
Appendix for the Report

Dosimetric Assessment of the Portable Device

Mozart,

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(FCC ID: QDJ-0208MZT01)

According to the FCC Requirements

SAR Distribution Plots

September 10, 2002
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The test results only relate to the items tested.
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1 SAR Distribution Plots, Test side ambient conditions.

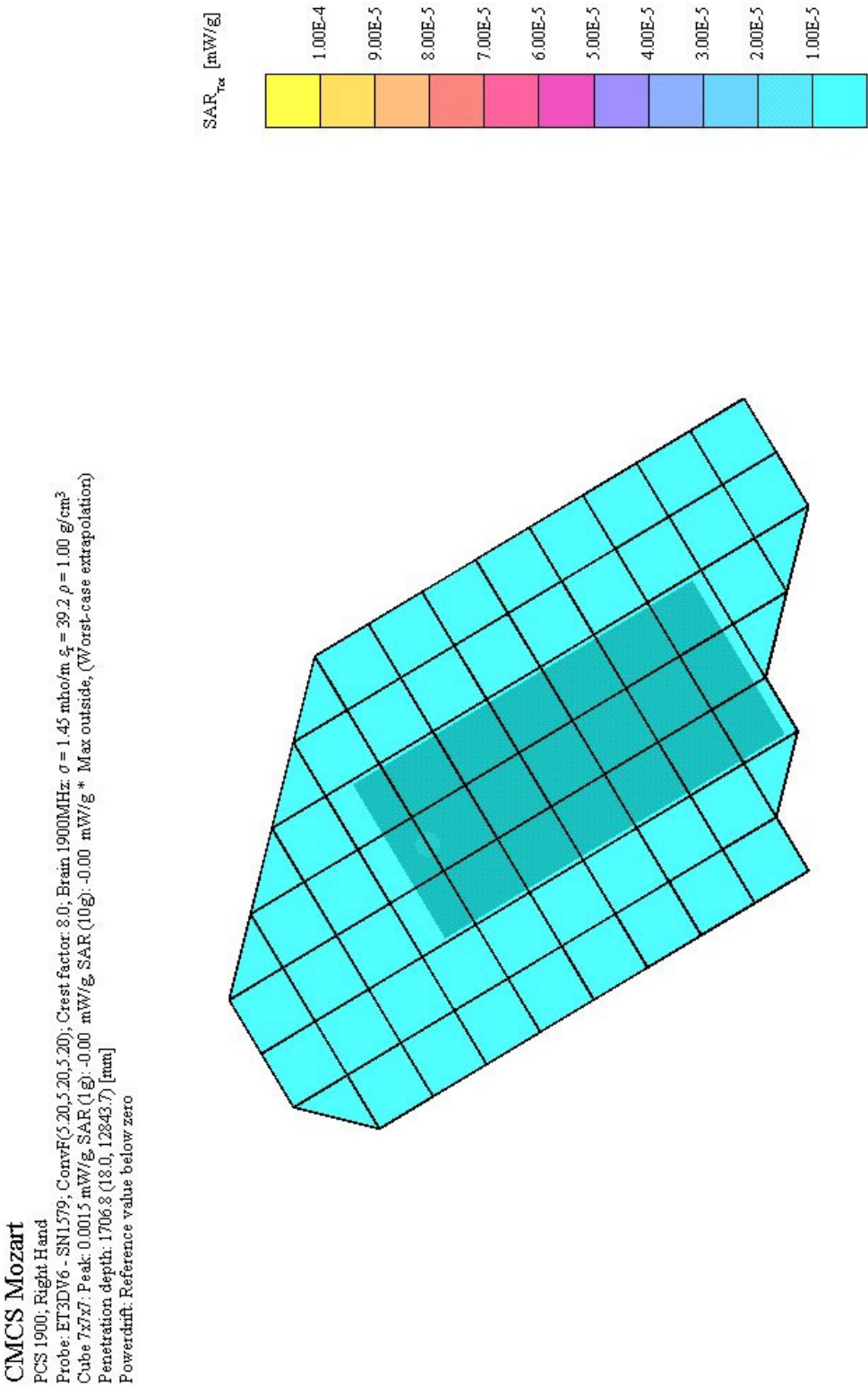


Fig. 1: Test side ambient measurements, 1900 MHz, head position.

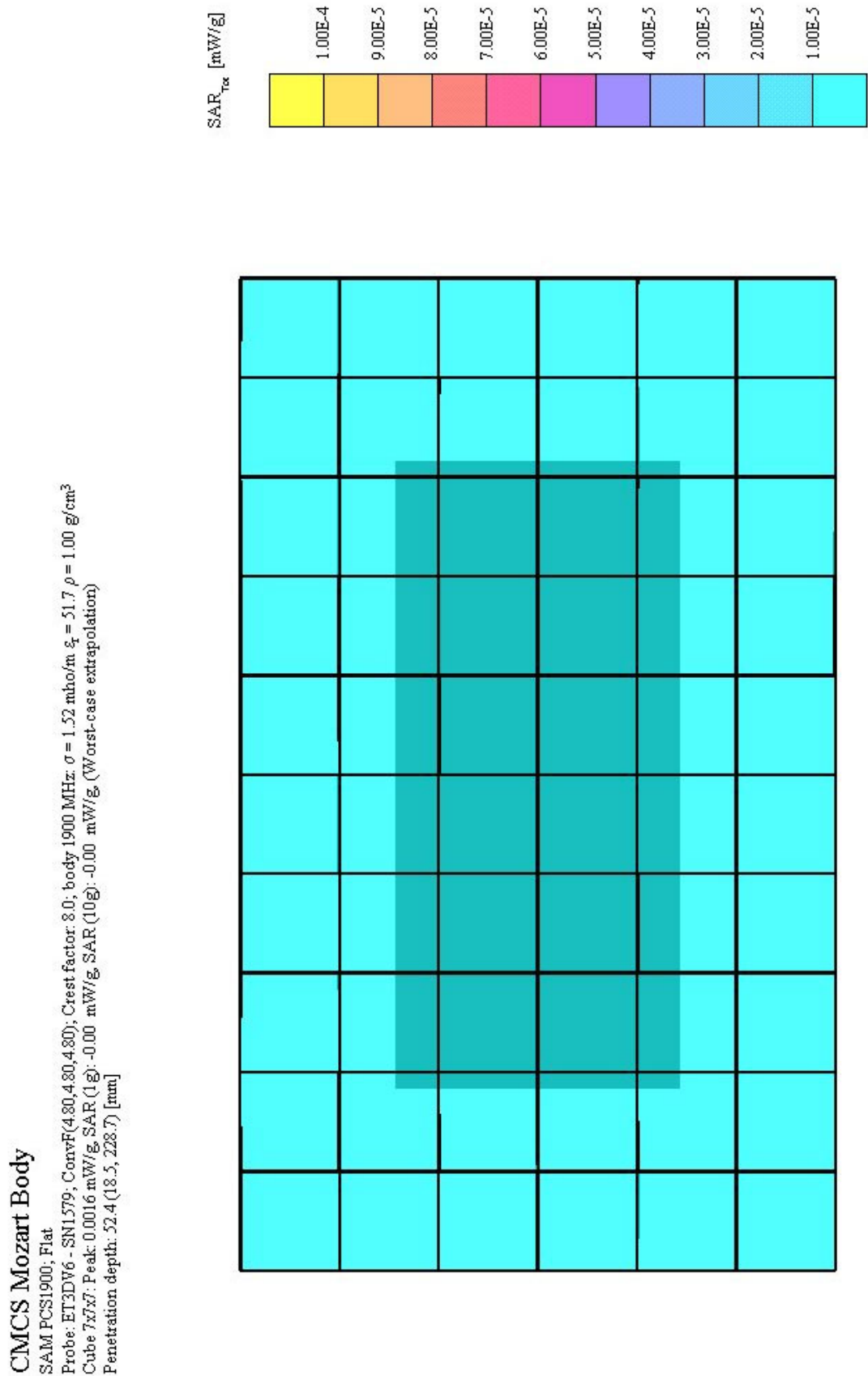


Fig. 2: Test side ambient measurements, 1900 MHz, body worn position.

2 SAR Distribution Plots, PCS1900 (Head)

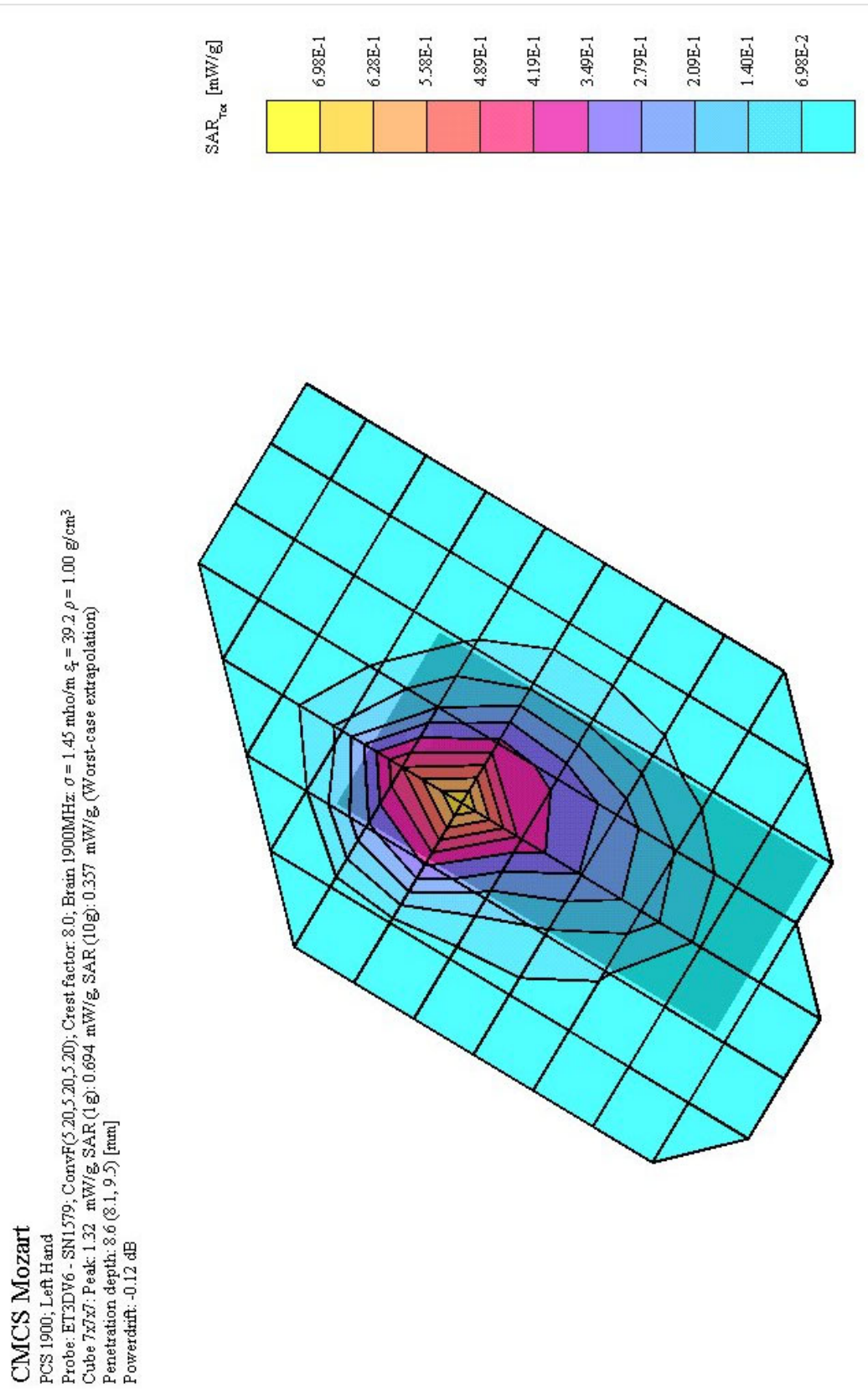


Fig. 3: SAR distribution, PCS 1900, channel 661, cheek position, left side of head.

CMCS Mozart

PCS 1900, Left Hand

Probe: ET3DV6 - SN1579; ConvF(5.20,5.20,5.20); Crest factor: 8.0; Brain 1900MHz: $\sigma = 1.45$ mho/m, $\epsilon_r = 39.2$, $\rho = 1.00$ g/cm³

Cube 7x7x7: Peak: 0.965 mW/g, SAR (1g): 0.528 mW/g, SAR (10g): 0.276 mW/g, (Worst-case extrapolation)

Penetration depth: 8.8 (8.2, 9.8) [mm]

Powerdrift: -0.17 dB

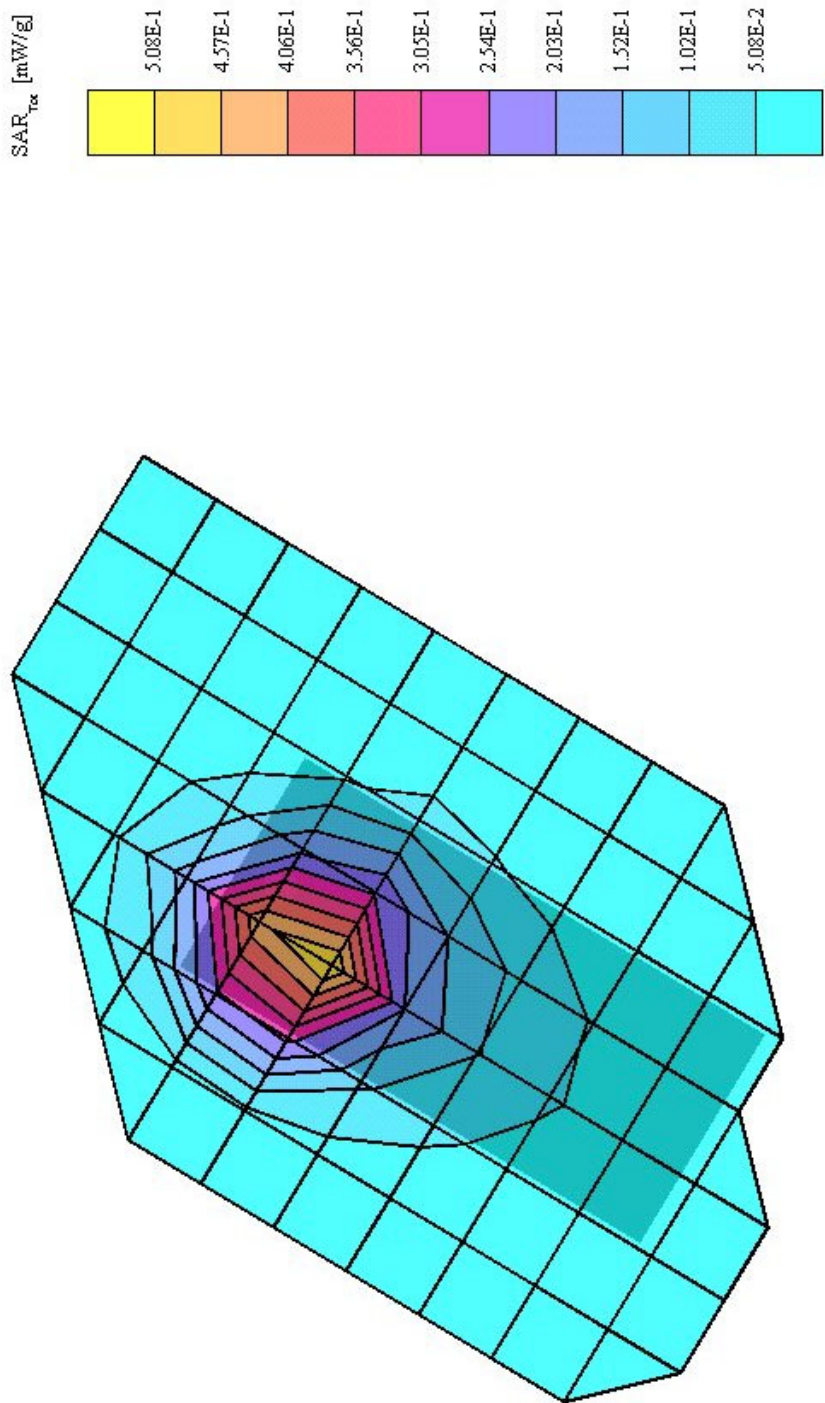


Fig. 4: SAR distribution, PCS 1900, channel 661, tilted position, left side of head.

CMCS Mozart

PCS 1900; Right Hand

Probe: ET3DV6 - SNI579; ConvF(5 20,5 20,5 20); Crest factor: 8.0; Brain 1900MHz: $\sigma = 1.45$ mho/m $\epsilon_r = 39.2$ $\rho = 1.00$ g/cm³

Cube 7x7x7; Peak: 1.77 mW/g SAR(1g): 0.900 mW/g SAR(10g): 0.423 mW/g (Worst-case extrapolation)

Penetration depth: 7.6 (7.3, 8.5) [mm]

Powerdrift: 0.03 dB

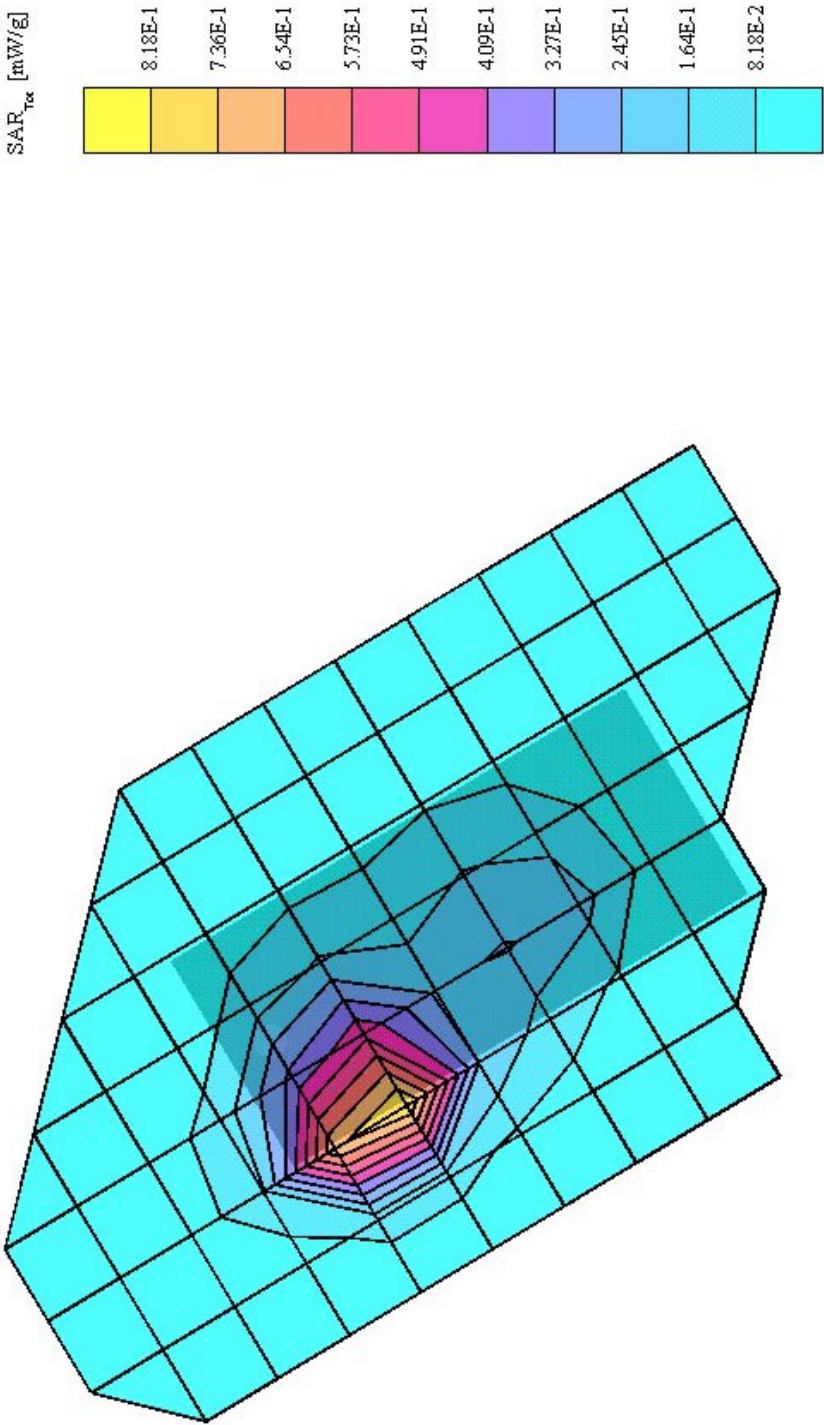


Fig. 5: Worst case SAR distribution, PCS1900, channel 810, cheek position, right side of head.

CMCS Mozart

PCS 1900; Right Hand

Probe: ET3DV6 - SN1579; ConvF(5.20,5.20,5.20); Crest factor: 8.0; Brain 1900MHz: $\sigma = 1.45$ mho/m, $\epsilon_r = 39.2$, $\rho = 1.00$ g/cm³

Cube 7x7x7: Peak: 1.20 mW/g, SAR(1g): 0.640 mW/g, SAR(10g): 0.321 mW/g (Worst-case extrapolation)

Penetration depth: 8.3 (7.9, 9.0) [mm]

Powerdrift: 0.06 dB

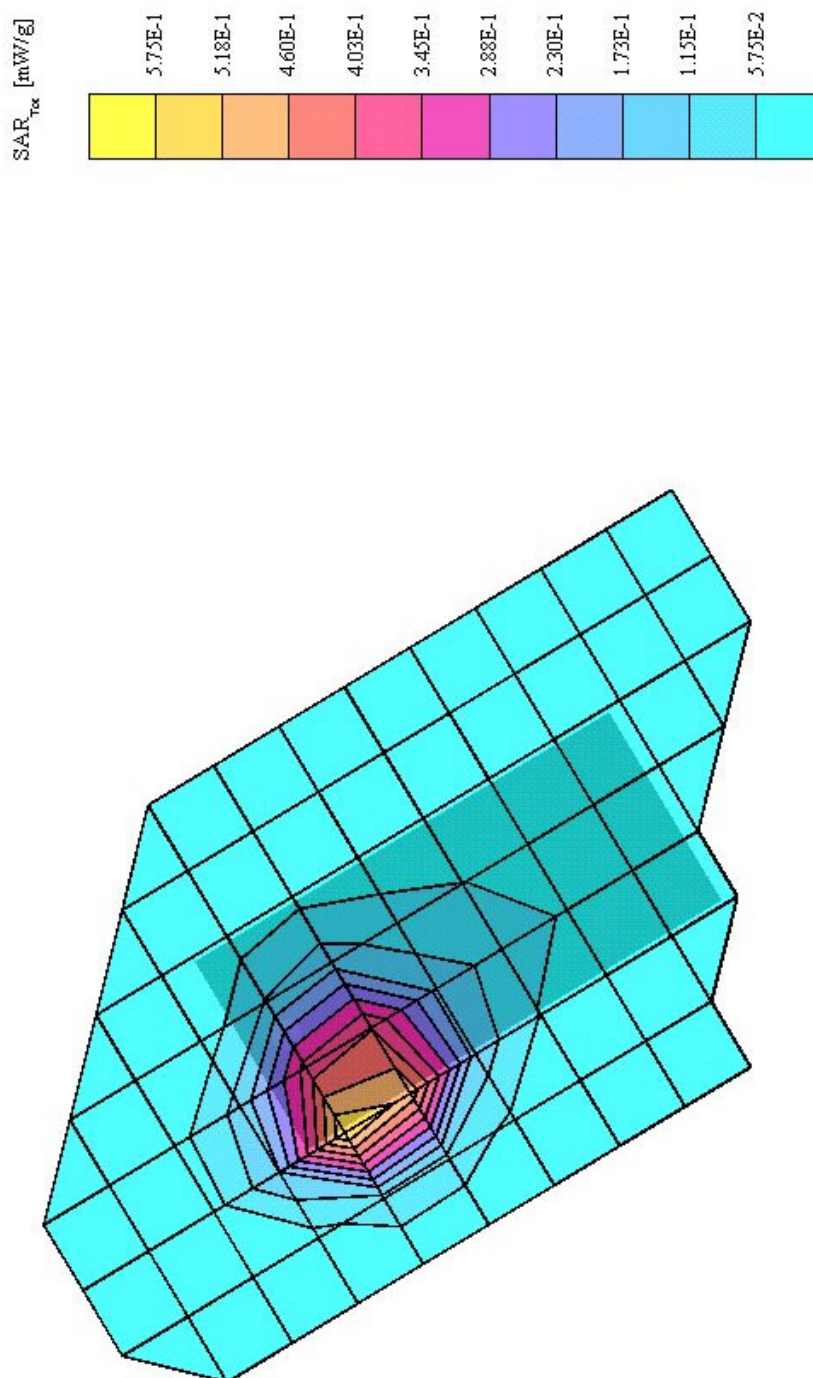


Fig. 6: SAR distribution, PCS1900, channel 661, tilted position, right side of head.

3 SAR Distribution Plots, PCS1900 (Body)

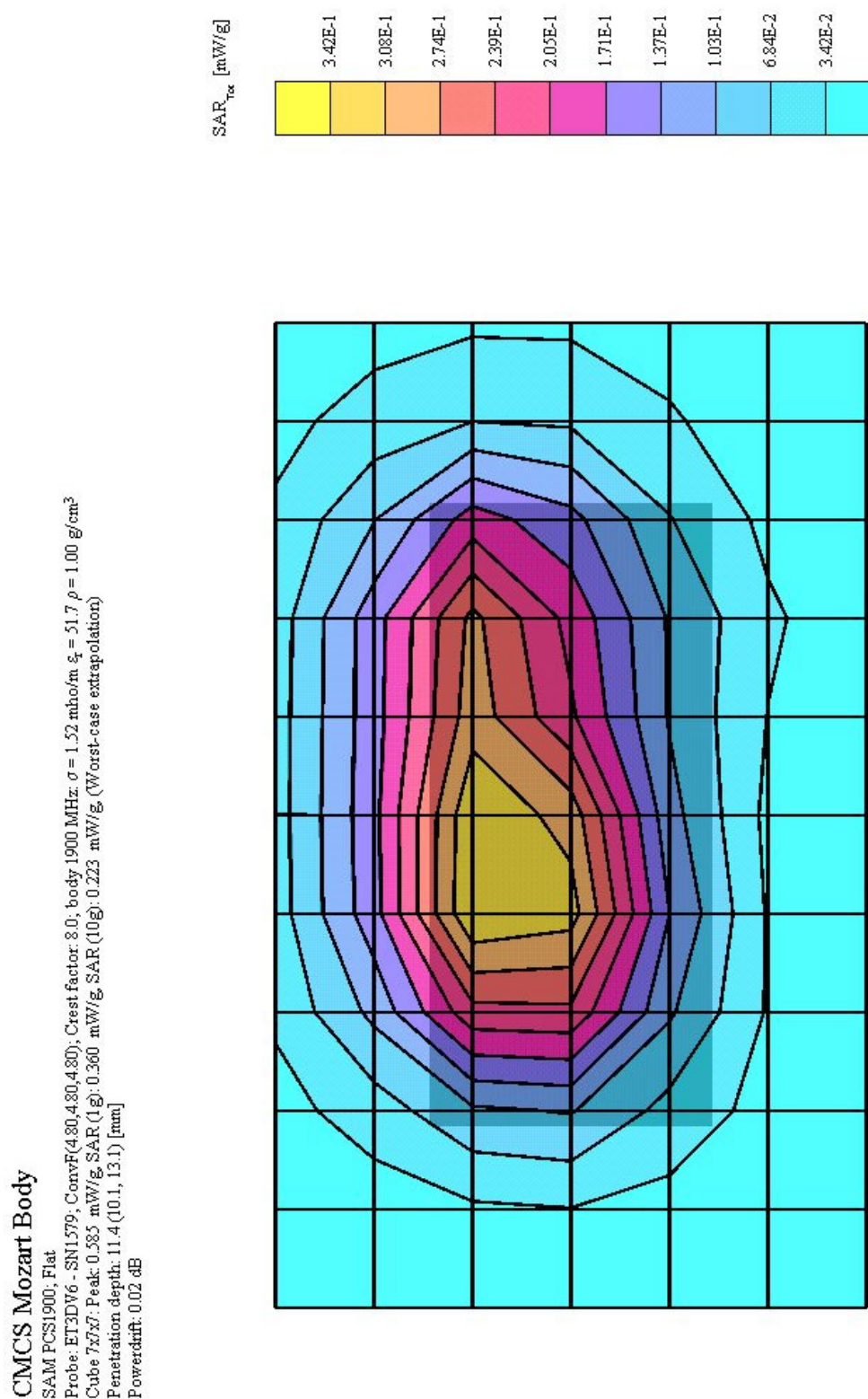


Fig. 7: Worst case SAR distribution, PCS1900, channel 810, body worn configuration with Headset, antenna towards the phantom (Talk mode, 1 TX slot).

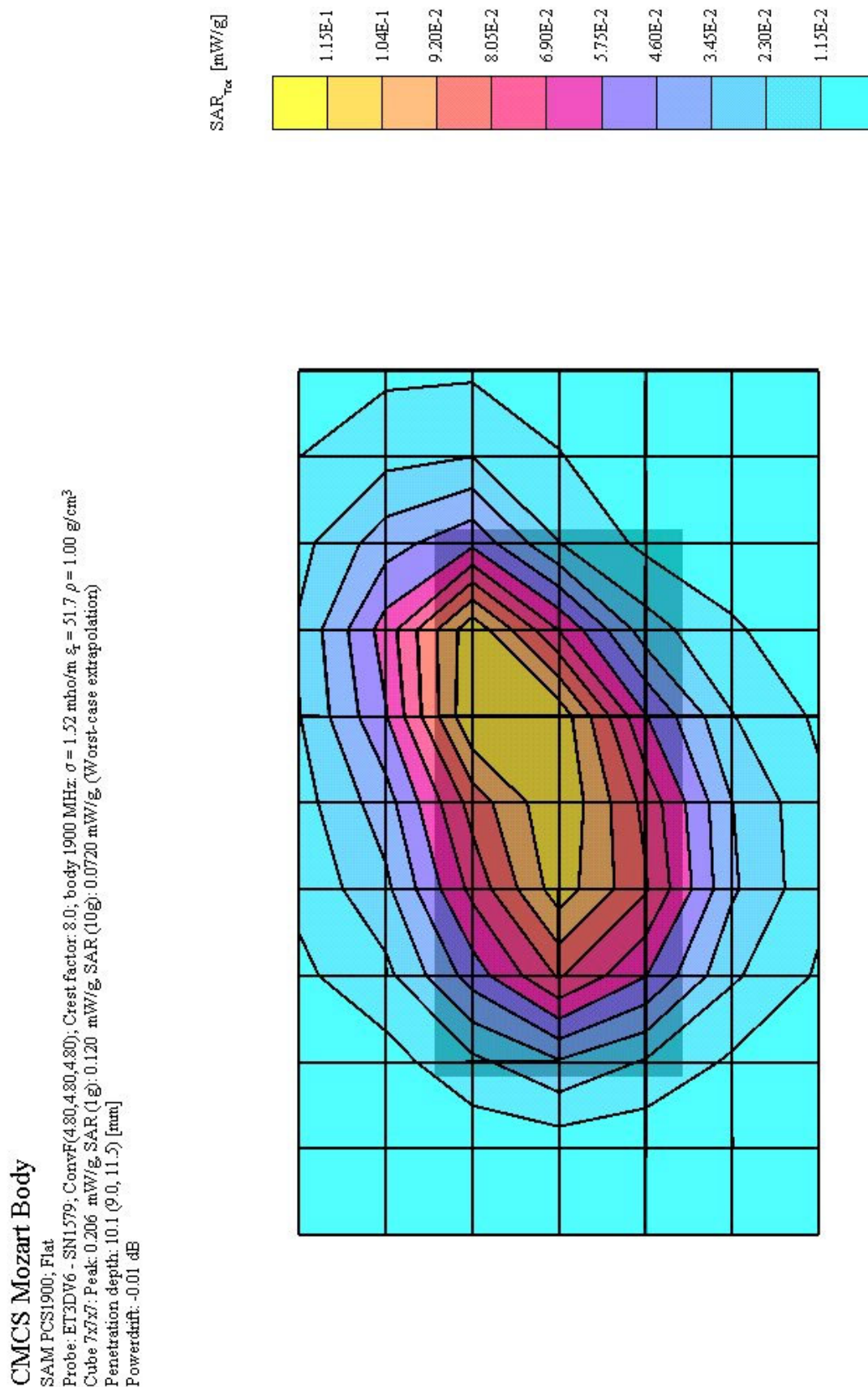


Fig. 8: Worst case SAR distribution, PCS1900, channel 512, body worn configuration with Headset, antenna towards the ground (Talk mode, 1 TX slot).

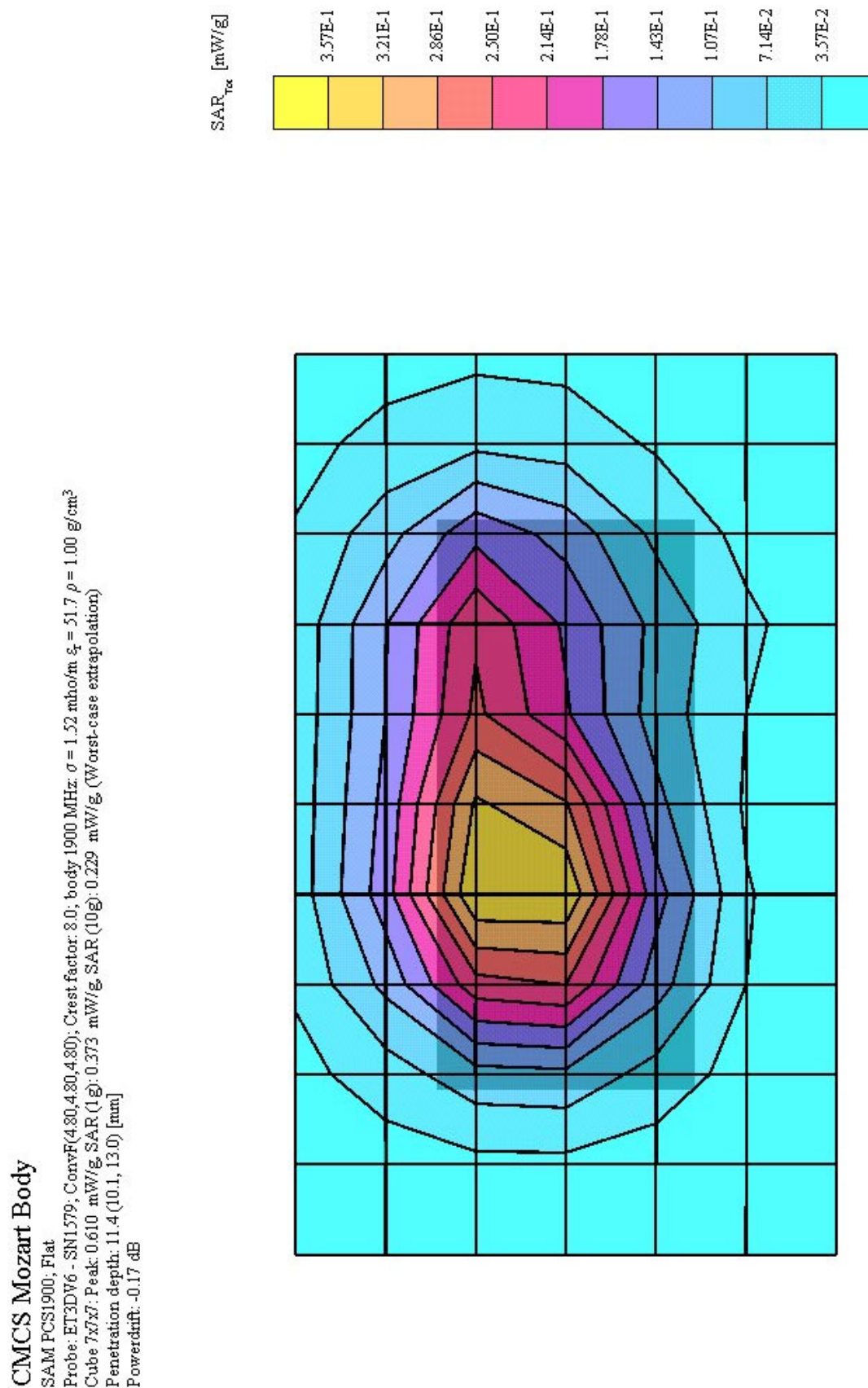


Fig. 9: Worst case SAR distribution, PCS1900, channel 810, body worn configuration without Headset, antenna towards the phantom (GPRS mode, 2 TX slots).

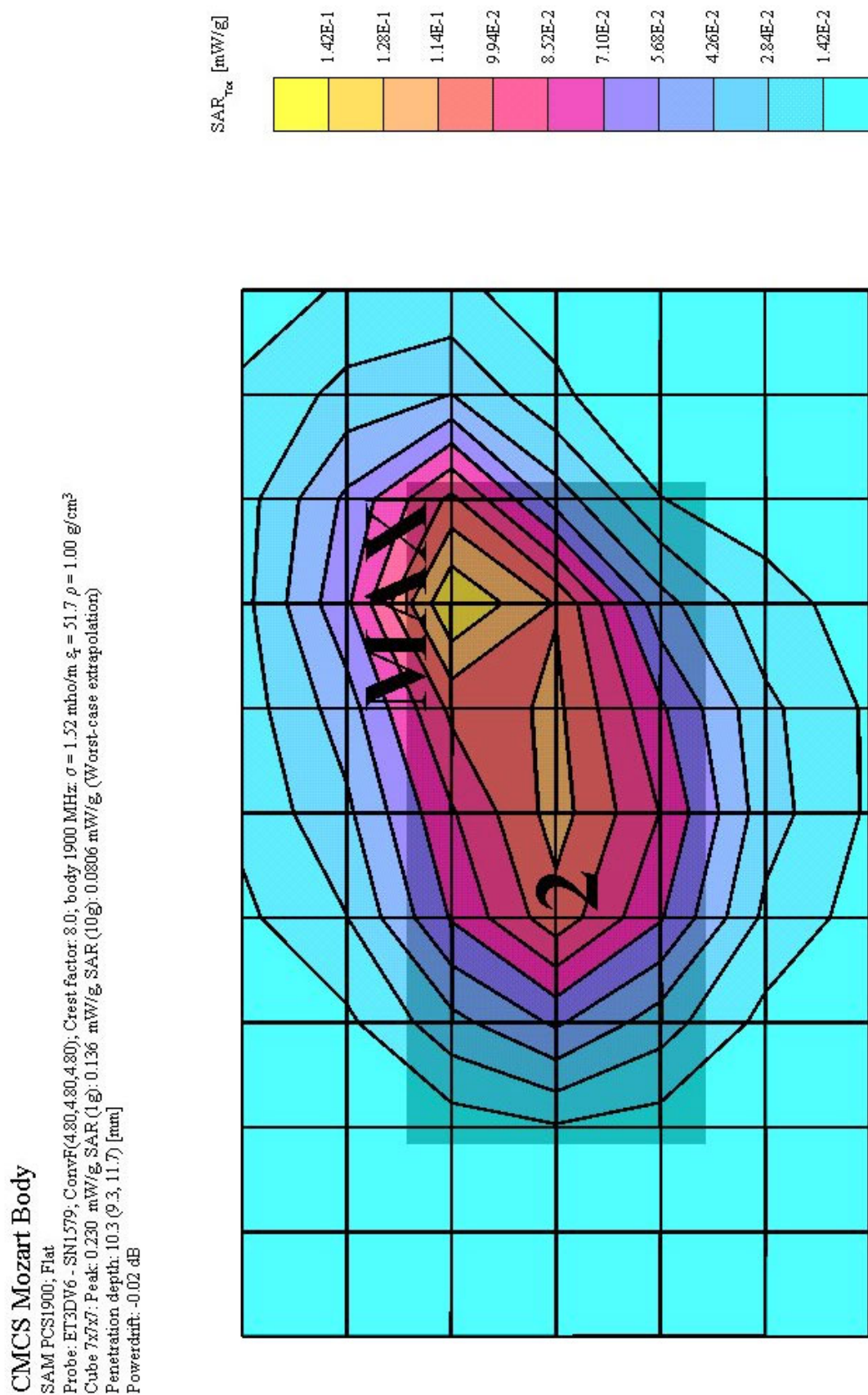


Fig. 10: SAR distribution, PCS1900, channel 512, body worn configuration without Headset, antenna towards the ground (GPRS mode, 2 TX slots). Cube 2: 0.240 W/kg.

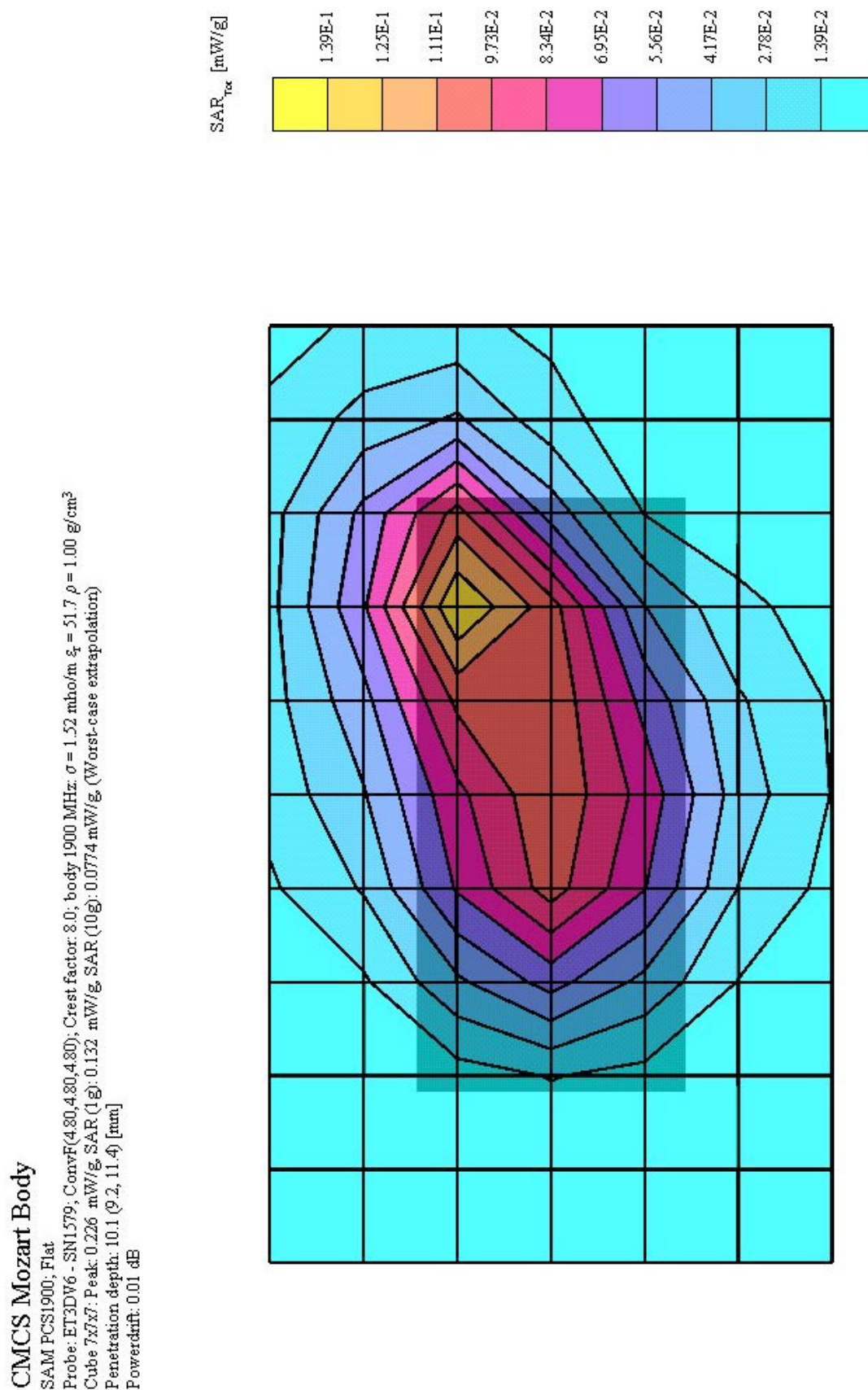


Fig. 11: SAR distribution, PCS1900, channel 661, body worn configuration without Headset, antenna towards the ground (GPRS mode, 2 TX slots).

CMCS Mozart Body

SAM PCS1900; Flat

Probe: ET3DV6 - SN1579; ConvF(480,480,480); Crest factor: 8.0; body 1900 MHz: $\sigma = 1.52$ mho/m $\epsilon_r = 51.7$ $\rho = 1.00$ g/cm³

Cube 7x7x7; Peak: 0.231 mW/g; SAR (1g): 0.134 mW/g; SAR (10g): 0.0772 mW/g (Worst-case extrapolation)

Penetration depth: 9.9 (9.0, 11.2) [mm]

Powerdrift: -0.12 dB

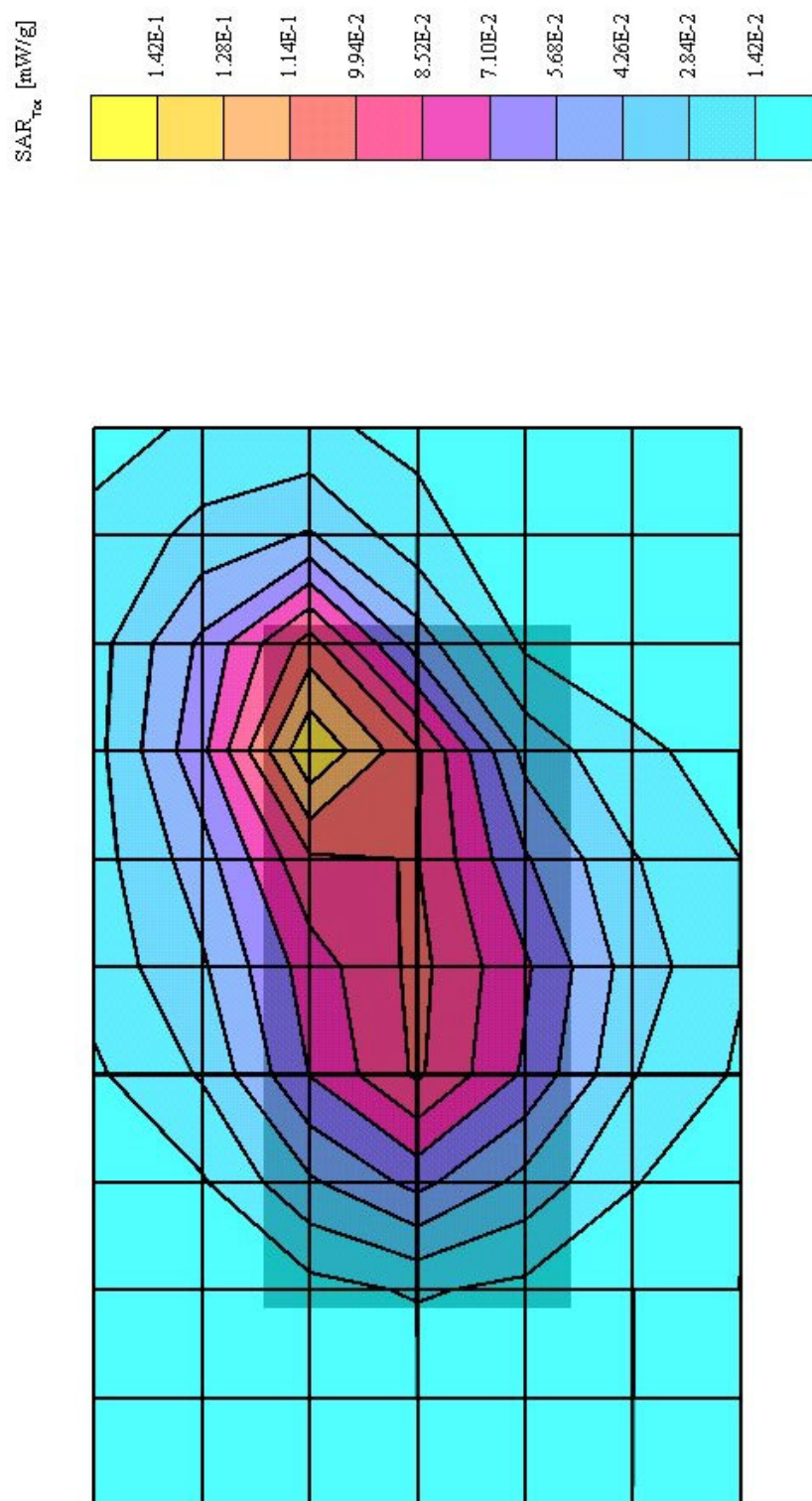


Fig. 12: SAR distribution, PCS1900, channel 810, body worn configuration without Headset, antenna towards the ground (GPRS mode, 2 TX slots).

4 SAR z-axis scans (Validation)

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

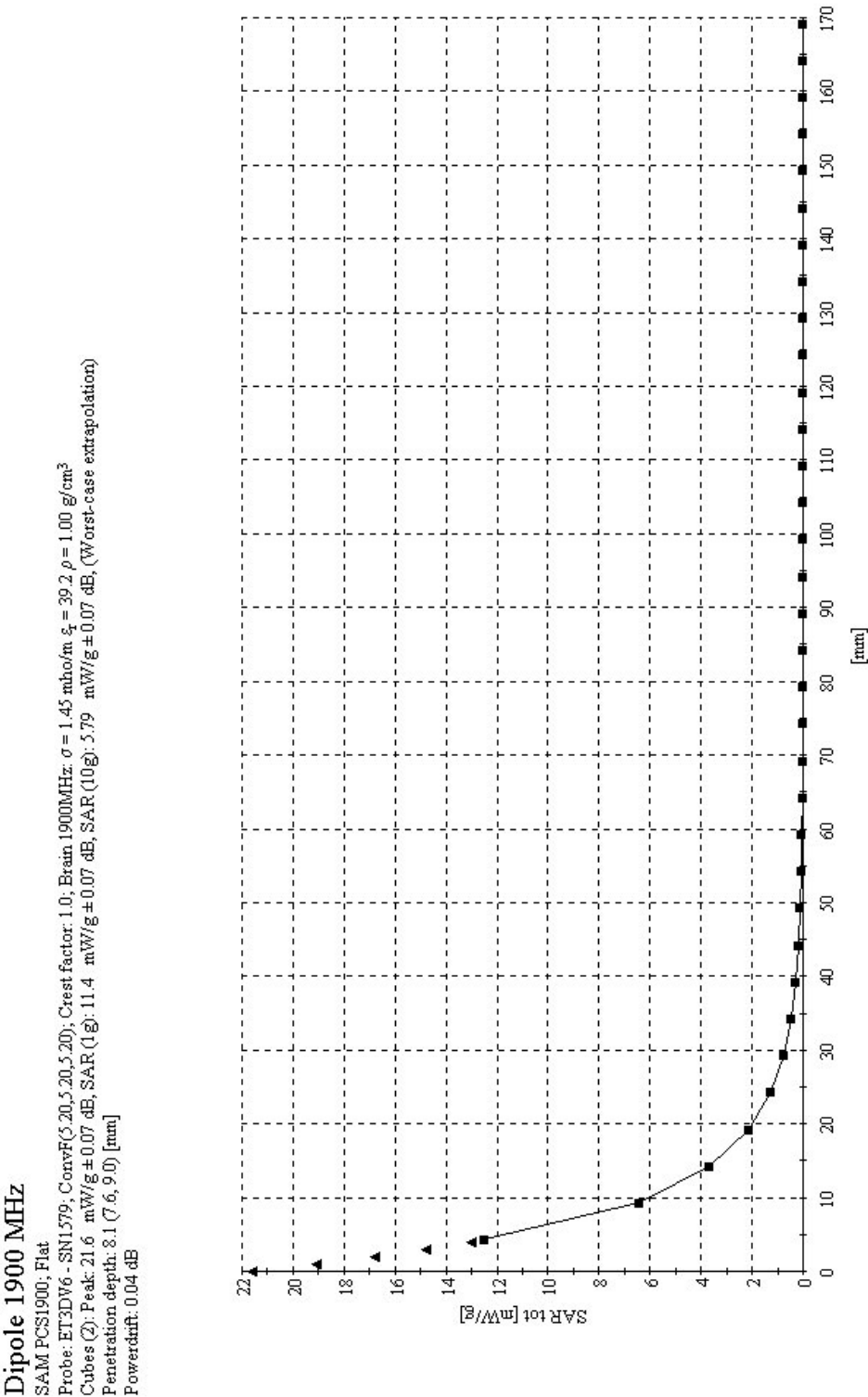


Fig. 13: SAR versus liquid depth, 1900 MHz, Validation Head.

Dipole 1900 MHz
SAM PCS1900, Flat
Probe: ET3DV6 - SN1579; ConvF(480,480), Crest factor: 1.0; body 1900 MHz: $\sigma = 1.52 \text{ mho/m}$ $\epsilon_r = 51.7$ $\rho = 1.00 \text{ g/cm}^3$
Cubes (2): Peak: $21.1 \text{ mW/g} \pm 0.02 \text{ dB}$, SAR (10g): $11.2 \text{ mW/g} \pm 0.03 \text{ dB}$, SAR (10g): $5.72 \text{ mW/g} \pm 0.03 \text{ dB}$, (Worst-case extrapolation)
Penetration depth: $8.6 (7.9, 9.9) \text{ [mm]}$
Powerdrift: -0.03 dB

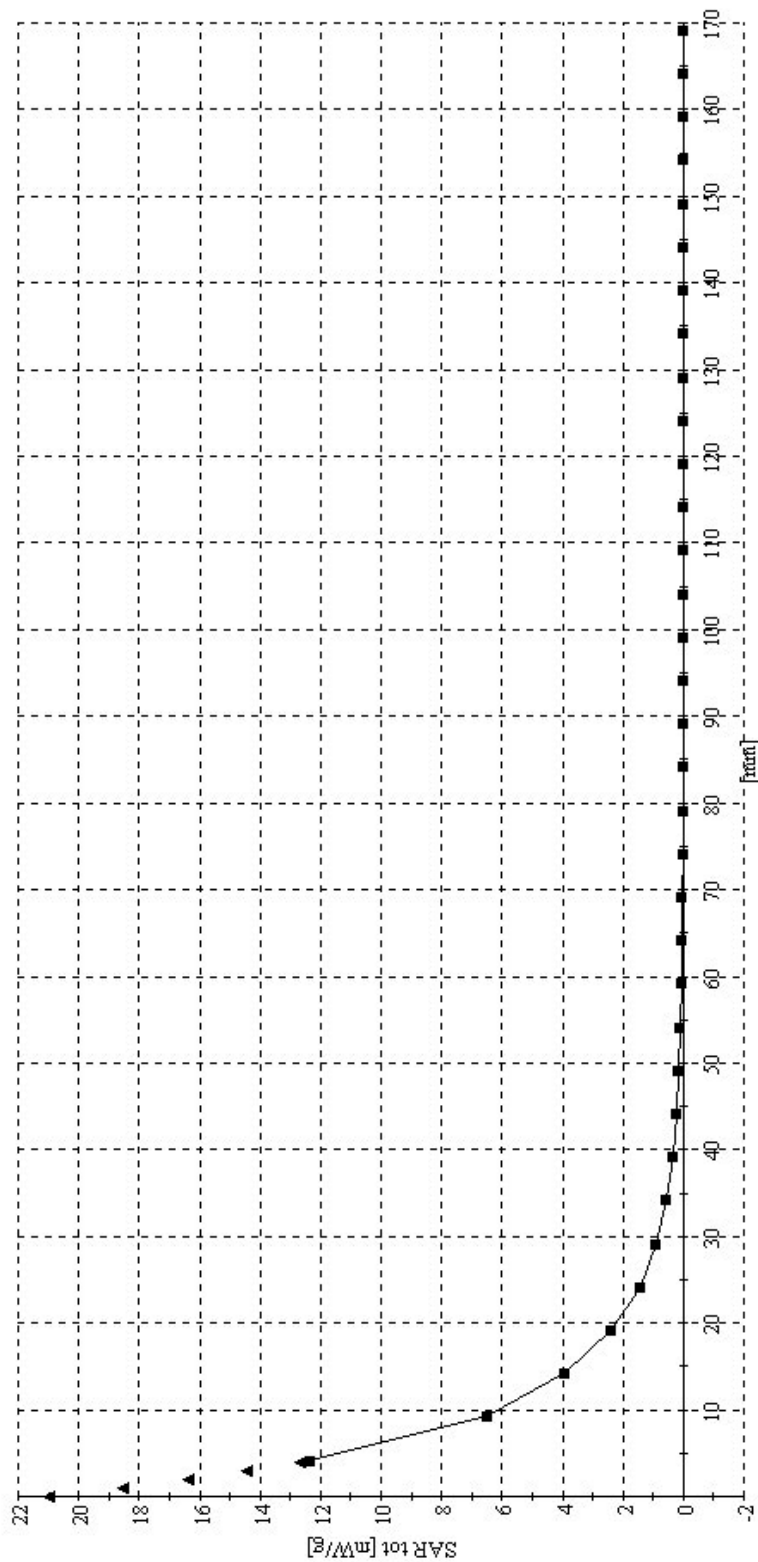


Fig. 14: SAR versus liquid depth, 1900 MHz, Validation Body.

5 SAR z-axis scans (Measurements)

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

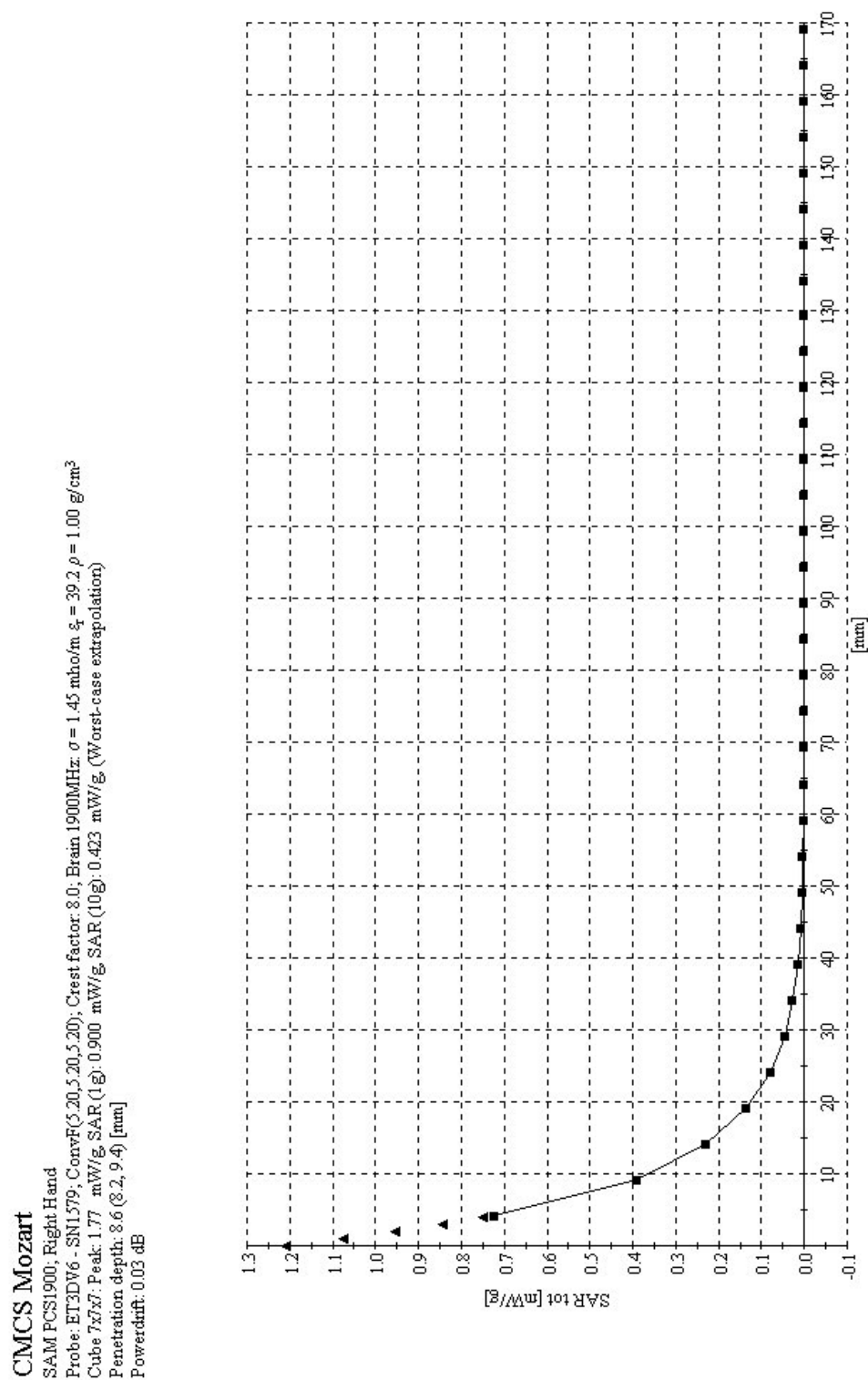


Fig. 15: SAR versus liquid depth, PCS 1900, channel 810, cheek position, right side of head.

CMCS Mozart Body

SAM PCS 1900; Flat
Probe: ET3DV6 - SN1579; ConvF(4.80,4.80); Crest factor: 8.0; body 1900 MHz: $\sigma = 1.52$ mho/m $\epsilon_r = 51.7$ $\rho = 1.00$ g/cm³
Cube 7x7x7: Peak: 0.610 mW/g, SAR (1g): 0.373 mW/g, SAR (10g): 0.229 mW/g (Worst-case extrapolation)
Penetration depth: 11.0 (9.8, 12.7) [mm]

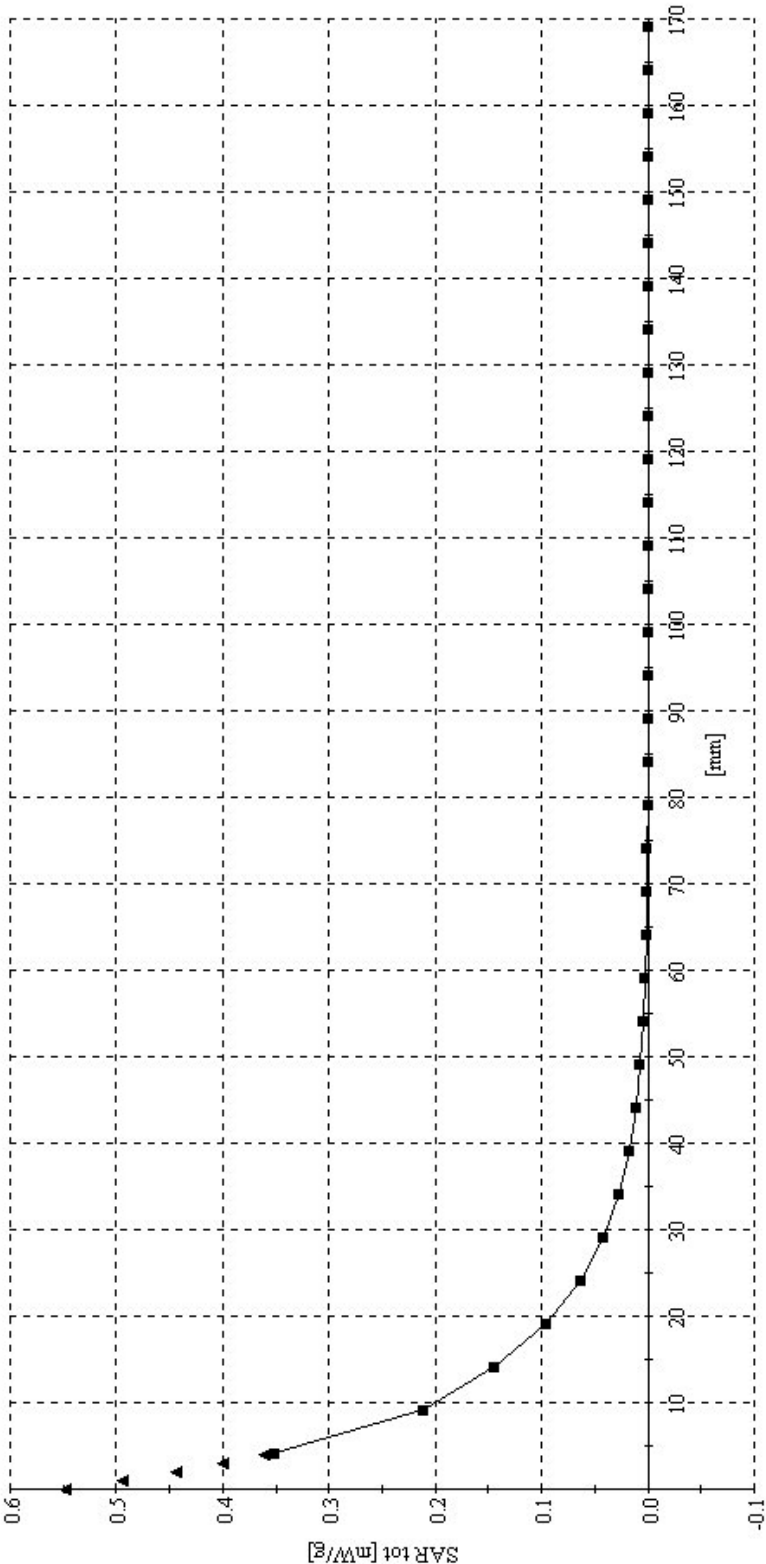


Fig. 16: SAR versus liquid depth, PCS 1900, channel 810, body worn configuration without Headset (GPRS mode, 2 TX slots).