
Appendix for the Report

Dosimetric Assessment of the Portable Device

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(FCC ID: QDJ-0208WAG01)

According to the FCC Requirements

SAR Distribution Plots

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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.

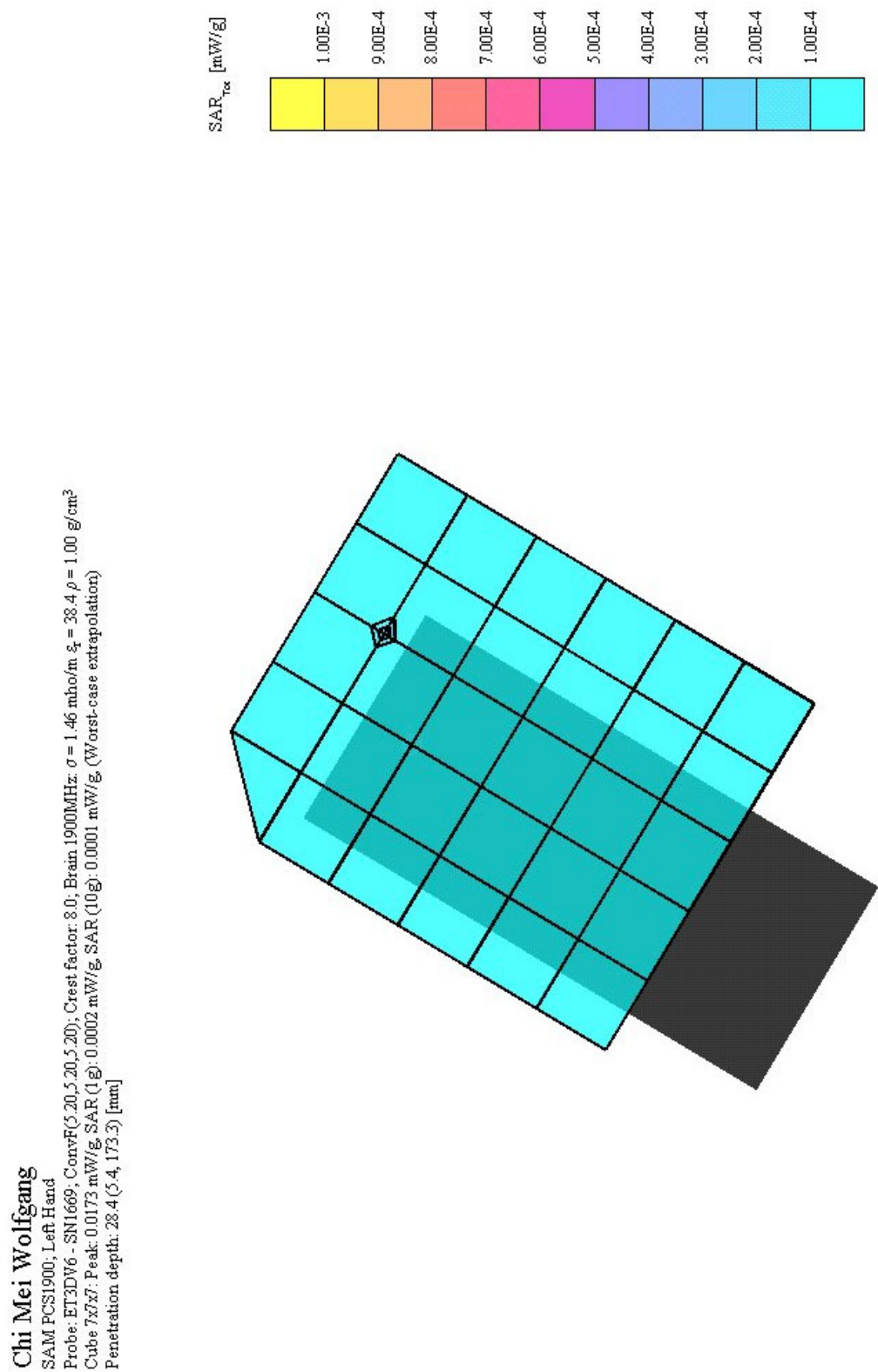


Fig. 1: Test side ambient measurements, 1900 MHz, head position.

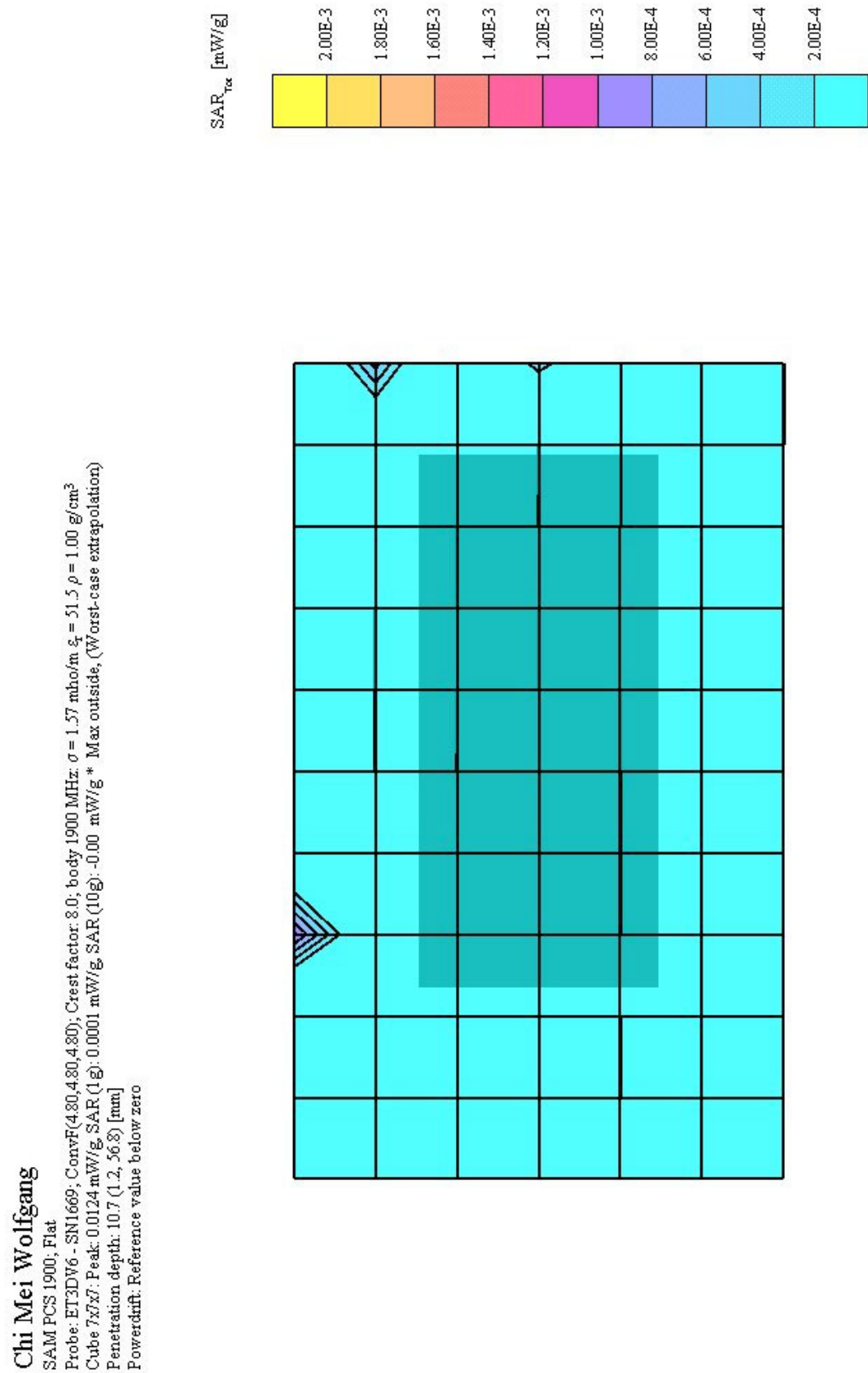


Fig. 2: Test side ambient measurements, 1900 MHz, body worn position.

2 SAR Distribution Plots, PCS1900 (Head)

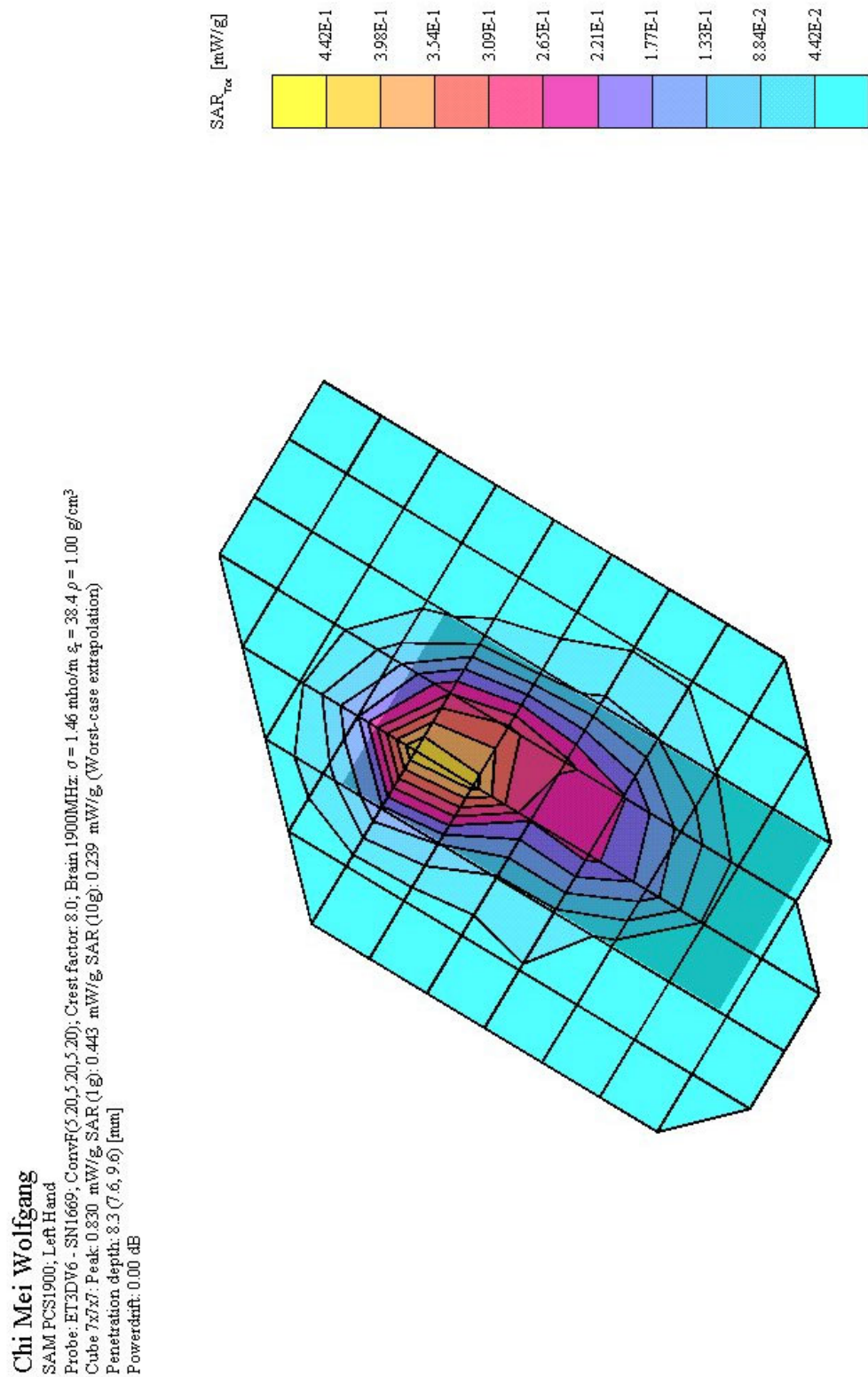


Fig. 3: SAR distribution, PCS 1900, channel 661, cheek position, left side of head.

Chi Mei Wolfgang

SAM PCS1900; Left Hand

Probe: ET3DW6 - SN1669; ConvF(5.20,5.20,5.20); Crest factor: 3.0; Brain 1900MHz: $\sigma = 1.46$ mho/m $\epsilon_r = 38.4$ $\rho = 1.00$ g/cm³

Cube 7x7x7: Peak: 0.811 mW/g; SAR (1g): 0.443 mW/g; SAR (10g): 0.237 mW/g; (Worst-case extrapolation)

Penetration depth: 3.6 (3.1, 9.5) [mm]

Powerdrift: 0.02 dB

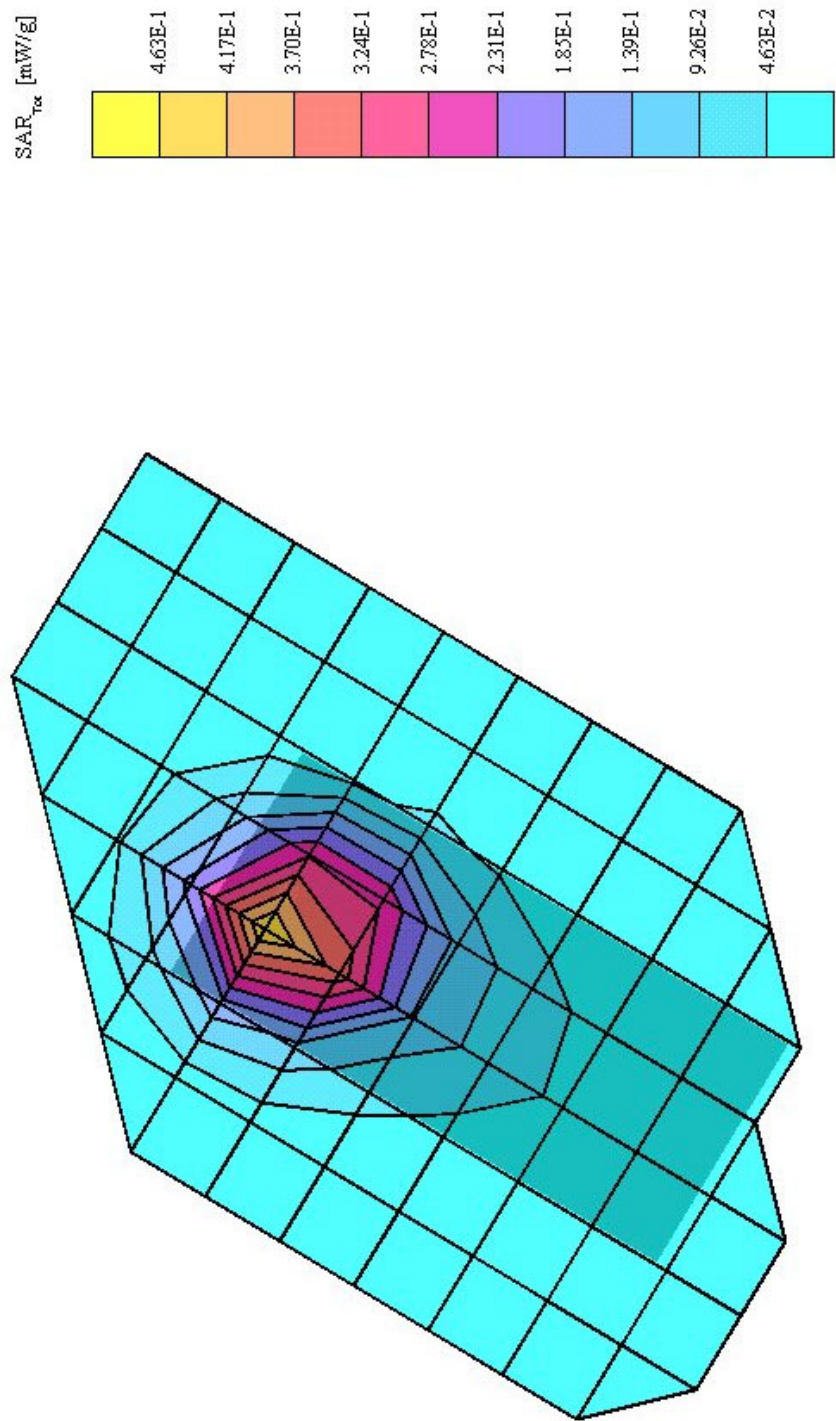


Fig. 4: SAR distribution, PCS 1900, channel 661, tilted position, left side of head.

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SAM PCS1900; Right Hand

Probe: ET3DW6 - SN1669; ConvF(5.20,5.20,5.20); Crest factor: 3.0; Brain 1900MHz: $\sigma = 1.46$ mho/m $\epsilon_r = 38.4$ $\rho = 1.00$ g/cm³

Cube 7x7x7: Peak: 1.13 mW/g SAR (1g) 0.591 mW/g SAR (10g) 0.295 mW/g (Worst-case extrapolation)

Penetration depth: 8.1 (7.9, 8.6) [mm]

Powerdrift: -0.07 dB

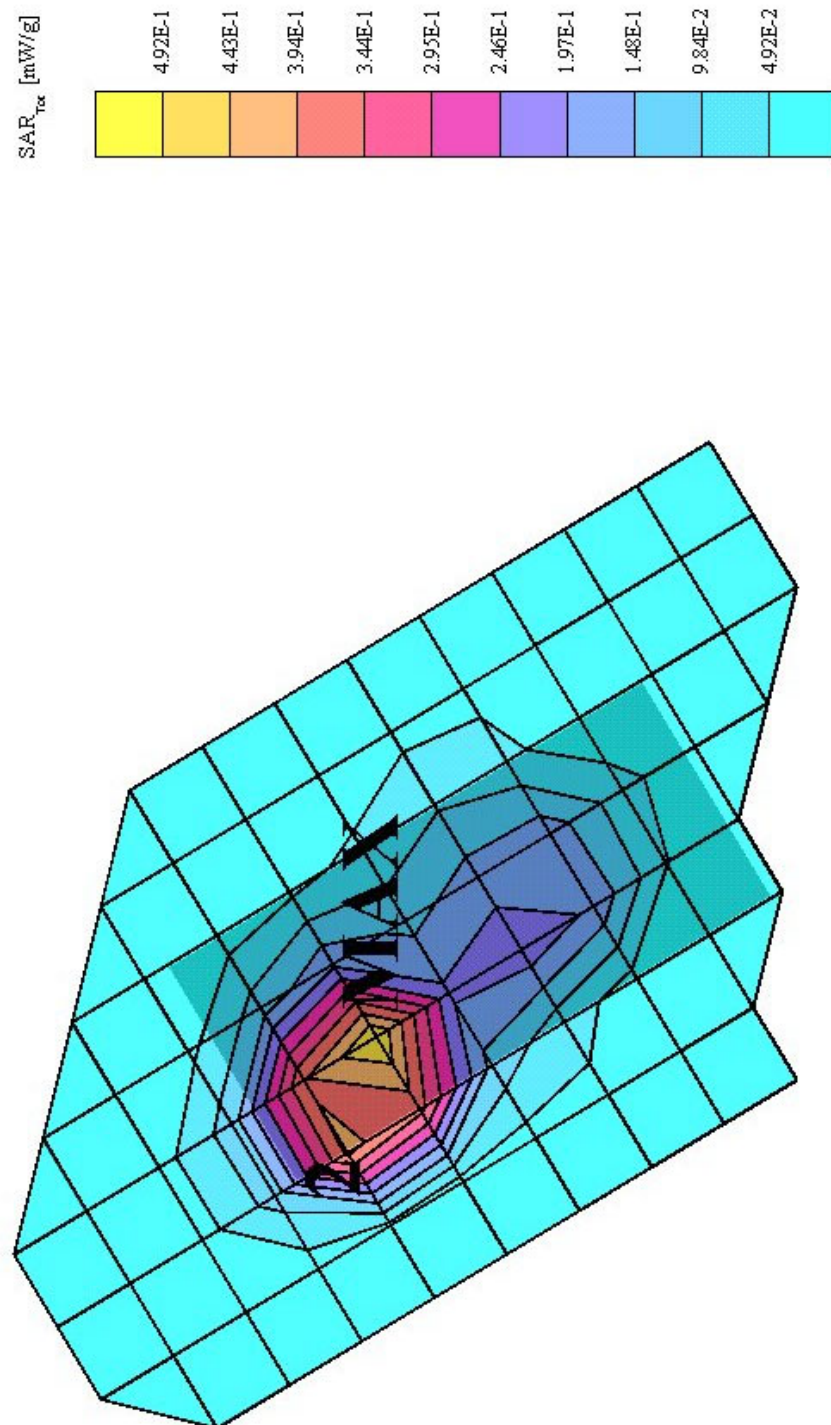


Fig. 5: SAR distribution, PCS1900, channel 661, cheek position, right side of head. Cube 2: 0.562 W/kg.

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SAM PCS1900; Right Hand

Probe: ET3DV6 - SN1669; ConvF(5.20,5.20,5.20); Crest factor: 8.0; Brain 1900MHz: $\sigma = 1.46$ mho/m, $\epsilon_r = 38.4$, $\rho = 1.00$ g/cm³
Cube 7x7x7: Peak: 0.922 mW/g, SAR (1g): 0.499 mW/g, SAR (10g): 0.262 mW/g, (Worst-case extrapolation)

Penetration depth: 8.5 (8.3, 8.8) [mm]

Powerdrift: 0.07 dB

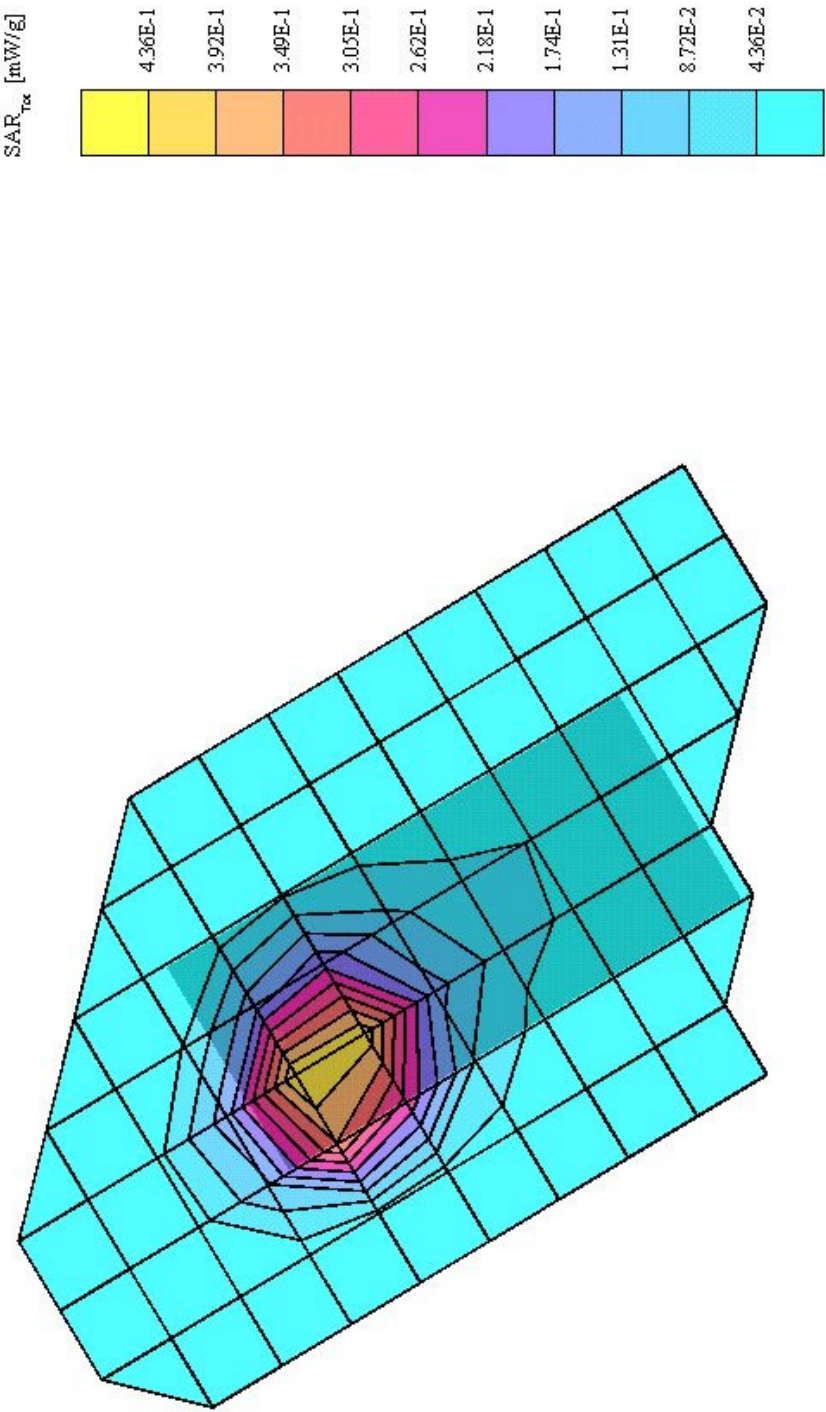


Fig. 6: SAR distribution, PCS1900, channel 661, tilted position, right side of head.

3 SAR Distribution Plots, PCS1900 (Body)

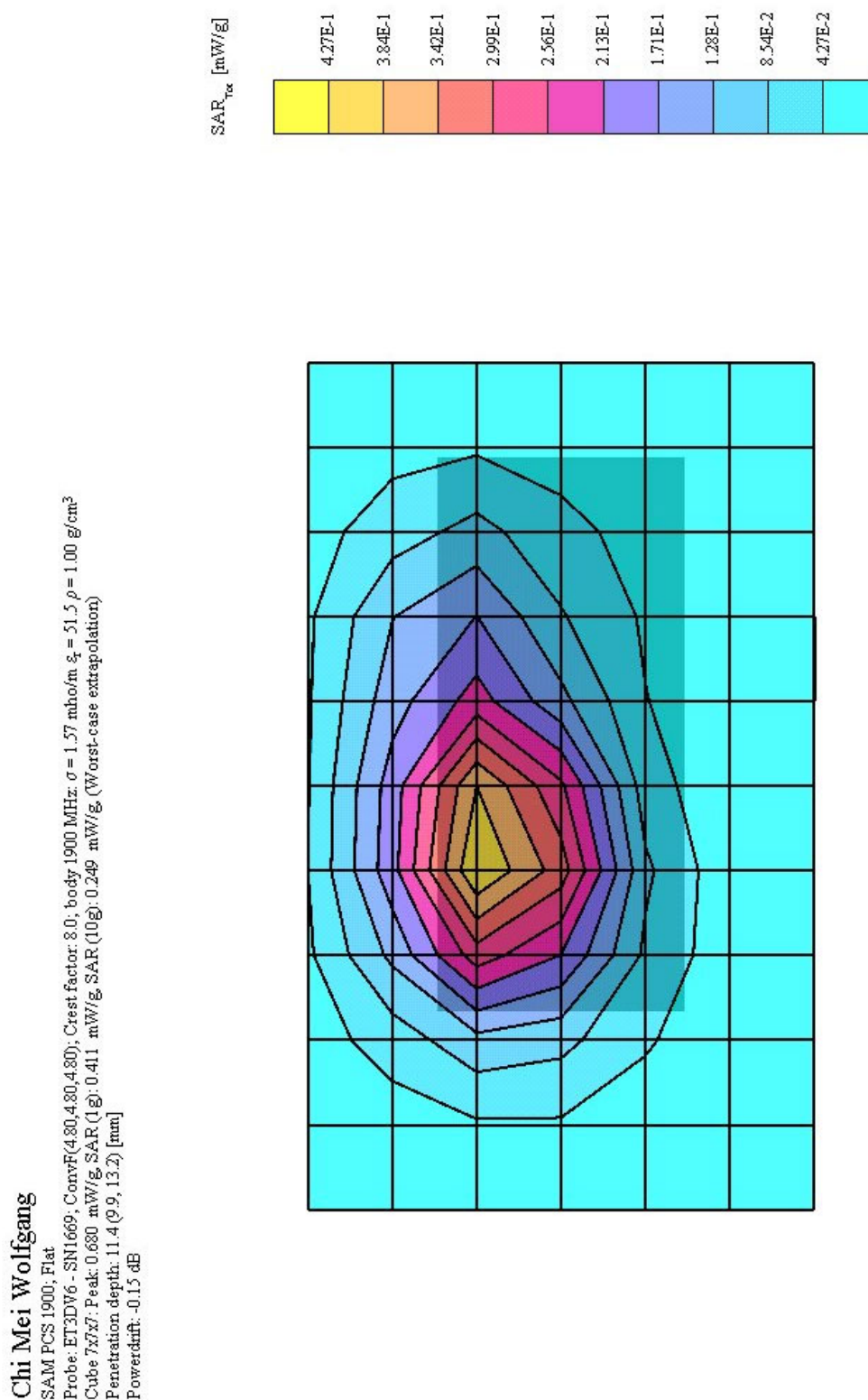


Fig. 7: Worst case SAR distribution, PCS1900, channel 512, body worn configuration with Headset, antenna towards the phantom (Talk mode, 1 TX slot).

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SAM PCS 1900; Flat
Probe: ET3DV6 - SN1669; ConvF(4.80,4.80,4.80); Crest factor: 8.0; body 1900 MHz; $\sigma = 1.57$ mho/m $\epsilon_r = 51.5$ $\rho = 1.00$ g/cm³
Cube 7x7x7; Peak: 0.140 mW/g; SAR (1g): 0.0821 mW/g; SAR (10g): 0.0473 mW/g (Worst-case extrapolation)
Penetration depth: 9.6 (9.4, 9.9) [mm]
Powerdrift: -0.04 dB

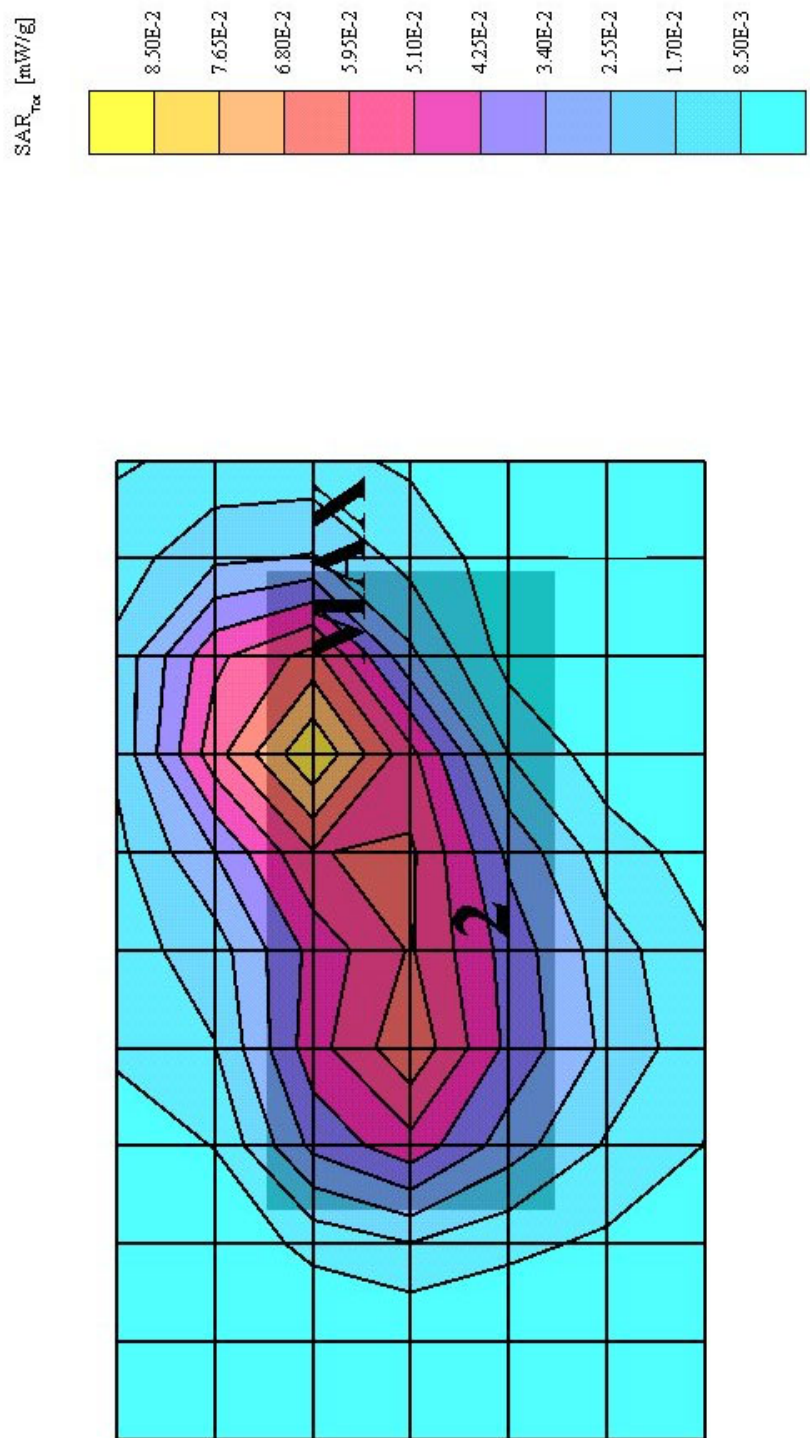


Fig. 8: Worst case SAR distribution, PCS1900, channel 661, body worn configuration with Headset, antenna towards the ground (Talk mode, 1 TX slot, Cube2: 0.0607 W/kg) .

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SAM PCS 1900, Flat
Probe: ET3DV6 - SN1669; ConvF(4.80,4.80,4.80); Crest factor: 8.0; body 1900 MHz: $\sigma = 1.57$ mho/m $\epsilon_r = 51.5$ $\rho = 1.00$ g/cm³
Cube 7x7x7: Peak: 0.768 mW/g SAR(1g): 0.464 mW/g SAR(10g): 0.281 mW/g (Worst-case extrapolation)
Penetration depth: 11.4 (9.9, 13.2) [mm]
Powerdrift: -0.16 dB

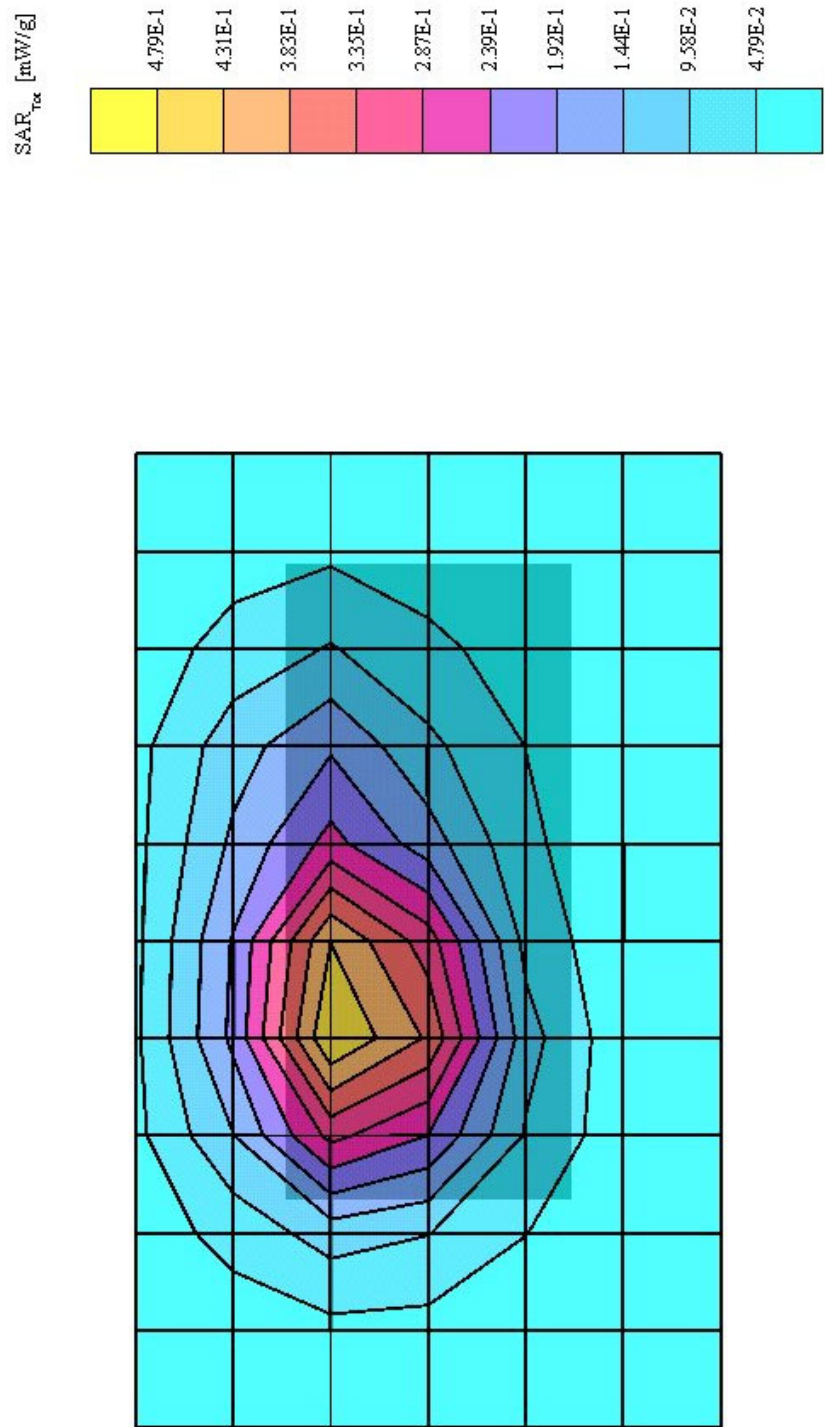


Fig. 9: Worst case SAR distribution, PCS1900, channel 512, body worn configuration without Headset, antenna towards the phantom (GPRS mode, 2 TX slots).

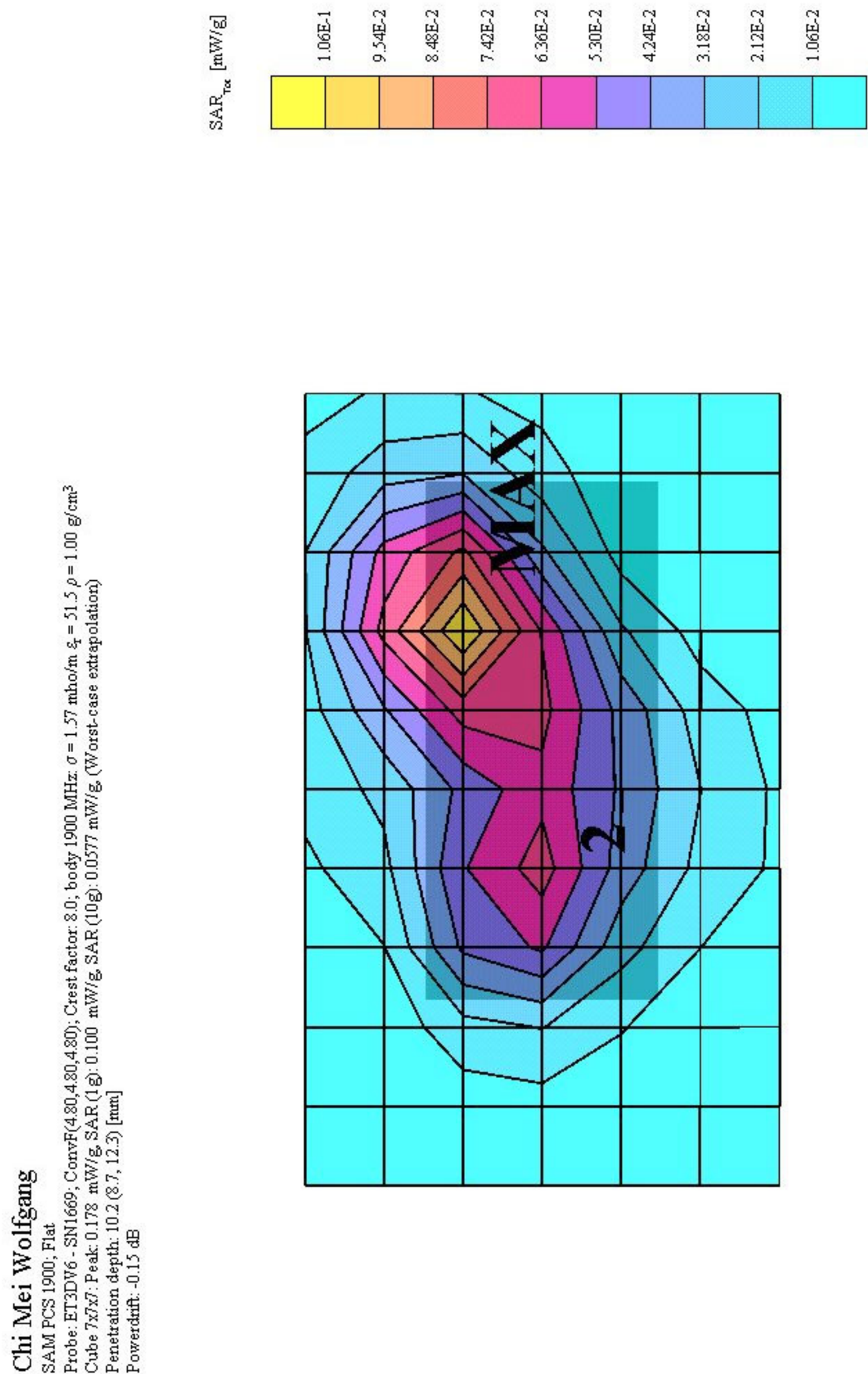


Fig. 10: SAR distribution, PCS1900, channel 512, body worn configuration without Headset, antenna towards the ground (GPRS mode, 2 TX slots, Cube 2: 0.0658 W/kg).

4 SAR z-axis scans (Validation)

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

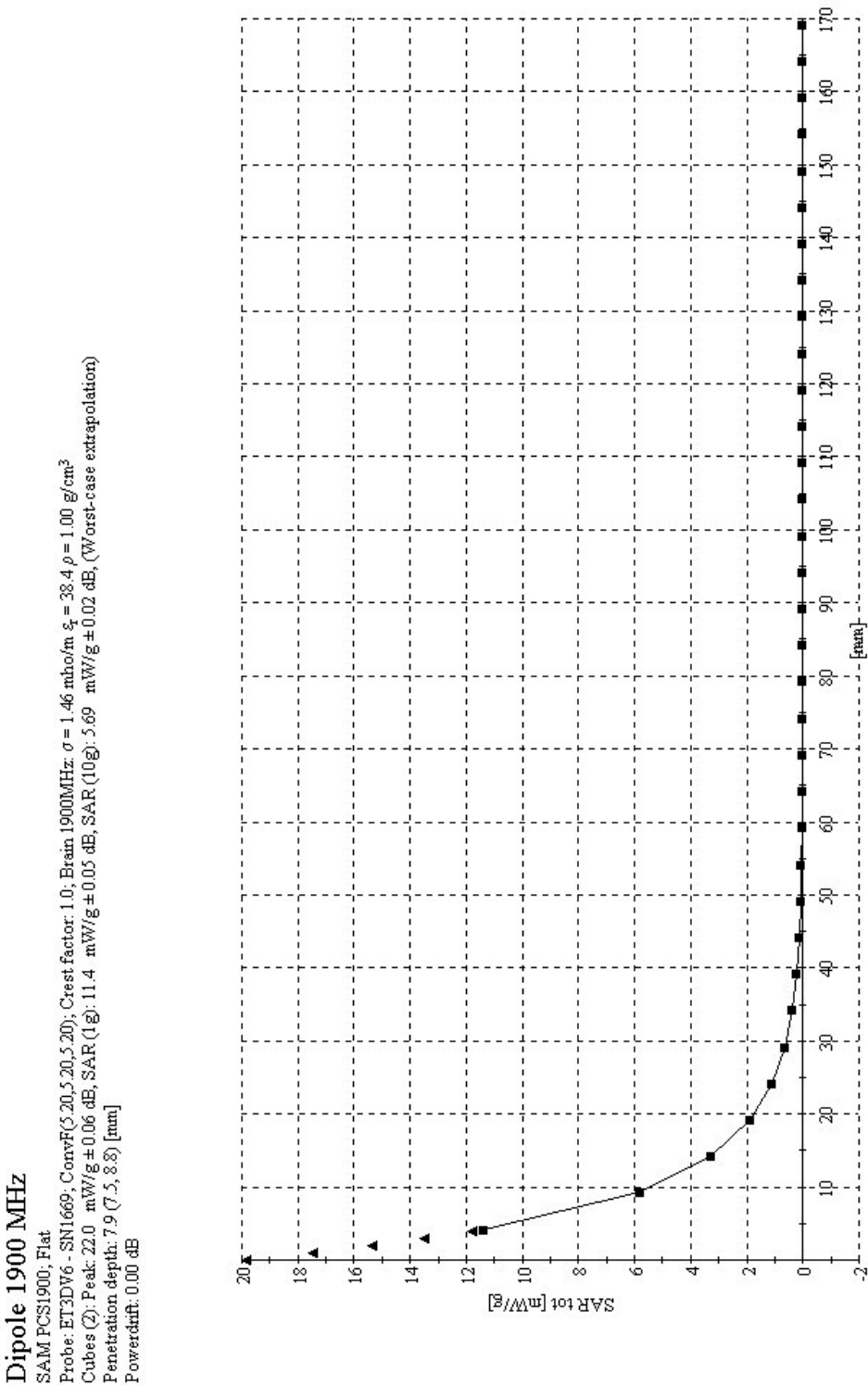


Fig. 11: SAR versus liquid depth, 1900 MHz, Validation Head.

Dipole 1900 MHz
SAR PCS 1900, Flat
Probe: ET3DV6 - SN1669; ConvF(4.80,4.80,4.80); Crest factor: 1.0; body 1900 MHz: $\sigma = 1.57 \text{ mho/m}$ $\epsilon_r = 51.5$ $\rho = 1.00 \text{ g/cm}^3$
Cubes (2): Peak: $20.7 \text{ mW/g} \pm 0.06 \text{ dB}$, SAR (1g): $10.8 \text{ mW/g} \pm 0.05 \text{ dB}$, SAR (10g): $5.49 \text{ mW/g} \pm 0.04 \text{ dB}$, (Worst-case extrapolation)
Penetration depth: $8.5 (7.8, 9.8) \text{ [mm]}$
Powerdrift: 0.00 dB

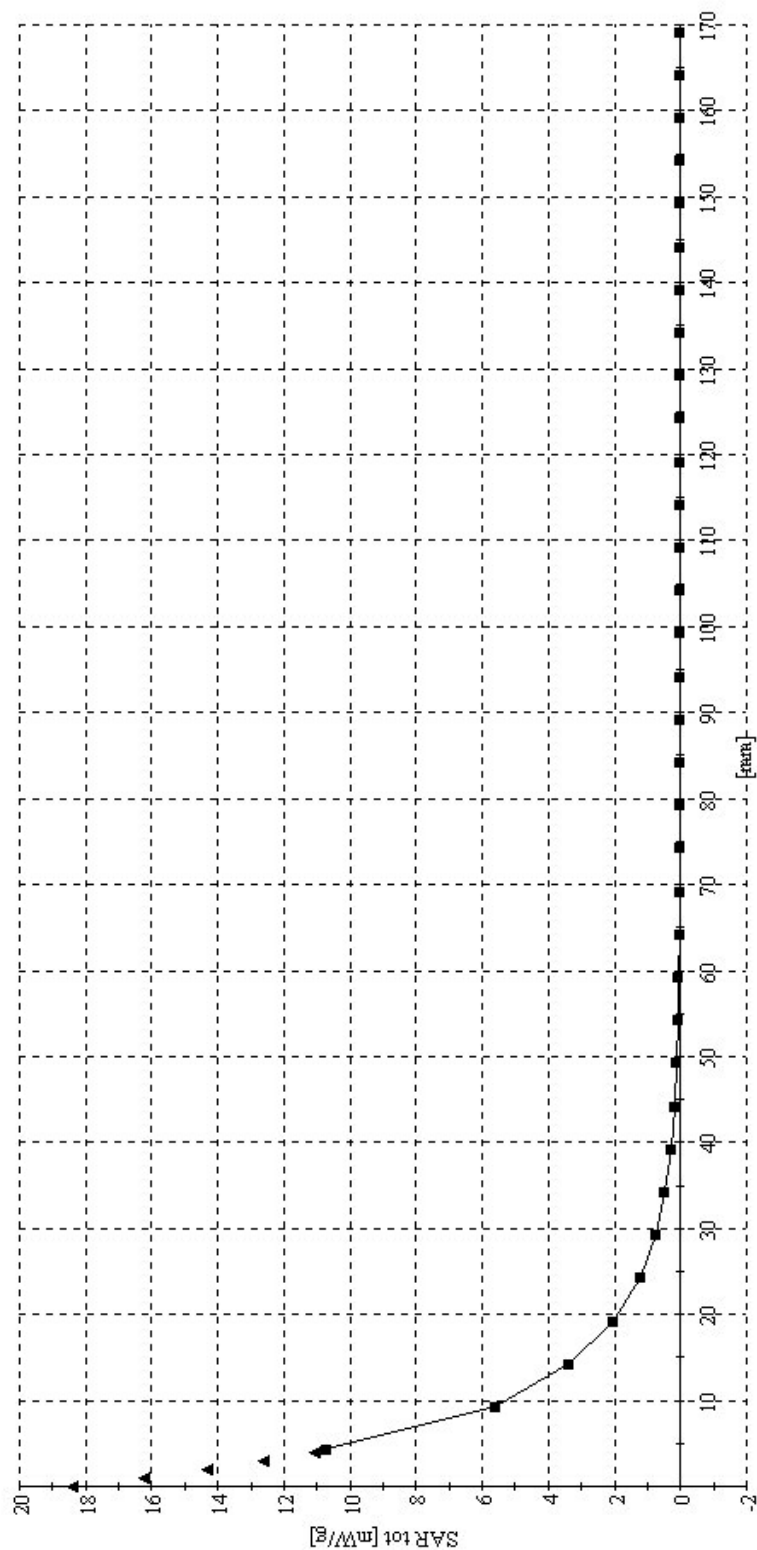


Fig. 12: SAR versus liquid depth, 1900 MHz, Validation Body.

5 SAR z-axis scans (Measurements)

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

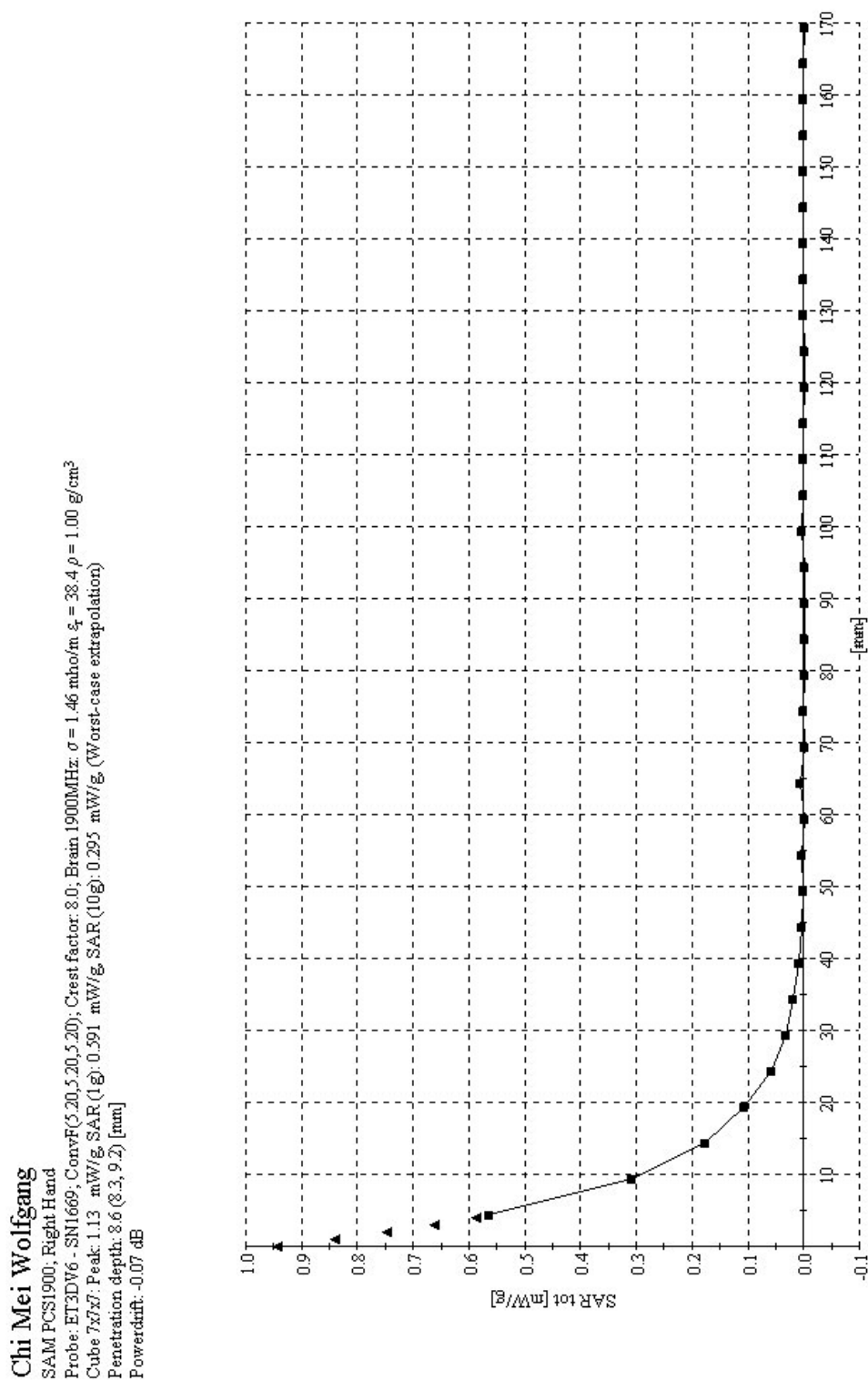


Fig. 13: SAR versus liquid depth, PCS 1900, channel 661, cheek position, right side of head.

Chi Mei Wolfgang

SAM PCS 1900, Flat

Probe: ET3DV6 - SN1669; ConvF(480,480,480); Crest factor: 8.0; body 1900 MHz: $\sigma = 1.57$ mho/m $\epsilon_r = 51.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: Peak: 0.768 mW/g SAR (1g): 0.464 mW/g SAR (10g): 0.281 mW/g (Worst-case extrapolation)

Penetration depth: 11.4 (9.5, 13.8) [mm]

Powerdrift: -0.16 dB

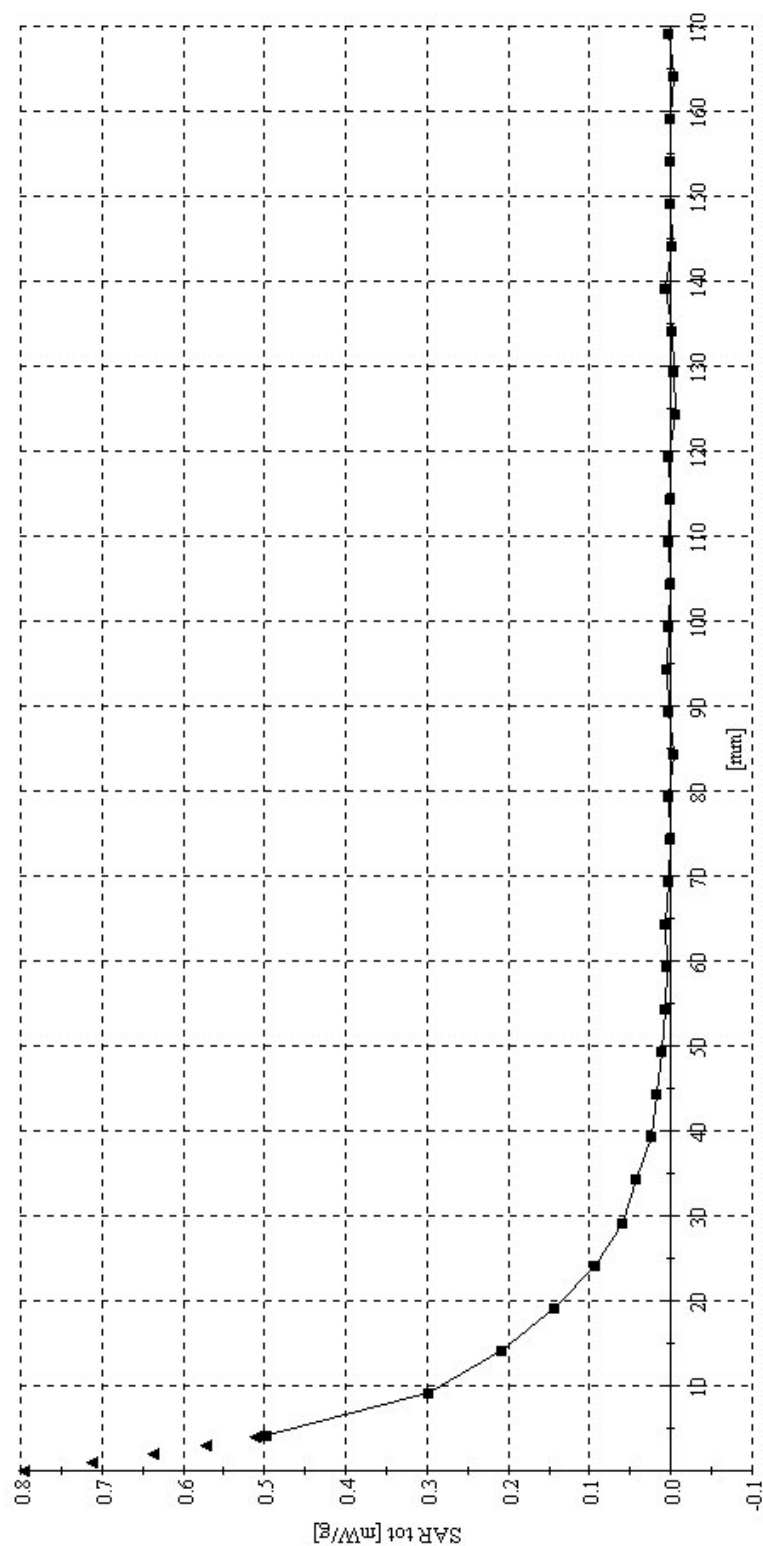


Fig. 14: SAR versus liquid depth, PCS1900, channel 512, body worn configuration without Headset, antenna towards the phantom (GPRS mode, 2 TX slots).