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Appendix for the Report

Dosimetric Assessment of the Portable Device Selex Elsag S.p.A. PUMA T3 plus (FCC ID: X5Y774-0788)

According to the FCC Requirements SAR Distribution Plots

August 02, 2012

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The test results only relate to the items tested. This report shall not be reproduced except in full without the written approval of the testing laboratory.

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1 SAR Distribution Plots, TETRA, Head

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [080_ytlm_1_group2.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: TETRA

Communication System: Tetra; Frequency: 817.013 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 817.013 \text{ MHz}$; $\sigma = 0.904 \text{ mho/m}$; $\epsilon_r = 42.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.34, 6.34, 6.34); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Cheek Left/Area Scan (7x18x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.22 mW/g

Cheek Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 37.9 V/m ; Power Drift = -0.066 dB

Peak SAR (extrapolated) = 2.27 W/kg

SAR(1 g) = 1.3 mW/g ; SAR(10 g) = 0.815 mW/g

Maximum value of SAR (measured) = 1.50 mW/g

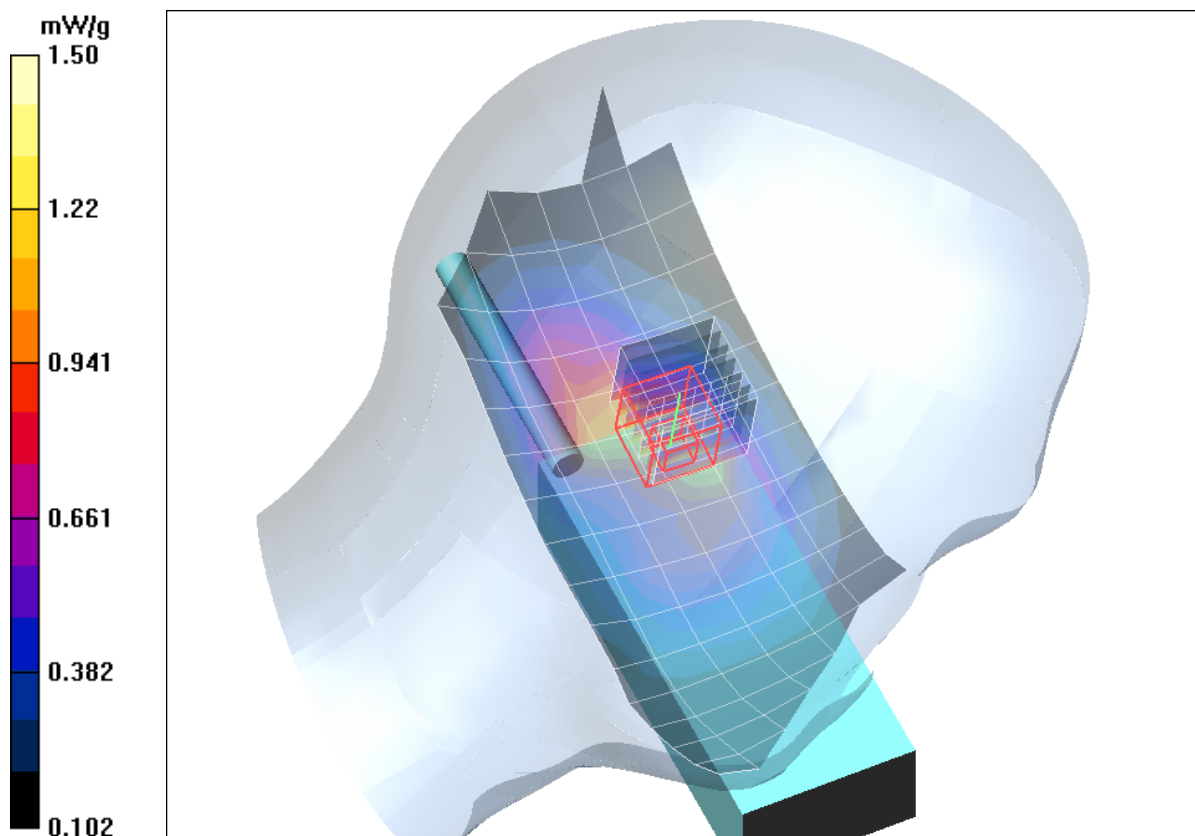


Fig. 1: SAR distribution for Tetra, 817.0125 MHz, cheek position, left side of head (July 25, 2012; Ambient Temperature: 22.6° C ; Liquid Temperature: 22.4° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [080_ytlm_1_group3.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: TETRA

Communication System: Tetra; Frequency: 823.987 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 823.987$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.34, 6.34, 6.34); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Cheek Left/Area Scan (7x18x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.38 mW/g

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

Reference Value = 37.9 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 2.34 W/kg

SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.825 mW/g

Maximum value of SAR (measured) = 1.45 mW/g

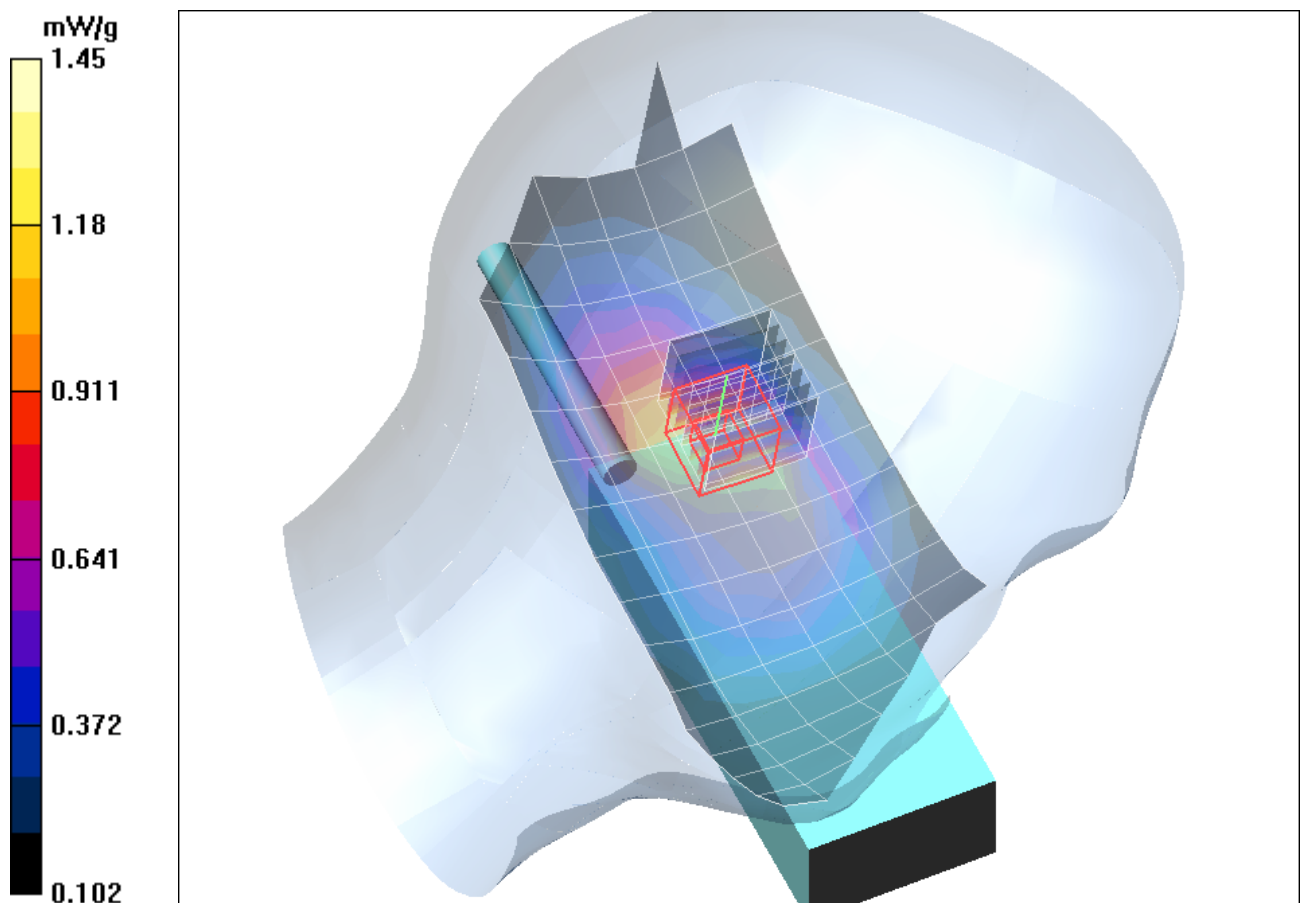


Fig. 2: SAR distribution for Tetra, 823.9875 MHz, cheek position, left side of head (July 25, 2012; Ambient Temperature: 22.6° C; Liquid Temperature: 22.4° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [080_ytlm_1_group5.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: TETRA

Communication System: Tetra; Frequency: 862.013 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 862.013$ MHz; $\sigma = 0.941$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.34, 6.34, 6.34); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Cheek Left/Area Scan (7x18x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

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

Reference Value = 32.9 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.697 mW/g

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

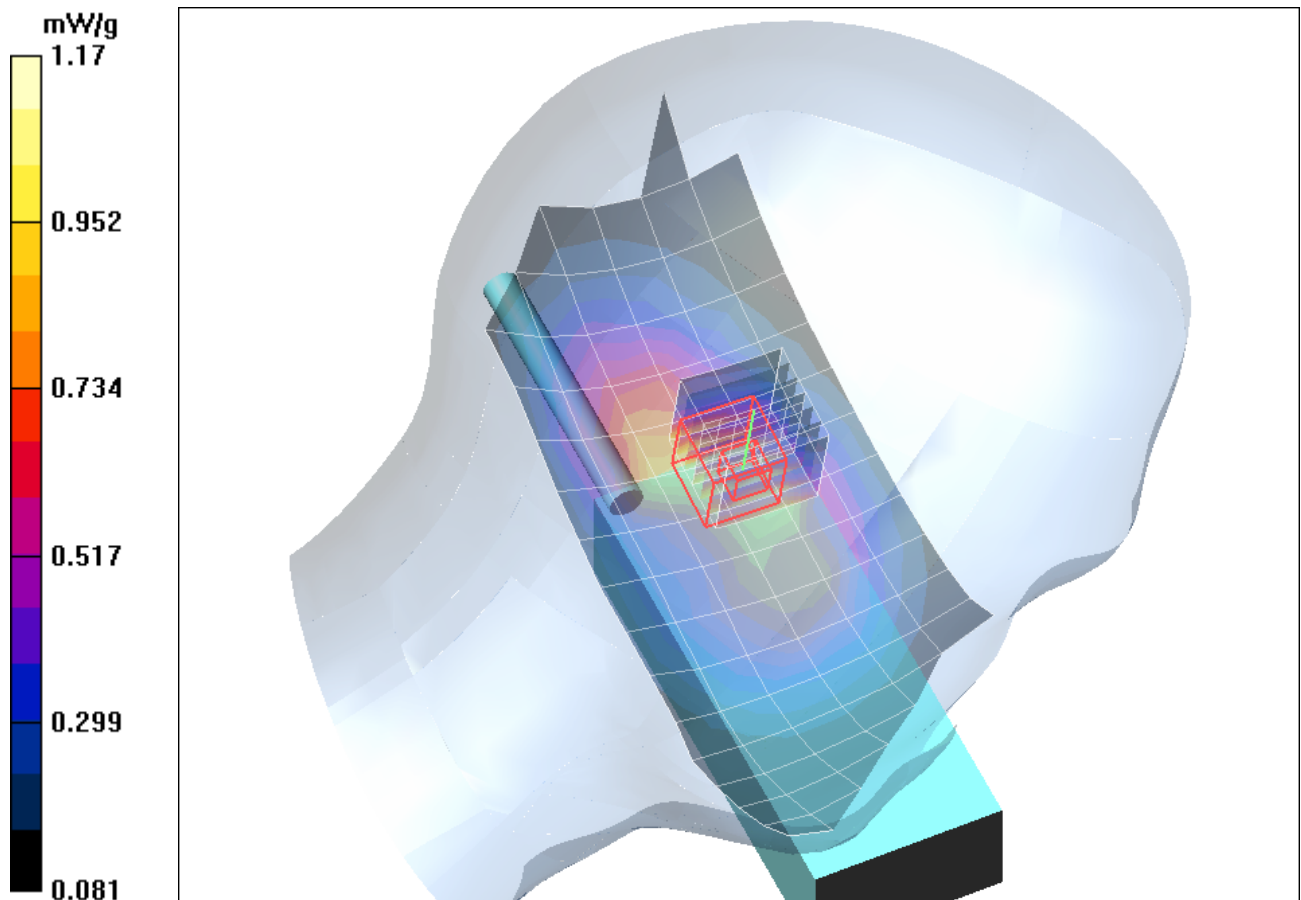


Fig. 3: SAR distribution for Tetra, 862.0125 MHz, cheek position, left side of head (July 25, 2012; Ambient Temperature: 22.6° C; Liquid Temperature: 22.4° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [080_ytlm_1_group6.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: TETRA

Communication System: Tetra; Frequency: 868.987 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 868.987$ MHz; $\sigma = 0.946$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.34, 6.34, 6.34); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Cheek Left/Area Scan (7x18x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.01 mW/g

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

Reference Value = 33.4 V/m; Power Drift = -0.073 dB

Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.673 mW/g

Maximum value of SAR (measured) = 1.20 mW/g

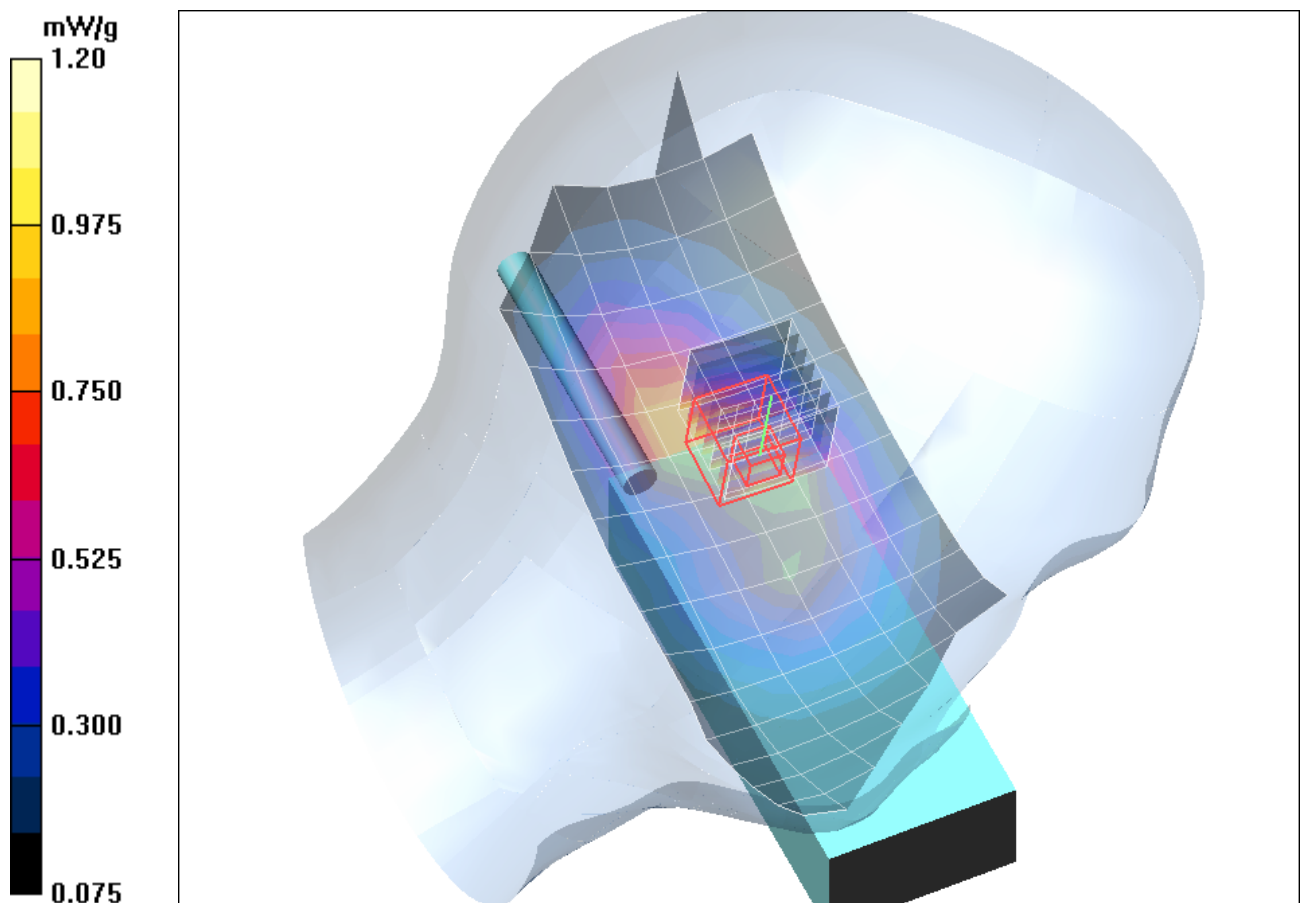


Fig. 4: SAR distribution for Tetra, 868.9875 MHz, cheek position, left side of head (July 25, 2012; Ambient Temperature: 22.6° C; Liquid Temperature: 22.4° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [080_yt1m_2_group3.da4](#)

DUT: SELEX; **Type:** PUMA T3 Plus; **Serial:** 870080

Program Name: TETRA

Communication System: Tetra; Frequency: 823.987 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 823.987 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.34, 6.34, 6.34); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Tilted Left/Area Scan (7x18x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.47 mW/g

Tilted Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 40.9 V/m ; Power Drift = -0.075 dB

Peak SAR (extrapolated) = 2.72 W/kg

SAR(1 g) = 1.54 mW/g ; SAR(10 g) = 1.01 mW/g

Maximum value of SAR (measured) = 1.74 mW/g

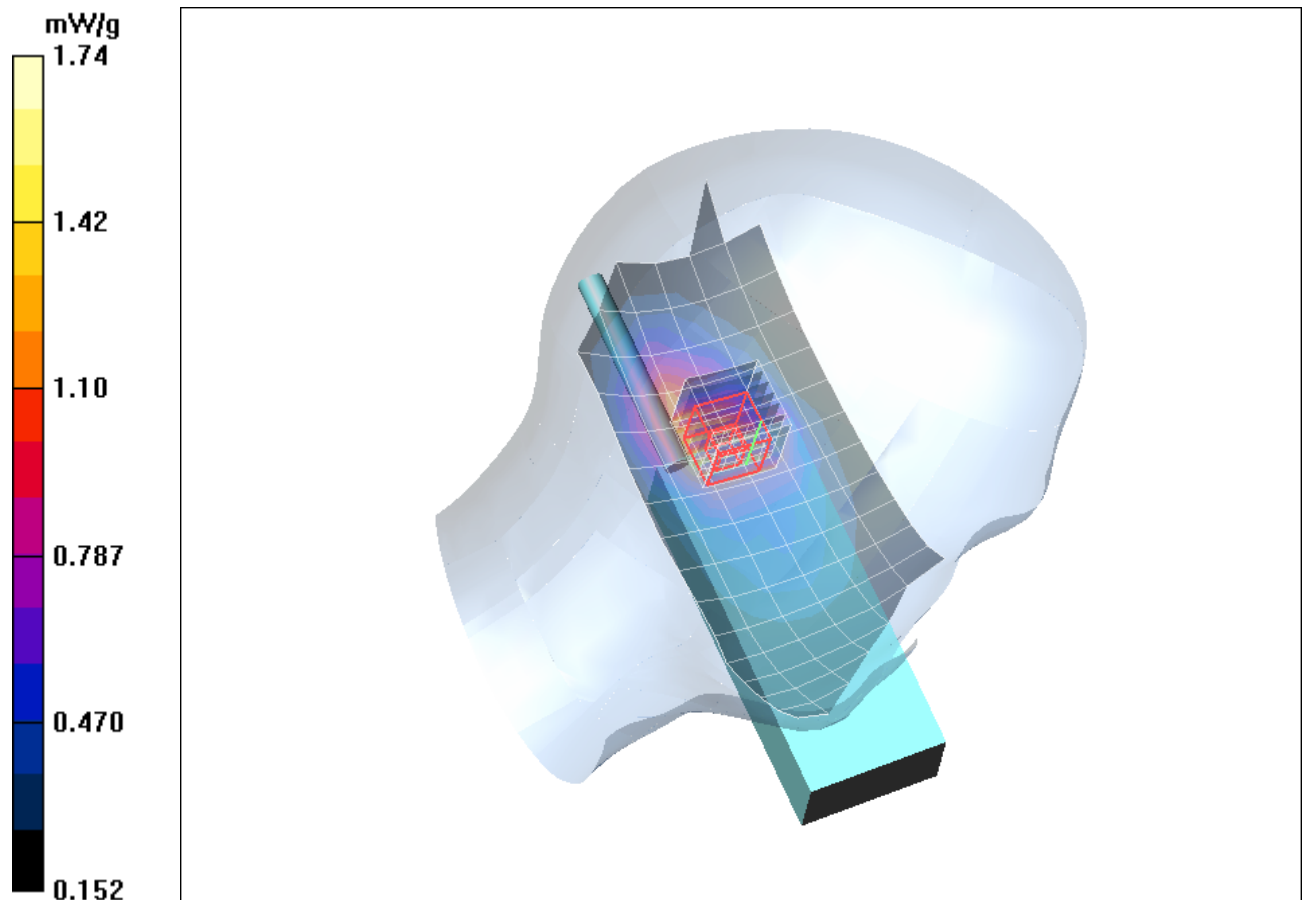


Fig. 5: SAR distribution for Tetra, 823.9875 MHz, tilted position, left side of head (July 25, 2012; Ambient Temperature: 22.6° C ; Liquid Temperature: 22.4° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [080_ytrm_1_group2.da4](#)

DUT: SELEX; **Type:** PUMA T3 Plus; **Serial:** 870080

Program Name: Cheek Right

Communication System: Tetra; Frequency: 817.013 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 817.013$ MHz; $\sigma = 0.904$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.34, 6.34, 6.34); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Cheek Right/Area Scan (7x18x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.38 mW/g

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

Reference Value = 39.4 V/m; Power Drift = -0.134 dB

Peak SAR (extrapolated) = 2.32 W/kg

SAR(1 g) = 1.43 mW/g; SAR(10 g) = 0.895 mW/g

Maximum value of SAR (measured) = 1.65 mW/g

Cheek Right/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 39.4 V/m; Power Drift = -0.134 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.878 mW/g; SAR(10 g) = 0.655 mW/g

Maximum value of SAR (measured) = 0.950 mW/g

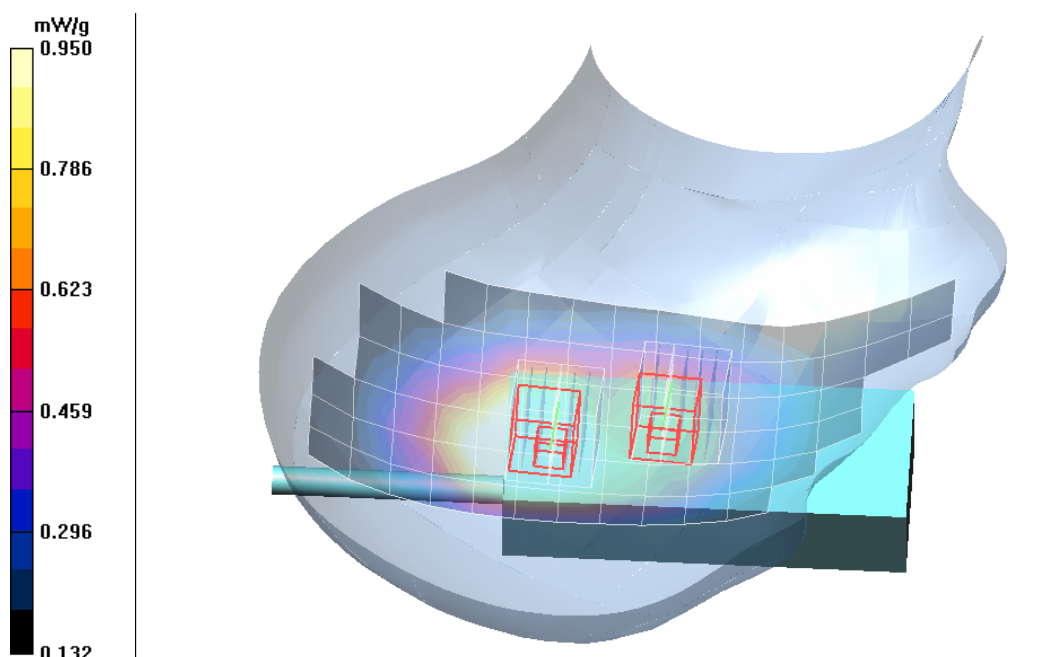


Fig. 6: SAR distribution for Tetra, 817.0125 MHz, cheek position, right side of head (July 25, 2012; Ambient Temperature: 22.6° C; Liquid Temperature: 22.4° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [080_ytrm_1_group3.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: Cheek Right

Communication System: Tetra; Frequency: 823.987 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 823.987$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.34, 6.34, 6.34); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Cheek Right/Area Scan (7x18x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

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

Reference Value = 40.0 V/m; Power Drift = -0.157 dB

Peak SAR (extrapolated) = 2.76 W/kg

SAR(1 g) = 1.44 mW/g; SAR(10 g) = 0.911 mW/g

Maximum value of SAR (measured) = 1.59 mW/g

Cheek Right/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 40.0 V/m; Power Drift = -0.157 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.849 mW/g; SAR(10 g) = 0.644 mW/g

Maximum value of SAR (measured) = 0.943 mW/g

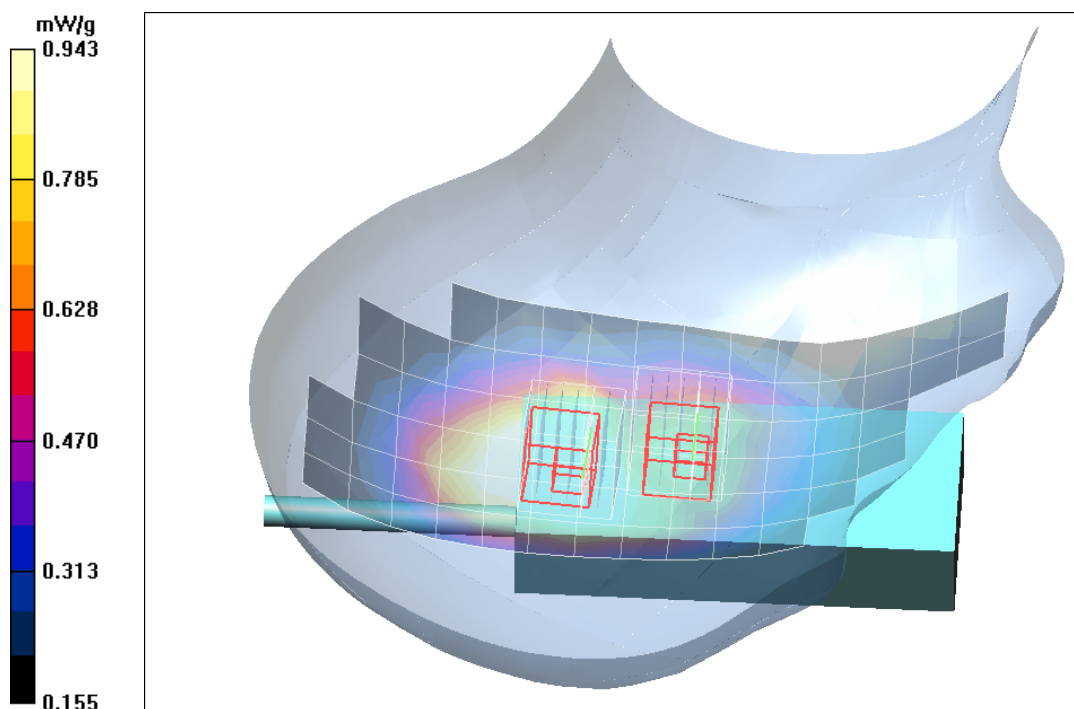


Fig. 7: SAR distribution for Tetra, 823.9875 MHz, cheek position, right side of head (July 25, 2012; Ambient Temperature: 22.6° C; Liquid Temperature: 22.4° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [080_ytrm_1_group5.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: Cheek Right

Communication System: Tetra; Frequency: 862.013 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 862.013$ MHz; $\sigma = 0.941$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.34, 6.34, 6.34); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Cheek Right/Area Scan (7x18x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.36 mW/g

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

Reference Value = 40.3 V/m; Power Drift = -0.180 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.791 mW/g

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

Cheek Right/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 40.3 V/m; Power Drift = -0.180 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.825 mW/g; SAR(10 g) = 0.610 mW/g

Maximum value of SAR (measured) = 0.878 mW/g

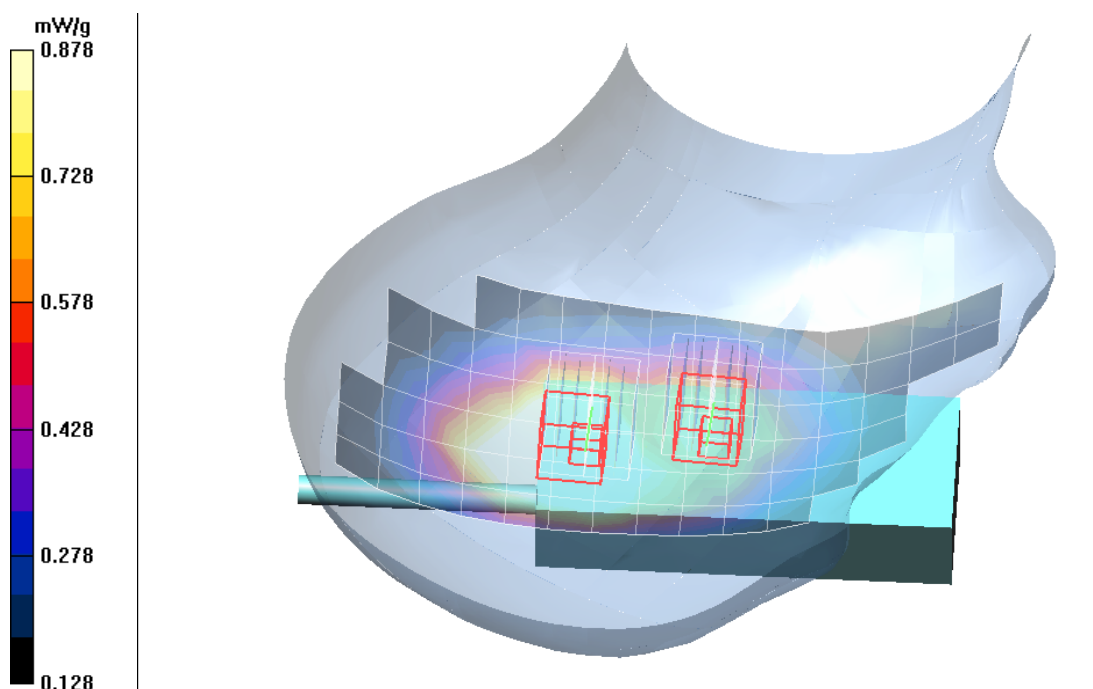


Fig. 8: SAR distribution for Tetra, 862.0125 MHz, cheek position, right side of head (July 25, 2012; Ambient Temperature: 22.6° C; Liquid Temperature: 22.4° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [080_ytrm_1_group6.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: Cheek Right

Communication System: Tetra; Frequency: 868.987 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 868.987$ MHz; $\sigma = 0.946$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.34, 6.34, 6.34); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Cheek Right/Area Scan (7x18x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

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

Reference Value = 36.2 V/m; Power Drift = -0.177 dB

Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.743 mW/g

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

Cheek Right/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 36.2 V/m; Power Drift = -0.177 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.825 mW/g; SAR(10 g) = 0.625 mW/g

Maximum value of SAR (measured) = 0.885 mW/g

Cheek Right/Zoom Scan (7x7x7)/Cube 2: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 36.2 V/m; Power Drift = -0.177 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.741 mW/g; SAR(10 g) = 0.538 mW/g

Maximum value of SAR (measured) = 0.820 mW/g

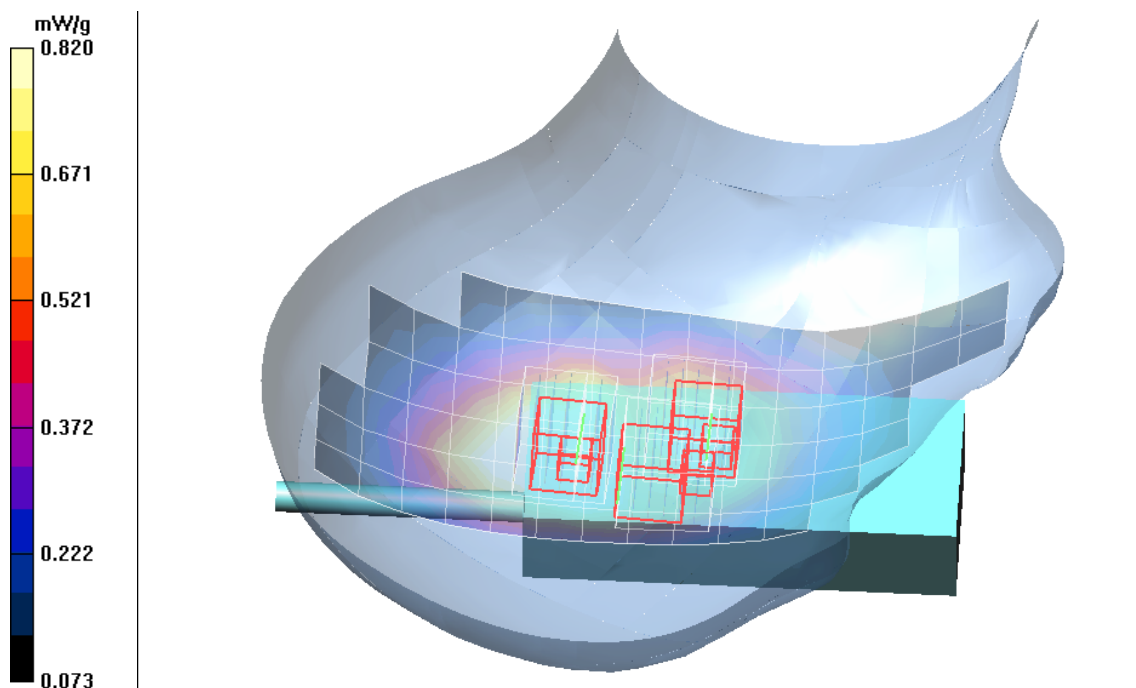


Fig. 9: SAR distribution for Tetra, 868.9875 MHz, cheek position, right side of head (July 25, 2012; Ambient Temperature: 22.6° C; Liquid Temperature: 22.4° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [080_ytrm_2_group3.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: Tilted Right

Communication System: Tetra; Frequency: 823.987 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 823.987$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.34, 6.34, 6.34); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Tilted Right/Area Scan (7x18x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.17 mW/g

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

Reference Value = 44.0 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 3.63 W/kg

SAR(1 g) = 1.99 mW/g; SAR(10 g) = 1.3 mW/g

Maximum value of SAR (measured) = 2.31 mW/g

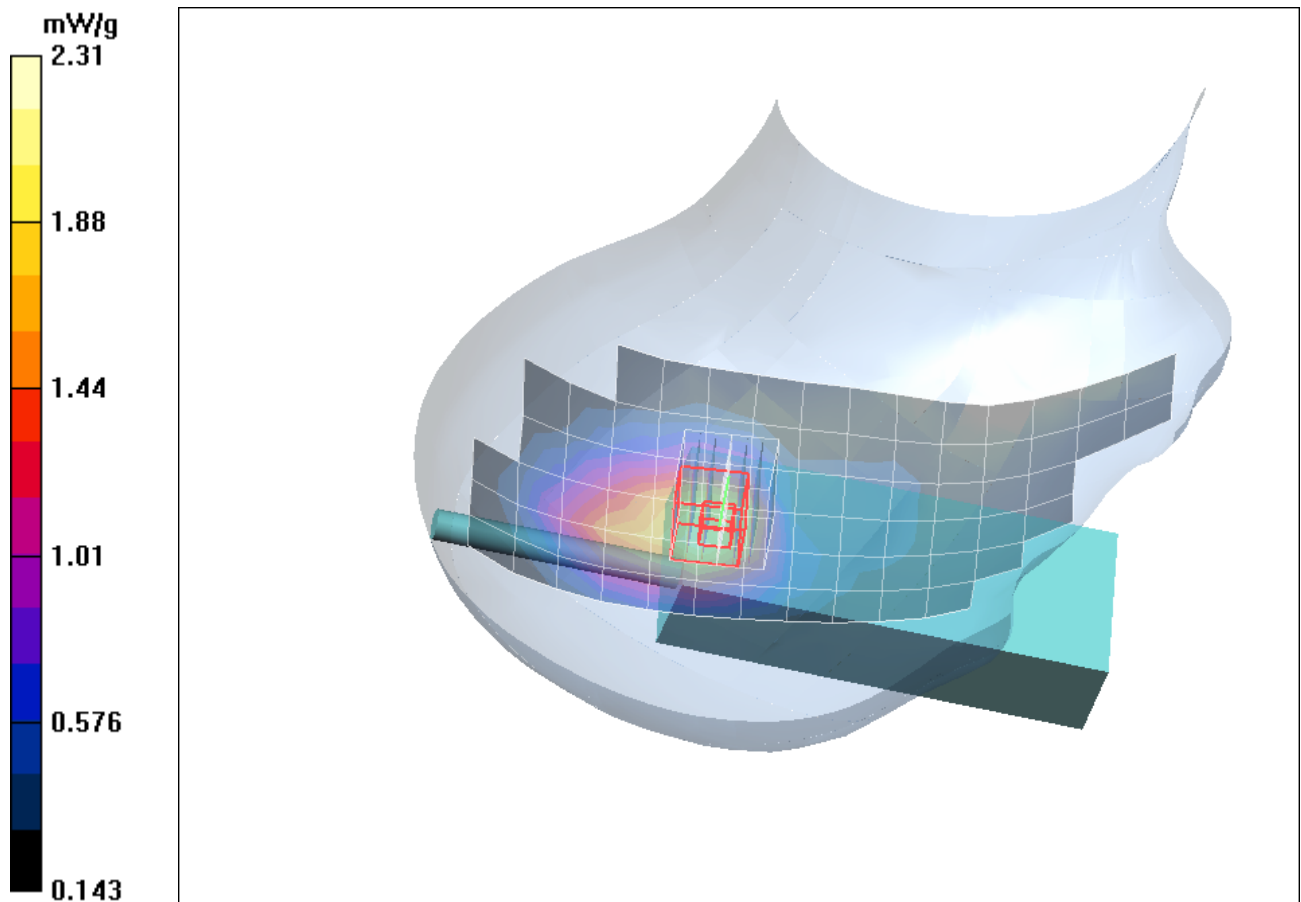


Fig. 10: SAR distribution for Tetra, 823.9875 MHz, tilted position, right side of head (July 25, 2012; Ambient Temperature: 22.6° C; Liquid Temperature: 22.4° C).

2 SAR Distribution Plots, TETRA, PTT Configuration

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [080_ytptt_1_group2.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: PTT

Communication System: Tetra; Frequency: 817.013 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 817.013$ MHz; $\sigma = 0.904$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.34, 6.34, 6.34); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

PTT/Area Scan (8x18x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.468 mW/g

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

Reference Value = 16.4 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 0.561 W/kg

SAR(1 g) = 0.403 mW/g; SAR(10 g) = 0.303 mW/g

Maximum value of SAR (measured) = 0.454 mW/g

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

Reference Value = 16.4 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 0.537 W/kg

SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.284 mW/g

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

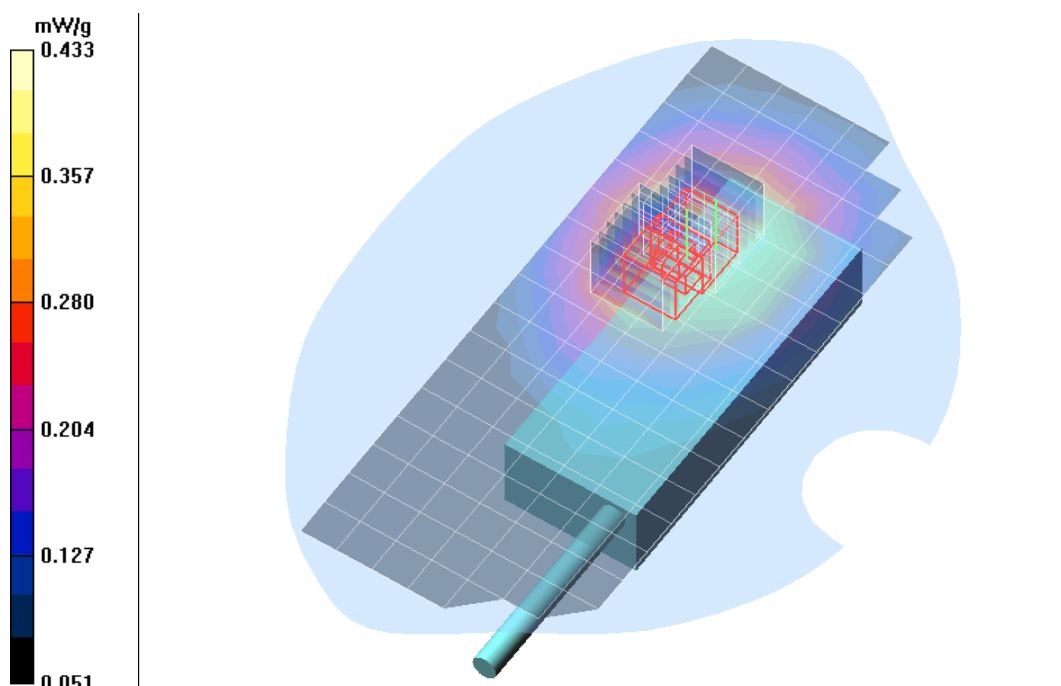


Fig. 11: SAR distribution for Tetra, 817.0125 MHz, PTT (July 25, 2012; Ambient Temperature: 22.6° C; Liquid Temperature: 22.4° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [080_ytptt_1_group3.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: PTT

Communication System: Tetra; Frequency: 823.987 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 823.987$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.34, 6.34, 6.34); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

PTT/Area Scan (8x18x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.480 mW/g

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

Reference Value = 18.6 V/m; Power Drift = 0.182 dB

Peak SAR (extrapolated) = 0.740 W/kg

SAR(1 g) = 0.467 mW/g; SAR(10 g) = 0.340 mW/g

Maximum value of SAR (measured) = 0.514 mW/g

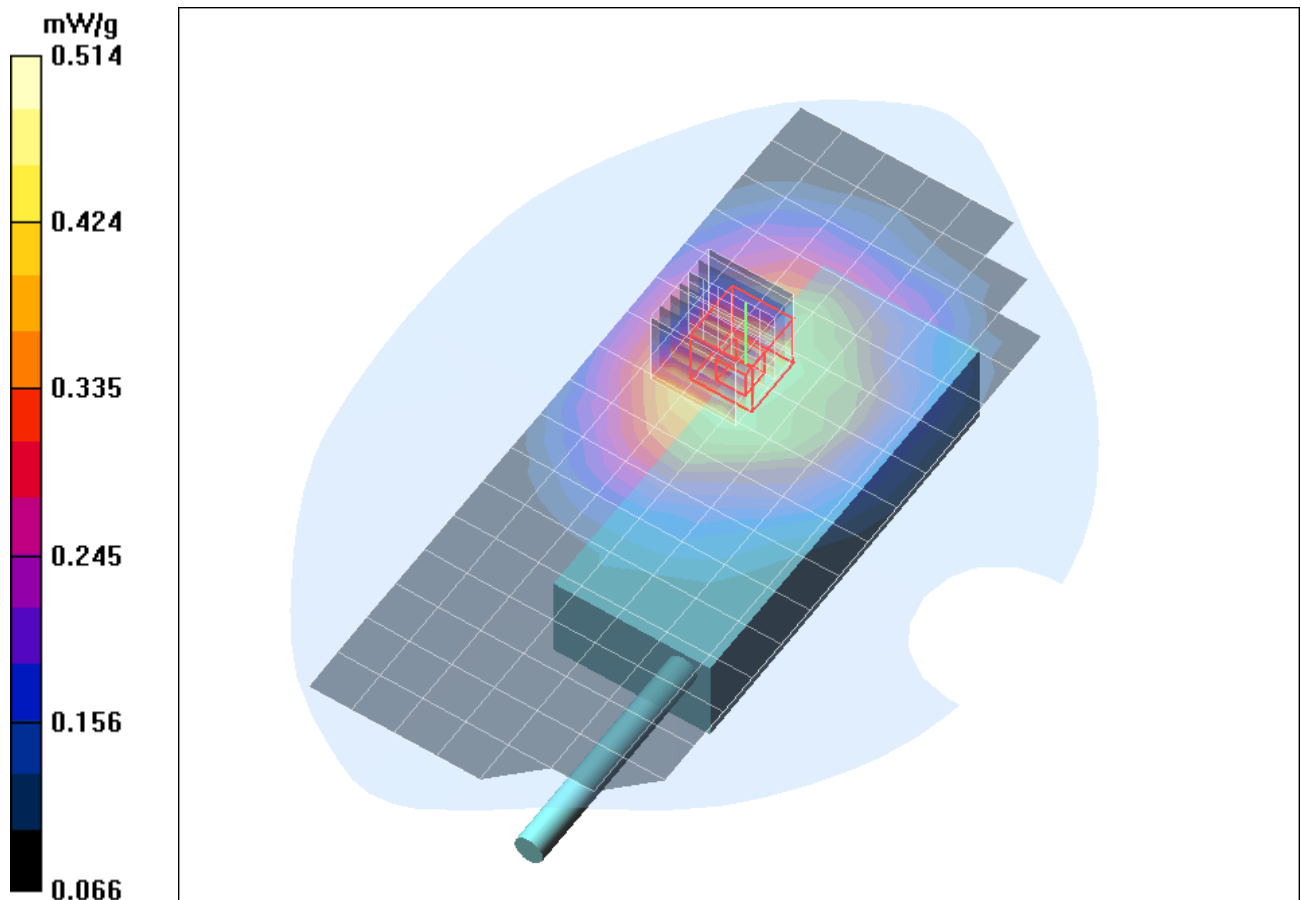


Fig. 12: SAR distribution for Tetra, 823.9875 MHz, PTT (July 25, 2012; Ambient Temperature: 22.6° C; Liquid Temperature: 22.4° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [080_ytptt_1_group5.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: PTT

Communication System: Tetra; Frequency: 862.013 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 862.013$ MHz; $\sigma = 0.941$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.34, 6.34, 6.34); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

PTT/Area Scan (8x18x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.514 mW/g

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

Reference Value = 17.7 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.796 W/kg

SAR(1 g) = 0.498 mW/g; SAR(10 g) = 0.368 mW/g

Maximum value of SAR (measured) = 0.560 mW/g

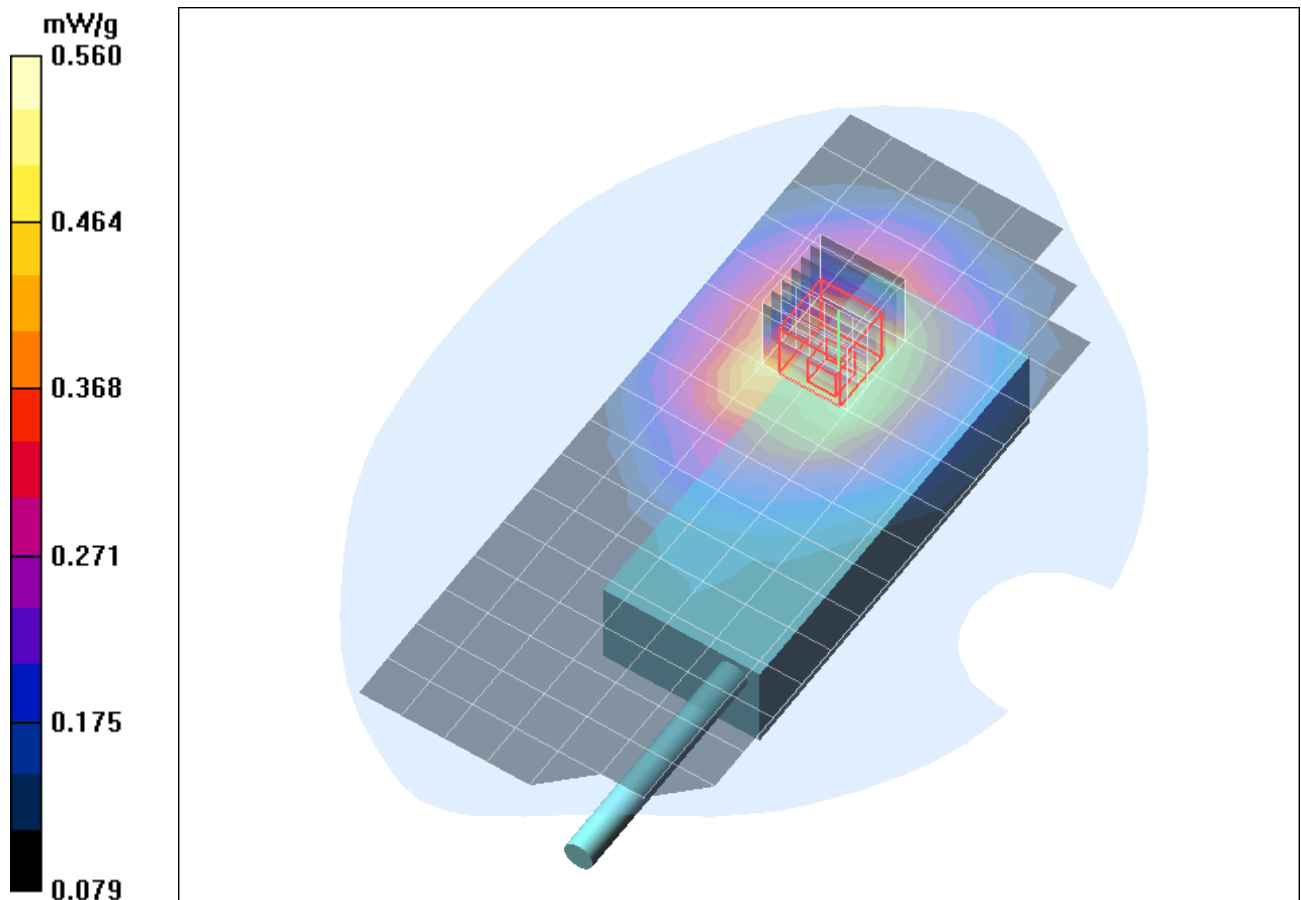


Fig. 13: SAR distribution for Tetra, 862.0125 MHz, PTT (July 25, 2012; Ambient Temperature: 22.6° C; Liquid Temperature: 22.4° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [080_ytpptt_1_group6.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: PTT

Communication System: Tetra; Frequency: 868.987 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 868.987$ MHz; $\sigma = 0.946$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.34, 6.34, 6.34); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

PTT/Area Scan (8x18x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.483 mW/g

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

Reference Value = 16.6 V/m; Power Drift = 0.043 dB

Peak SAR (extrapolated) = 0.719 W/kg

SAR(1 g) = 0.481 mW/g; SAR(10 g) = 0.354 mW/g

Maximum value of SAR (measured) = 0.533 mW/g

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

Reference Value = 16.6 V/m; Power Drift = 0.043 dB

Peak SAR (extrapolated) = 0.619 W/kg

SAR(1 g) = 0.492 mW/g; SAR(10 g) = 0.339 mW/g

Maximum value of SAR (measured) = 0.537 mW/g

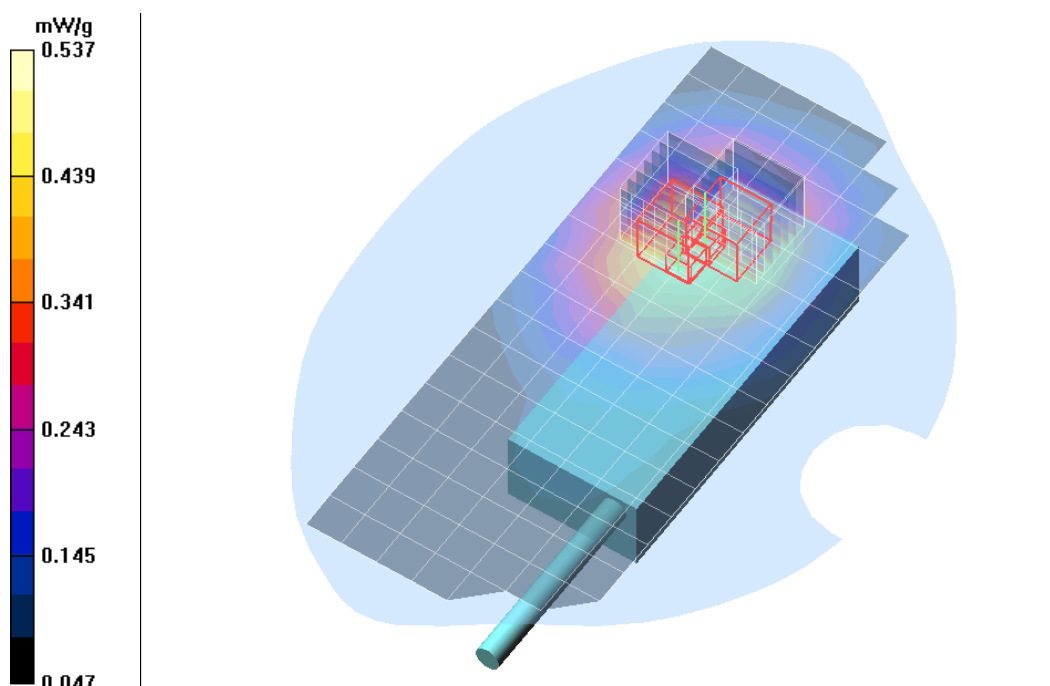


Fig. 14: SAR distribution for Tetra, 868.9875 MHz, PTT (July 25, 2012; Ambient Temperature: 22.6° C; Liquid Temperature: 22.4° C).

3 SAR Distribution Plots, Tetra, Body Worn Configuration

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

[080_bthm_1_down_case+belt_Group2.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: Tetra

Communication System: Tetra; Frequency: 817.013 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 817.013$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.24, 6.24, 6.24); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (8x17x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.728 mW/g

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

Reference Value = 17.4 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 0.991 W/kg

SAR(1 g) = 0.693 mW/g; SAR(10 g) = 0.507 mW/g

Maximum value of SAR (measured) = 0.749 mW/g

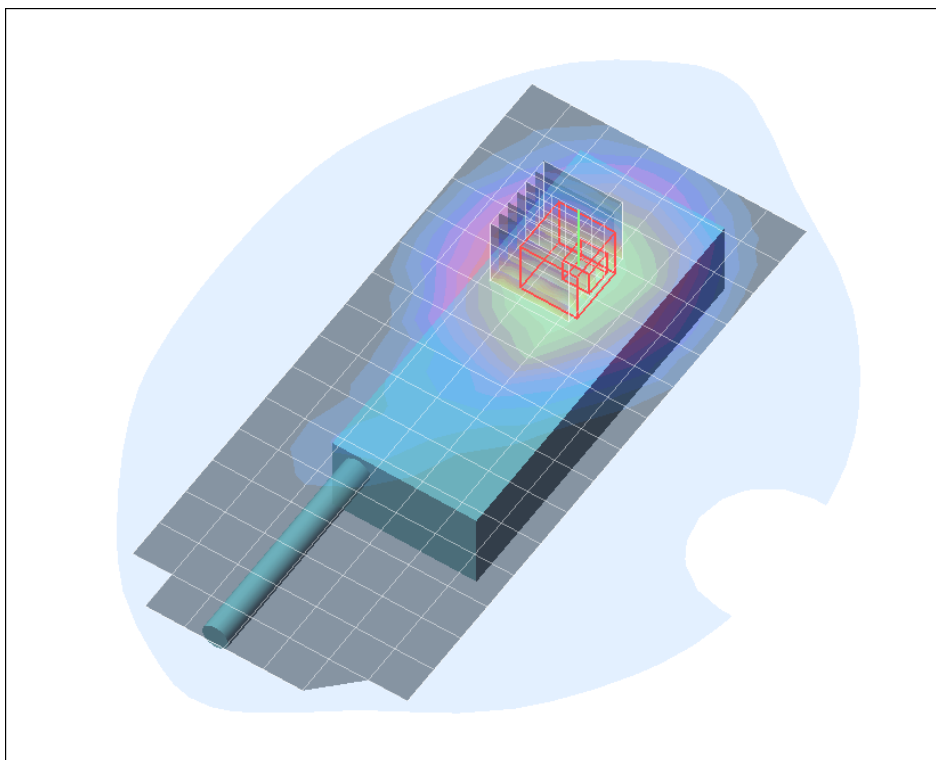


Fig. 15: SAR distribution for Tetra, 817.0125 MHz, body worn configuration, with shoulder belt case (July 31, 2012; Ambient Temperature: 22.8° C; Liquid Temperature: 22.4° C).

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

[080_bthm_1_down_case+belt_Group3.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: Tetra

Communication System: Tetra; Frequency: 823.987 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 823.987$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.24, 6.24, 6.24); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (8x17x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.702 mW/g

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

Reference Value = 16.7 V/m; Power Drift = 0.058 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.680 mW/g; SAR(10 g) = 0.496 mW/g

Maximum value of SAR (measured) = 0.734 mW/g

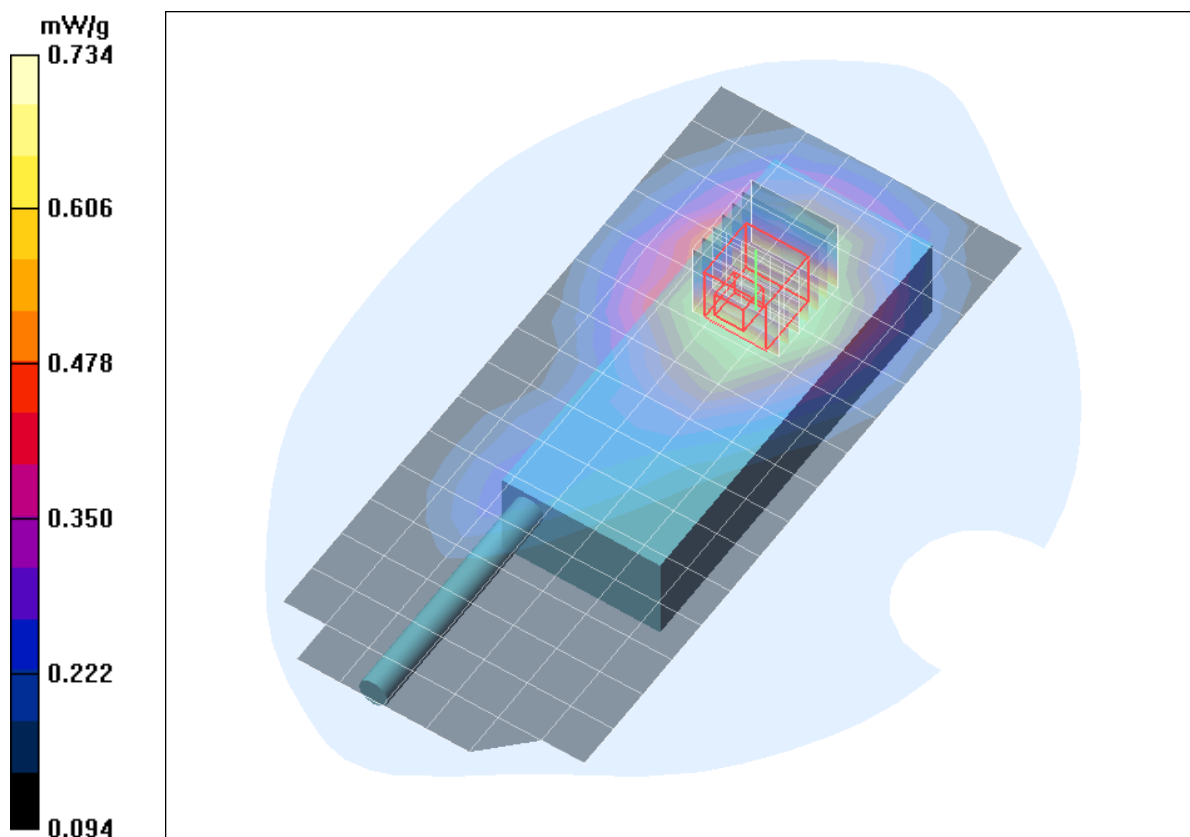


Fig. 16: SAR distribution for Tetra, 823.9875 MHz, body worn configuration, with shoulder belt case (July 31, 2012; Ambient Temperature: 22.8° C; Liquid Temperature: 22.4° C).

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

[080_bthm_1_down_case+belt_Group5.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: Tetra

Communication System: Tetra; Frequency: 862.013 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 862.013$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.24, 6.24, 6.24); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (8x17x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 15.8 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 0.832 W/kg

SAR(1 g) = 0.610 mW/g; SAR(10 g) = 0.452 mW/g

Maximum value of SAR (measured) = 0.676 mW/g

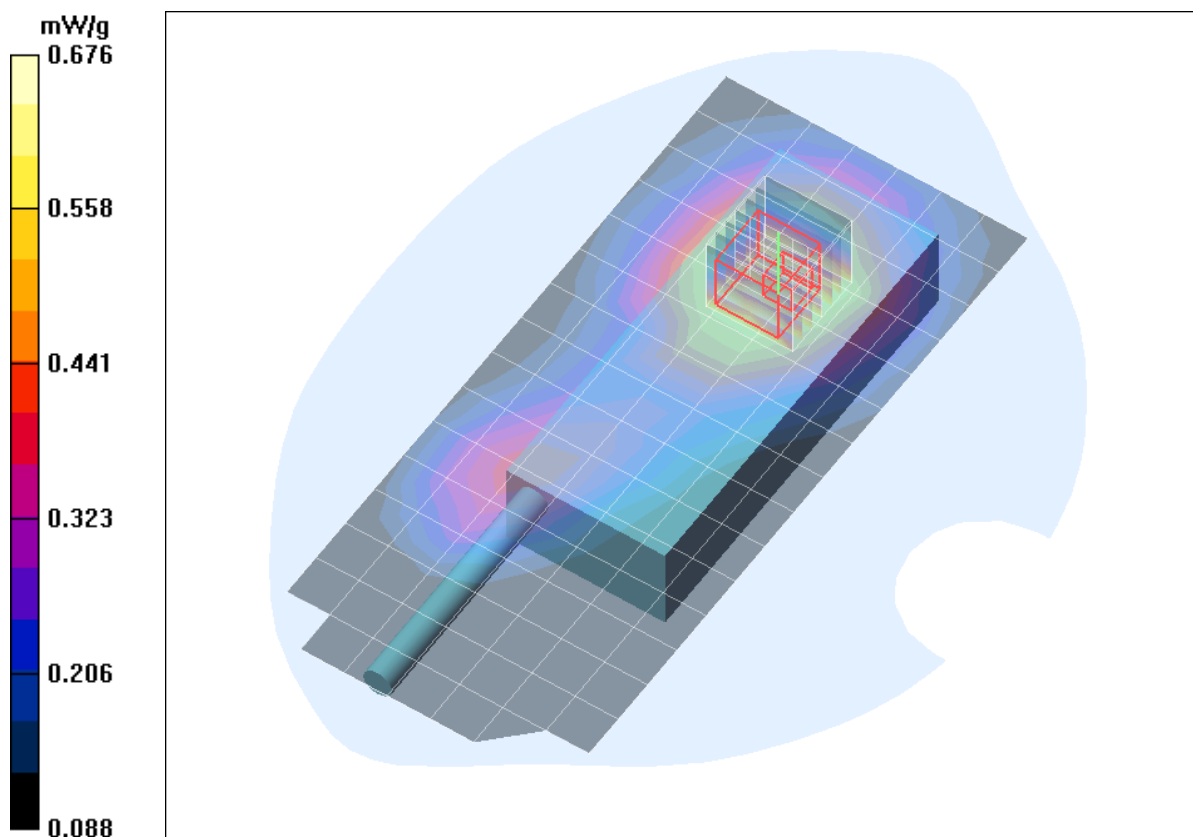


Fig. 17: SAR distribution for Tetra, 862.0125 MHz, body worn configuration, with shoulder belt case (July 31, 2012; Ambient Temperature: 22.8° C; Liquid Temperature: 22.4° C).

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

[080_bthm_1_down_case+belt_Group6.da4](#)

DUT: SELEX; Type: PUMA T3 Plus; Serial: 870080

Program Name: Tetra

Communication System: Tetra; Frequency: 868.987 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 868.987$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(6.24, 6.24, 6.24); Calibrated: 25.01.2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 20.02.2012
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (8x17x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.535 mW/g

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

Reference Value = 15.7 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 0.764 W/kg

SAR(1 g) = 0.536 mW/g; SAR(10 g) = 0.400 mW/g

Maximum value of SAR (measured) = 0.602 mW/g

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

Reference Value = 15.7 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 0.595 W/kg

SAR(1 g) = 0.366 mW/g; SAR(10 g) = 0.253 mW/g

Maximum value of SAR (measured) = 0.416 mW/g

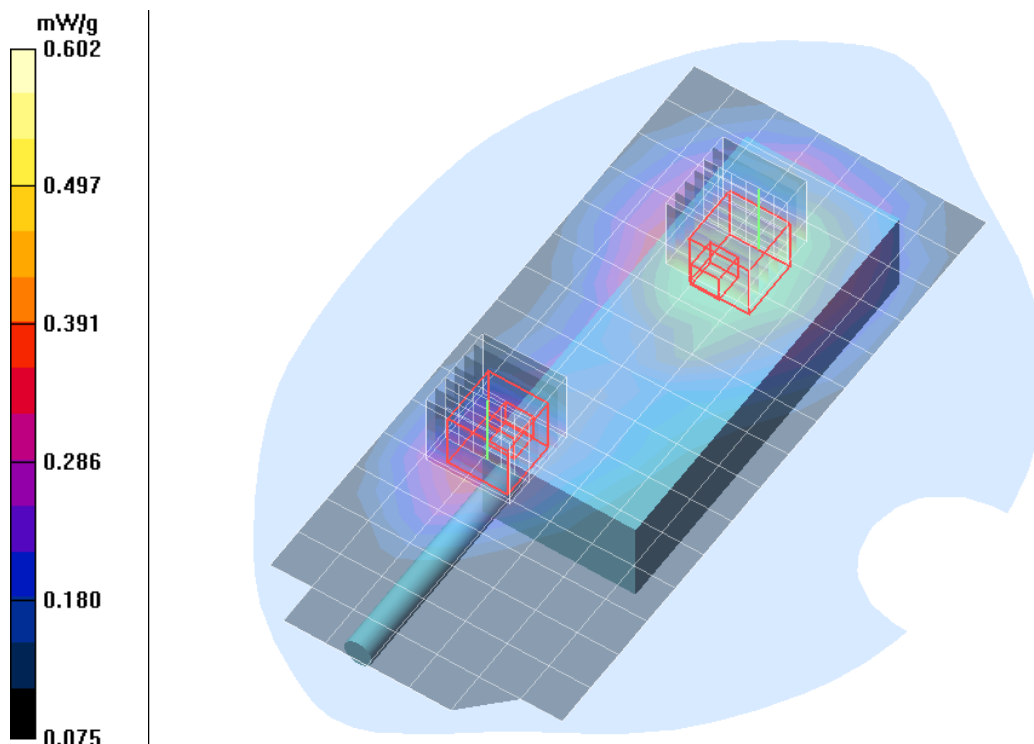


Fig. 18: SAR distribution for Tetra, 868.9875 MHz, body worn configuration, with shoulder belt case (July 31, 2012; Ambient Temperature: 22.8° C; Liquid Temperature: 22.4° C).

4 SAR z-axis scans (Validation)

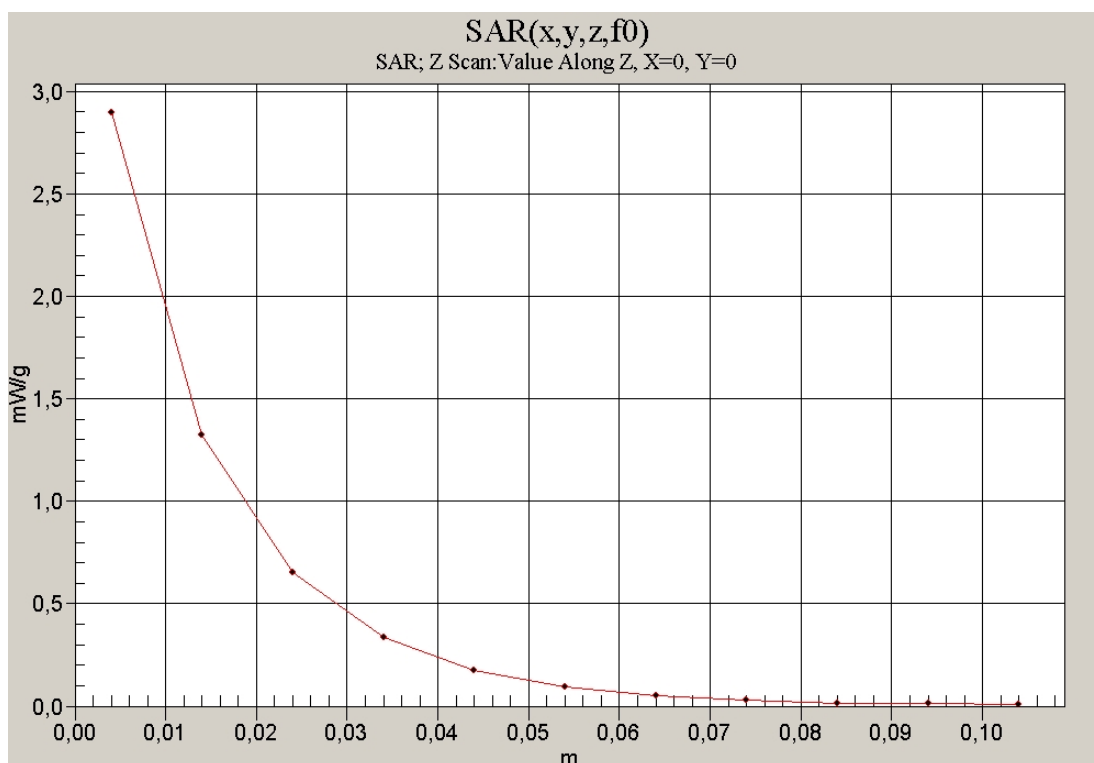


Fig. 19: SAR versus liquid depth, 835 MHz, head (July 24, 2012; Ambient Temperature: 22.7° C; Liquid Temperature : 22.5° C).

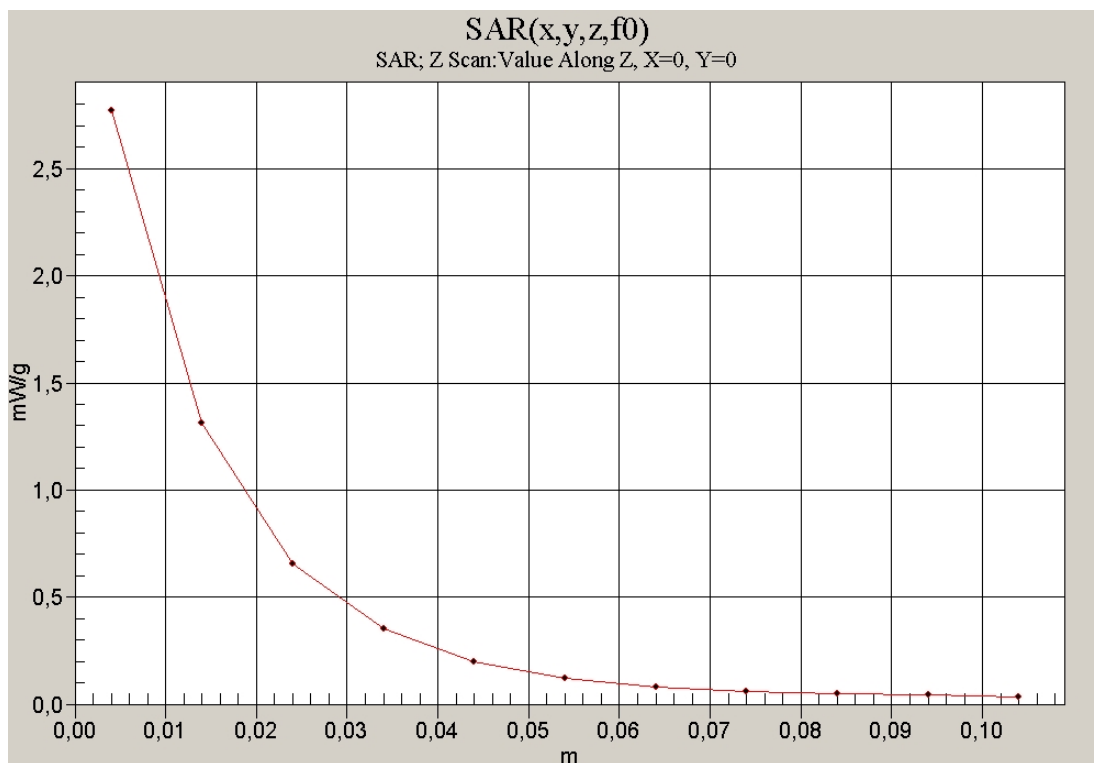


Fig. 20: SAR versus liquid depth, 835 MHz, body (July 31, 2012; Ambient Temperature: 22.7° C; Liquid Temperature : 22.4° C).

5 SAR z-axis scans (Measurements)

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

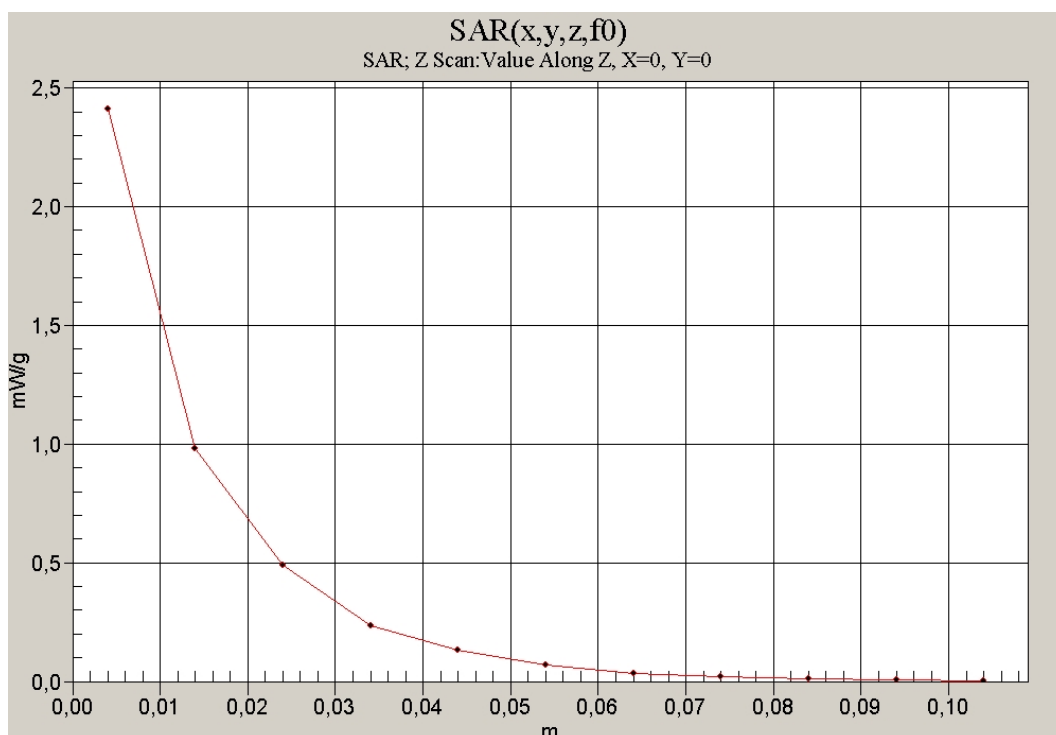


Fig. 21: SAR versus liquid depth, head: Tetra, 823.9875 MHz, tilted position, right side of head (July 25, 2012; Ambient Temperature: 22.6° C; Liquid Temperature: 22.4° C).

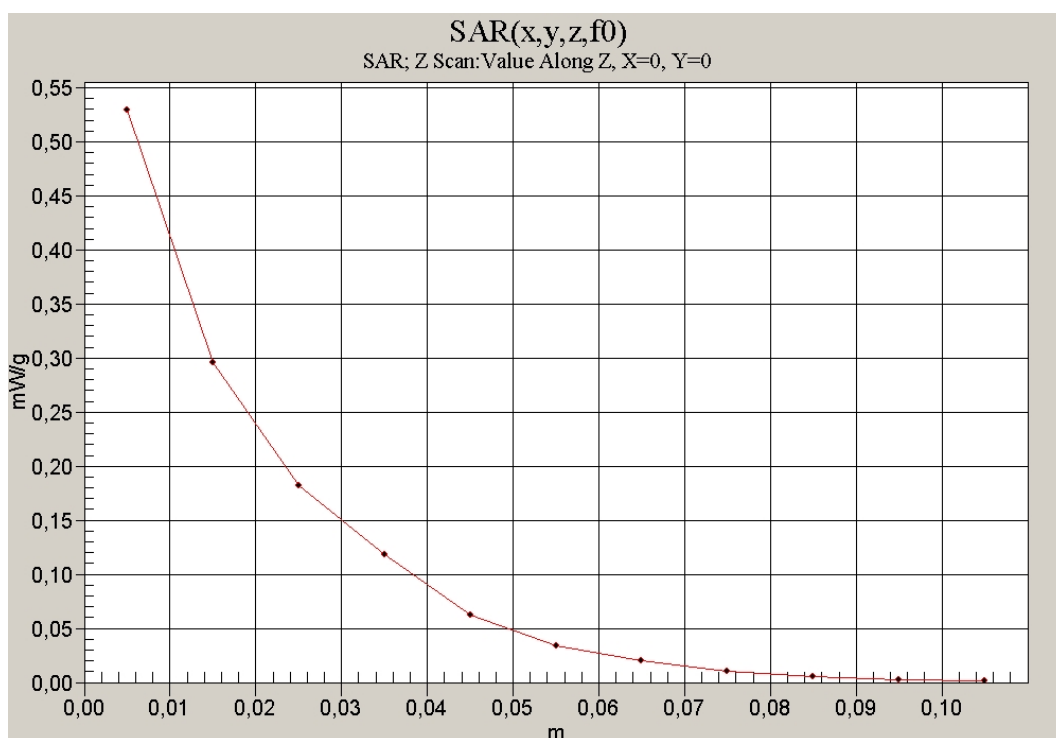


Fig. 22: SAR versus liquid depth, body: Tetra, 817.0125 MHz, shoulder belt case (July 31, 2012; Ambient Temperature: 22.8° C; Liquid Temperature: 22.4° C).