

Company Kyocera Wireless Corp.	Document No.	
KWC-3245 SAR REPORT	Issue No:	Date July 2002
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APPENDIX B: SAR DISTRIBUTION PRINTOUT

KWC-3245, 835MHz Head, Left Cheek, FM Ch799, Antenna Retracted, 07-03-02

S3

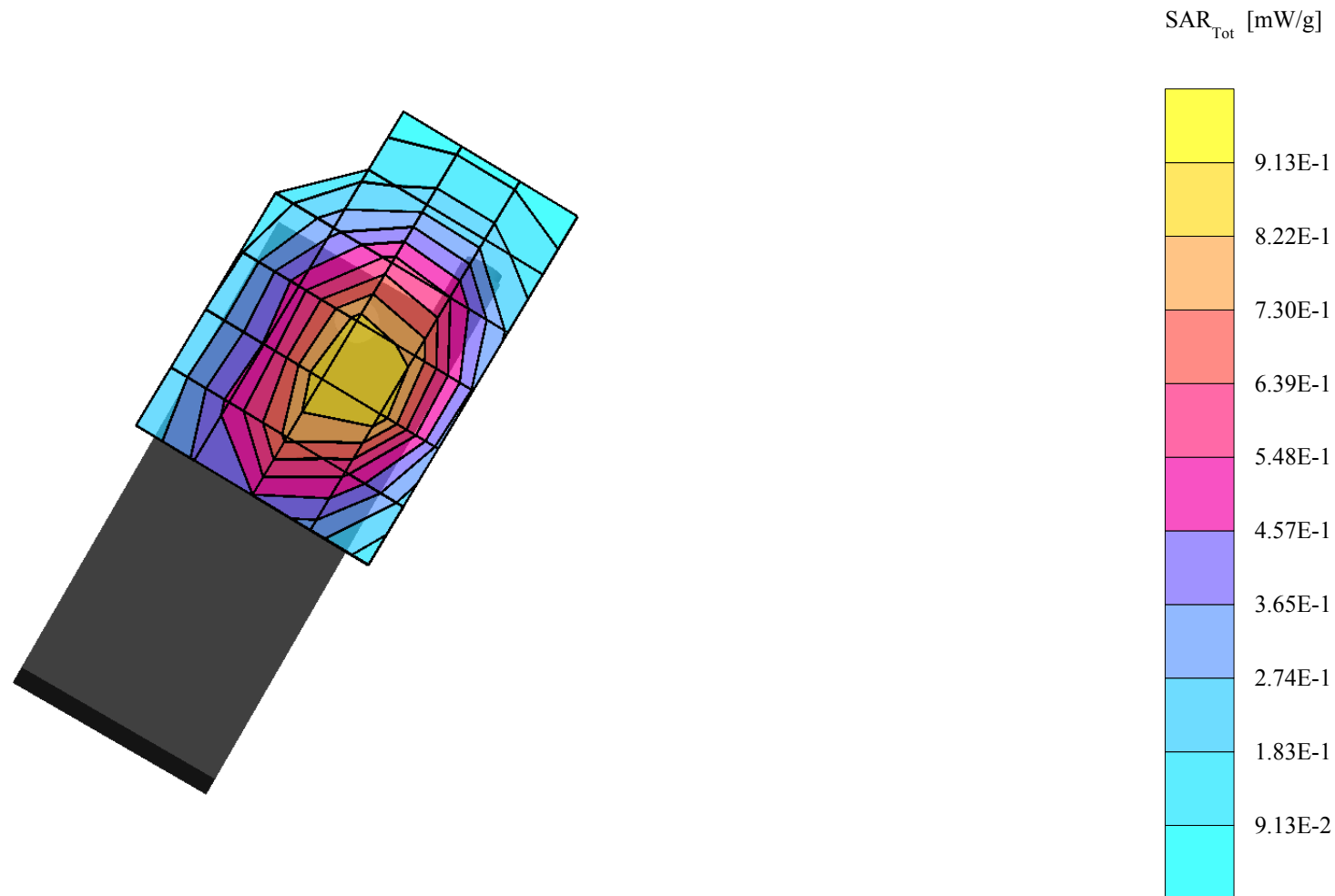
SAM Phantom; Left Hand Section; Position: (80°,60°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.992 mW/g, SAR (10g): 0.617 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.04 dB



KWC-3245, 835MHz Head, Left Cheek, FM Ch991, Antenna Extended, 07-03-02

S3

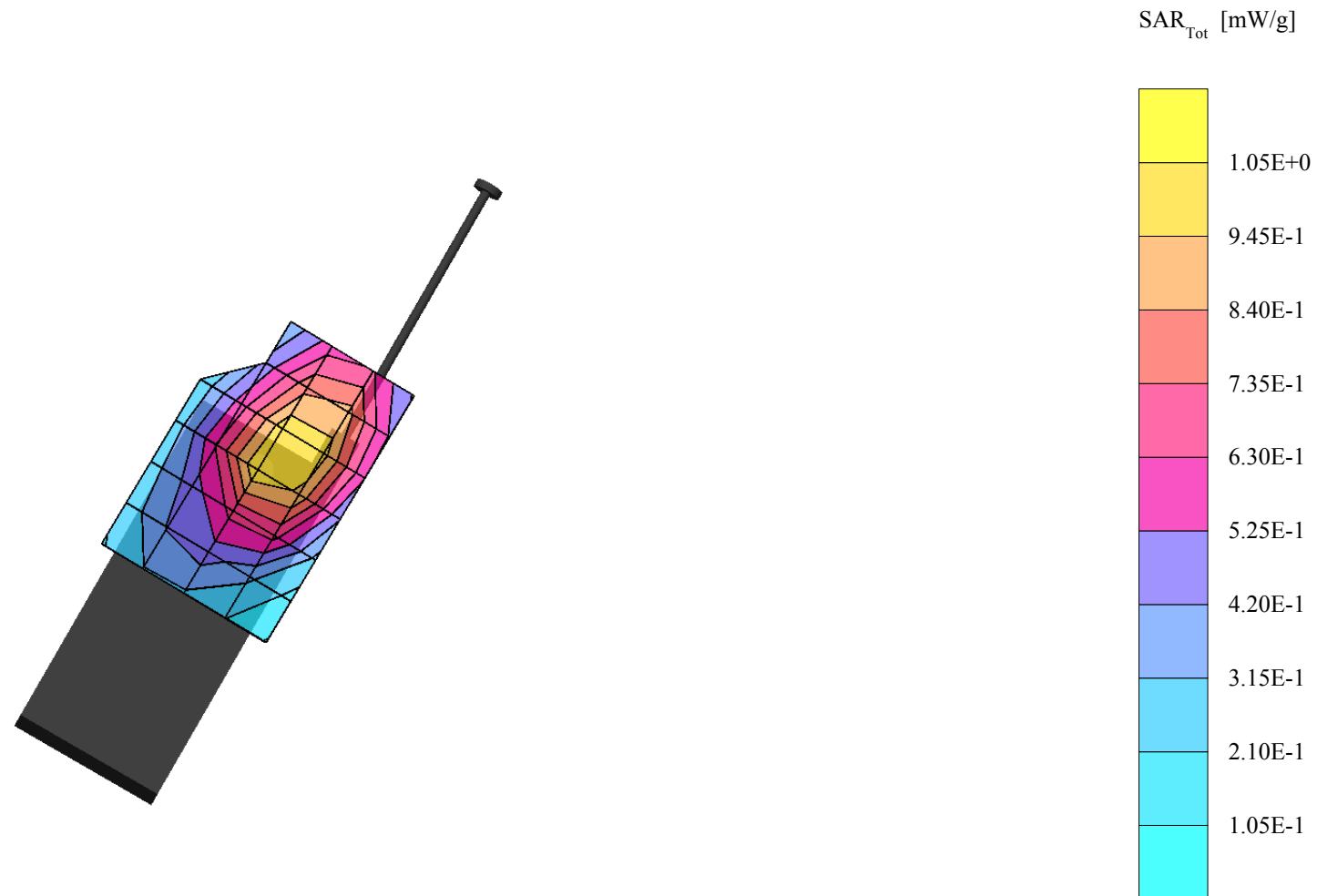
SAM Phantom; Left Hand Section; Position: (80°,60°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 1.02 mW/g, SAR (10g): 0.690 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.06 dB



KWC-3245, 835MHz Head, Left Tilt, FM Ch383, Antenna Retracted, 07-03-02

S3

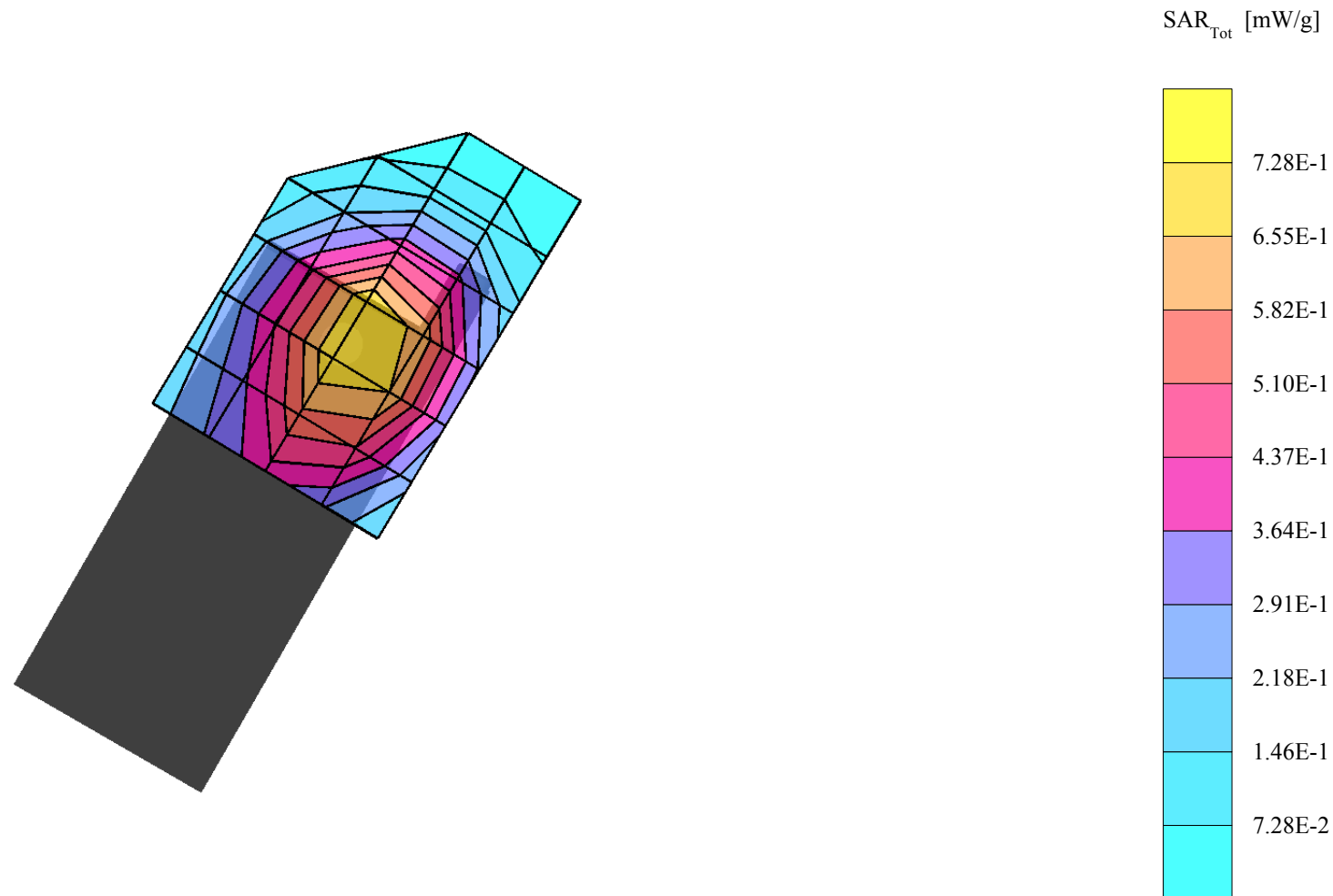
SAM Phantom; Left Hand Section; Position: (95°,60°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.804 mW/g, SAR (10g): 0.539 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.03 dB



KWC-3245, 835MHz Head, Left Tilt, FM Ch991, Antenna Extended, 07-03-02

S3

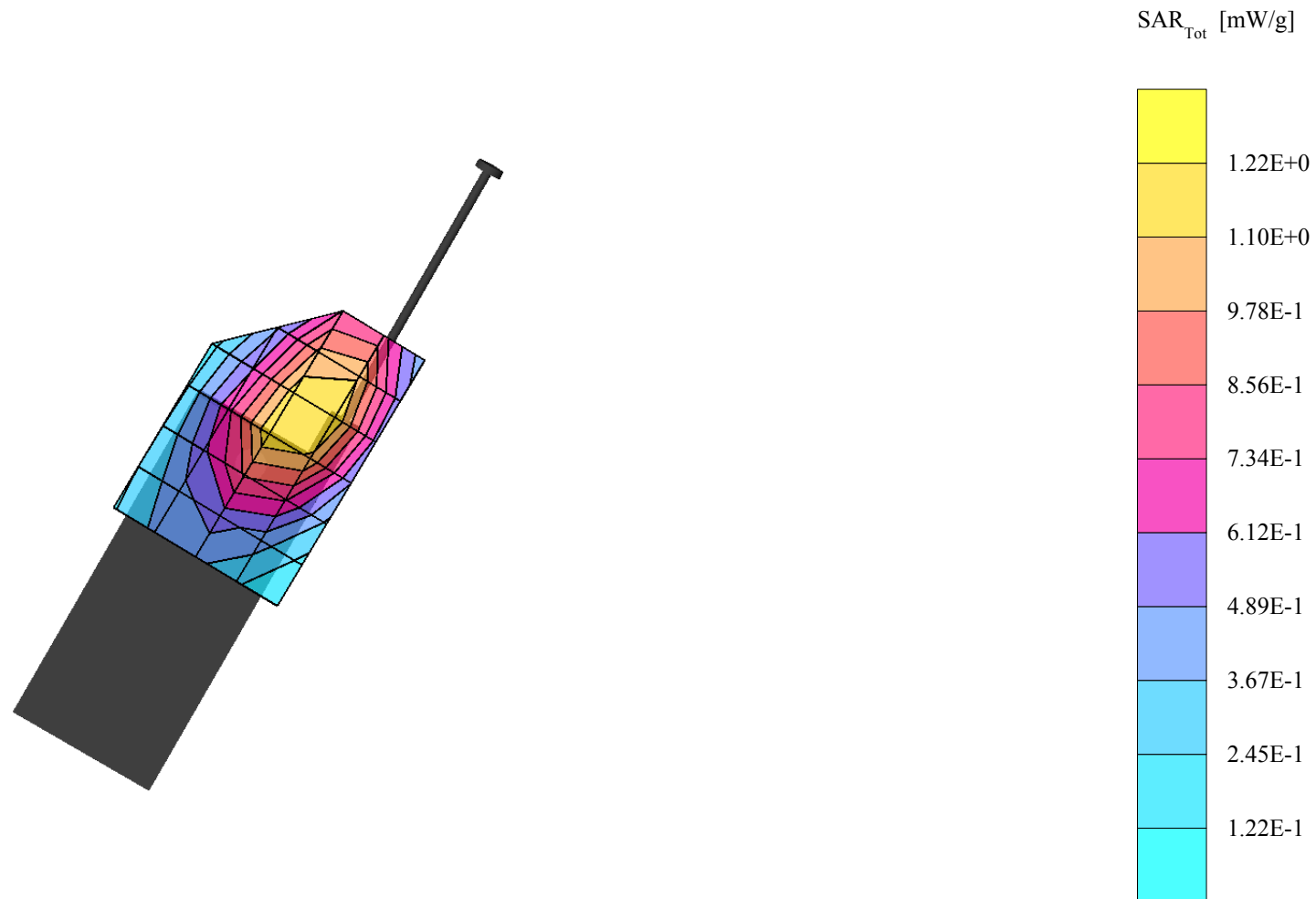
SAM Phantom; Left Hand Section; Position: (95°,60°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 1.27 mW/g, SAR (10g): 0.859 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.20 dB



KWC-3245, 835MHz Head, Left Cheek, CDMA Ch383, Antenna Retracted, 07-03-02

S3

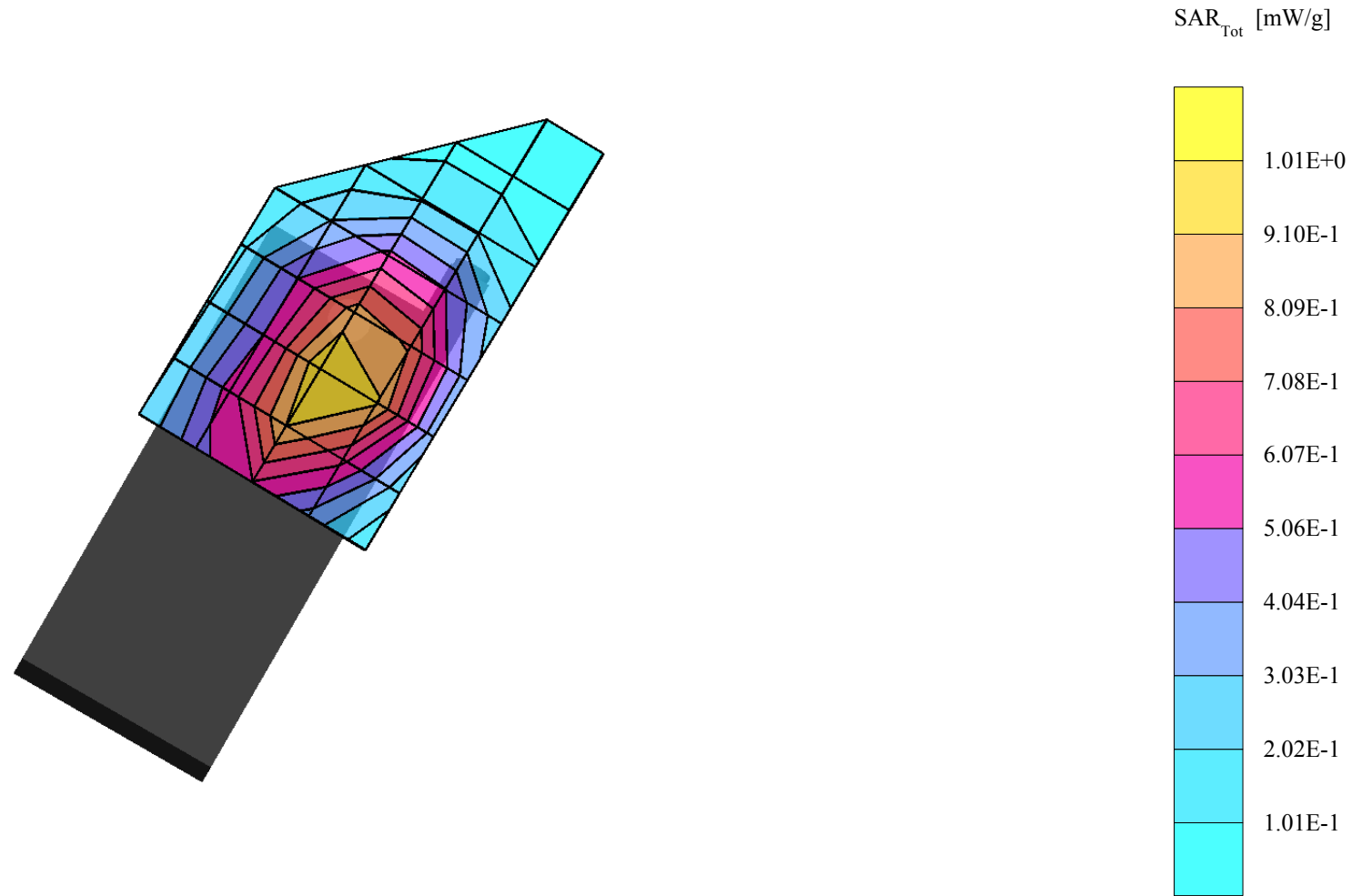
SAM Phantom; Left Hand Section; Position: (80°,60°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 1.02 mW/g, SAR (10g): 0.627 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.16 dB



KWC-3245, 835MHz Head, Left Cheek, CDMA Ch1013, Antenna Extended, 07-03-02

S3

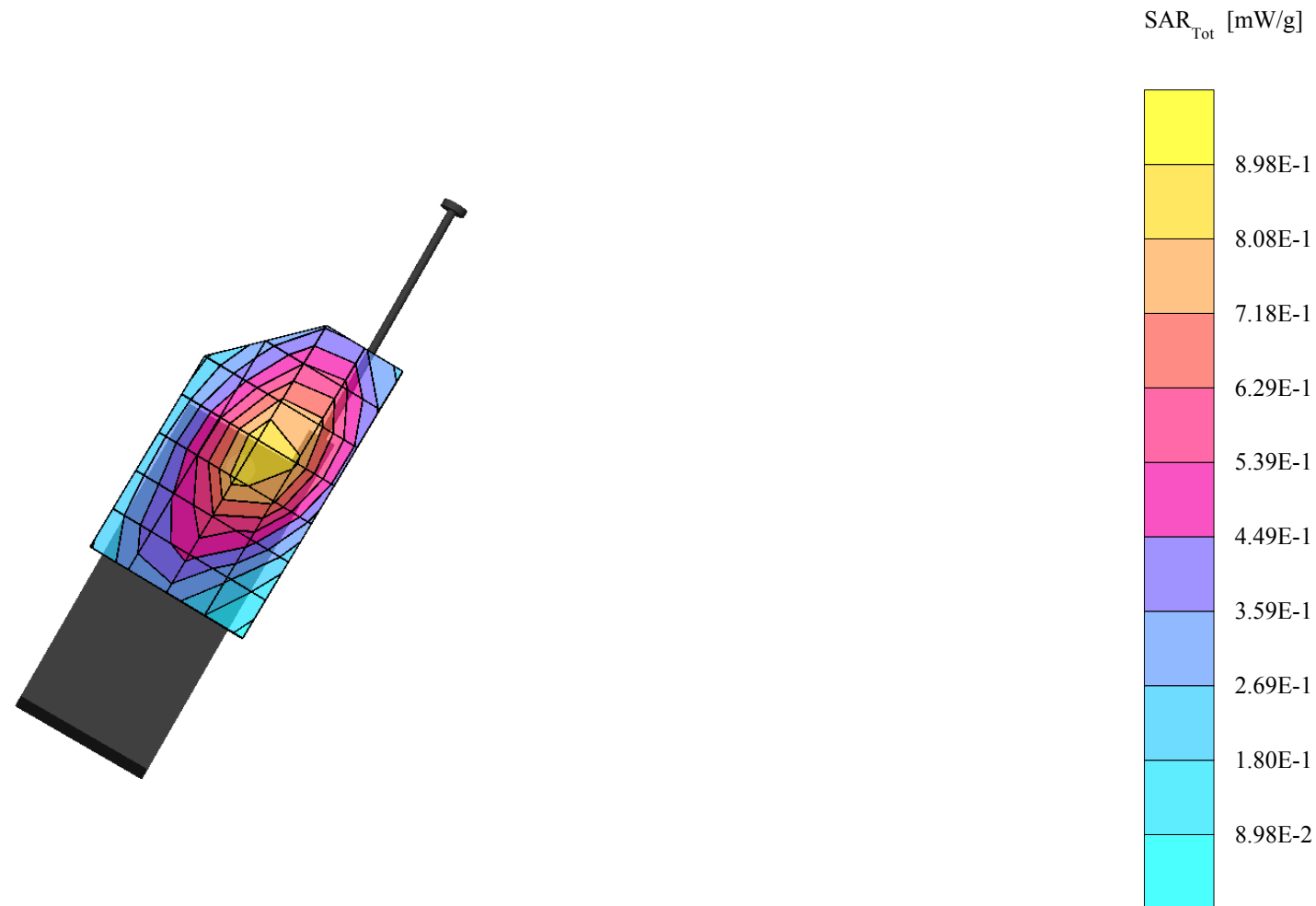
SAM Phantom; Left Hand Section; Position: (80°,60°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.891 mW/g, SAR (10g): 0.600 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.07 dB



KWC-3245, 835MHz Head, Left Tilt, CDMA Ch383, Antenna Retracted, 07-03-02

S3

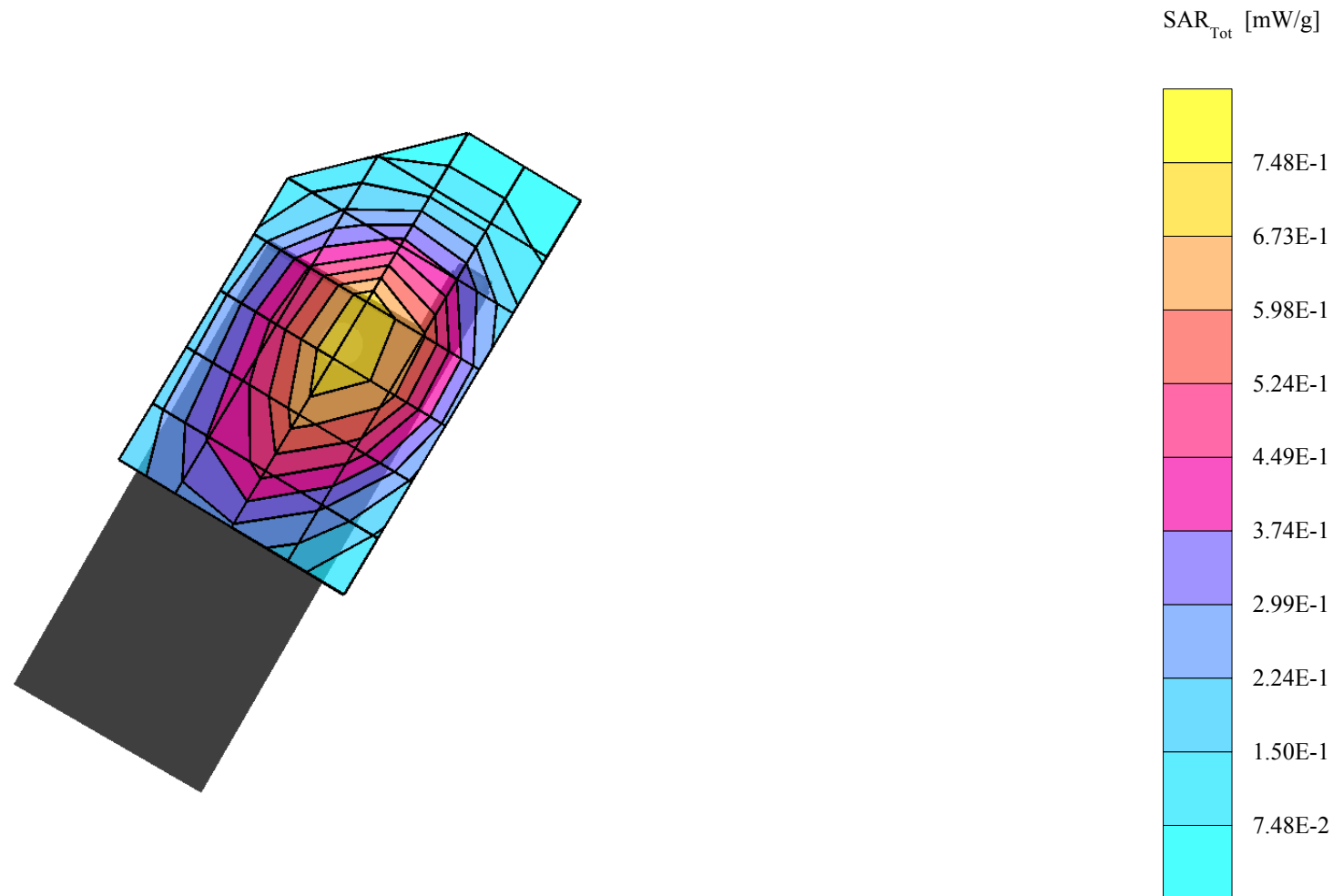
SAM Phantom; Left Hand Section; Position: (95°,60°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.729 mW/g, SAR (10g): 0.489 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.11 dB



KWC-3245, 835MHz Head, Left Tilt, CDMA Ch1013, Antenna Extended, 07-05-02

S3

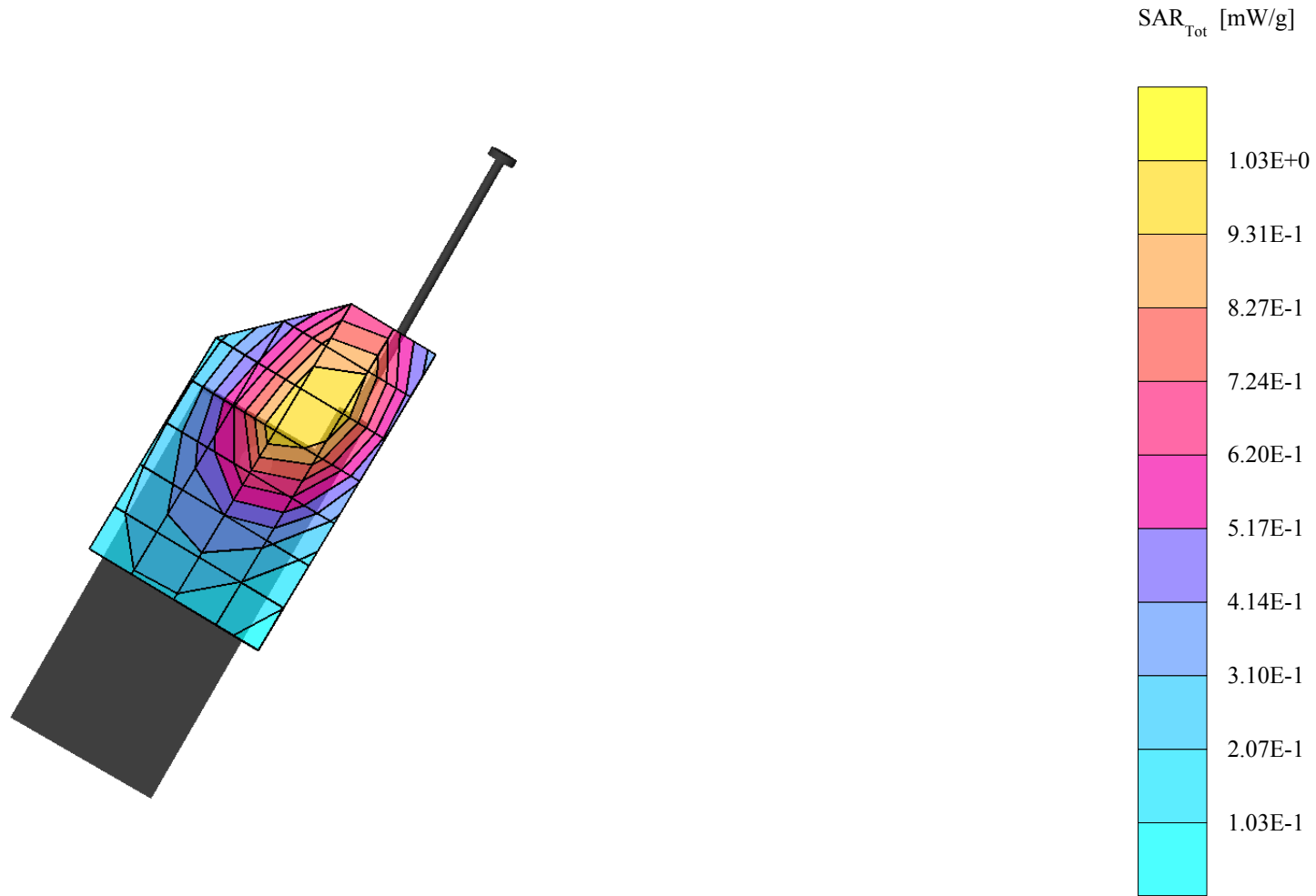
SAM Phantom; Left Hand Section; Position: (95°,60°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.4$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 1.04 mW/g, SAR (10g): 0.702 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.06 dB



KWC-3245, 1900MHz Head, Left Cheek, PCS Ch600, Antenna Retracted, 07-02-02

S3

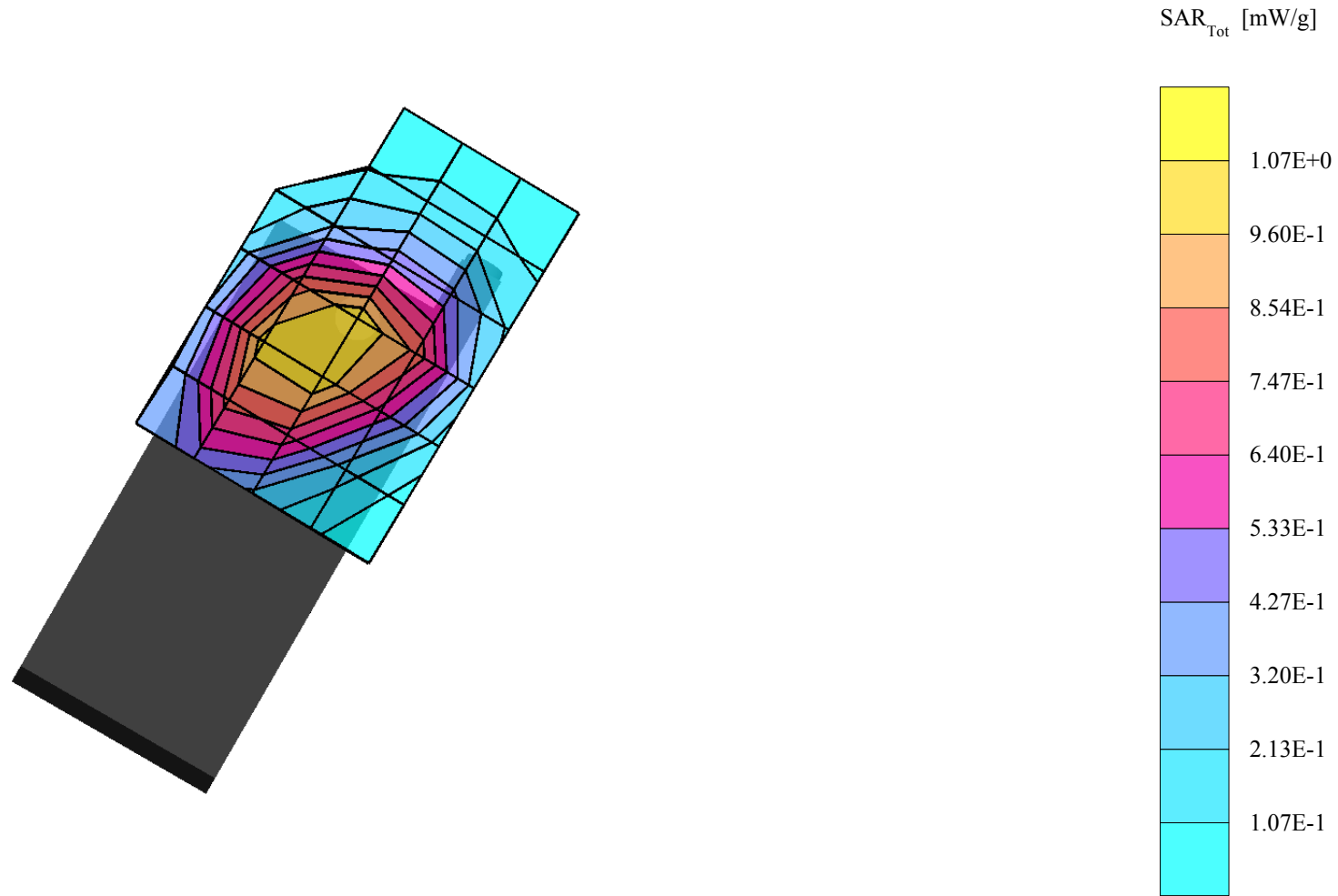
SAM Phantom; Left Hand Section; Position: (80°,60°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1663; ConvF(5.30,5.30,5.30); Crest factor: 1.0; Head 1900 MHz: $\sigma = 1.43$ mho/m $\epsilon_r = 40.3$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 1.11 mW/g, SAR (10g): 0.667 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.02 dB



KWC-3245, 1900MHz Head, Left Cheek, PCS Ch600, Antenna Extended, 07-02-02

S3

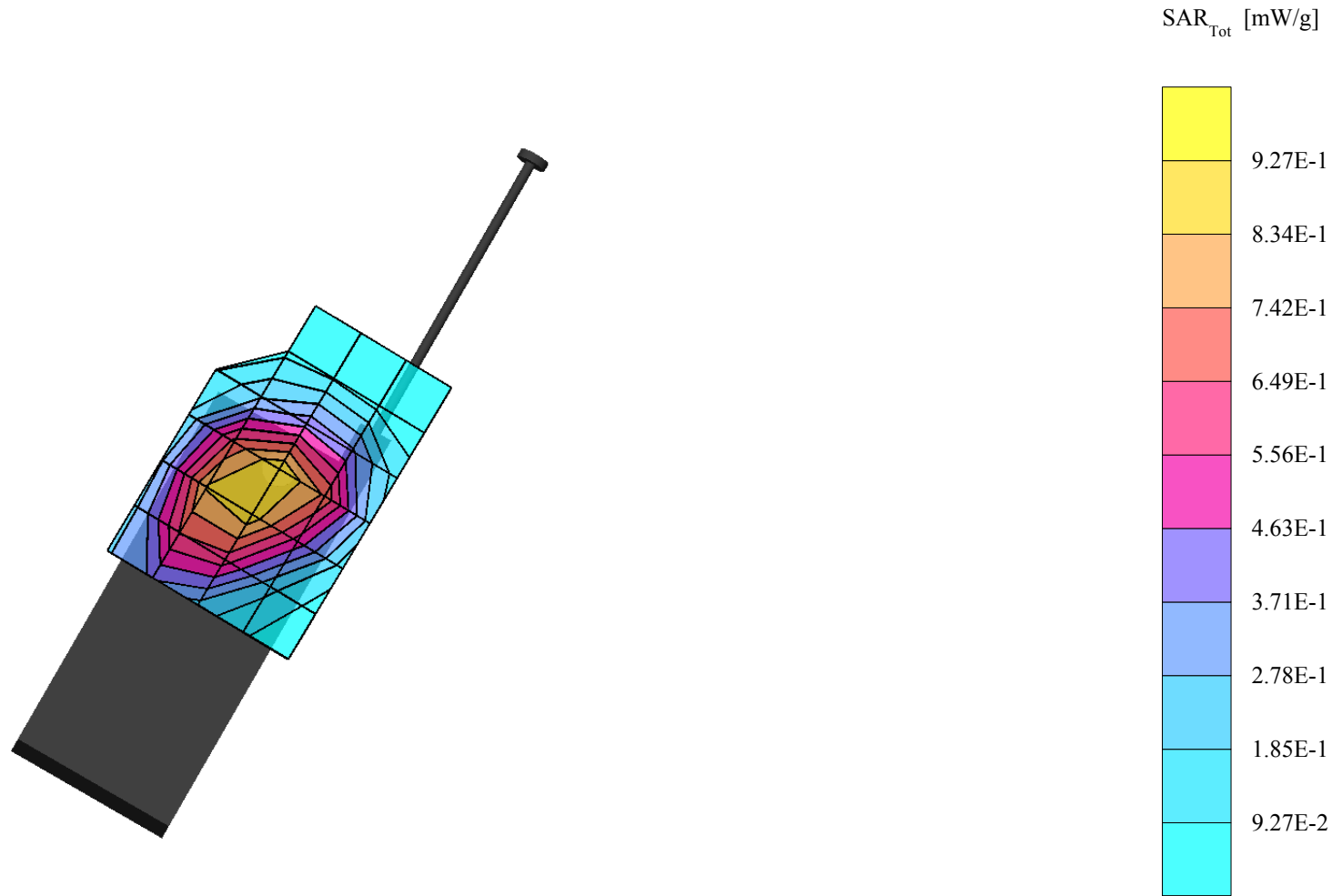
SAM Phantom; Left Hand Section; Position: (80°,60°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1663; ConvF(5.30,5.30,5.30); Crest factor: 1.0; Head 1900 MHz: $\sigma = 1.43 \text{ mho/m}$ $\epsilon_r = 40.3$ $\rho = 1.00 \text{ g/cm}^3$

Cube 7x7x7: SAR (1g): 0.933 mW/g, SAR (10g): 0.562 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.03 dB



KWC-3245, 1900MHz Head, Left Tilt, PCS Ch600, Antenna Retracted, 07-02-02

S3

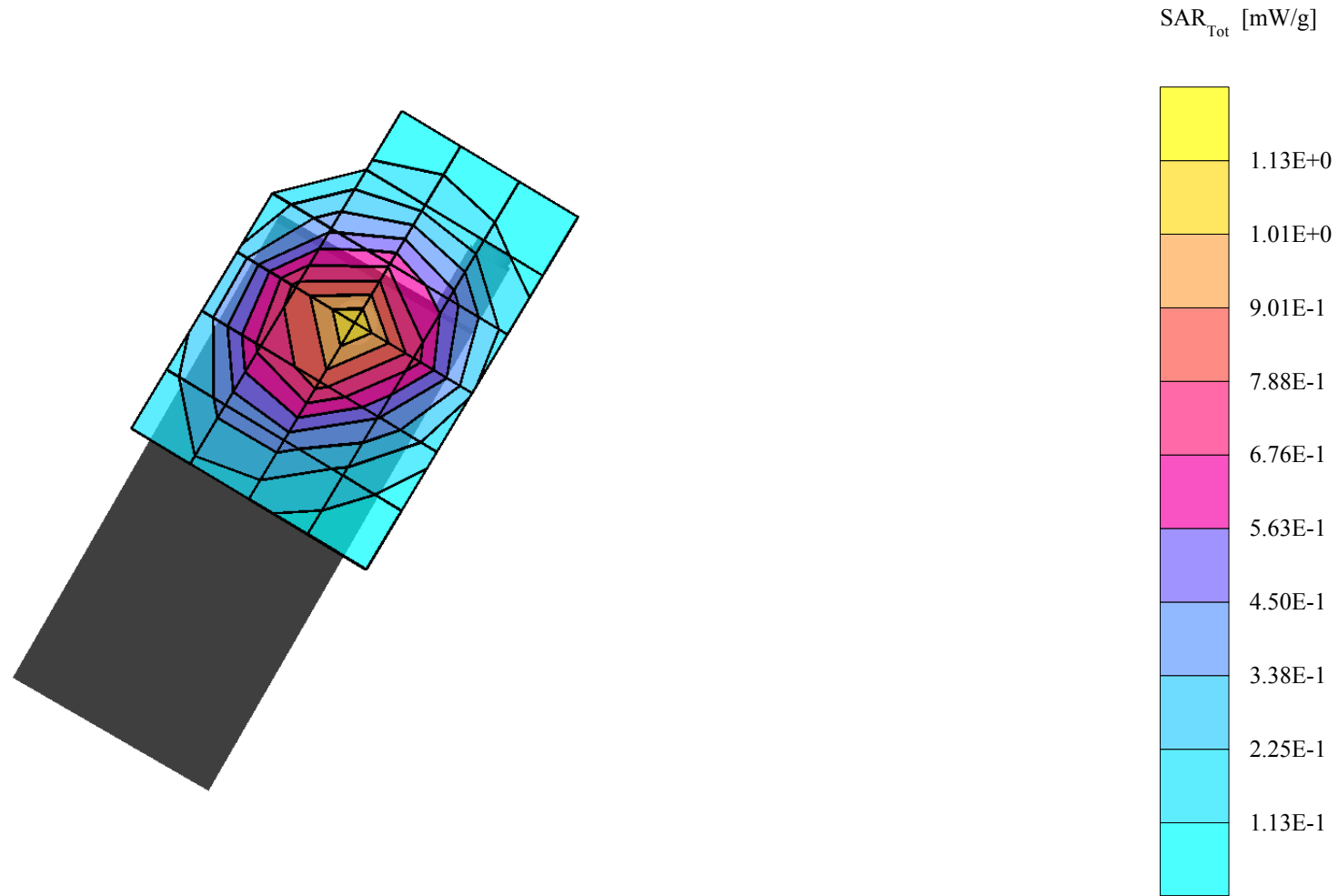
SAM Phantom; Left Hand Section; Position: (95°,60°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1663; ConvF(5.30,5.30,5.30); Crest factor: 1.0; Head 1900 MHz: $\sigma = 1.43$ mho/m $\epsilon_r = 40.3$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 1.03 mW/g, SAR (10g): 0.612 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.01 dB



KWC-3245, 1900MHz Head, Left Tilt, PCS Ch600, Antenna Extended, 07-02-02

S3

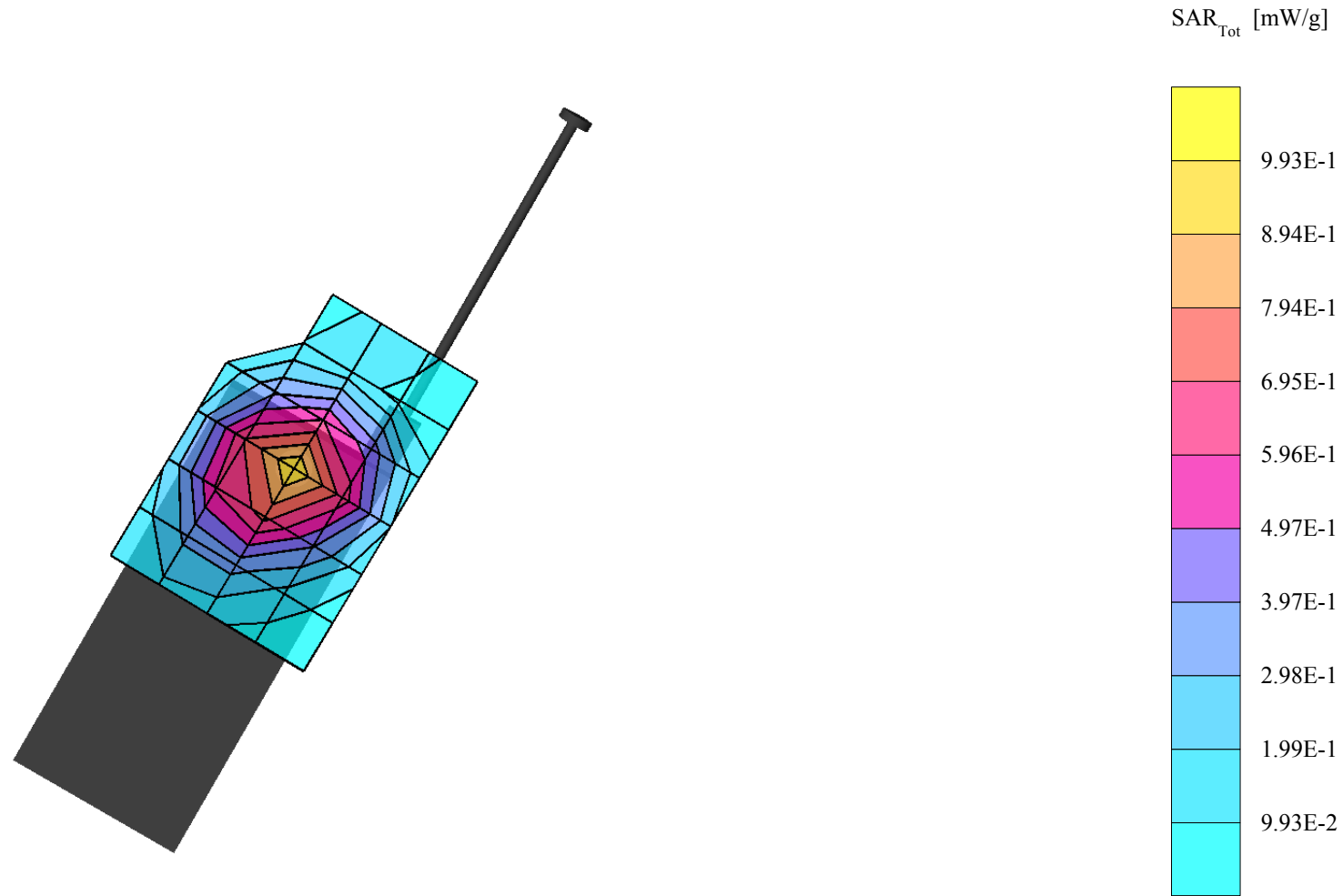
SAM Phantom; Left Hand Section; Position: (95°,60°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1663; ConvF(5.30,5.30,5.30); Crest factor: 1.0; Head 1900 MHz: $\sigma = 1.43$ mho/m $\epsilon_r = 40.3$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.927 mW/g, SAR (10g): 0.545 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.05 dB



KWC-3245, 835MHz Head, Right Cheek, FM Ch383, Antenna Retracted, 07-03-02

S3

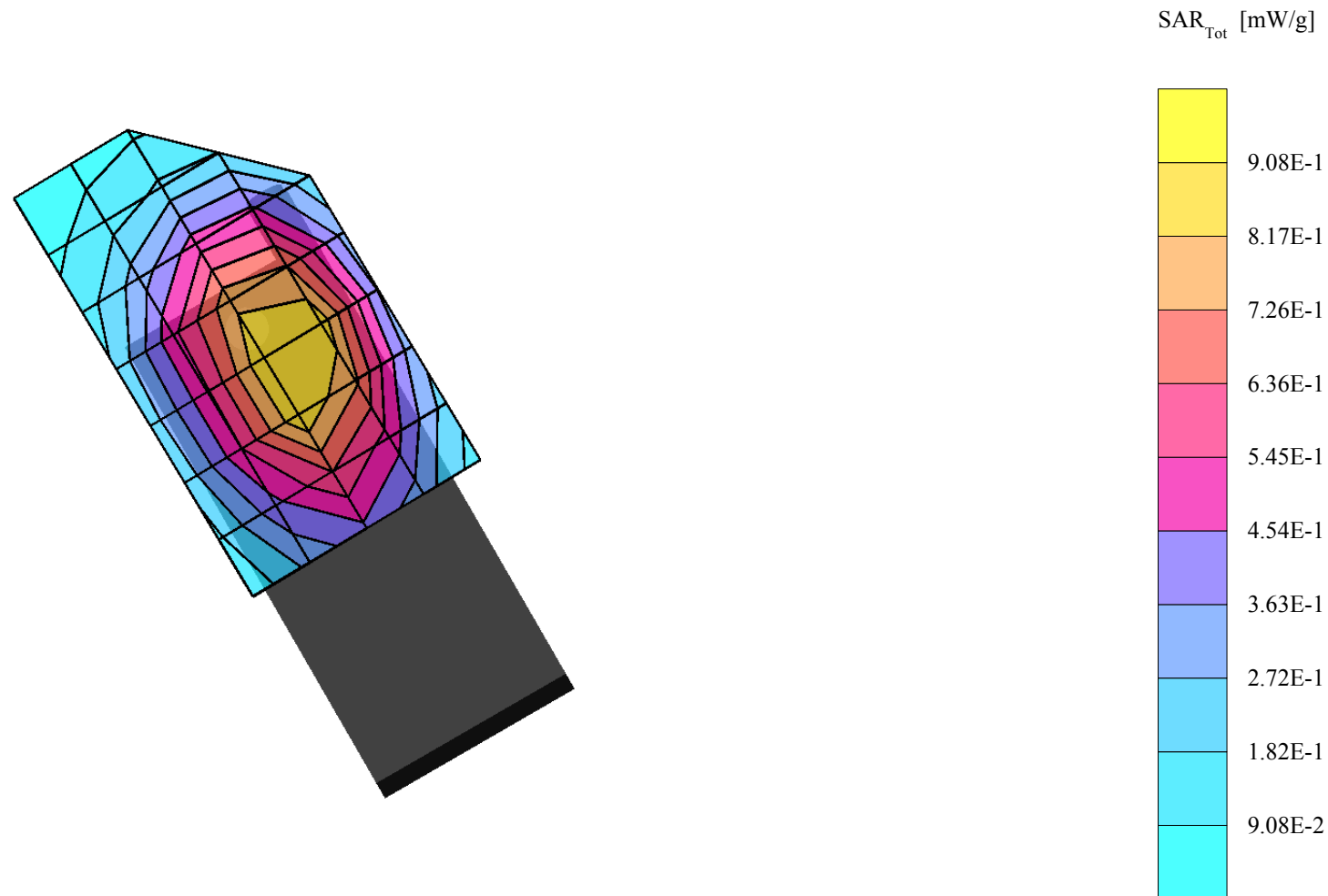
SAM Phantom; Righ Hand Section; Position: (80°,300°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.972 mW/g, SAR (10g): 0.650 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.17 dB



KWC-3245, 835MHz Head, Right Cheek, FM Ch991, Antenna Extended, 07-03-02

S3

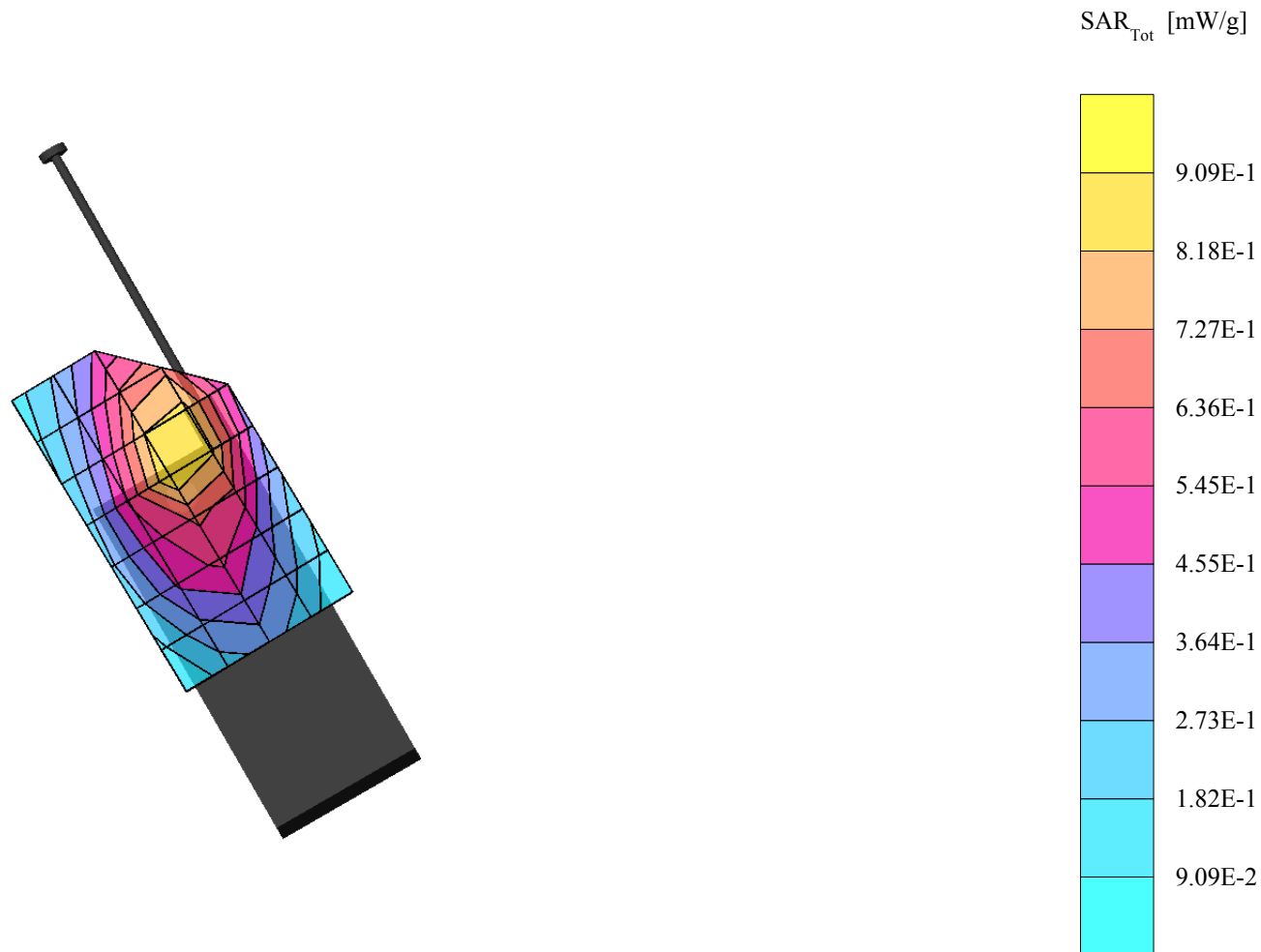
SAM Phantom; Righ Hand Section; Position: (80°,300°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.893 mW/g, SAR (10g): 0.612 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.13 dB



KWC-3245, 835MHz Head, Right Tilt, FM Ch383, Antenna Retracted, 07-03-02

S3

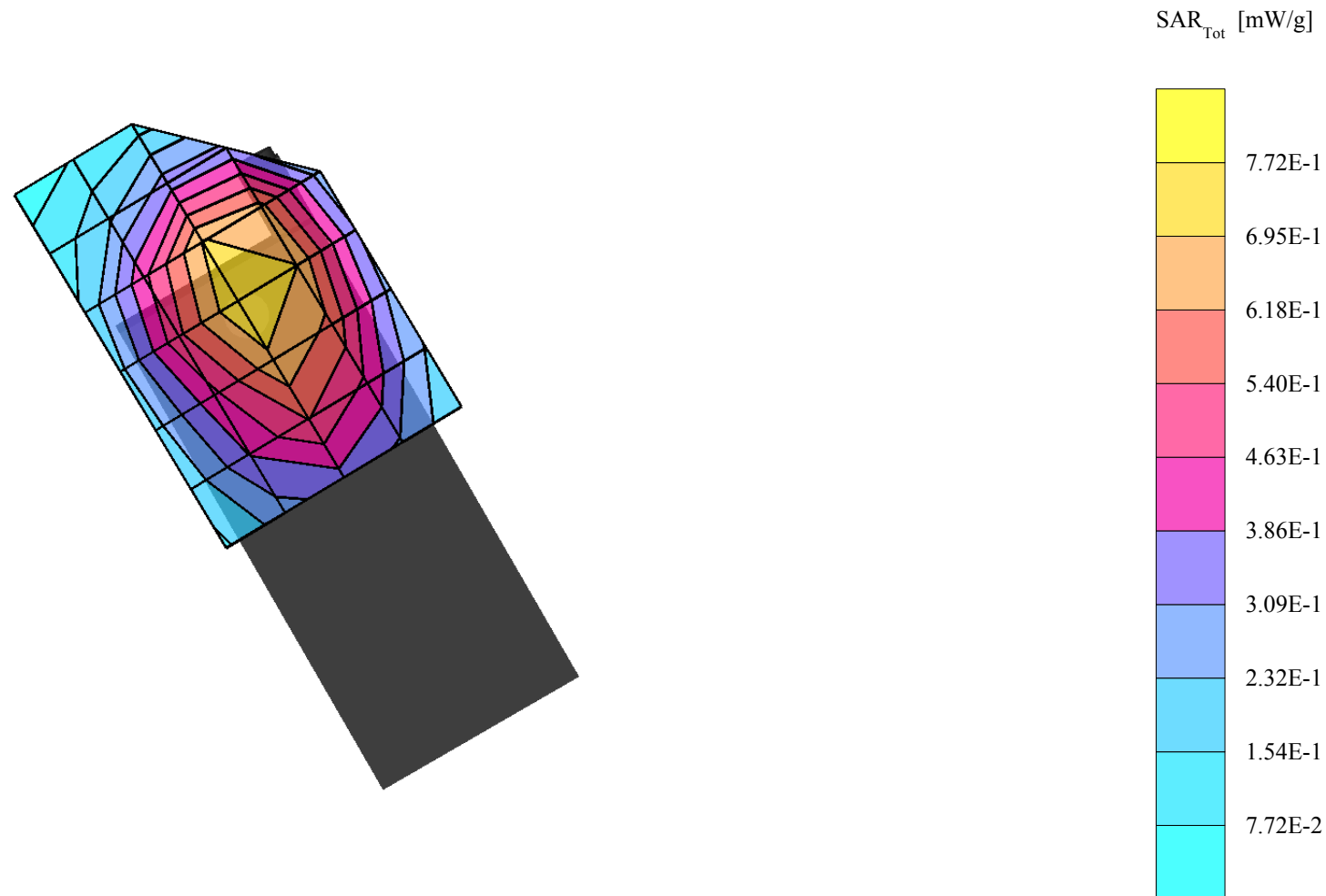
SAM Phantom; Righ Hand Section; Position: (95°,300°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.775 mW/g, SAR (10g): 0.531 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.11 dB



KWC-3245, 835MHz Head, Right Tilt, FM Ch991, Antenna Extended, 07-03-02

S3

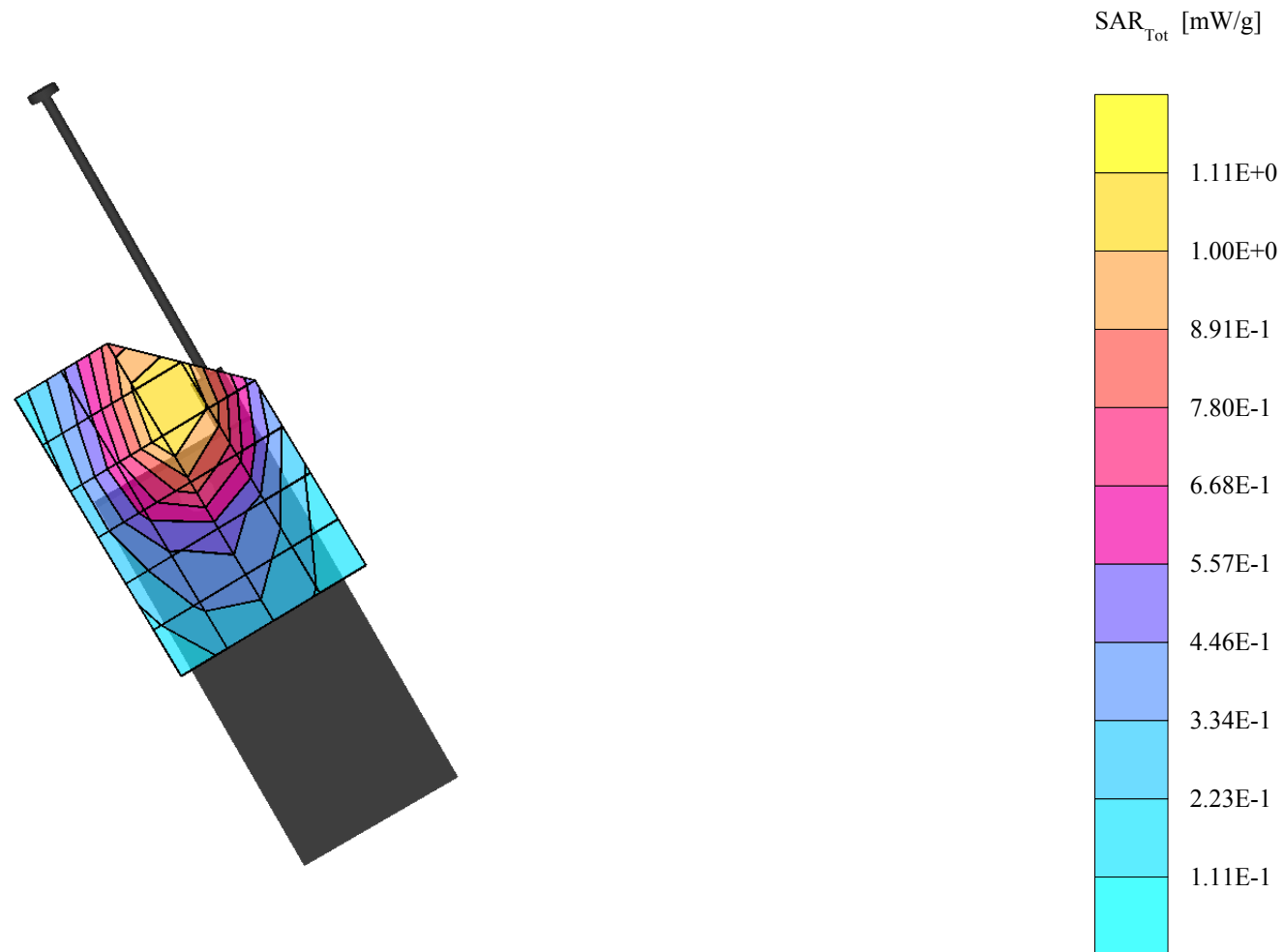
SAM Phantom; Righ Hand Section; Position: (95°,300°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 1.14 mW/g, SAR (10g): 0.783 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.04 dB



KWC-3245, 835MHz Head, Right Cheek, CDMA Ch383, Antenna Retracted, 07-03-02

S3

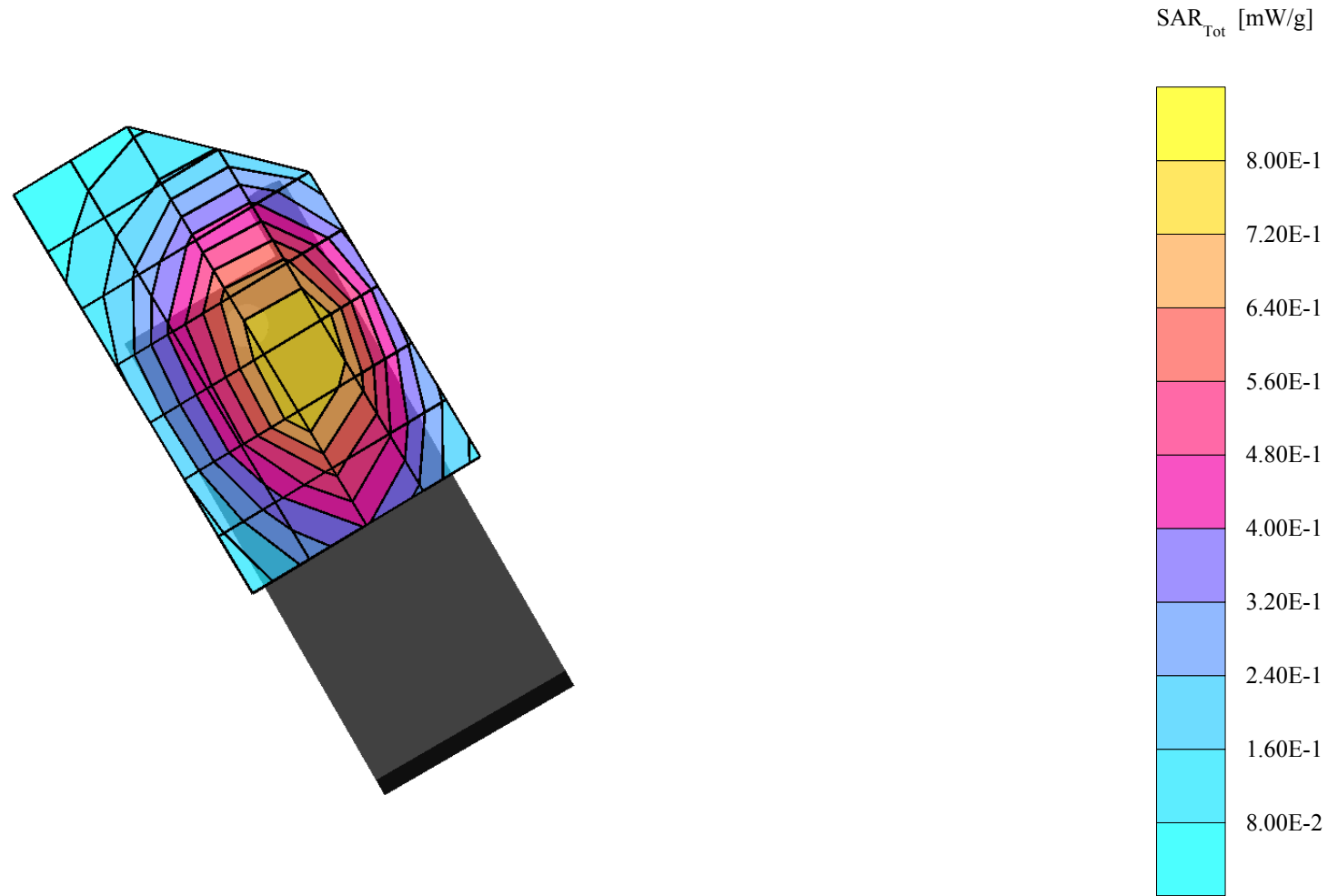
SAM Phantom; Righ Hand Section; Position: (80°,300°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.776 mW/g, SAR (10g): 0.527 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.06 dB



KWC-3245, 835MHz Head, Right Cheek, CDMA Ch1013, Antenna Extended, 07-03-02

S3

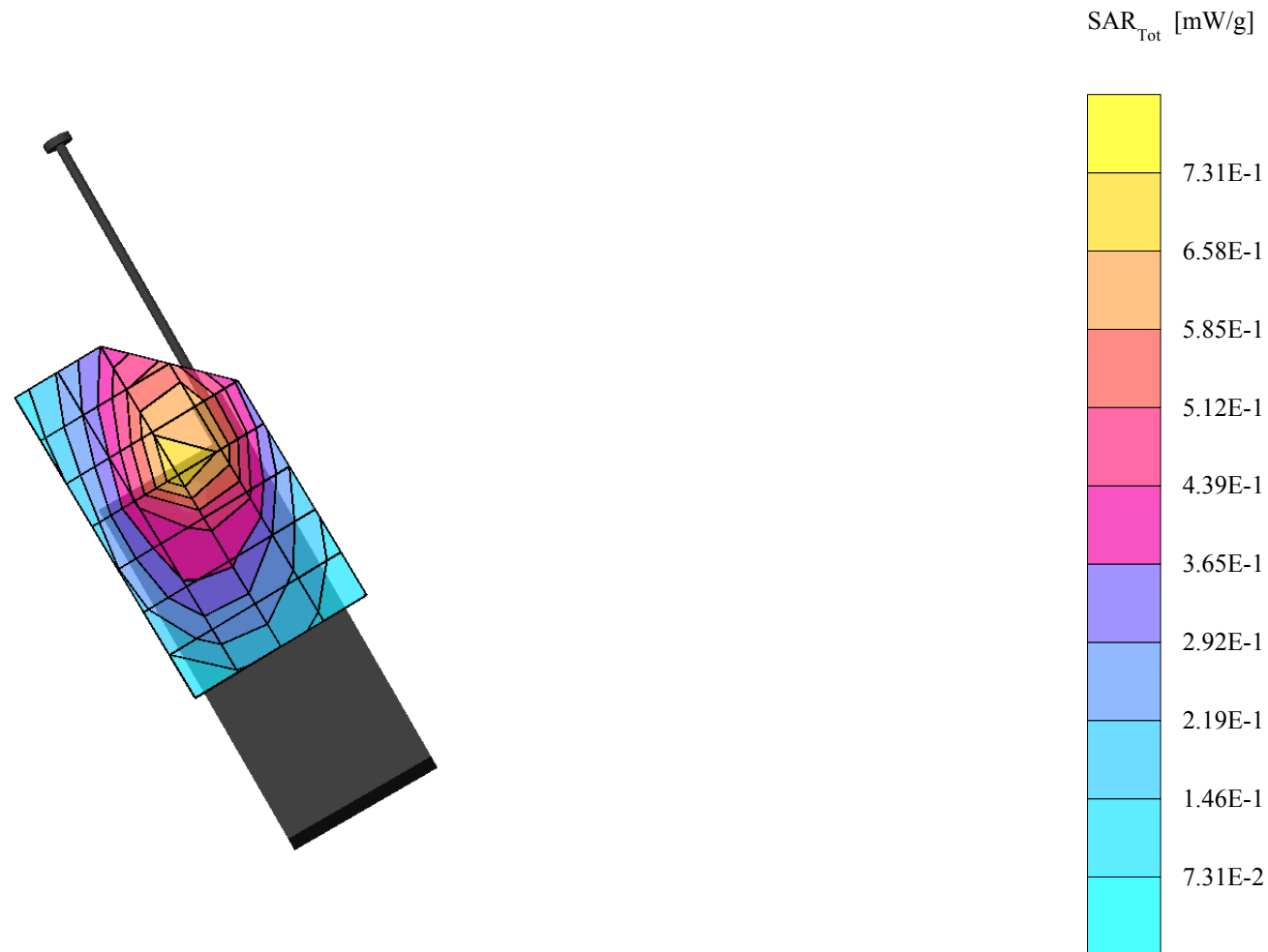
SAM Phantom; Righ Hand Section; Position: (80°,300°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.705 mW/g, SAR (10g): 0.480 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.07 dB



KWC-3245, 835MHz Head, Right Tilt, CDMA Ch383, Antenna Retracted, 07-03-02

S3

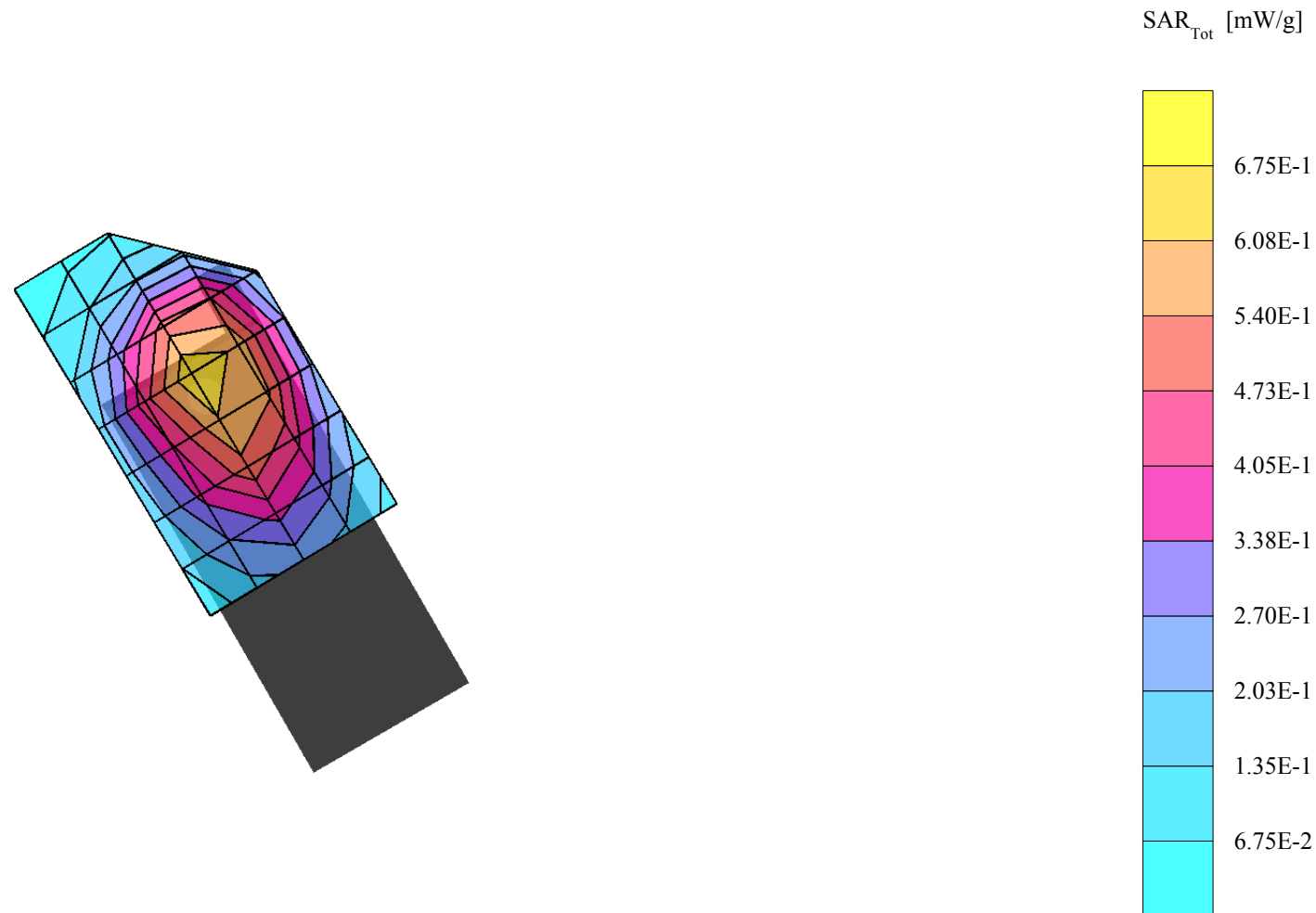
SAM Phantom; Righ Hand Section; Position: (95°,300°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.634 mW/g, SAR (10g): 0.436 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.04 dB



KWC-3245, 835MHz Head, Right Tilt, CDMA Ch1013, Antenna Extended, 07-03-02

S3

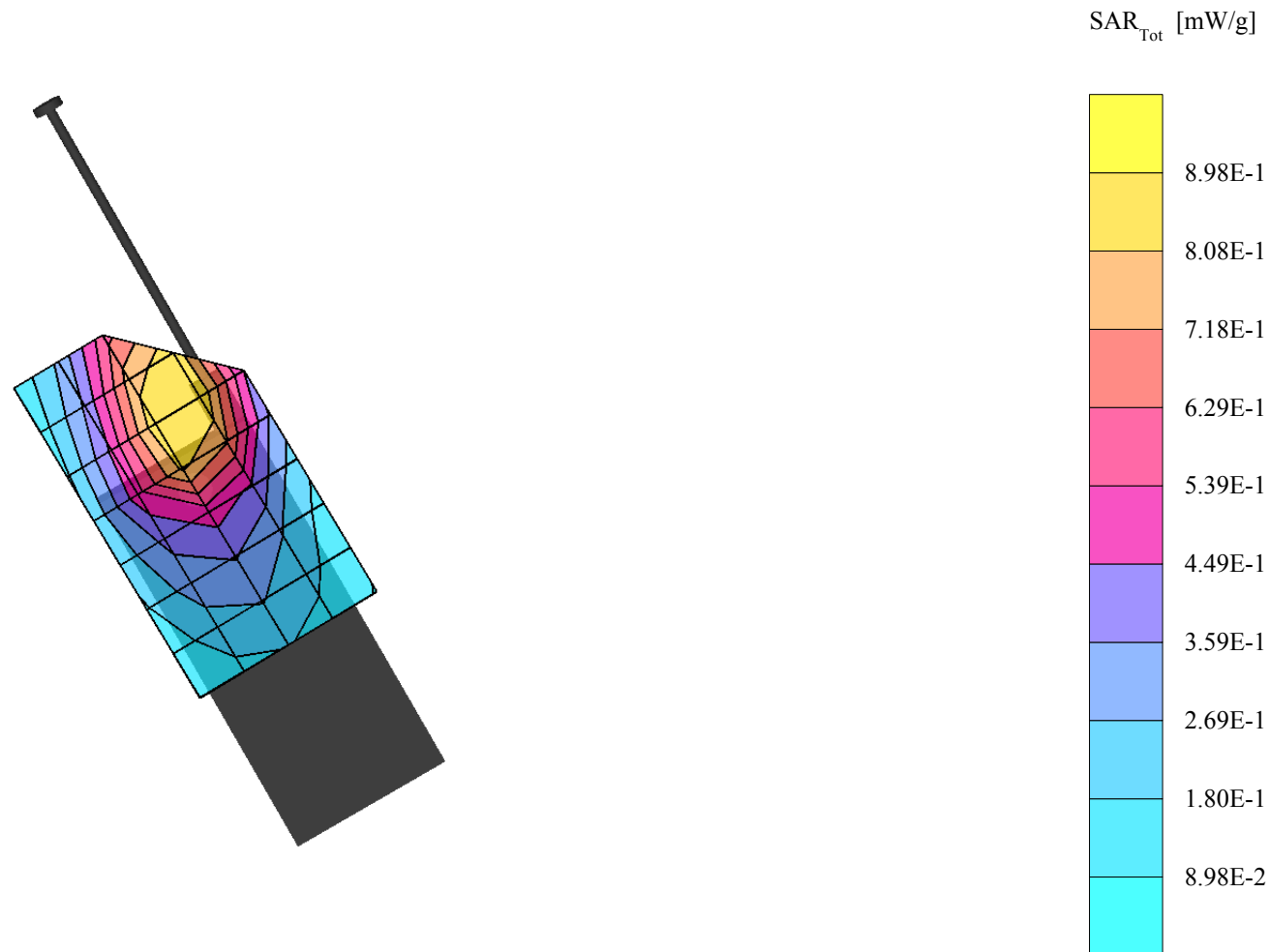
SAM Phantom; Righ Hand Section; Position: (95°,300°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.941 mW/g, SAR (10g): 0.643 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.01 dB



KWC-3245, 1900MHz Head, Right Cheek, PCS Ch600, Antenna Retracted, 07-02-02

S3

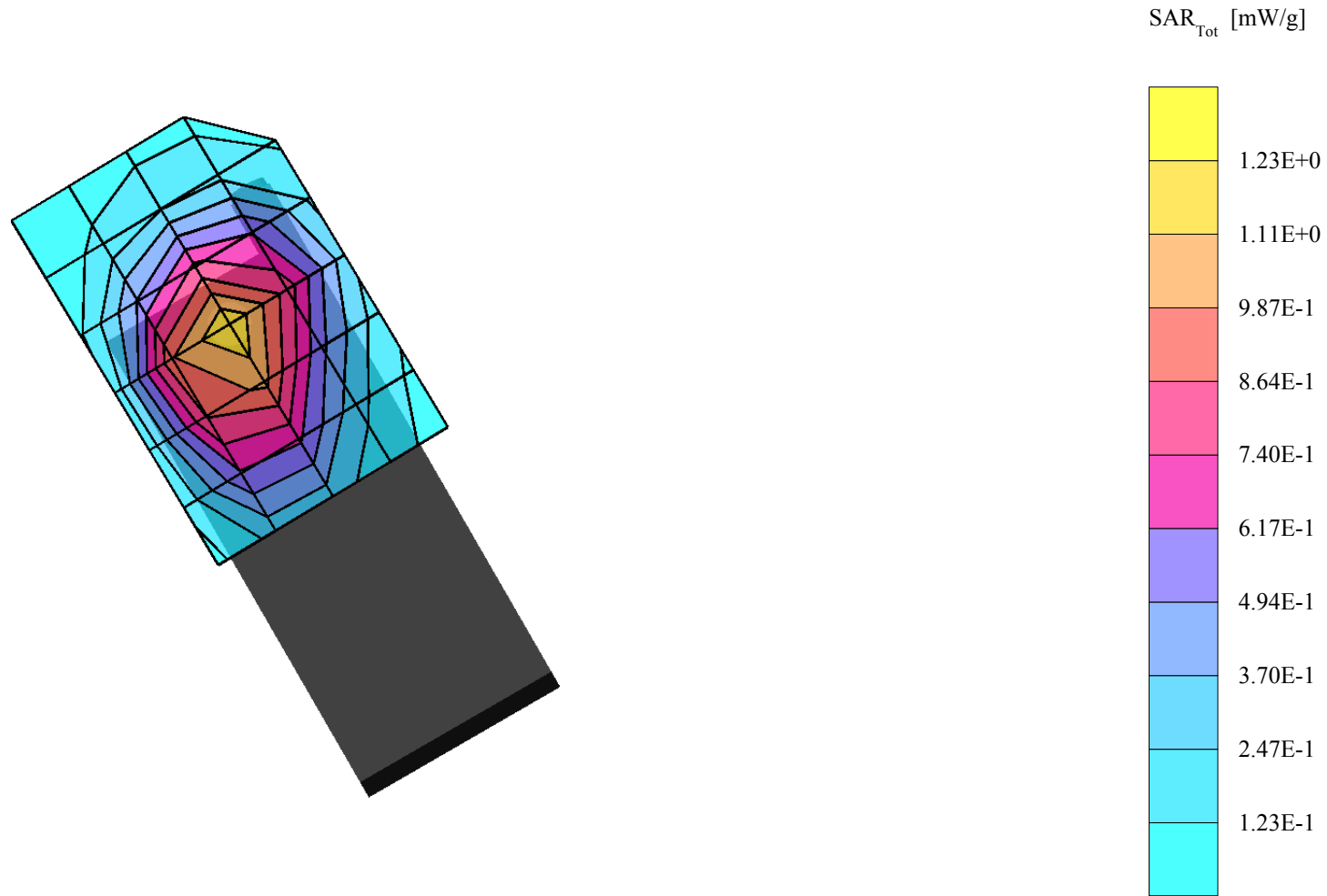
SAM Phantom; Righ Hand Section; Position: (80°,300°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1663; ConvF(5.30,5.30,5.30); Crest factor: 1.0; Head 1900 MHz: $\sigma = 1.43$ mho/m $\epsilon_r = 40.3$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 1.19 mW/g, SAR (10g): 0.708 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.07 dB



KWC-3245, 1900MHz Head, Right Cheek, PCS Ch600, Antenna Extended, 07-02-02

S3

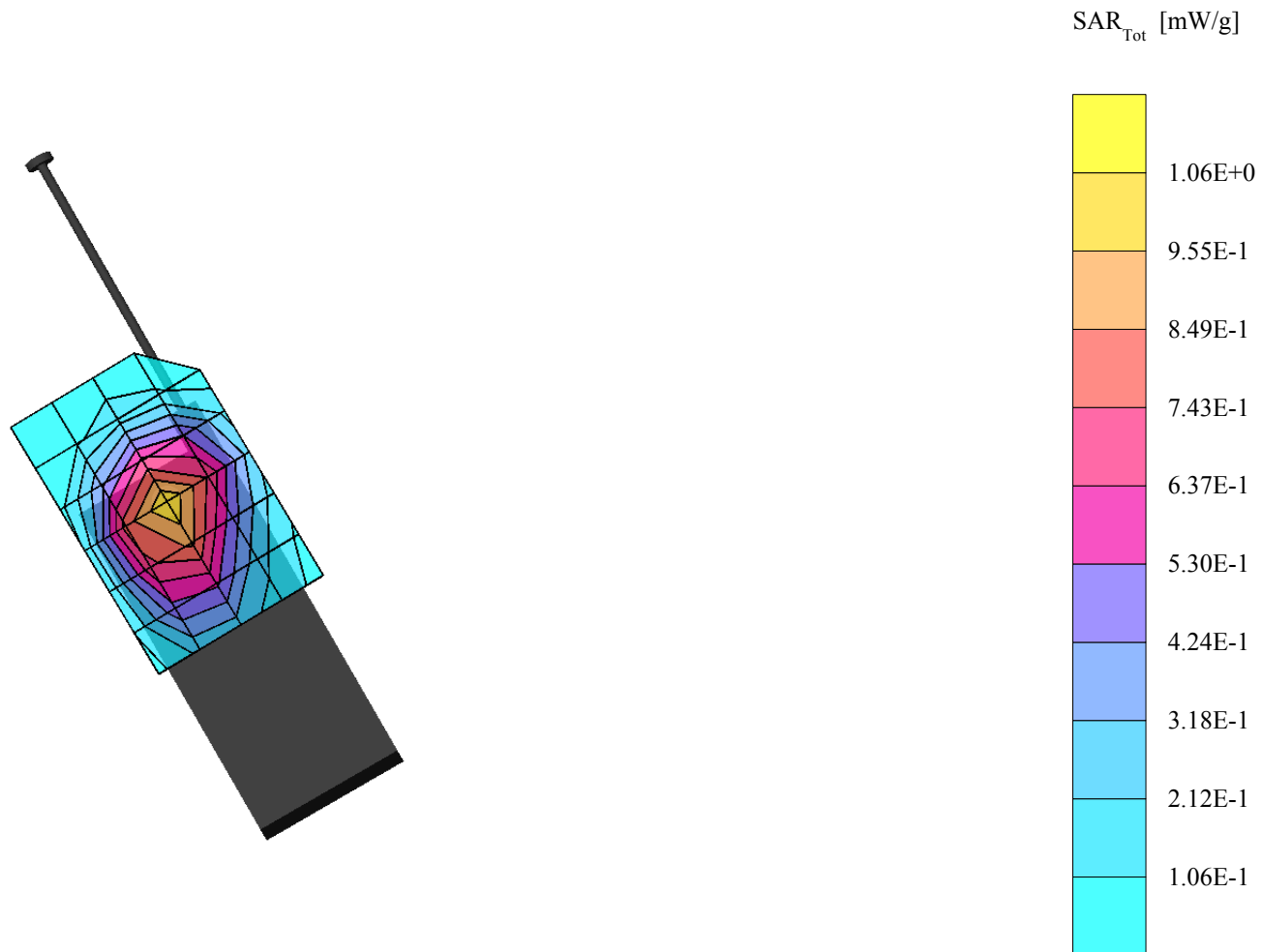
SAM Phantom; Righ Hand Section; Position: (80°,300°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1663; ConvF(5.30,5.30,5.30); Crest factor: 1.0; Head 1900 MHz: $\sigma = 1.43$ mho/m $\epsilon_r = 40.3$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 1.02 mW/g, SAR (10g): 0.609 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.06 dB



KWC-3245, 1900MHz Head, Right Tilt, PCS Ch600, Antenna Retracted, 07-02-02

S3

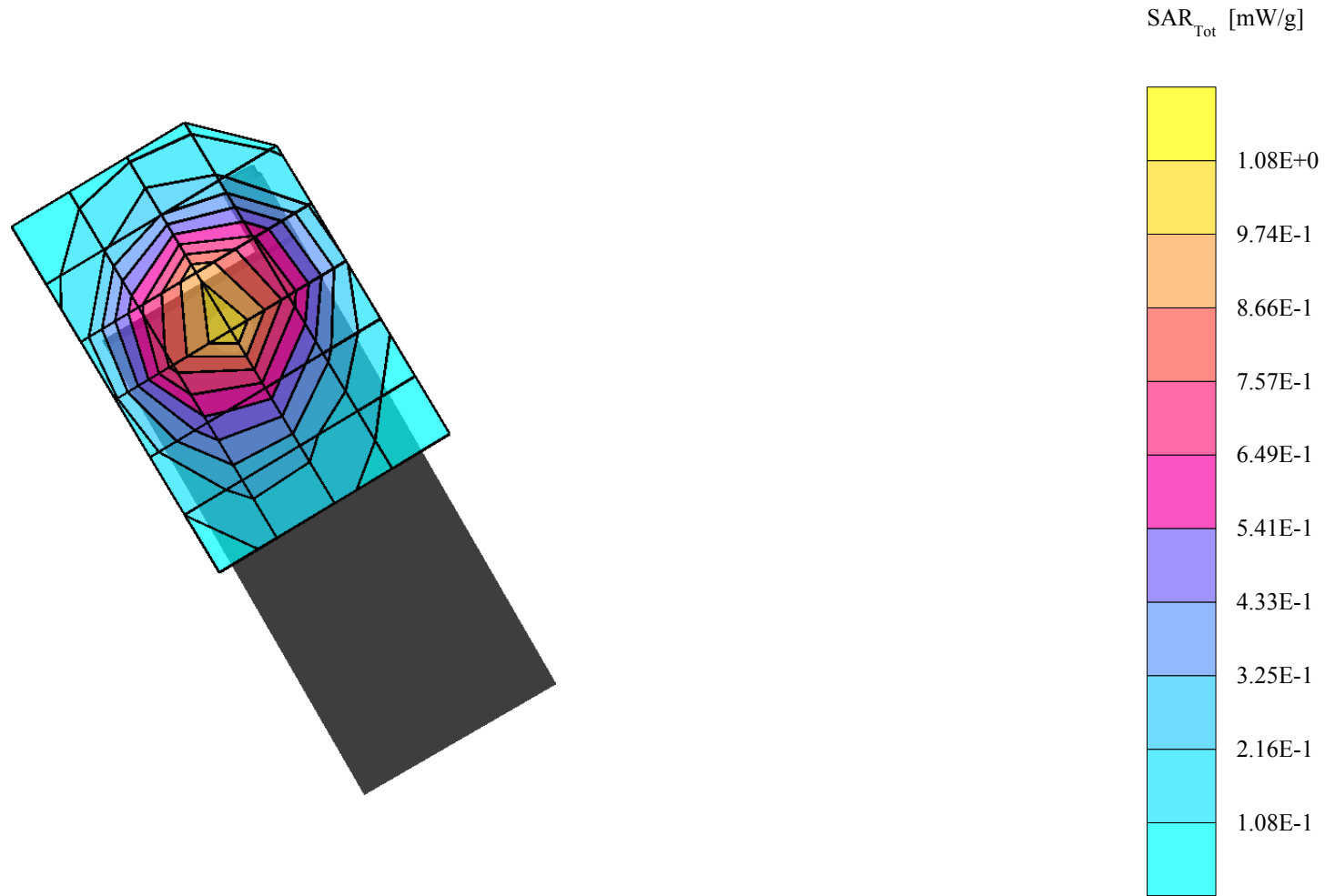
SAM Phantom; Righ Hand Section; Position: (95°,300°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1663; ConvF(5.30,5.30,5.30); Crest factor: 1.0; Head 1900 MHz: $\sigma = 1.43 \text{ mho/m}$ $\epsilon_r = 40.3$ $\rho = 1.00 \text{ g/cm}^3$

Cube 7x7x7: SAR (1g): 1.04 mW/g, SAR (10g): 0.613 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.03 dB



KWC-3245, 1900MHz Head, Right Tilt, PCS Ch600, Antenna Extended, 07-02-02

S3

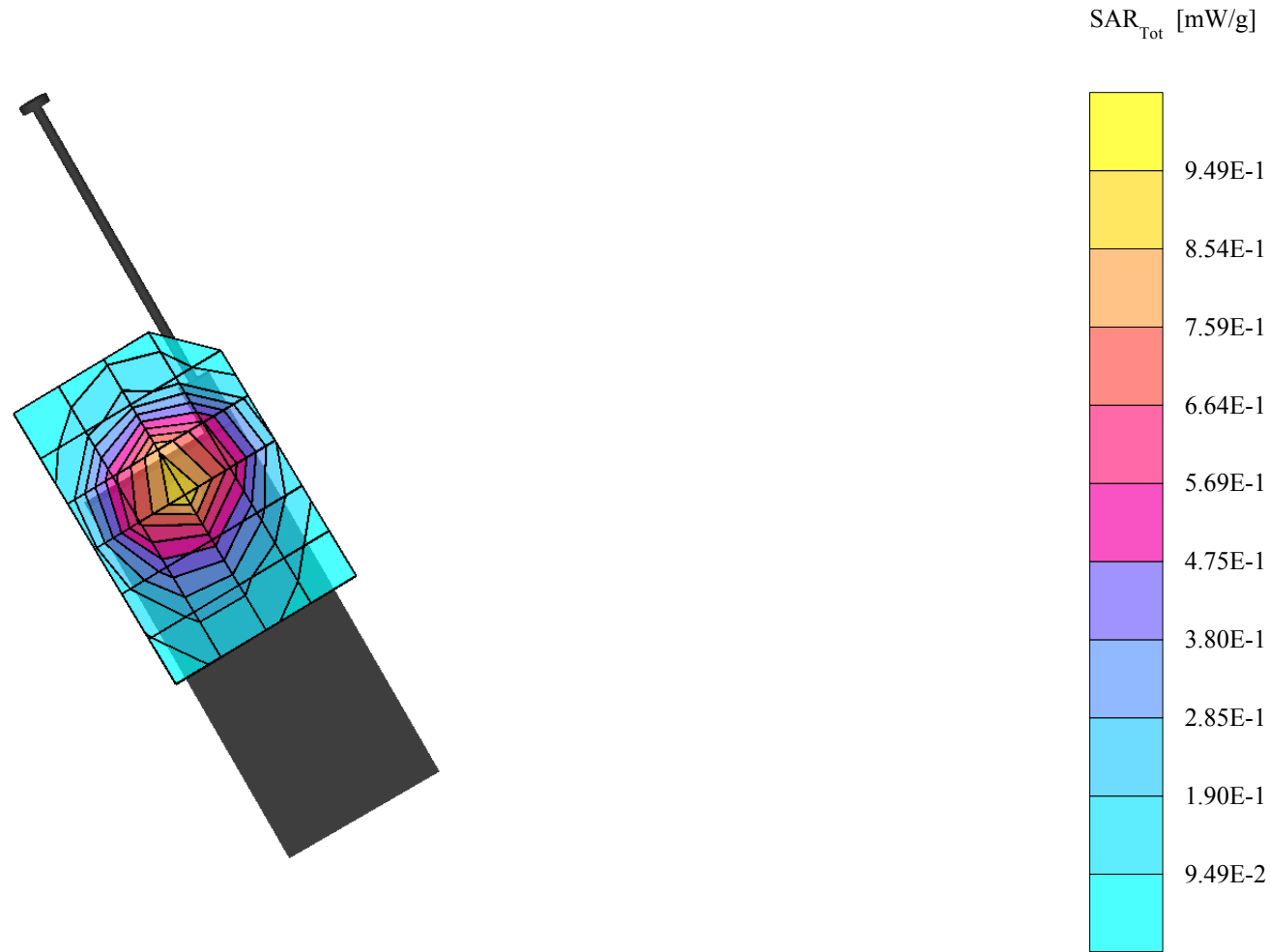
SAM Phantom; Righ Hand Section; Position: (95°,300°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1663; ConvF(5.30,5.30,5.30); Crest factor: 1.0; Head 1900 MHz: $\sigma = 1.43 \text{ mho/m}$ $\epsilon_r = 40.3$ $\rho = 1.00 \text{ g/cm}^3$

Cube 7x7x7: SAR (1g): 0.925 mW/g, SAR (10g): 0.542 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.06 dB



KWC-3245, 835MHz Muscle, Waist Level, With KWC Accessory, FM Ch383, Antenna Retracted, 07-08-02

S3 Waist

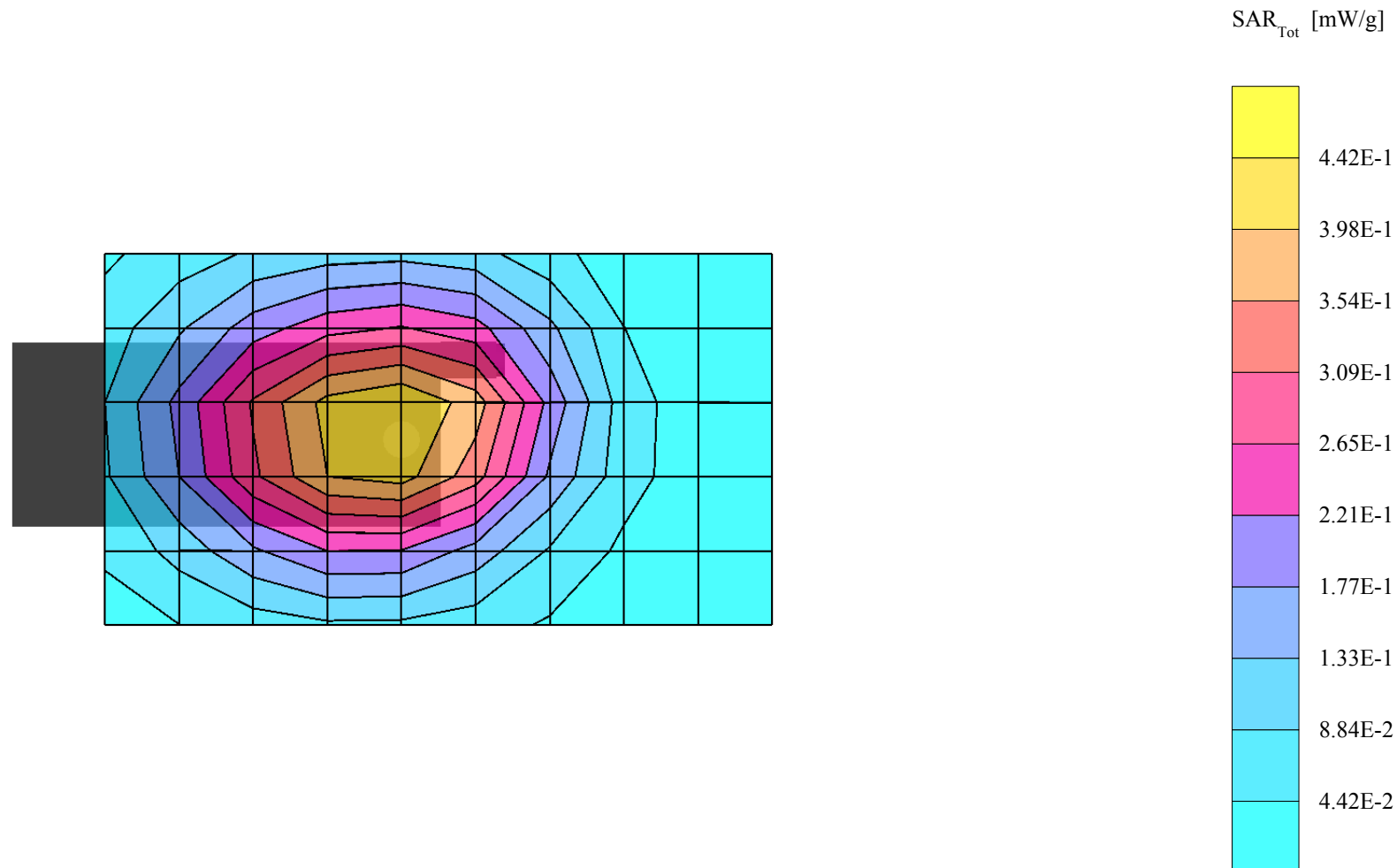
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.50,6.50,6.50); Crest factor: 1.0; Muscle 835 MHz: $\sigma = 0.94$ mho/m $\epsilon_r = 56.0$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.441 mW/g, SAR (10g): 0.320 mW/g, (Worst-case extrapolation)

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.10 dB



KWC-3245, 835MHz Muscle, Waist Level, With KWC Accessory, FM Ch991, Antenna Extended, 07-08-02

S3 Waist

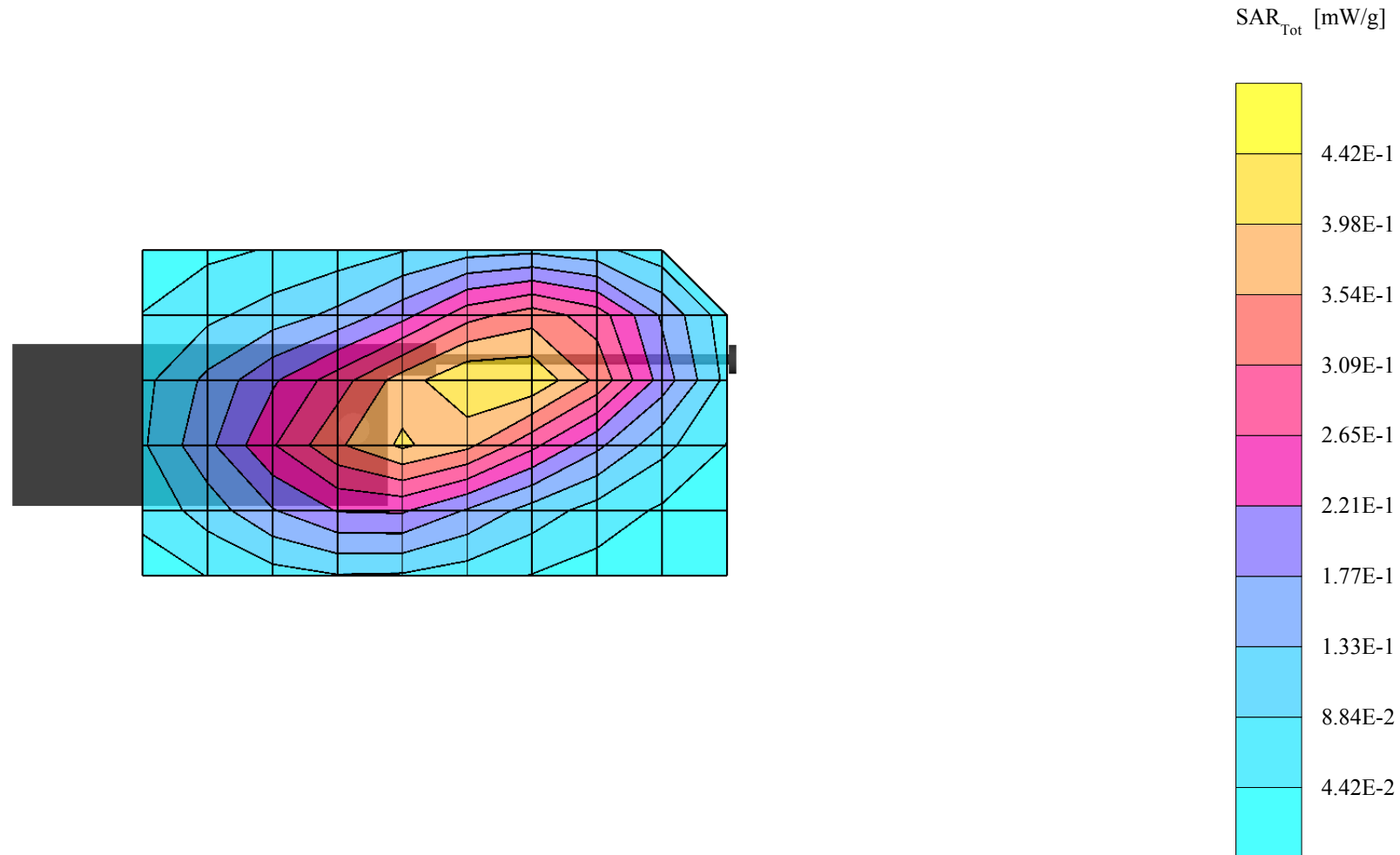
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.50,6.50,6.50); Crest factor: 1.0; Muscle 835 MHz: $\sigma = 0.94$ mho/m $\epsilon_r = 56.0$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.417 mW/g, SAR (10g): 0.302 mW/g, (Worst-case extrapolation)

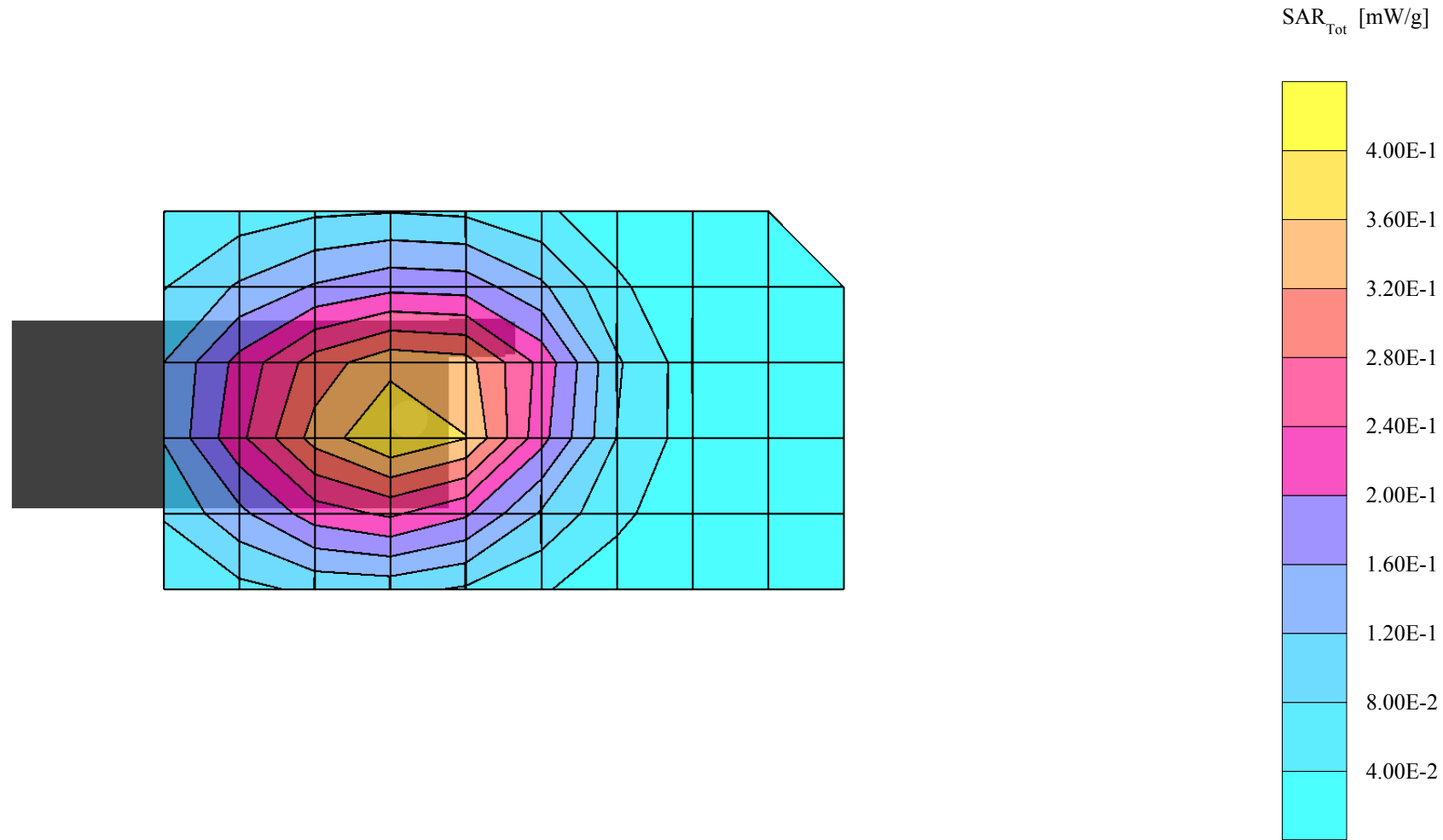
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: 0.01 dB



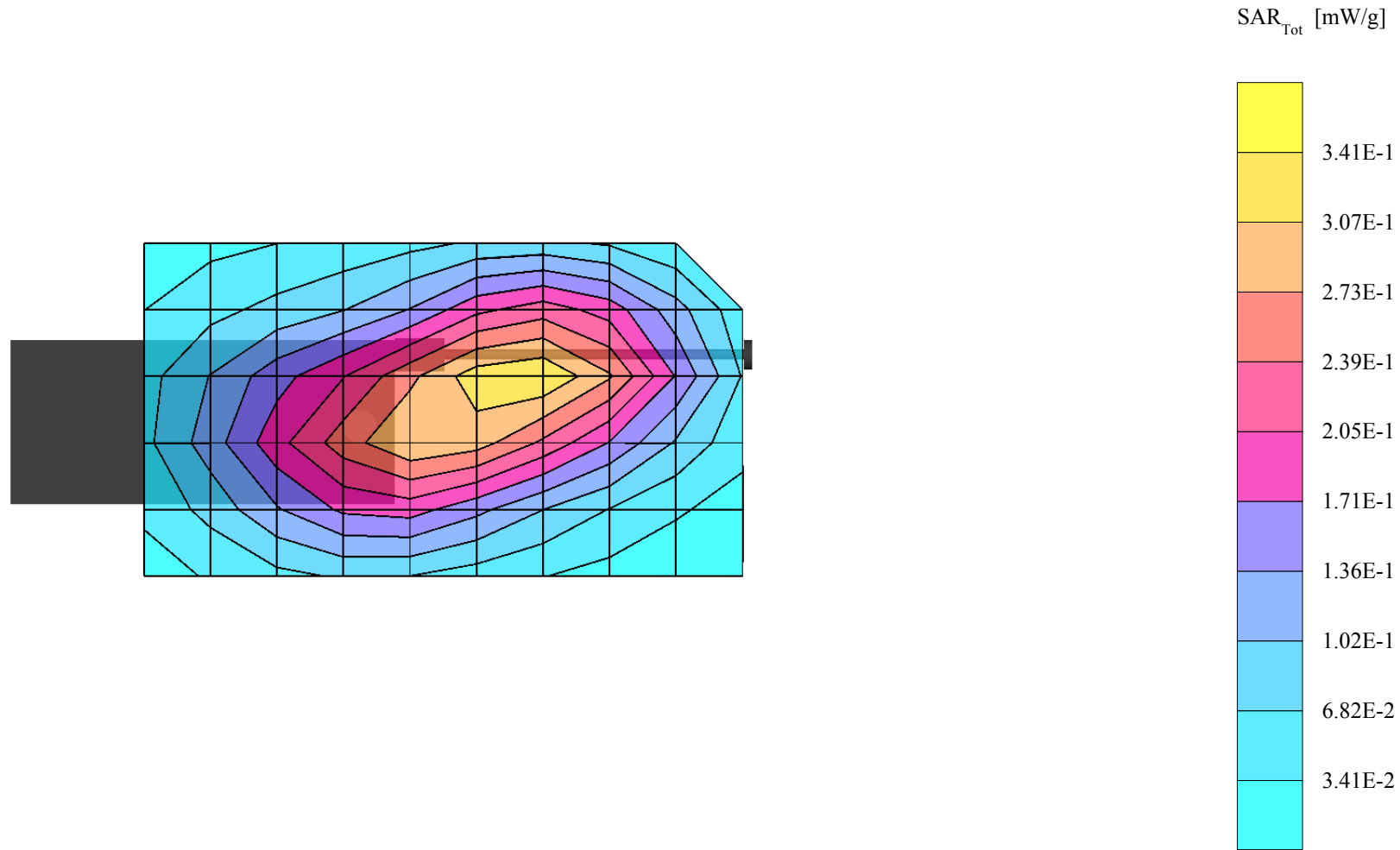
KWC-3245, 835MHz Muscle, Waist Level, With KWC Accessory, CDMA Ch383, Antenna Retracted, 07-08-02

S3 Waist
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz
Probe: ET3DV6 - SN1663; ConvF(6.50,6.50,6.50); Crest factor: 1.0; Muscle 835 MHz: $\sigma = 0.94$ mho/m $\epsilon_r = 56.0$ $\rho = 1.00$ g/cm³
Cube 7x7x7: SAR (1g): 0.385 mW/g, SAR (10g): 0.278 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: 0.12 dB



KWC-3245, 835MHz Muscle, Waist Level, With KWC Accessory, CDMA Ch1013, Antenna Extended, 07-08-02

S3 Waist
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz
Probe: ET3DV6 - SN1663; ConvF(6.50,6.50,6.50); Crest factor: 1.0; Muscle 835 MHz: $\sigma = 0.94$ mho/m $\epsilon_r = 56.0$ $\rho = 1.00$ g/cm³
Cube 7x7x7: SAR (1g): 0.325 mW/g, SAR (10g): 0.229 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: 0.12 dB



KWC-3245, 1900MHz Muscle, Waist Level, With KWC Accessory, PCS Ch25, Antenna Retracted, 07-02-02

S3 Waist

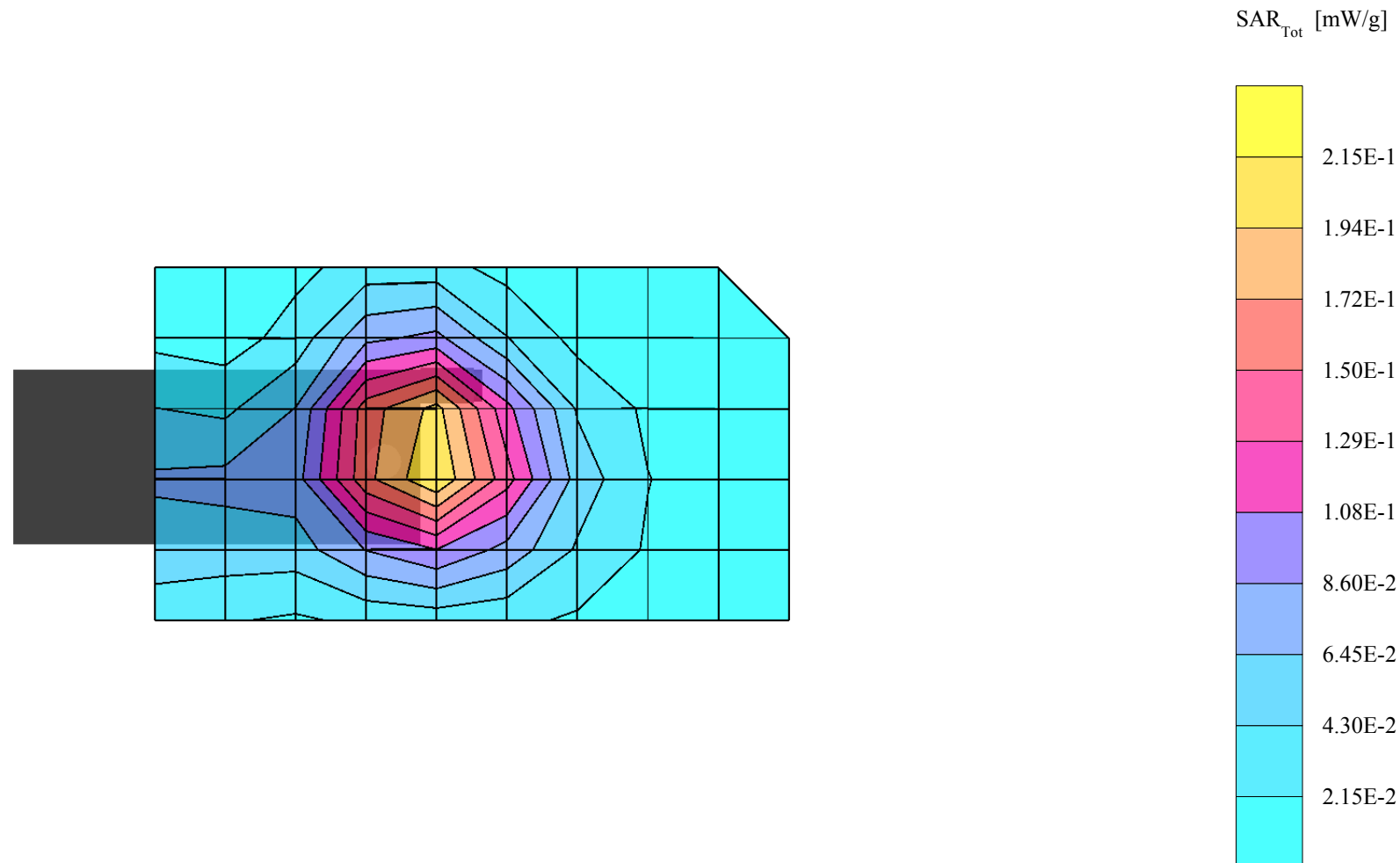
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1663; ConvF(4.77,4.77,4.77); Crest factor: 1.0; Muscle 1900 MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 54.0$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.222 mW/g, SAR (10g): 0.137 mW/g, (Worst-case extrapolation)

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: 0.08 dB



KWC-3245, 1900MHz Muscle, Waist Level, With KWC Accessory, PCS Ch25, Antenna Extended, 07-02-02

S3 Waist

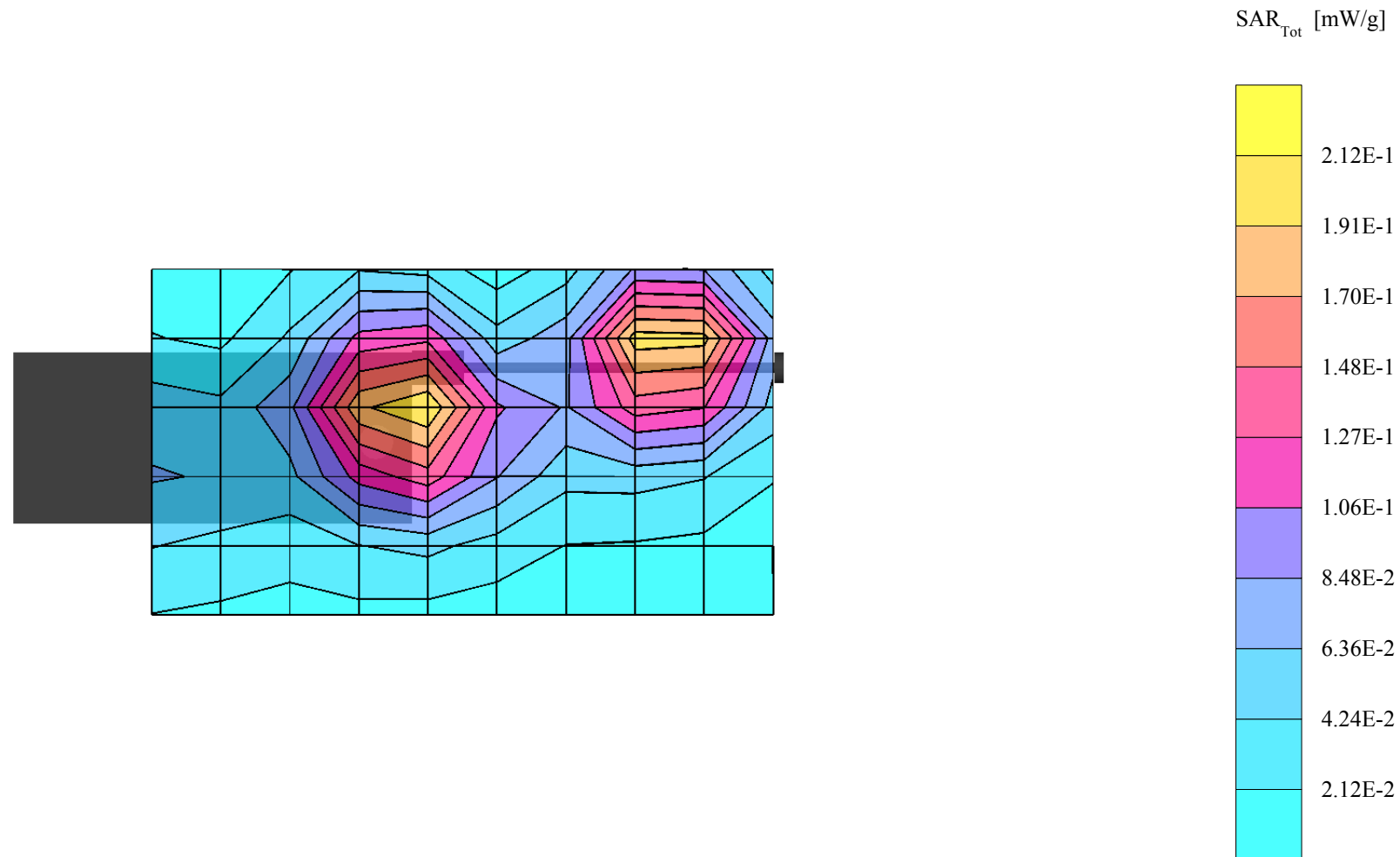
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1663; ConvF(4.77,4.77,4.77); Crest factor: 1.0; Muscle 1900 MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 54.0$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.204 mW/g, SAR (10g): 0.124 mW/g, (Worst-case extrapolation)

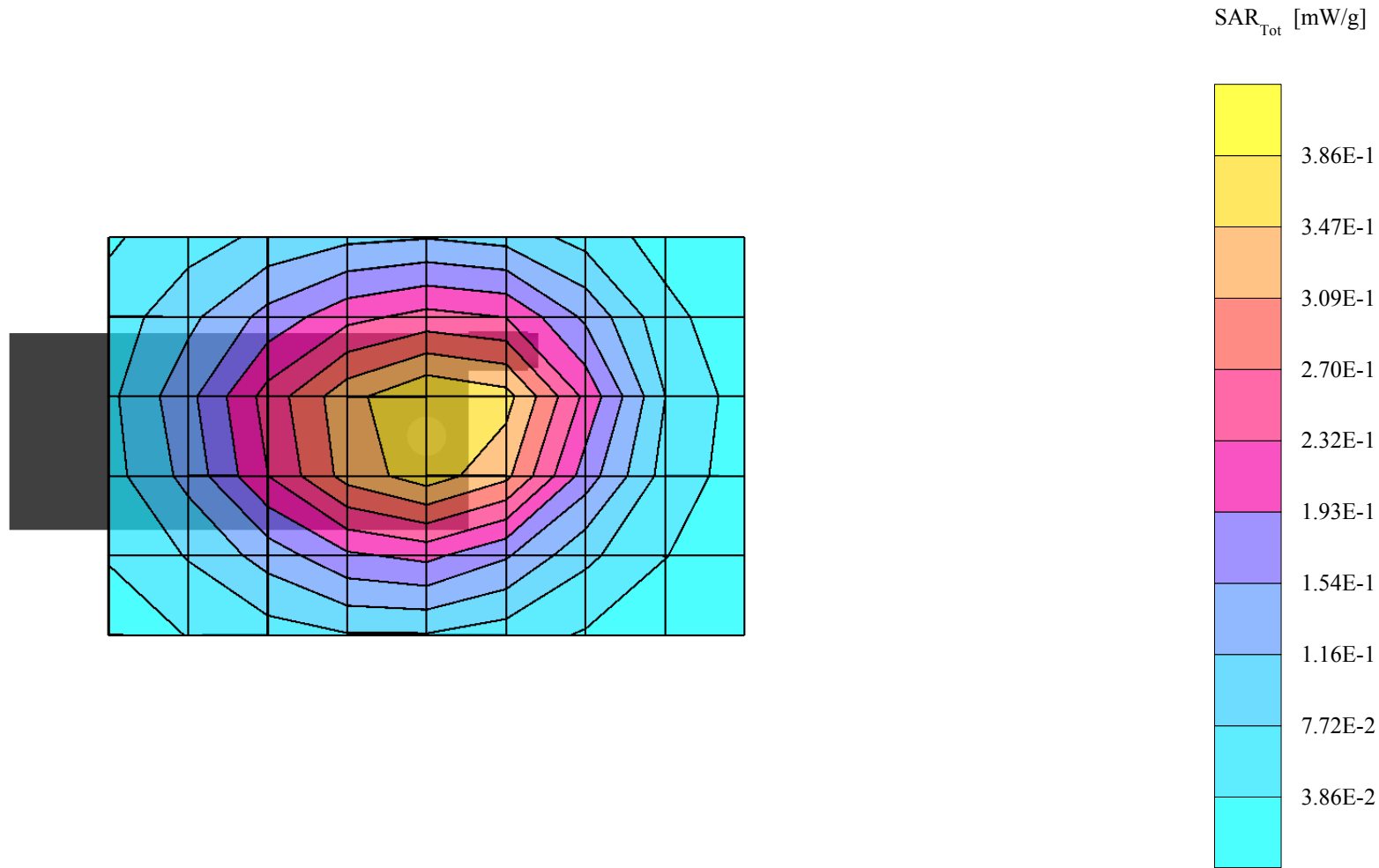
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: 0.01 dB



KWC-3245, 835MHz Muscle, Waist Level, 22.5mm Air Gap, FM Ch383, Antenna Retracted, 07-08-02

S3 Waist
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz
Probe: ET3DV6 - SN1663; ConvF(6.50,6.50,6.50); Crest factor: 1.0; Muscle 835 MHz: $\sigma = 0.94$ mho/m $\epsilon_r = 56.0$ $\rho = 1.00$ g/cm³
Cube 7x7x7: SAR (1g): 0.380 mW/g, SAR (10g): 0.277 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.10 dB



KWC-3245, 835MHz Muscle, Waist Level, 22.5mm Air Gap, FM Ch991, Antenna Extended, 07-08-02

S3 Waist

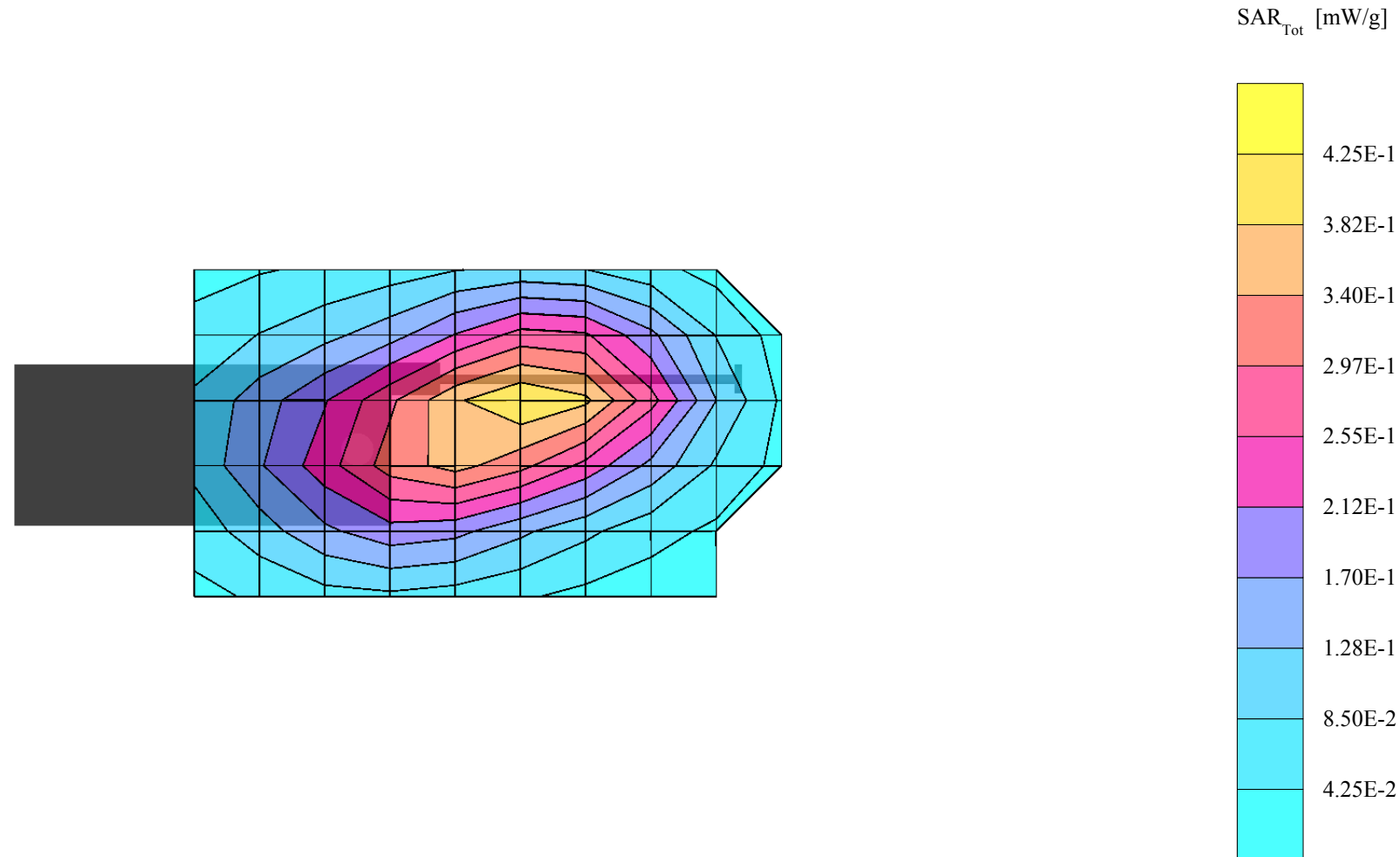
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.50,6.50,6.50); Crest factor: 1.0; Muscle 835 MHz: $\sigma = 0.94$ mho/m $\epsilon_r = 56.0$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.394 mW/g, SAR (10g): 0.280 mW/g * Max outside, (Worst-case extrapolation)

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: 0.05 dB



KWC-3245, 835MHz Muscle, Waist Level, 22.5mm Air Gap, CDMA Ch383, Antenna Retracted, 07-08-02

S3 Waist

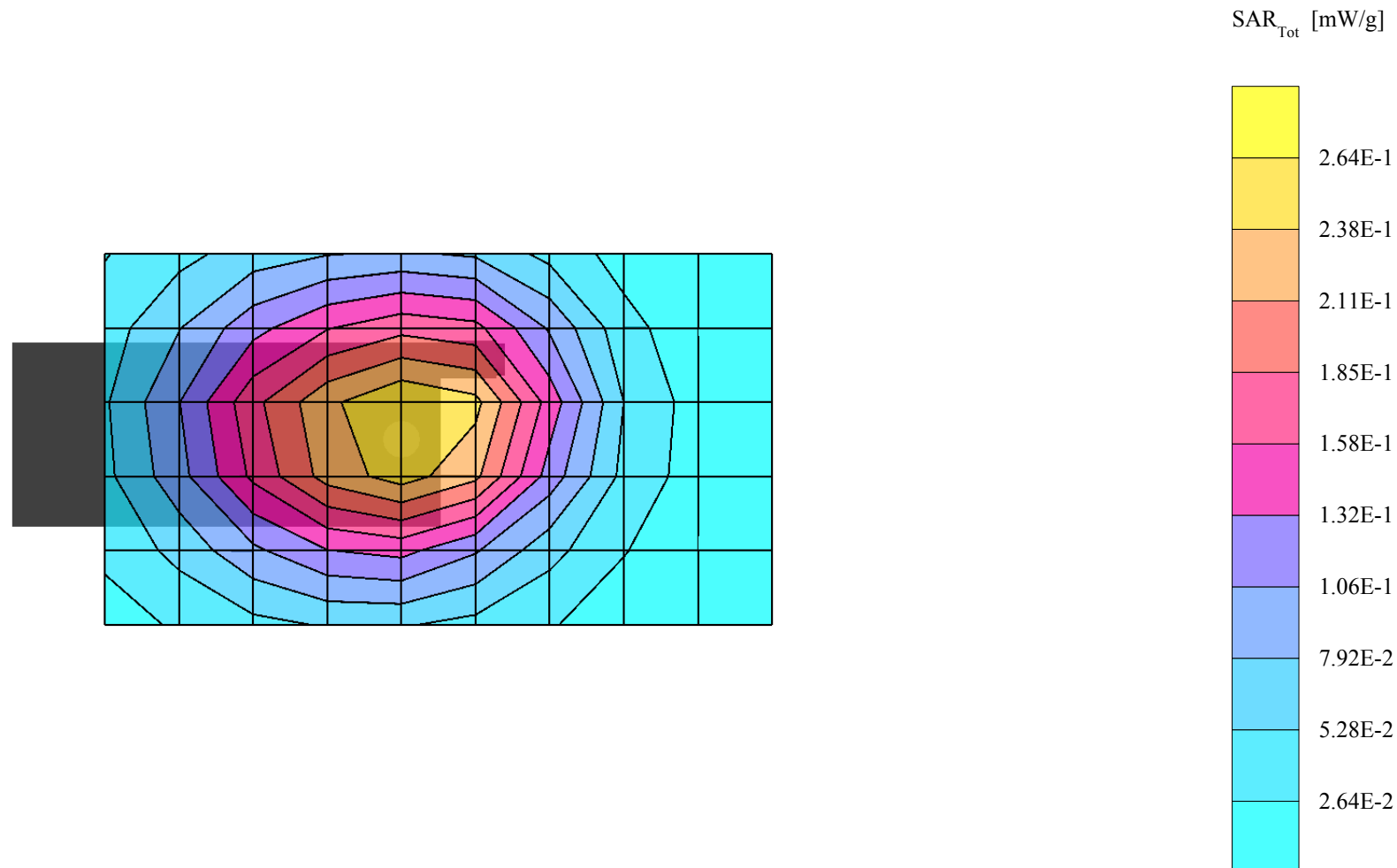
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz

Probe: ET3DV6 - SN1663; ConvF(6.50,6.50,6.50); Crest factor: 1.0; Muscle 835 MHz: $\sigma = 0.94$ mho/m $\epsilon_r = 56.0$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.265 mW/g, SAR (10g): 0.193 mW/g, (Worst-case extrapolation)

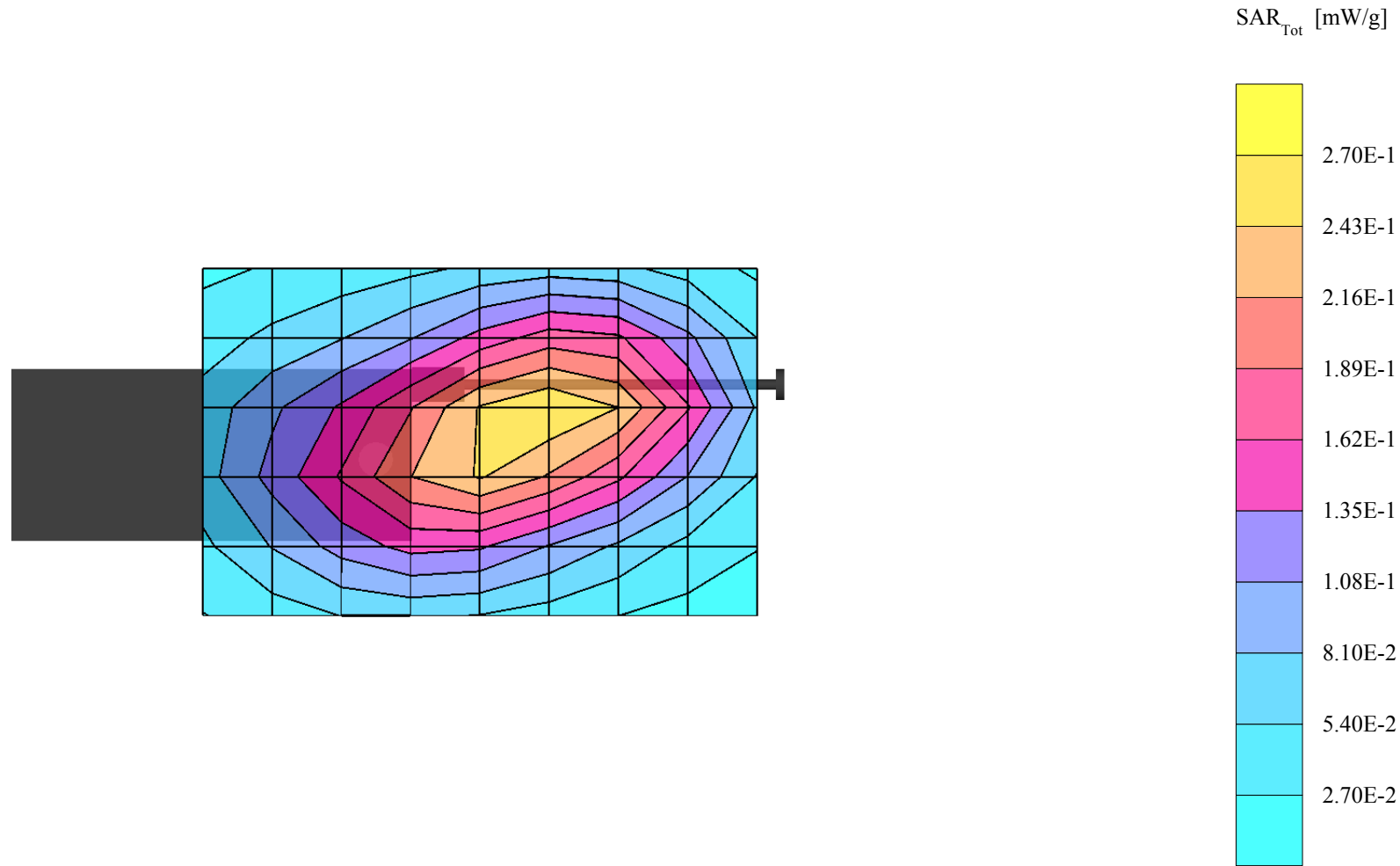
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: 0.22 dB



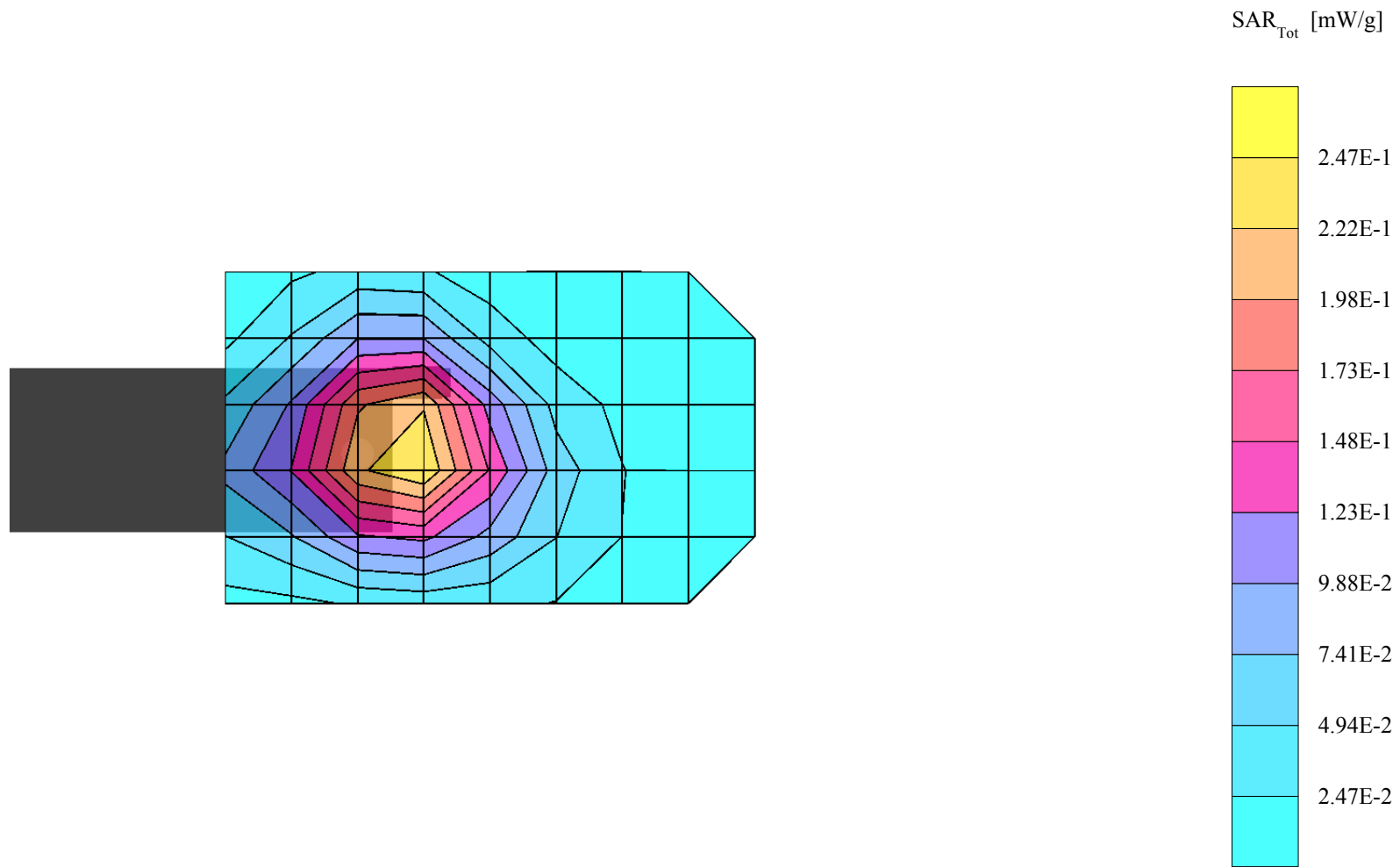
KWC-3245, 835MHz Muscle, Waist Level, 22.5mm Air Gap, CDMA Ch1013, Antenna Extended, 07-08-02

S3 Waist
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz
Probe: ET3DV6 - SN1663; ConvF(6.50,6.50,6.50); Crest factor: 1.0; Muscle 835 MHz: $\sigma = 0.94$ mho/m $\epsilon_r = 56.0$ $\rho = 1.00$ g/cm³
Cube 7x7x7: SAR (1g): 0.257 mW/g, SAR (10g): 0.184 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: 0.06 dB



KWC-3245, 1900MHz Muscle, Waist Level, 22.5mm Air Gap, PCS Ch1175, Antenna Retracted, 07-02-02

S3 Waist
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 1900 MHz
Probe: ET3DV6 - SN1663; ConvF(4.77,4.77,4.77); Crest factor: 1.0; Muscle 1900 MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 54.0$ $\rho = 1.00$ g/cm³
Cube 7x7x7: SAR (1g): 0.240 mW/g, SAR (10g): 0.151 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.10 dB



KWC-3245, 1900MHz Muscle, Waist Level, 22.5mm Air Gap, PCS Ch1175, Antenna Extended, 07-02-02

S3 Waist

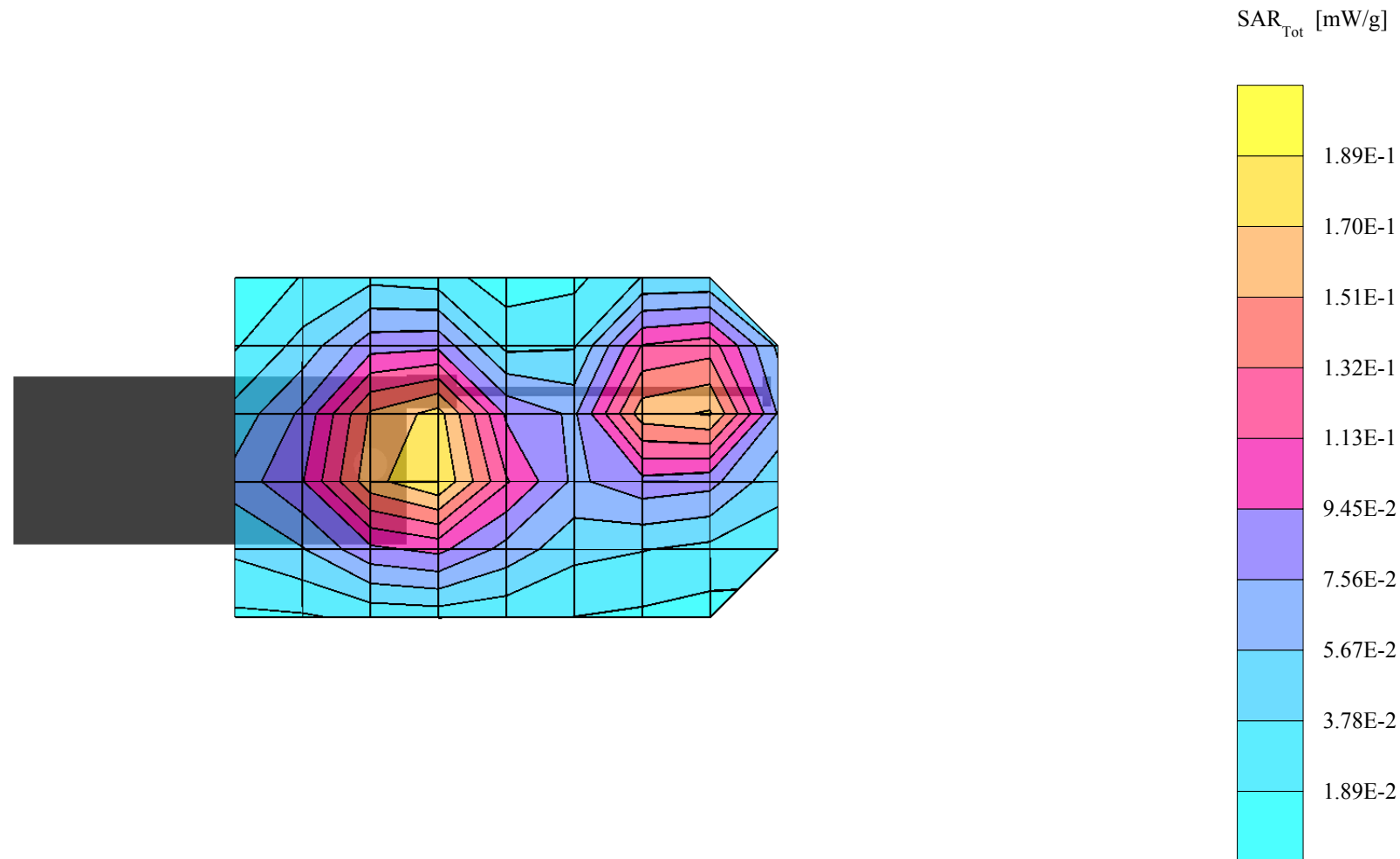
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1663; ConvF(4.77,4.77,4.77); Crest factor: 1.0; Muscle 1900 MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 54.0$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.186 mW/g, SAR (10g): 0.117 mW/g, (Worst-case extrapolation)

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: 0.20 dB



Company Kyocera Wireless Corp.	Document No.	
KWC-3245 SAR REPORT	Issue No:	Date July 2002
FCC ID OVFKWC-3245	Page Number 23	

APPENDIX C: PROBE CALIBRATION CERTIFICATE

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland, Phone +41 1 245 97 00, Fax +41 1 245 97 79

Calibration Certificate

Dosimetric E-Field Probe

Type:

ET3DV6

Serial Number:

1663

Place of Calibration:

Zurich

Date of Calibration:

February 21, 2002

Calibration Interval:

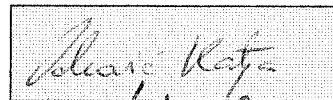
12 months

asset#
039933

Schmid & Partner Engineering AG hereby certifies, that this device has been calibrated on the date indicated above. The calibration was performed in accordance with specifications and procedures of Schmid & Partner Engineering AG.

Wherever applicable, the standards used in the calibration process are traceable to international standards. In all other cases the standards of the Laboratory for EMF and Microwave Electronics at the Swiss Federal Institute of Technology (ETH) in Zurich, Switzerland have been applied.

Calibrated by:



Approved by:



Probe ET3DV6

SN:1663

Manufactured:	February 8, 2002
Last calibration:	February 21, 2002

Calibrated for System DASY3

DASY3 - Parameters of Probe: ET3DV6 SN:1663

Sensitivity in Free Space

NormX	1.84 $\mu\text{V}/(\text{V}/\text{m})^2$
NormY	1.83 $\mu\text{V}/(\text{V}/\text{m})^2$
NormZ	1.64 $\mu\text{V}/(\text{V}/\text{m})^2$

Diode Compression

DCP X	100	mV
DCP Y	100	mV
DCP Z	100	mV

Sensitivity in Tissue Simulating Liquid

Head	900 MHz	$\epsilon_r = 41.5 \pm 5\%$	$\sigma = 0.97 \pm 5\%$ mho/m
Head	835 MHz	$\epsilon_r = 41.5 \pm 5\%$	$\sigma = 0.90 \pm 5\%$ mho/m
ConvF X	6.7 $\pm 9.5\%$ (k=2)		Boundary effect:
ConvF Y	6.7 $\pm 9.5\%$ (k=2)		Alpha 0.34
ConvF Z	6.7 $\pm 9.5\%$ (k=2)		Depth 2.52
Head	1800 MHz	$\epsilon_r = 40.0 \pm 5\%$	$\sigma = 1.40 \pm 5\%$ mho/m
Head	1900 MHz	$\epsilon_r = 40.0 \pm 5\%$	$\sigma = 1.40 \pm 5\%$ mho/m
ConvF X	5.3 $\pm 9.5\%$ (k=2)		Boundary effect:
ConvF Y	5.3 $\pm 9.5\%$ (k=2)		Alpha 0.48
ConvF Z	5.3 $\pm 9.5\%$ (k=2)		Depth 2.34

Boundary Effect

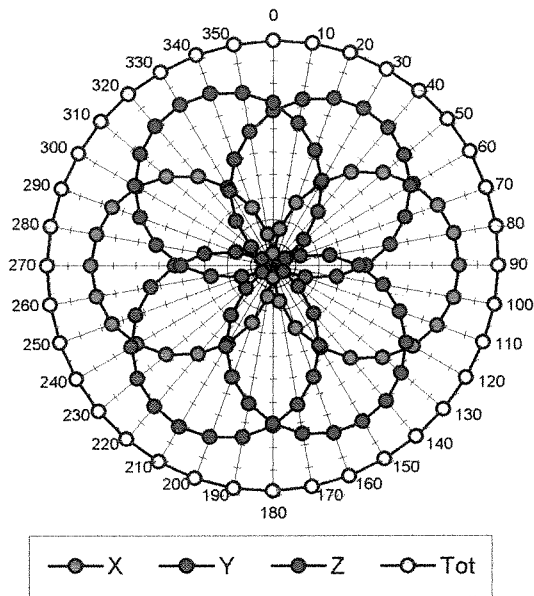
Head	900 MHz	Typical SAR gradient: 5 % per mm	
	Probe Tip to Boundary	1 mm	2 mm
	SAR _{be} [%] Without Correction Algorithm	8.8	5.0
	SAR _{be} [%] With Correction Algorithm	0.3	0.5
Head	1800 MHz	Typical SAR gradient: 10 % per mm	
	Probe Tip to Boundary	1 mm	2 mm
	SAR _{be} [%] Without Correction Algorithm	10.8	7.1
	SAR _{be} [%] With Correction Algorithm	0.1	0.3

Sensor Offset

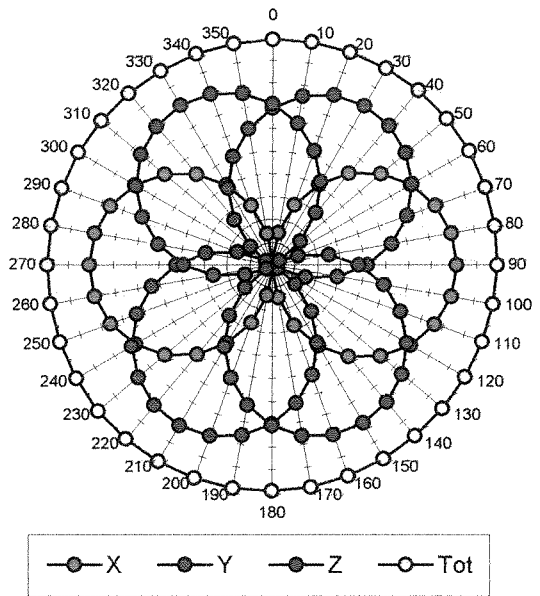
Probe Tip to Sensor Center	2.7	mm
Optical Surface Detection	1.0 \pm 0.2	mm

Receiving Pattern (ϕ), $\theta = 0^\circ$

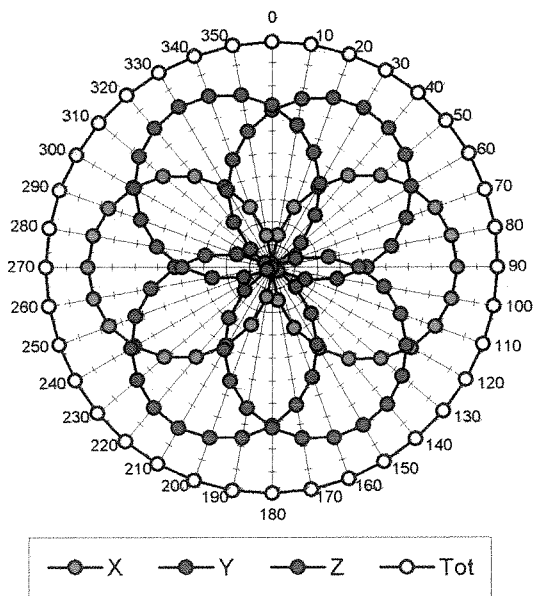
f = 30 MHz, TEM cell ifi110



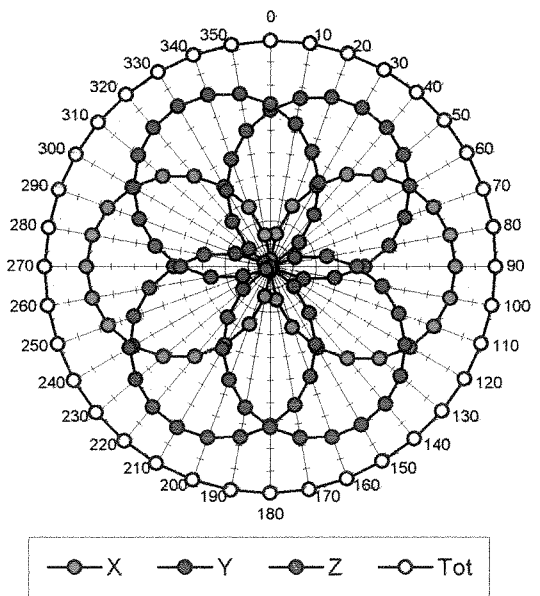
f = 100 MHz, TEM cell ifi110

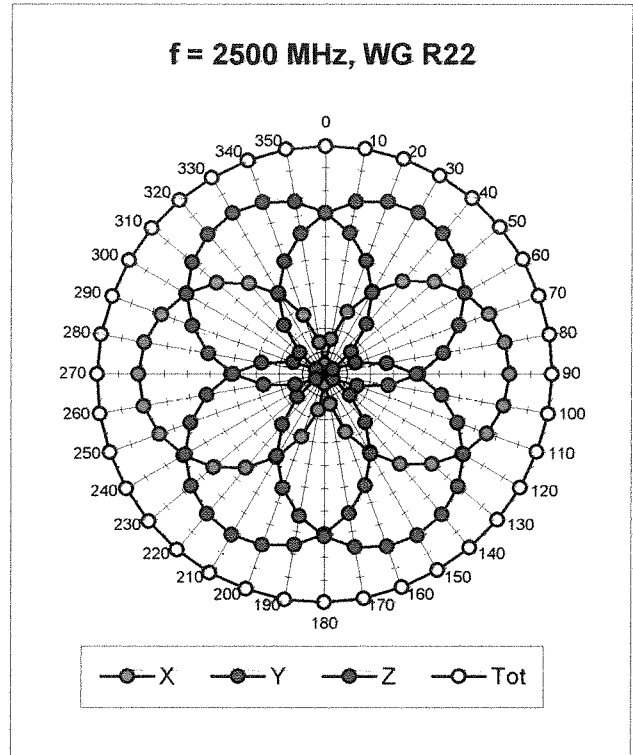
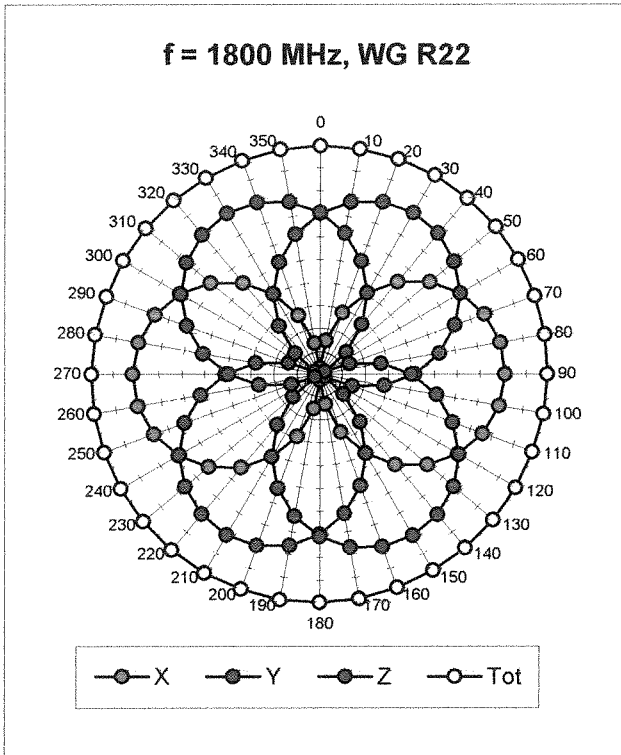


f = 300 MHz, TEM cell ifi110

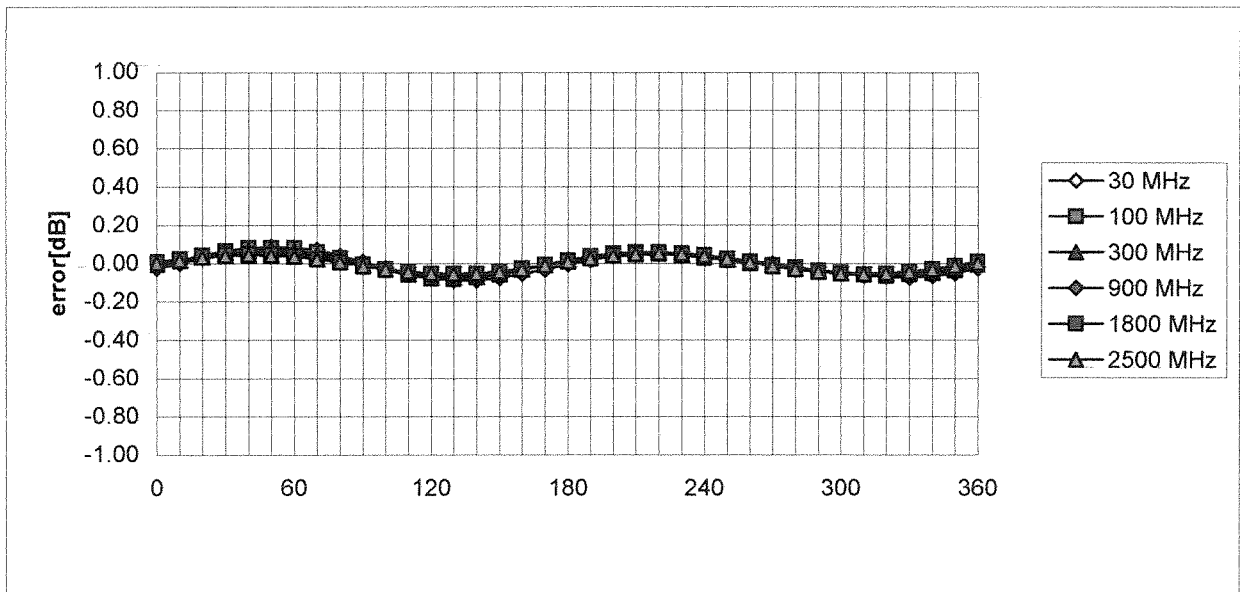


f = 900 MHz, TEM cell ifi110



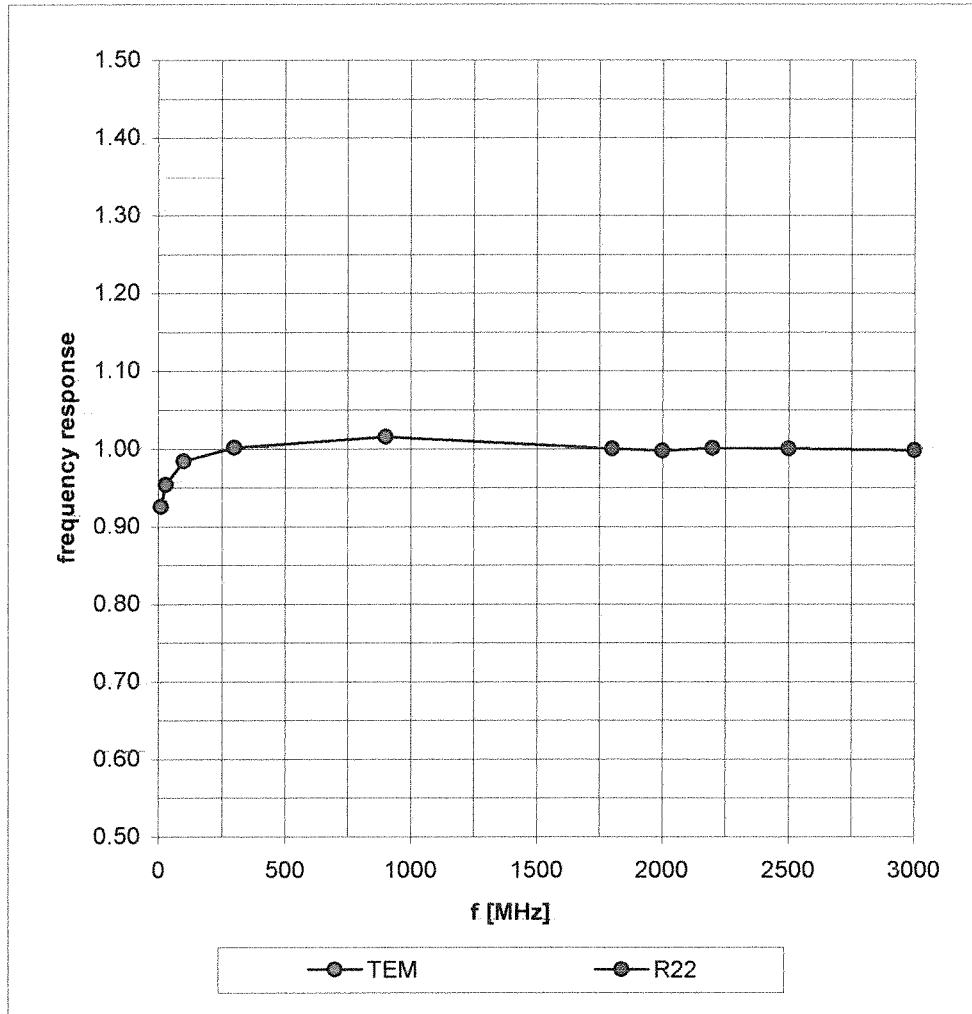


Isotropy Error (ϕ), $\theta = 0^\circ$

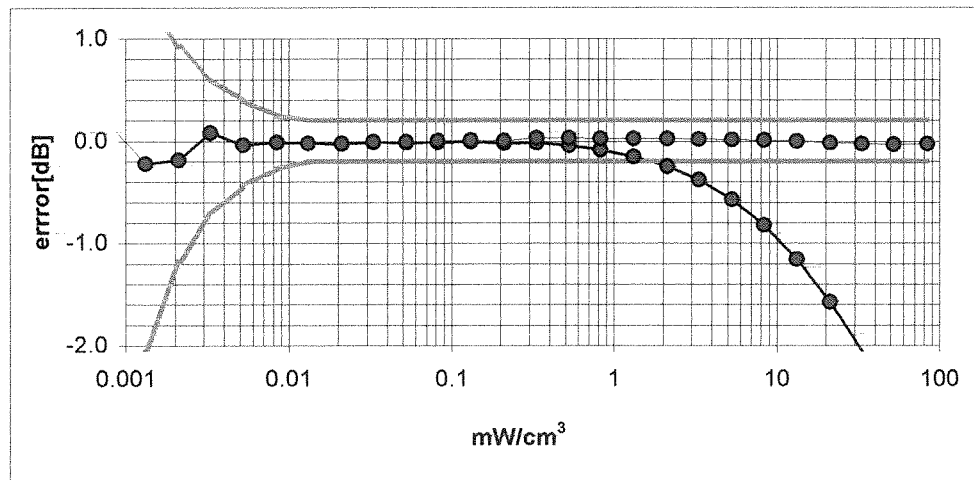
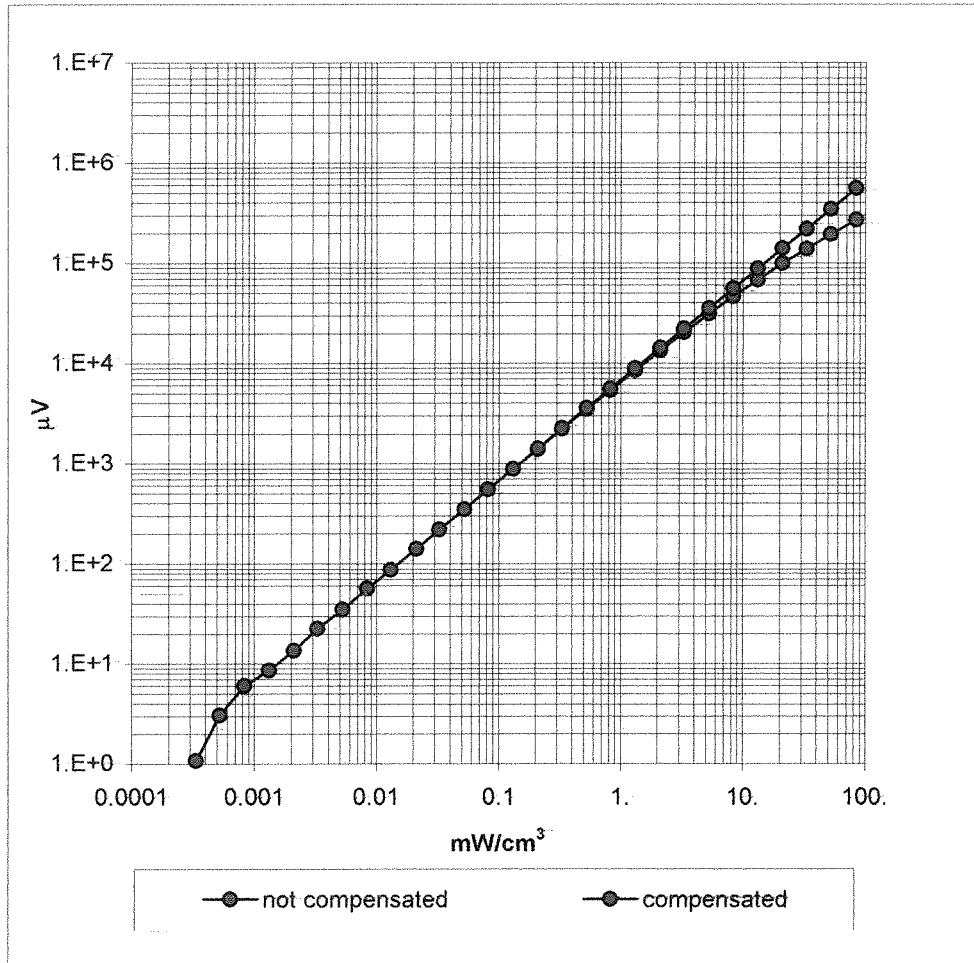


Frequency Response of E-Field

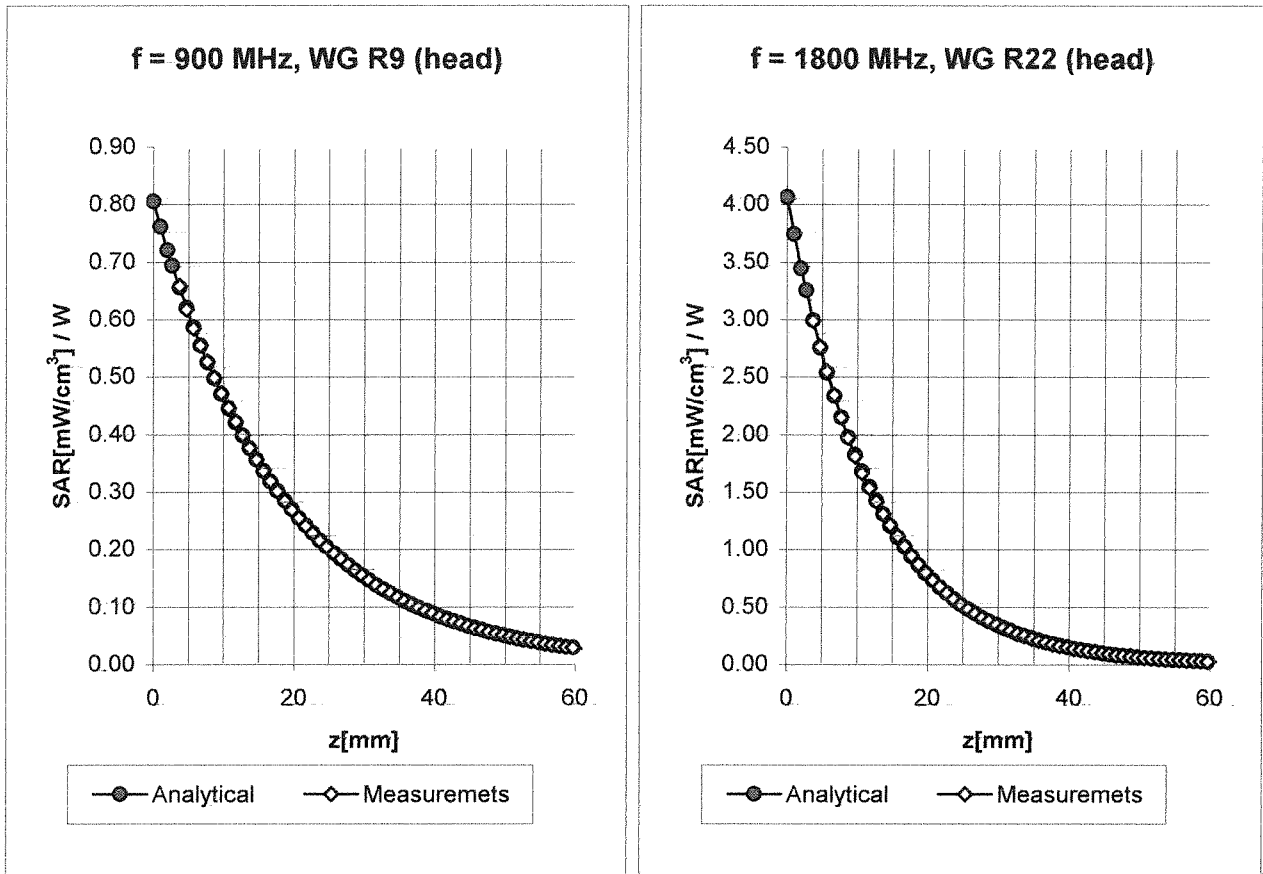
(TEM-Cell:ifi110, Waveguide R22)



Dynamic Range $f(\text{SAR}_{\text{brain}})$ (Waveguide R22)



Conversion Factor Assessment



Head	900 MHz	$\epsilon_r = 41.5 \pm 5\%$	$\sigma = 0.97 \pm 5\%$ mho/m
Head	835 MHz	$\epsilon_r = 41.5 \pm 5\%$	$\sigma = 0.90 \pm 5\%$ mho/m
	ConvF X	6.7 $\pm 9.5\%$ (k=2)	Boundary effect:
	ConvF Y	6.7 $\pm 9.5\%$ (k=2)	Alpha 0.34
	ConvF Z	6.7 $\pm 9.5\%$ (k=2)	Depth 2.52
Head	1800 MHz	$\epsilon_r = 40.0 \pm 5\%$	$\sigma = 1.40 \pm 5\%$ mho/m
Head	1900 MHz	$\epsilon_r = 40.0 \pm 5\%$	$\sigma = 1.40 \pm 5\%$ mho/m
	ConvF X	5.3 $\pm 9.5\%$ (k=2)	Boundary effect:
	ConvF Y	5.3 $\pm 9.5\%$ (k=2)	Alpha 0.48
	ConvF Z	5.3 $\pm 9.5\%$ (k=2)	Depth 2.34