy Note, position 1. (11.24.2004; Ambient Temperature: 21.8° C; Liquid Temperature: 20.7° C).

Test Laboratory: IMST GmbH; File Name: [ricbphm_1_ARC.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.04 mW/g

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

Reference Value = 28.1 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.599 mW/g

Maximum value of SAR (measured) = 1.11 mW/g

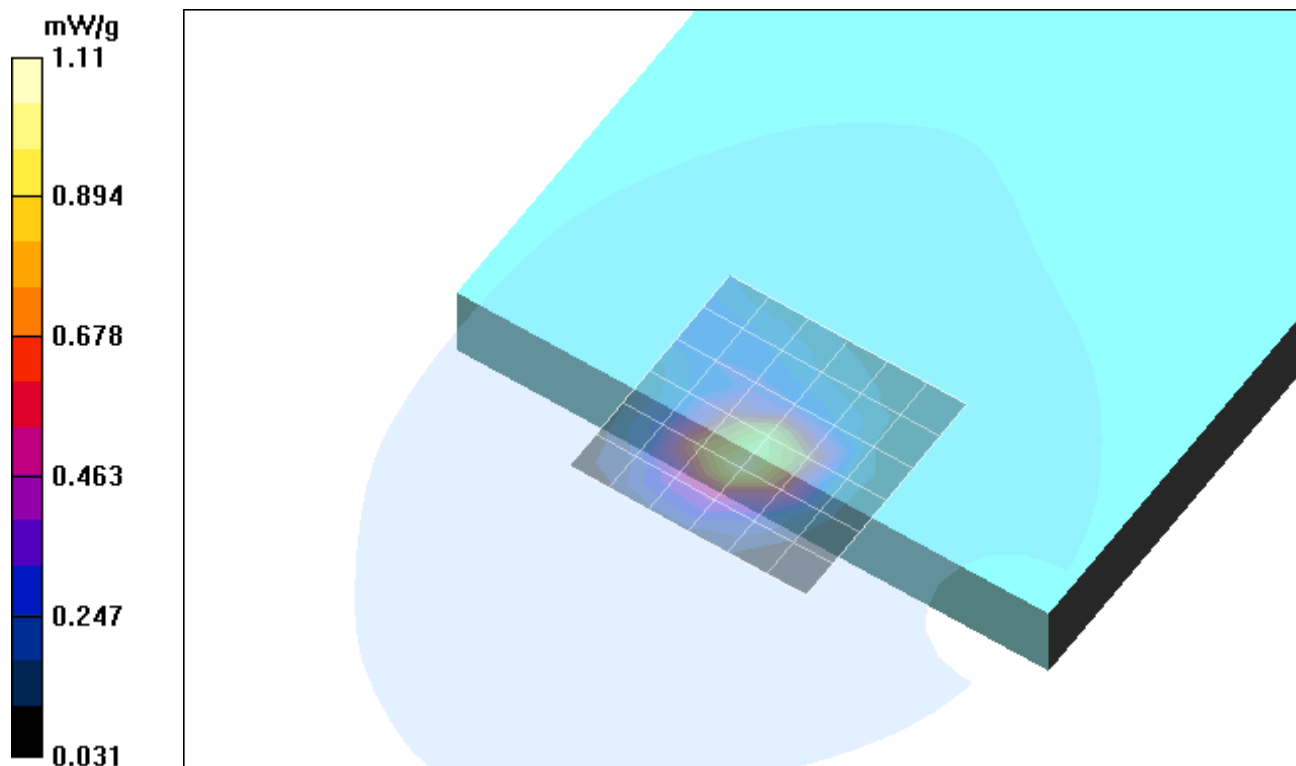


Fig. 32: SAR distribution for PCS 1900, channel 661, Acer Aspire 2020, position 1. (11.24.2004; Ambient Temperature: 21.9° C; Liquid Temperature: 20.6° C).

Test Laboratory: IMST GmbH; File Name: [Ricbphm_2_ARC.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.608 mW/g

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

Reference Value = 13.6 V/m; Power Drift = -0.115 dB

Peak SAR (extrapolated) = 0.886 W/kg

SAR(1 g) = 0.567 mW/g; SAR(10 g) = 0.350 mW/g

Maximum value of SAR (measured) = 0.613 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.6 V/m; Power Drift = -0.115 dB

Peak SAR (extrapolated) = 0.578 W/kg

SAR(1 g) = 0.362 mW/g; SAR(10 g) = 0.222 mW/g

Maximum value of SAR (measured) = 0.396 mW/g

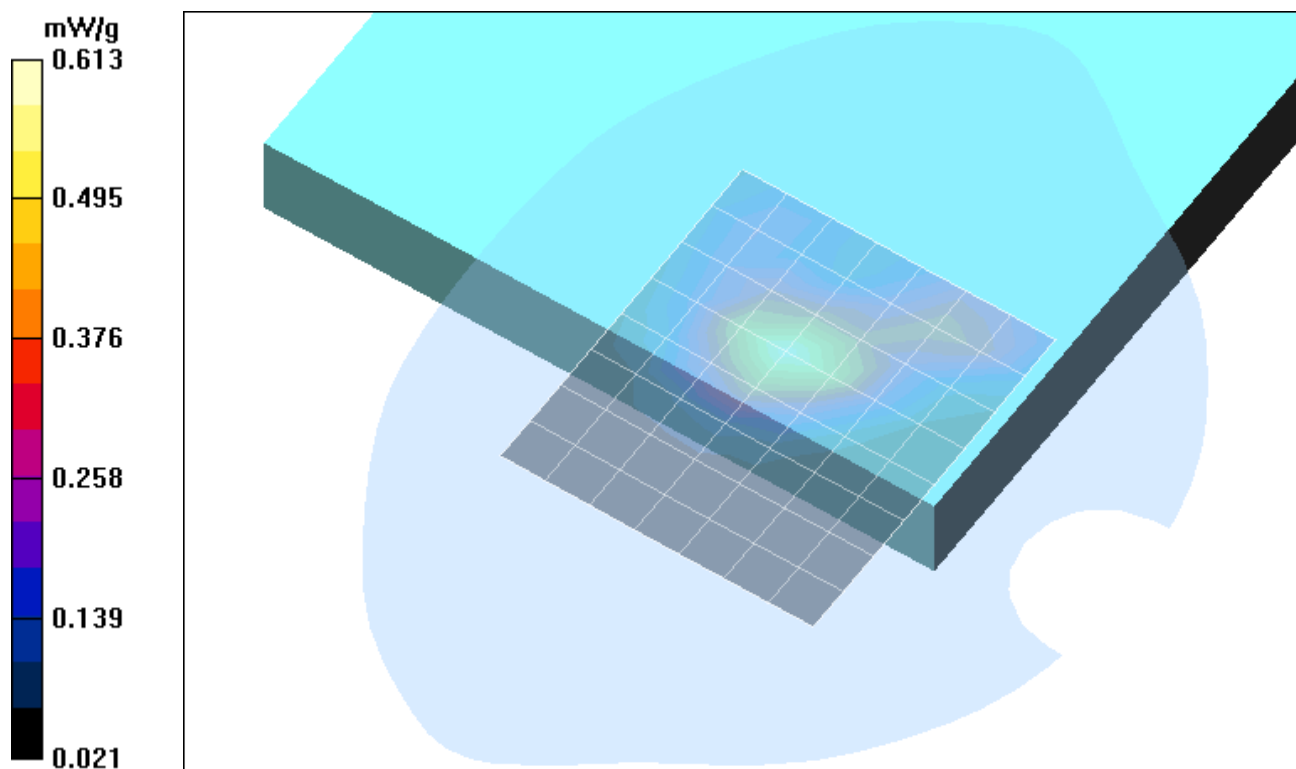


Fig. 33: SAR distribution for PCS 1900, channel 661, Acer Aspire 2020, position 2. (11.24.2004; Ambient Temperature: 21.7° C; Liquid Temperature: 20.2° C).

Test Laboratory: IMST GmbH; File Name: [Ricbphm 3 Acer.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.618 mW/g

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

Reference Value = 15.5 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 0.934 W/kg

SAR(1 g) = 0.604 mW/g; SAR(10 g) = 0.356 mW/g

Maximum value of SAR (measured) = 0.666 mW/g

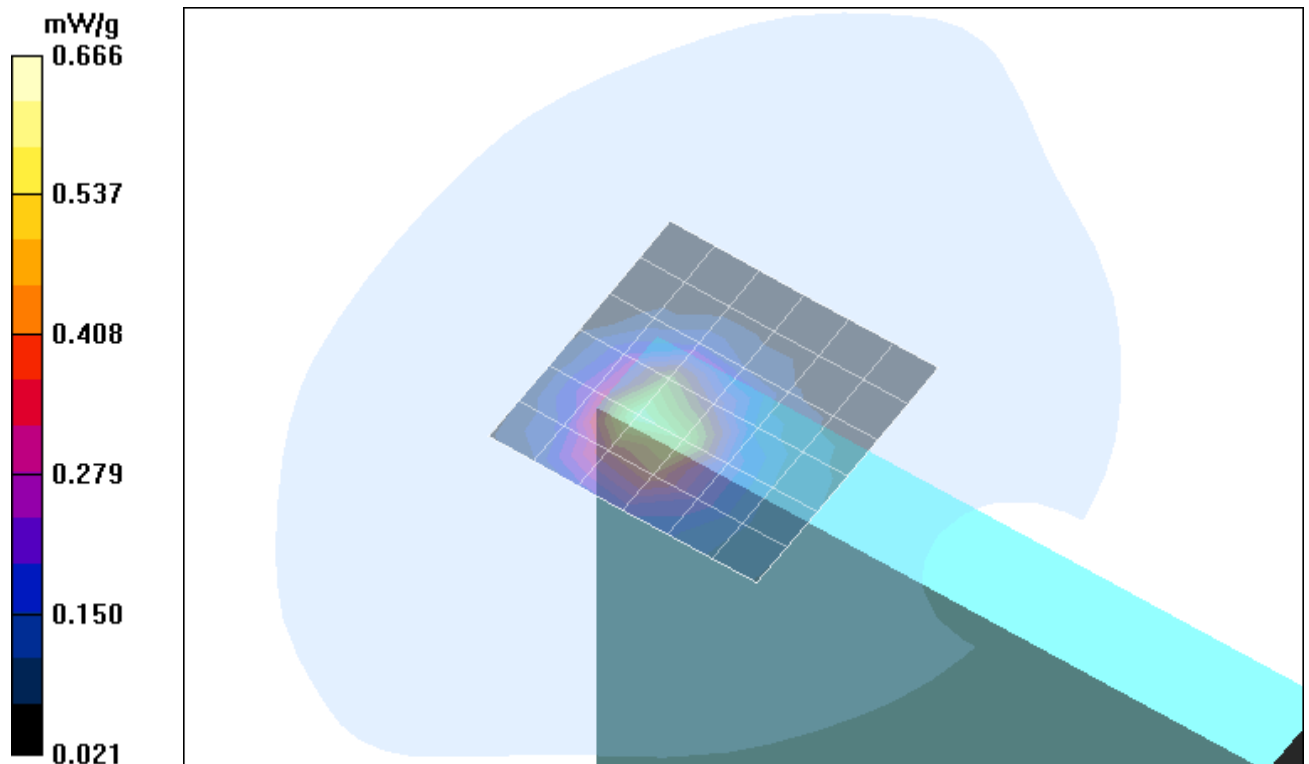


Fig. 34: SAR distribution for PCS 1900, channel 661, Acer Aspire 2020, position 3. (11.24.2004; Ambient Temperature: 21.7° C; Liquid Temperature: 20.2° C).

Test Laboratory: IMST GmbH; File Name: [Ricbphm 4 Acer.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 12.5 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 0.615 W/kg

SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.135 mW/g

Maximum value of SAR (measured) = 0.402 mW/g

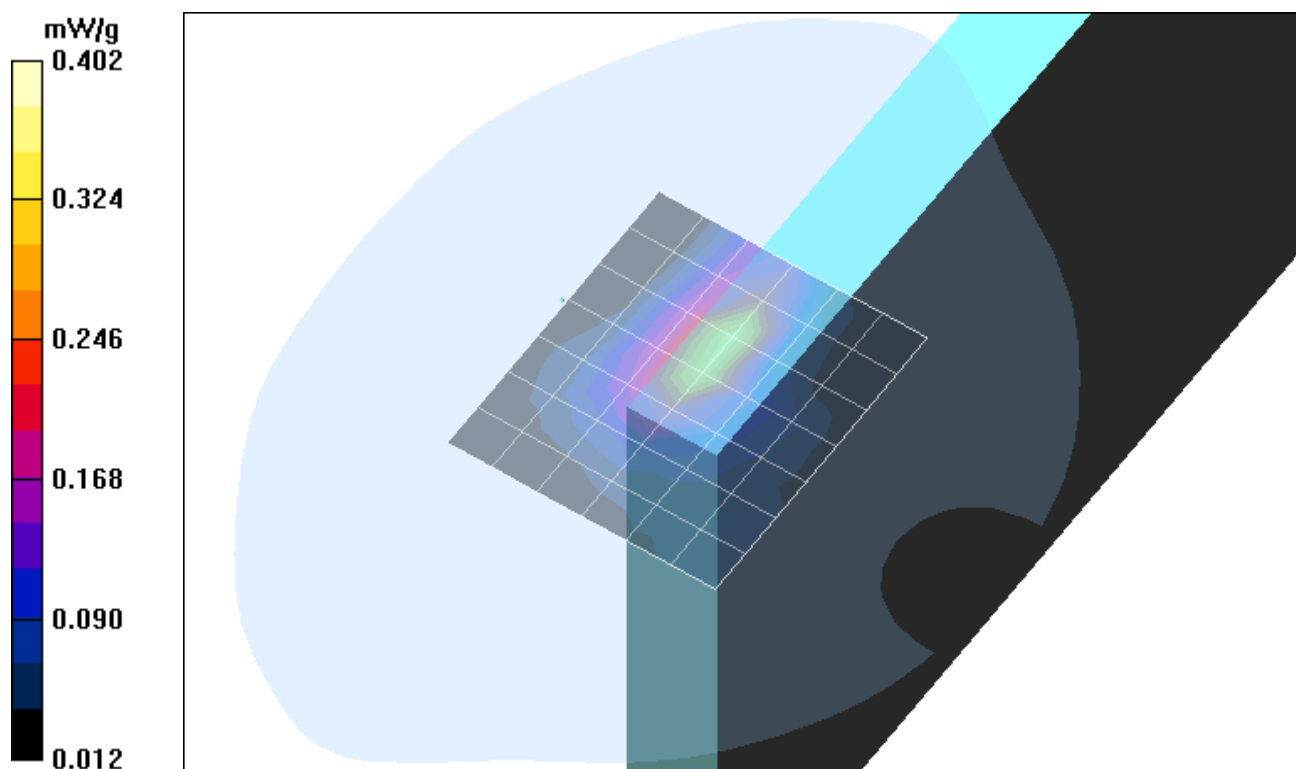


Fig. 35: SAR distribution for PCS 1900, channel 661, Acer Aspire 2020, position 4. (11.24.2004; Ambient Temperature: 21.9° C; Liquid Temperature: 20.2° C).

Test Laboratory: IMST GmbH; File Name: [Ricbphm 5 Acer.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.129 mW/g

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

Reference Value = 6.27 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.153 W/kg

SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.037 mW/g

Maximum value of SAR (measured) = 0.135 mW/g

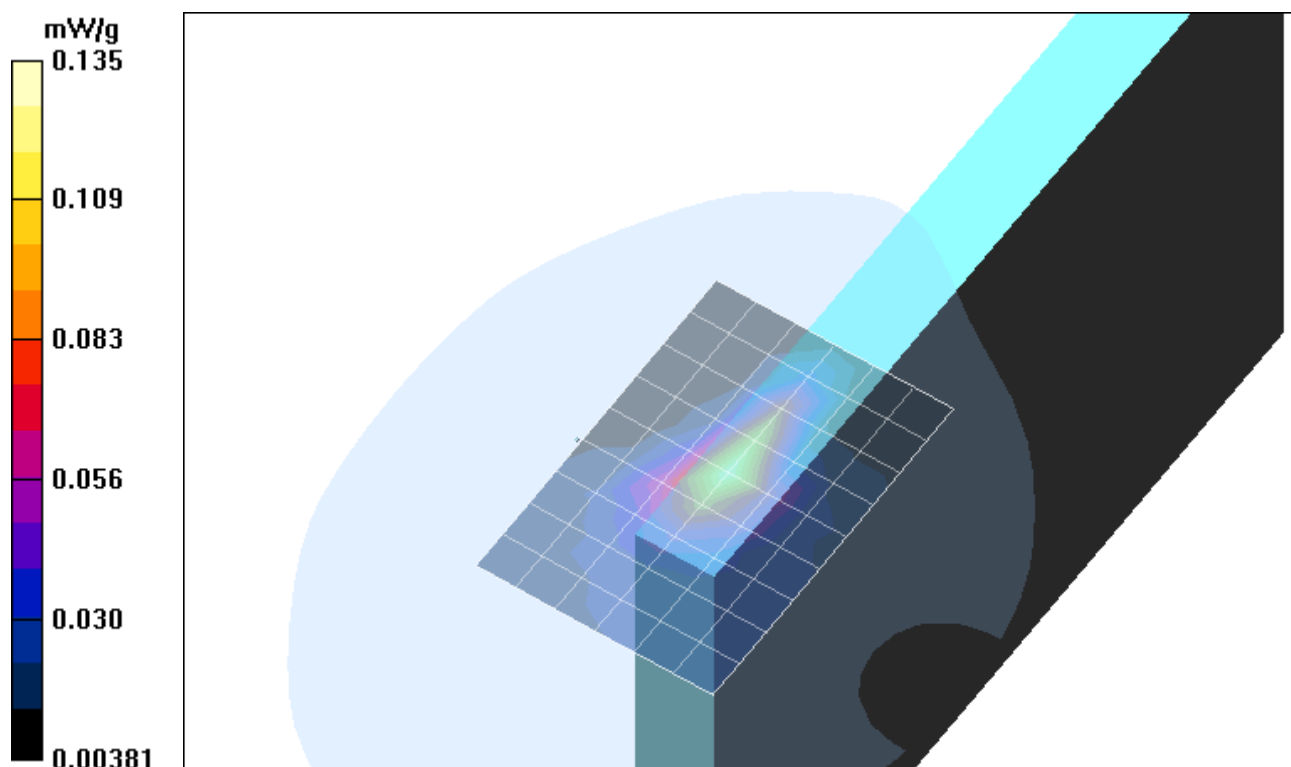


Fig. 36: SAR distribution for PCS 1900, channel 661, Acer Aspire 2020, position 5. (11.24.2004; Ambient Temperature: 21.9° C; Liquid Temperature: 20.3° C).

Test Laboratory: IMST GmbH; File Name: [ricbphh_1_ARC.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.979 mW/g

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

Reference Value = 24.9 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 1 mW/g; SAR(10 g) = 0.581 mW/g

Maximum value of SAR (measured) = 1.11 mW/g

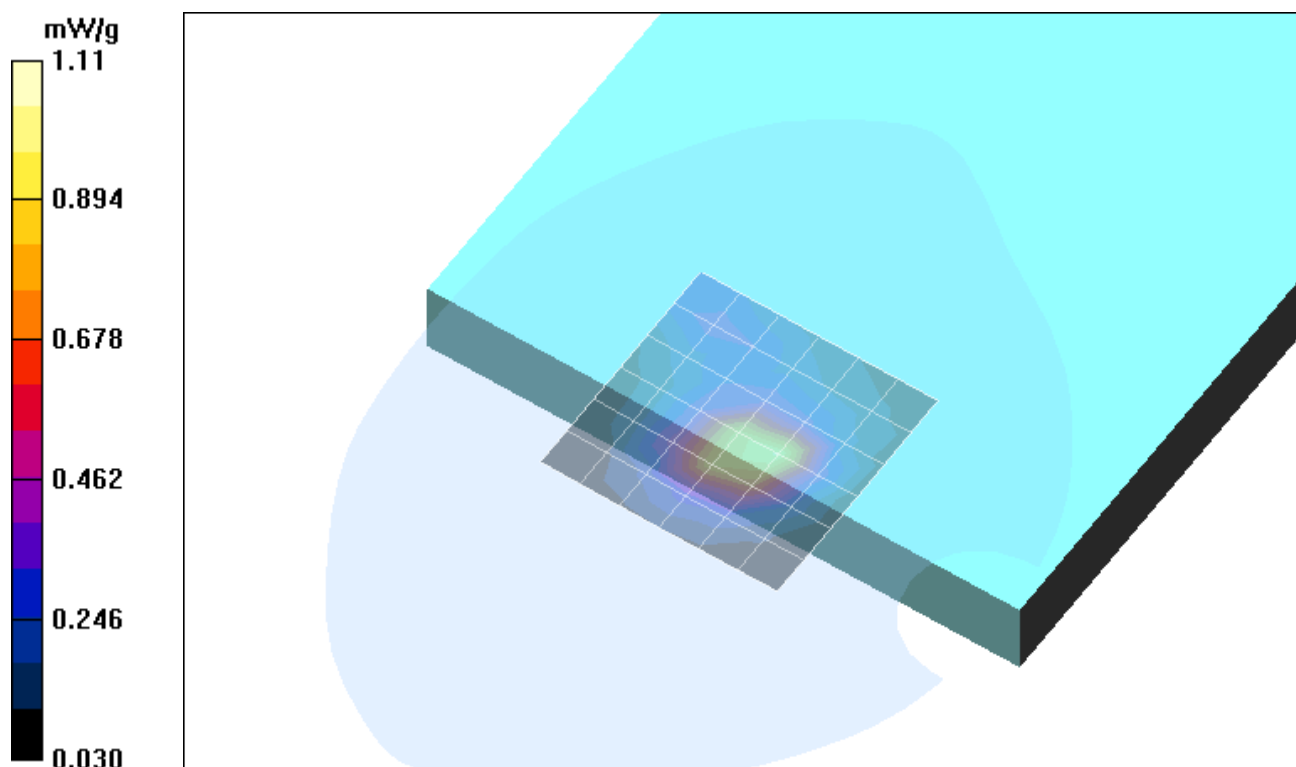


Fig. 37: SAR distribution for PCS 1900, channel 512, Acer Aspire 2020, position 1. (11.24.2004; Ambient Temperature: 21.8° C; Liquid Temperature: 20.4° C).

Test Laboratory: IMST GmbH; **File Name:** [ricbphh_1_ARC.da4](#)

DUT: Option; Type: Ricola; Serial: 004400009370040

Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used: $\sigma = 1.56$; mho/m, $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1669; ConvF(4.54, 4.54, 4.54); Calibrated: 18.03.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 127

Unnamed procedure/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.979 mW/g

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

Reference Value = 24.9 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 1 mW/g; SAR(10 g) = 0.581 mW/g

Maximum value of SAR (measured) = 1.11 mW/g

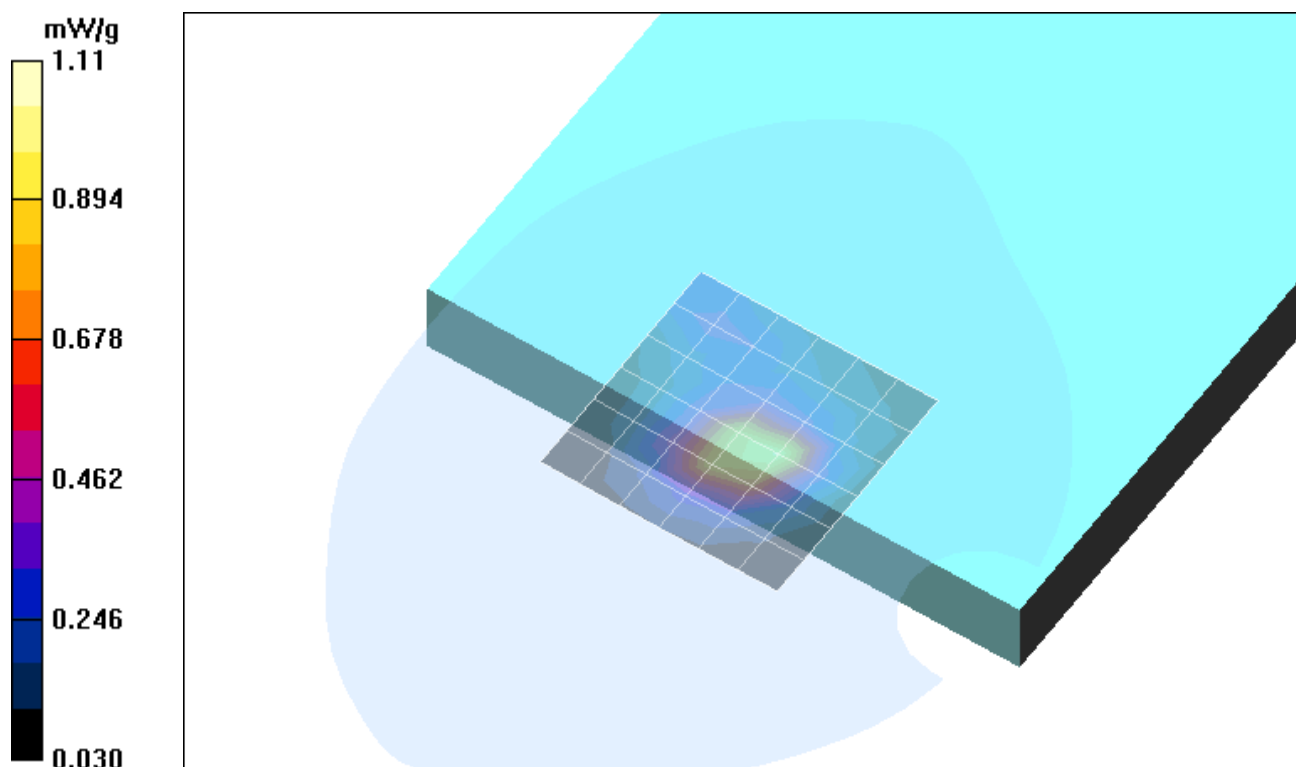


Fig. 38: SAR distribution for PCS 1900, channel 810, Acer Aspire 2020, position 1. (11.24.2004; Ambient Temperature: 21.9° C; Liquid Temperature: 20.4° C).

3 SAR z-axis scans (Validation)

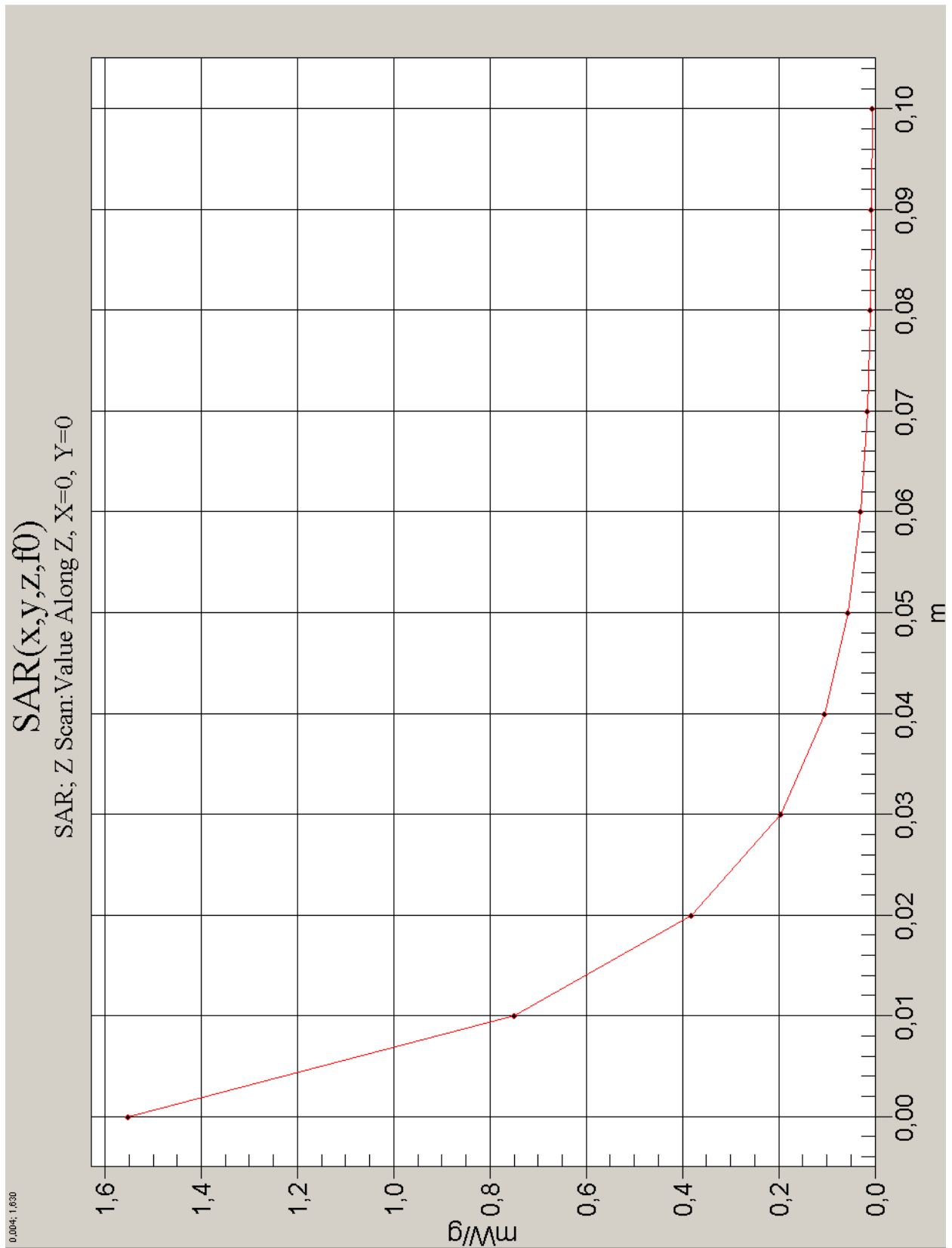


Fig. 39: SAR versus liquid depth, 835 MHz, body (25.11.2004; Ambient Temperature: 22.0° C; Liquid Temperature : 21.0° C).

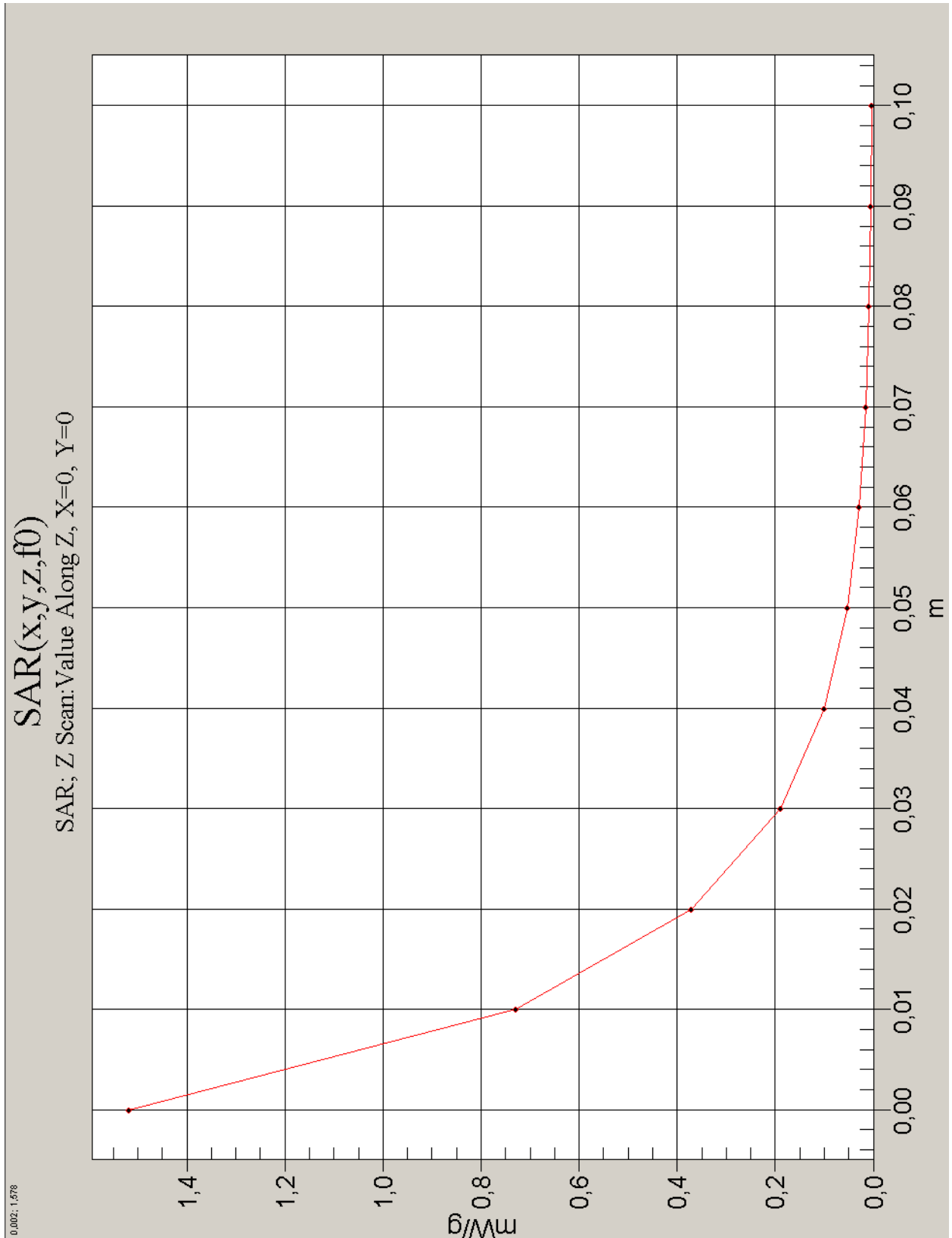


Fig. 40: SAR versus liquid depth, 835 MHz, body (29.11.2004; Ambient Temperature: 22.0° C; Liquid Temperature : 21.0° C).

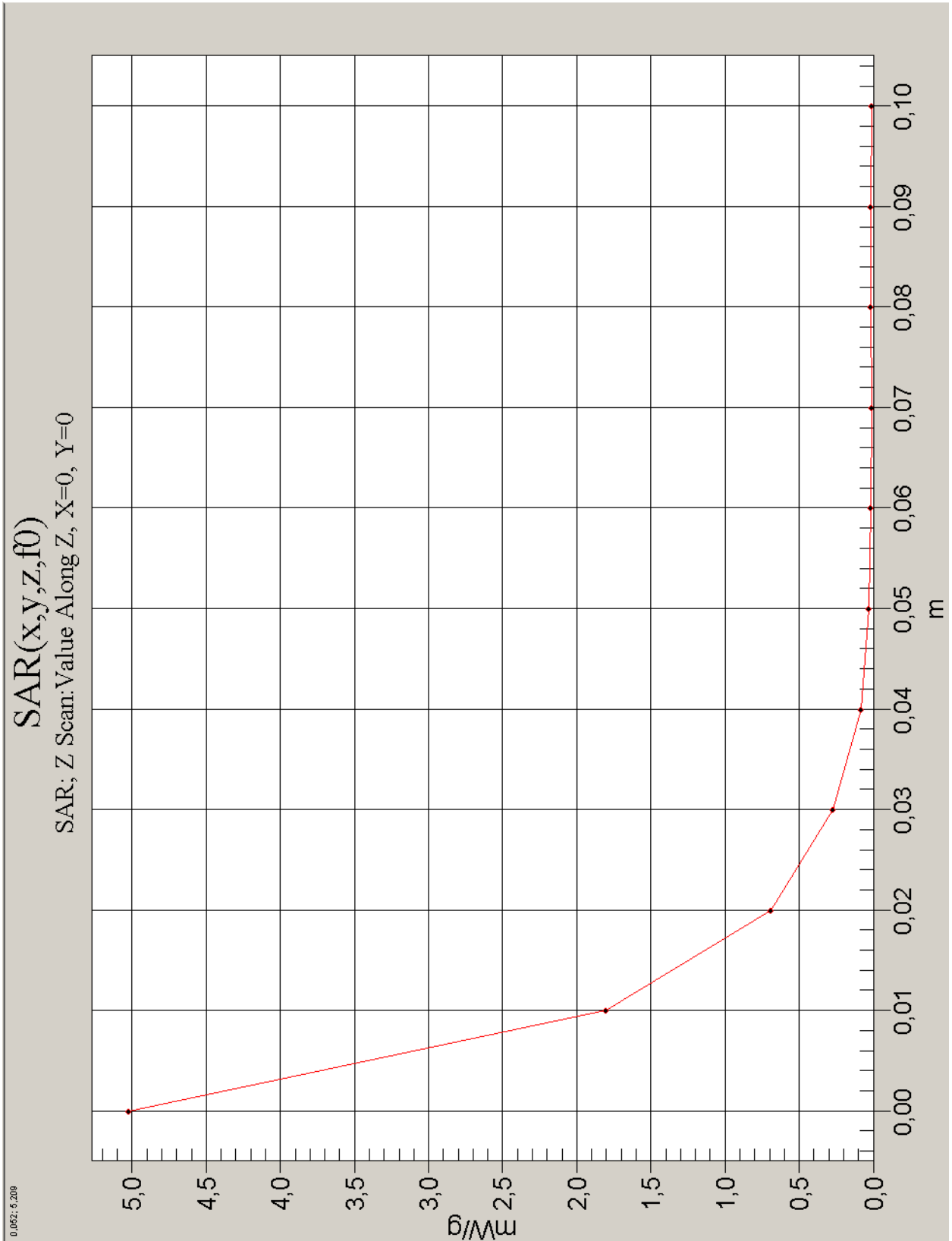


Fig. 41: SAR versus liquid depth, 1900 MHz, body (23.11.2004; Ambient Temperature: 22.0° C; Liquid Temperature : 21.0° C).

4 SAR z-axis scans (Measurements)

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

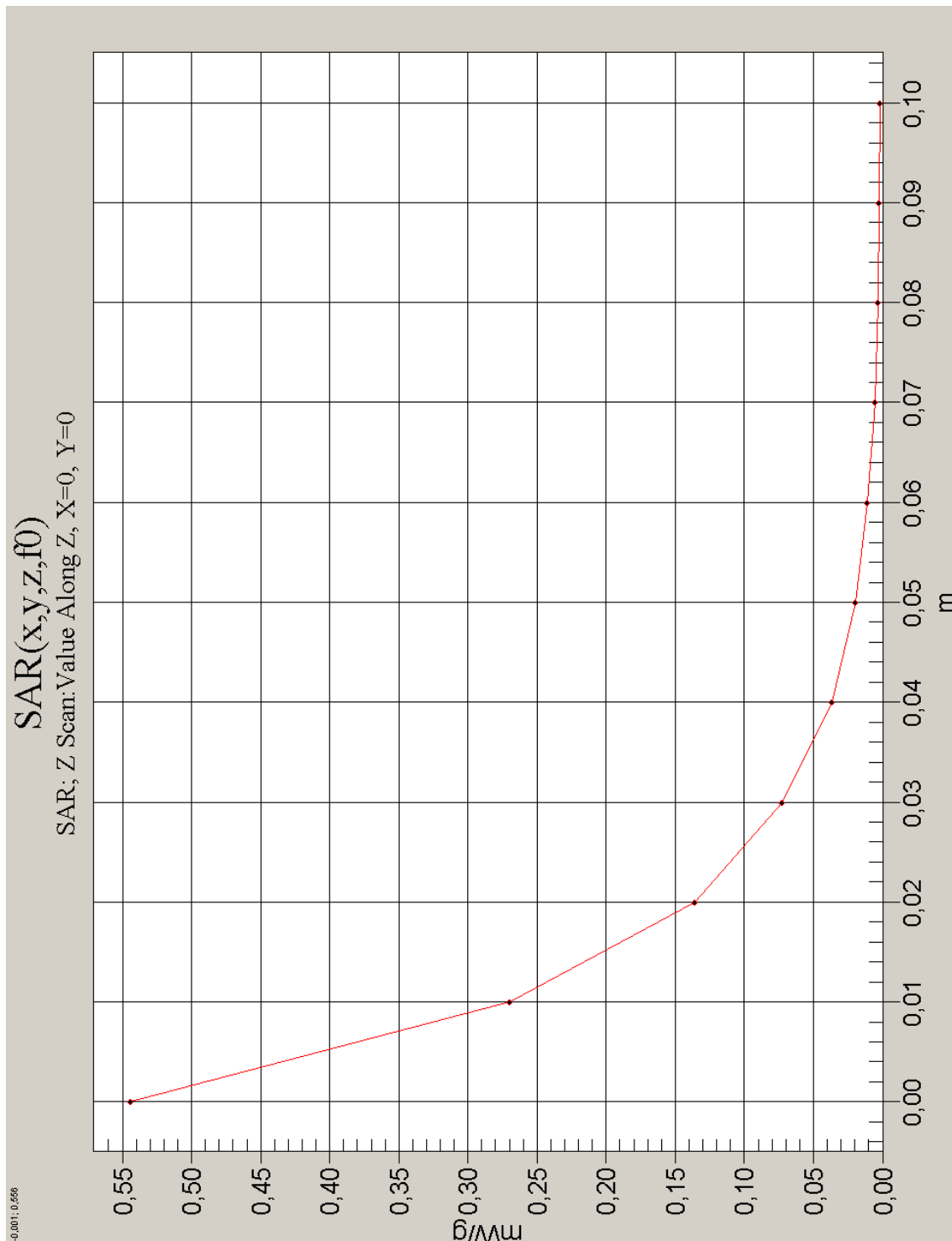


Fig. 42: SAR versus liquid depth, head: GSM 850, channel 190, DELL Latitude D505 Notebook position 1. (25.11.2004, Ambient Temperature: 21.2° C; Liquid Temperature : 20.3° C).

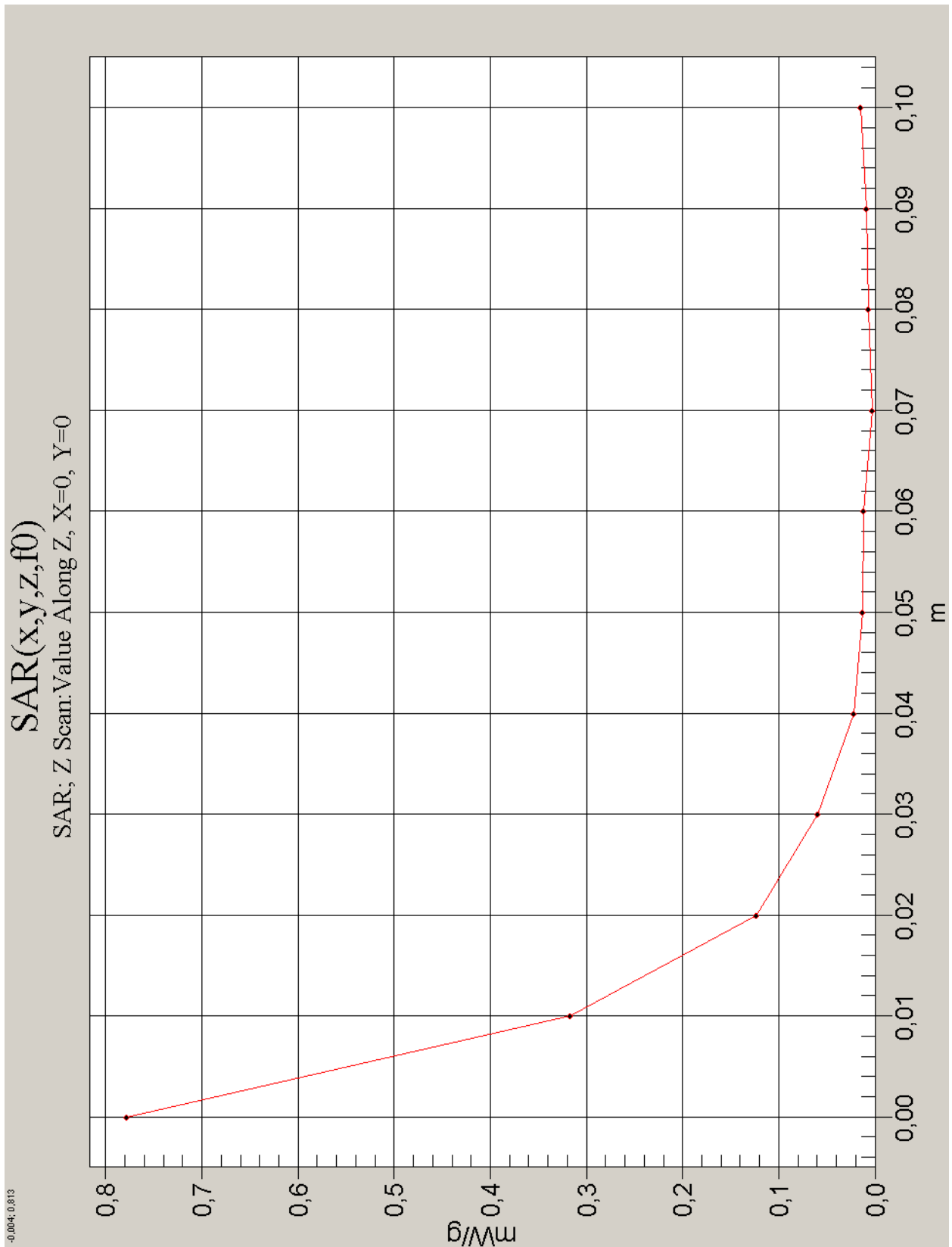


Fig. 43: SAR versus liquid depth, body: PCS 1900, channel 512, Packard Bell Easy Note Notebookposition 1. (24.11.2004, Ambient Temperature: 21.8° C; Liquid Temperature : 20.6° C).