

APPENDIX B-2:
SAR Distribution Plots
For
Model KE414

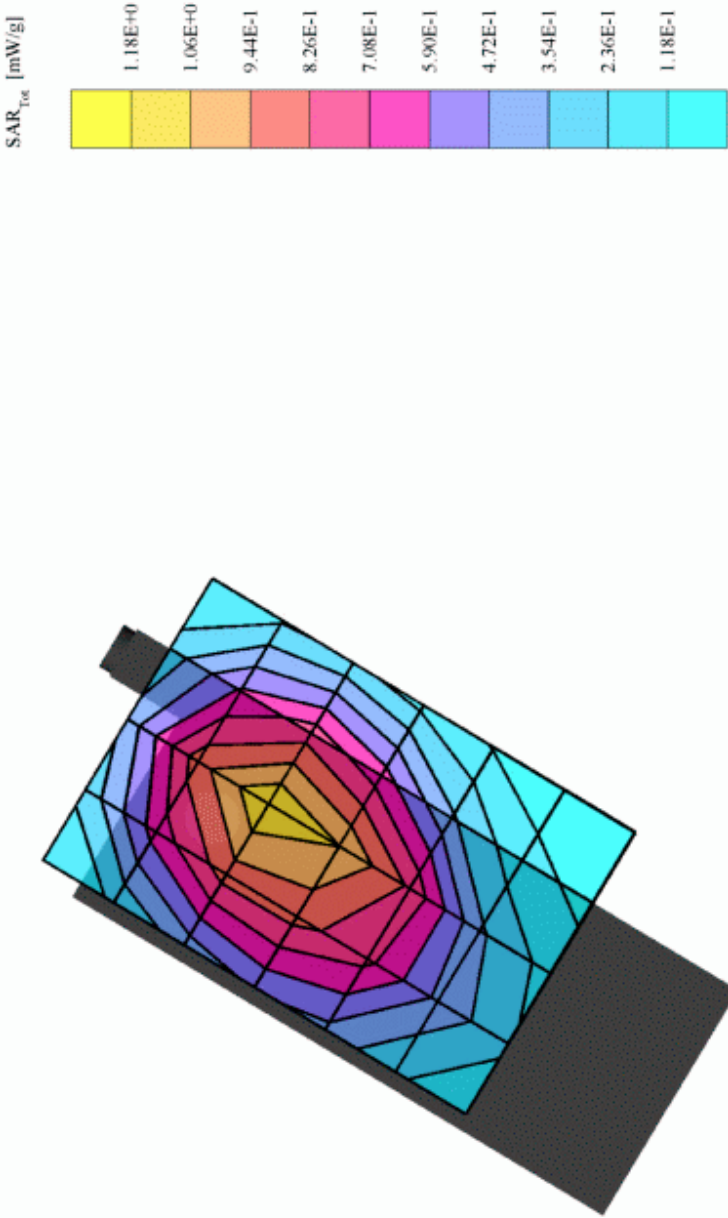
Section 1

SAR Distribution plots for Head Adjacent Use Configuration

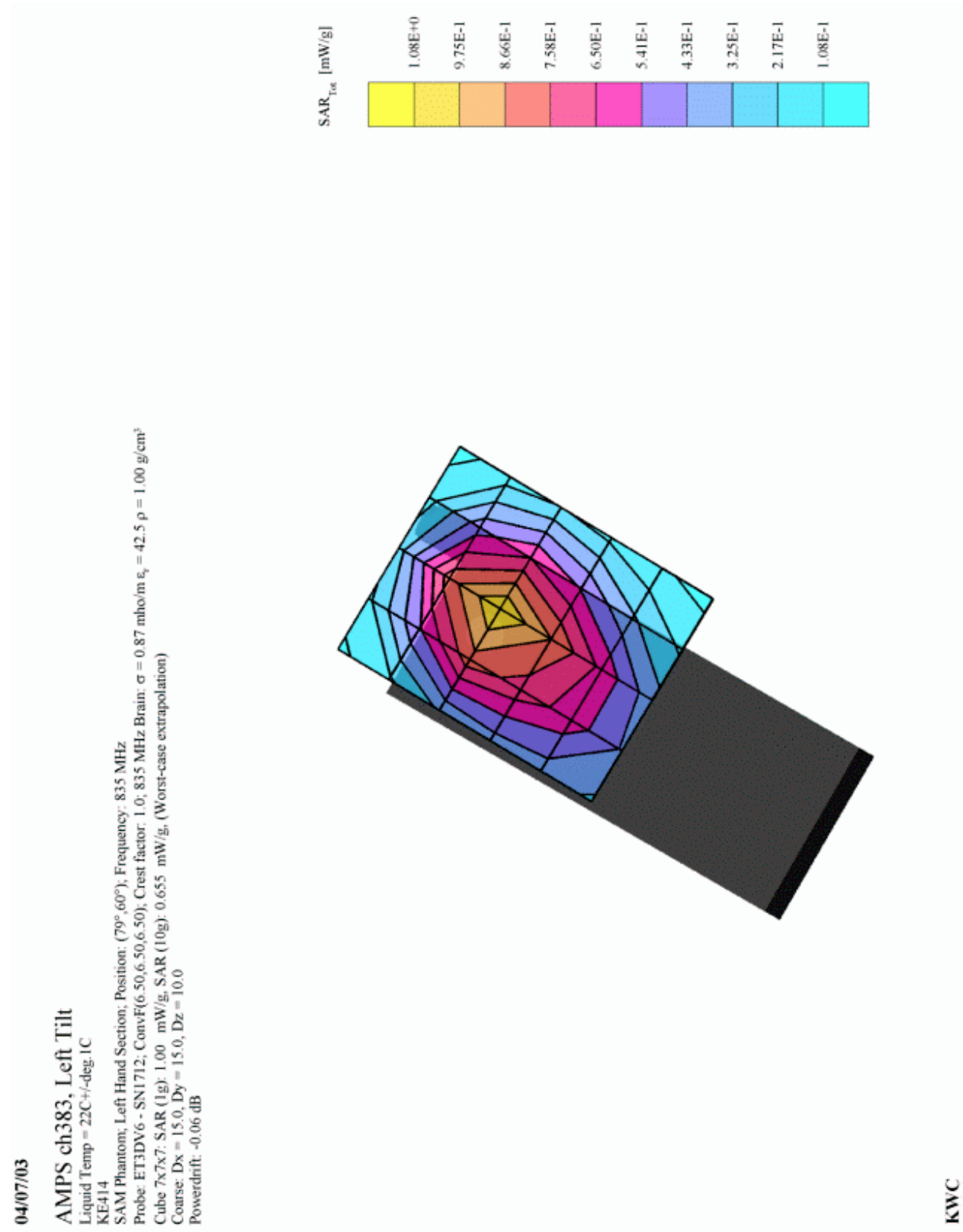
04/07/03

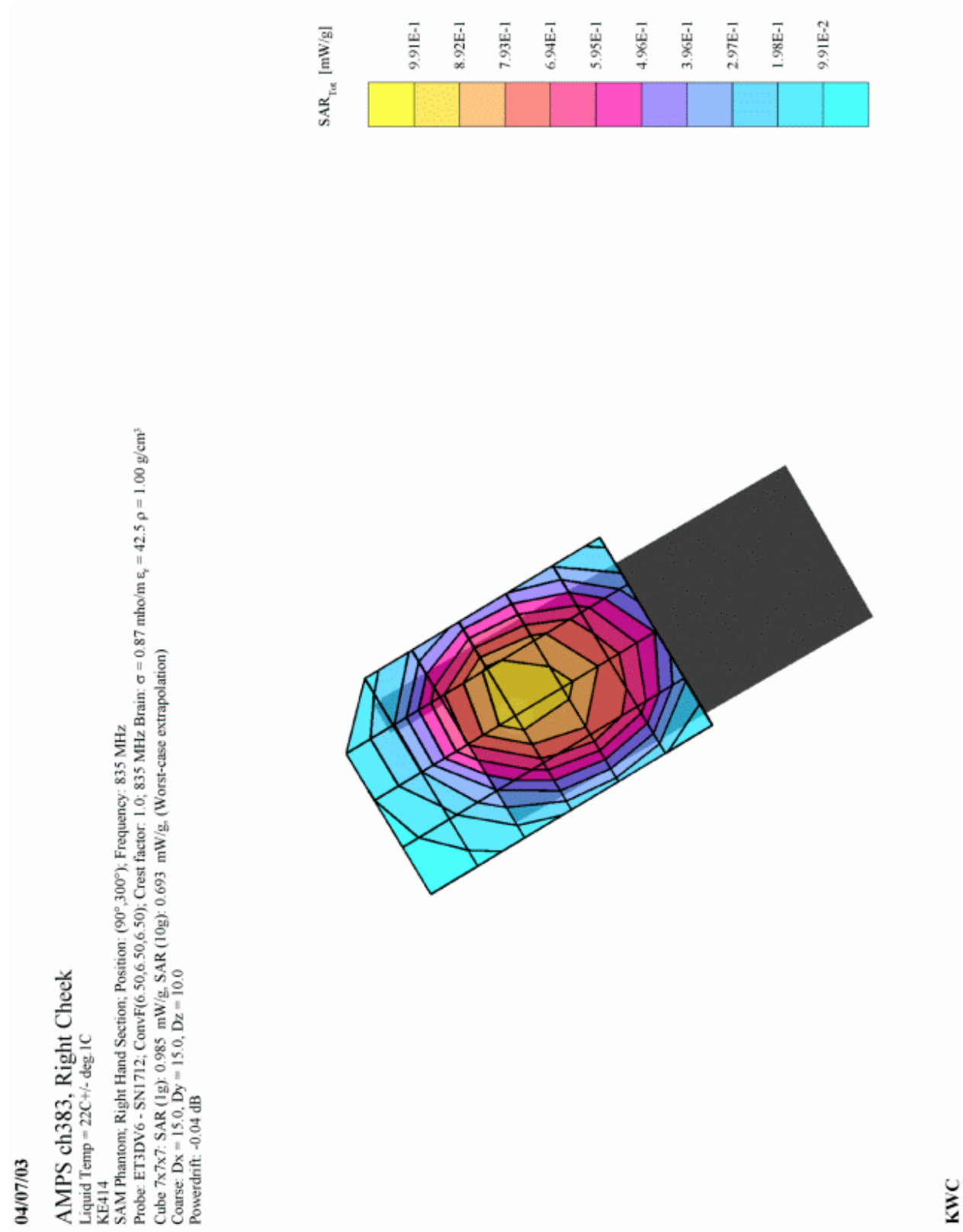
AMPS ch383, Left Cheek

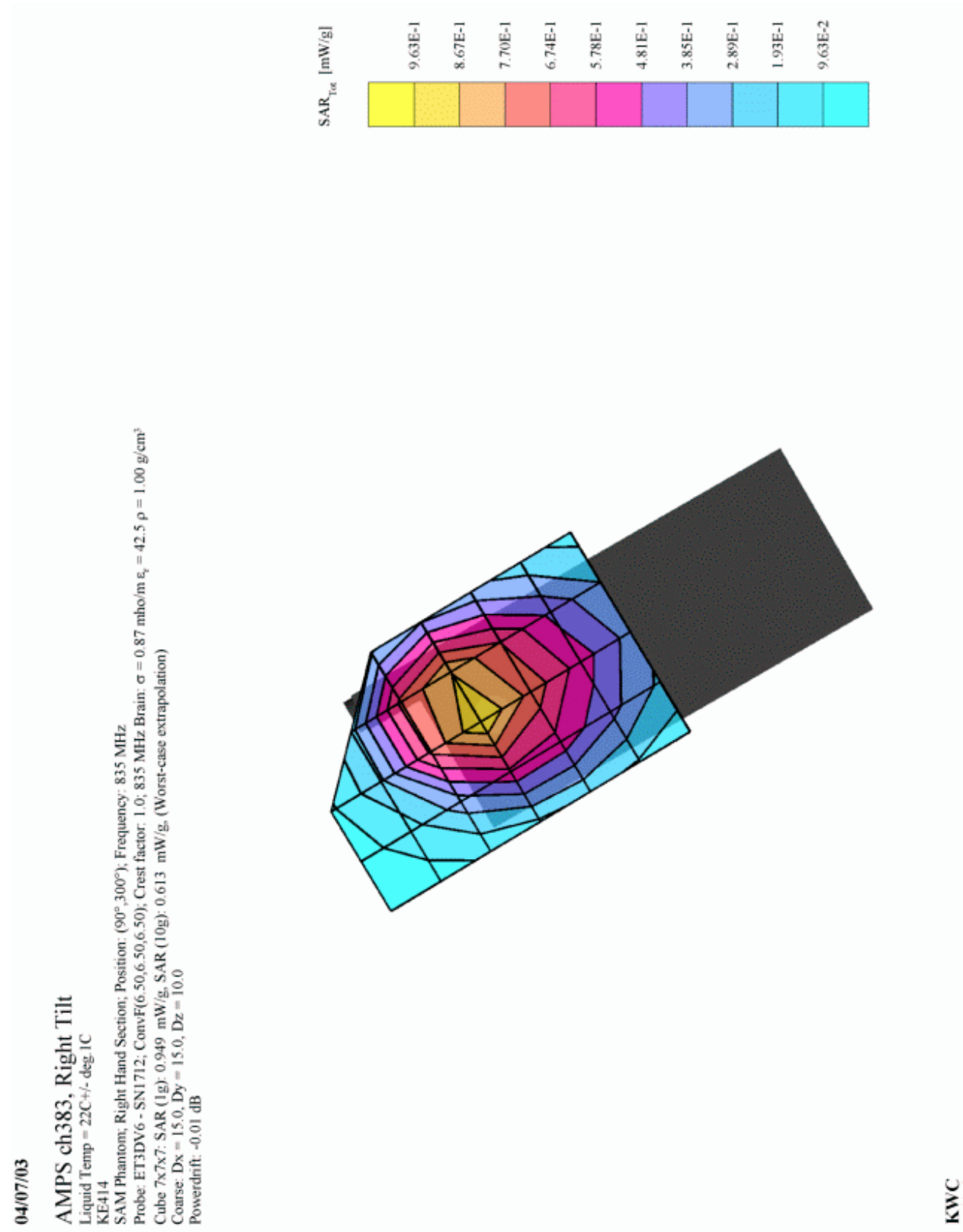
Liquid Temp = 22C +/- deg. 1C
KE414
SAM Phantom; Left Hand Section; Position: (90°, 59°); Frequency: 835 MHz
Probe: ET3DV6 - SN1712; ConvF(6.50,6.50); Crest factor: 1.0; 835 MHz Brain: $\sigma = 0.87$ mho/m $\epsilon_r = 42.5$ $\rho = 1.00$ g/cm³
Cube 7x7x7: SAR (1g): 1.13 mW/g; SAR (10g): 0.758 mW/g; (Worst-case extrapolation)
Course: Dx = 15.0, Dy = 15.0, Dz = 10.0
Powerdrift: 0.03 dB



KWC



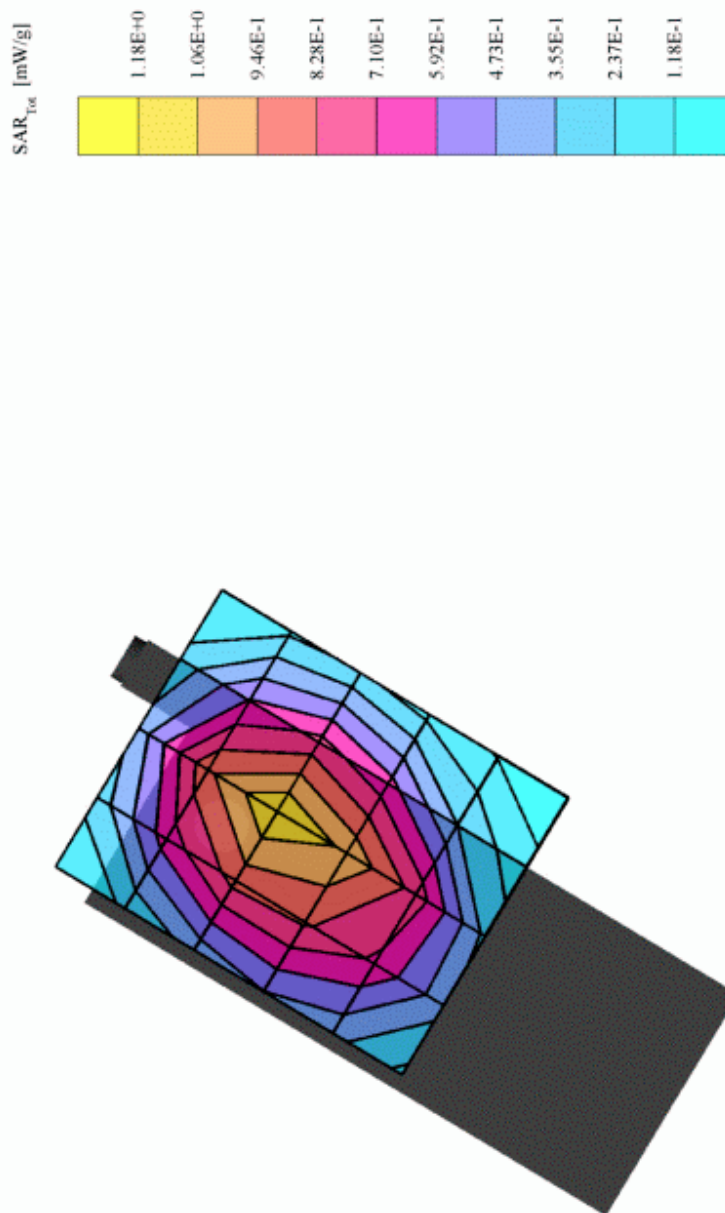




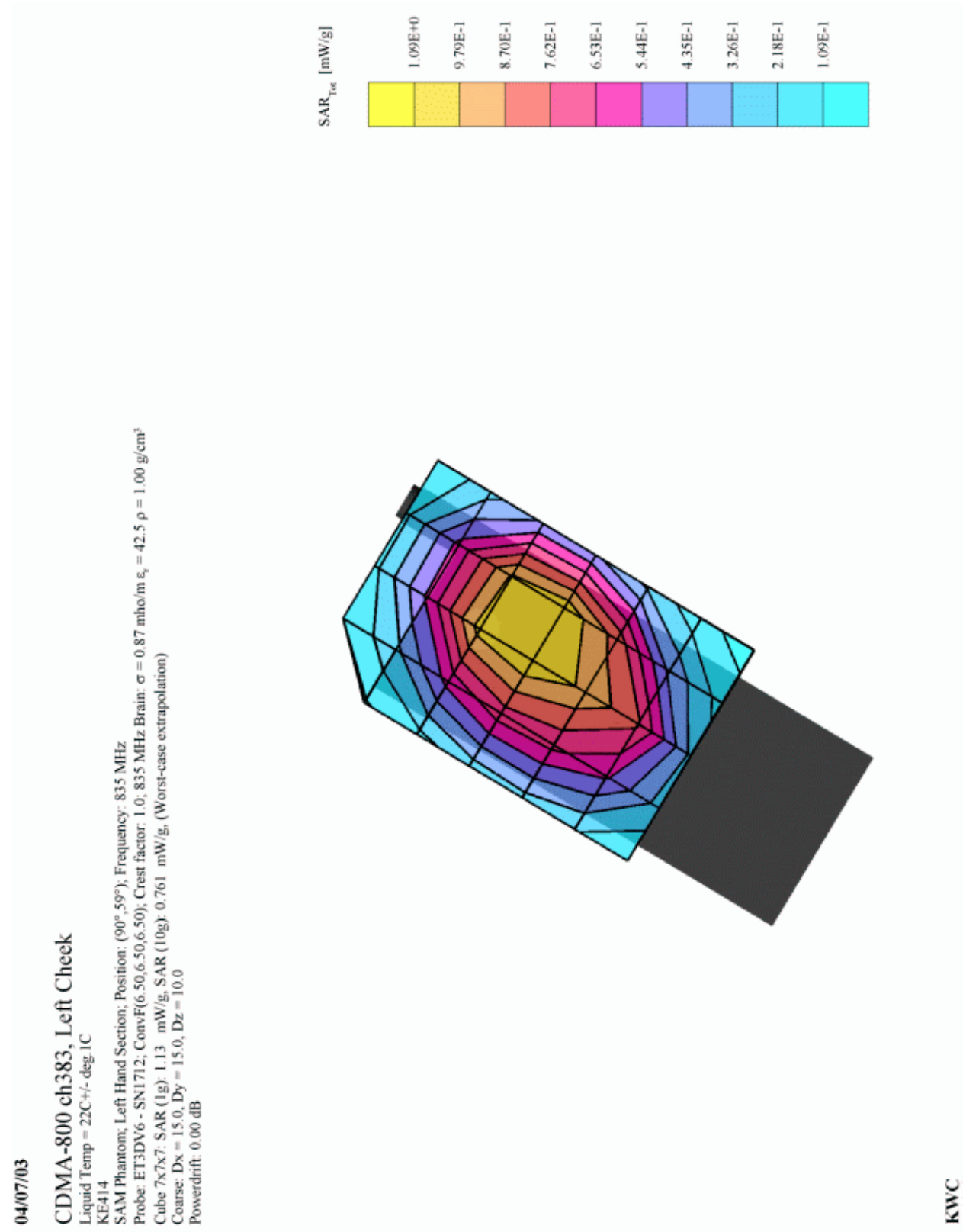
04/07/03

AMPS ch383, Left Cheek with Backpack Clip

Liquid Temp = 22C +/- deg.1C
 KE414
 SAMI Phantom, Left Hand Section; Position: (90°, 59°); Frequency: 835 MHz
 Probe: ET3DV6 - SN1712; ConvF(6.50,6.50,6.50); Crest factor: 1.0; 835 MHz Brain: $\sigma = 0.87$ mho/m $\epsilon_r = 42.5$ $\rho = 1.00$ g/cm³
 Cube 7x7x7: SAR (1g): 1.12 mW/g, SAR (10g): 0.747 mW/g, SAR (10g): 0.747 mW/g, (Worst-case extrapolation)
 Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
 Powerdrift: 0.09 dB



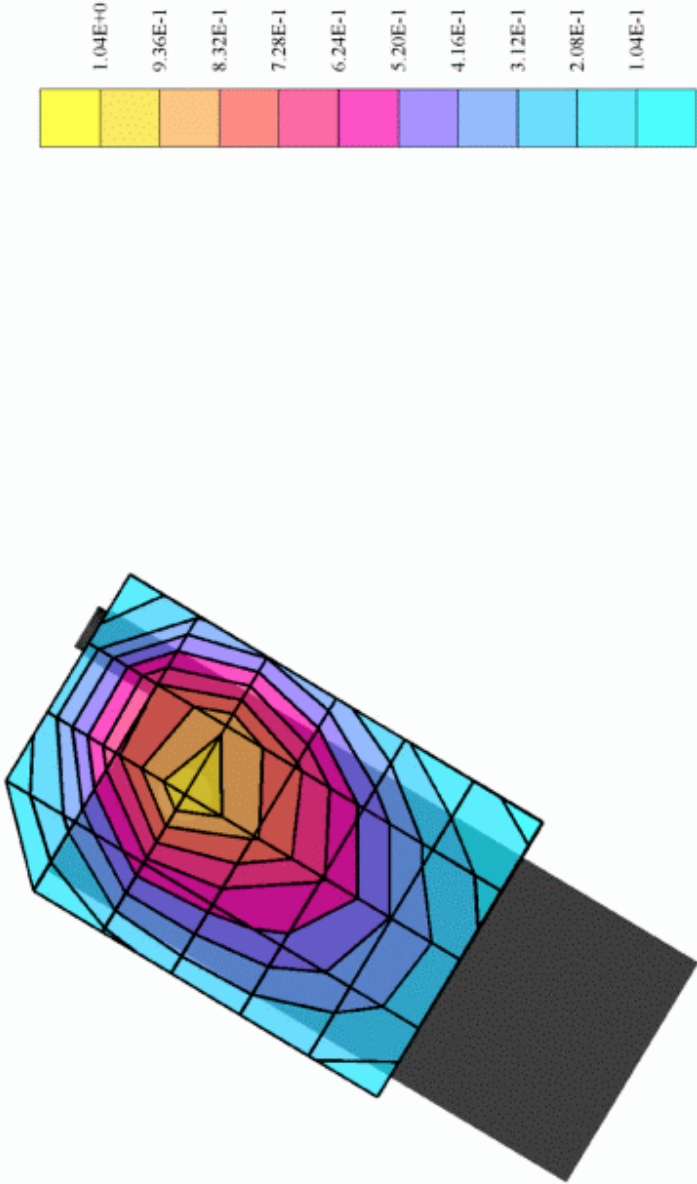
KWC



04/07/03

CDMA-800 ch383, Left Tilt

Liquid Temp = 22C +/- deg.1C
KE414
SAM Phantom; Left Hand Section; Position: (90°,59°); Frequency: 835 MHz
Probe: ET3DV6 - SN1712; ConvF(6.50,6.50,6.50); Crest factor: 1.0; 835 MHz Brain: $\sigma = 0.87$ mho/m $\epsilon_r = 42.5$ $\rho = 1.00$ g/cm³
Cube 7x7x7: SAR (1g): 0.999 mW/g; SAR (10g): 0.645 mW/g. (Worst-case extrapolation)
Course: Dx = 15.0, Dy = 15.0, Dz = 10.0
Powerdrift: 0.06 dB



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04/07/03

CDMA-800 ch383, Right Cheek

KE414

Liquid Temp = 22C +/- deg.1C

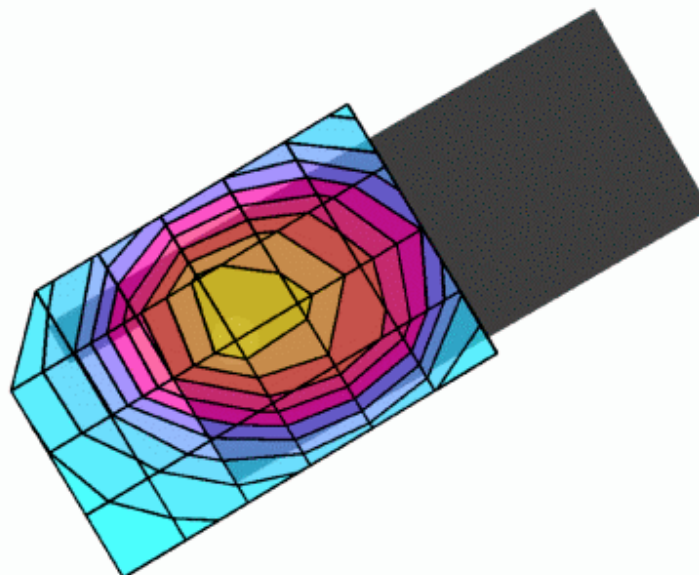
SAM Phantom; Right Hand Section; Position: (90°, 300°); Frequency: 835 MHz

Probe: ETHDV6 - SN1712; ConvF(6.50,6.50,6.50); Crest factor: 1.0; 835 MHz Brain: $\sigma = 0.87$ mho/m $\epsilon_r = 42.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7; SAR (1g): 0.996 mW/g; SAR (10g): 0.698 mW/g. (Worst-case extrapolation)

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

Powerdrift: 0.04 dB



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04/07/03

CDMA-800 ch383, Right Tilt

Liquid Temp = 22C +/- deg.1C

KE414

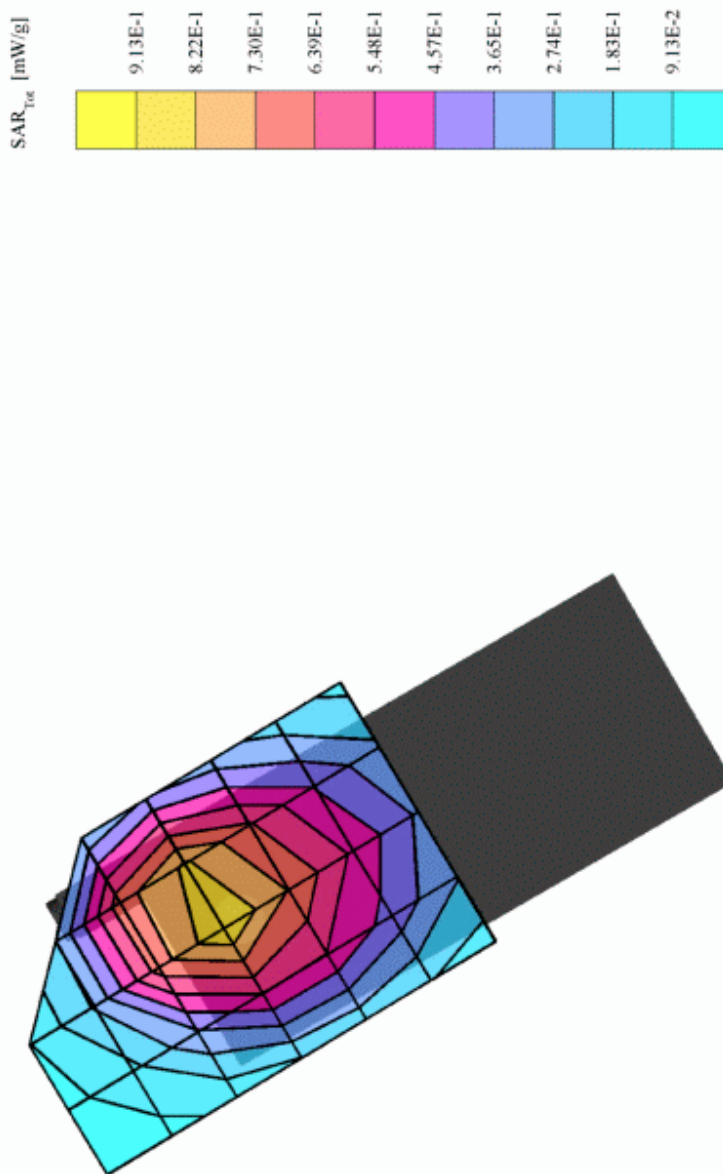
SAM Phantom, Right Hand Section; Position: (90°, 300°); Frequency: 835 MHz

Probe: ET3DV6 - SN1712; ConvF(6.50,6.50,6.50); Crest factor: 1.0; 835 MHz Brain: $\sigma = 0.87$ mho/m $\epsilon_r = 42.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.907 mW/g; SAR (10g): 0.594 mW/g; (Worst-case extrapolation)

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

Powerdrift: -0.05 dB

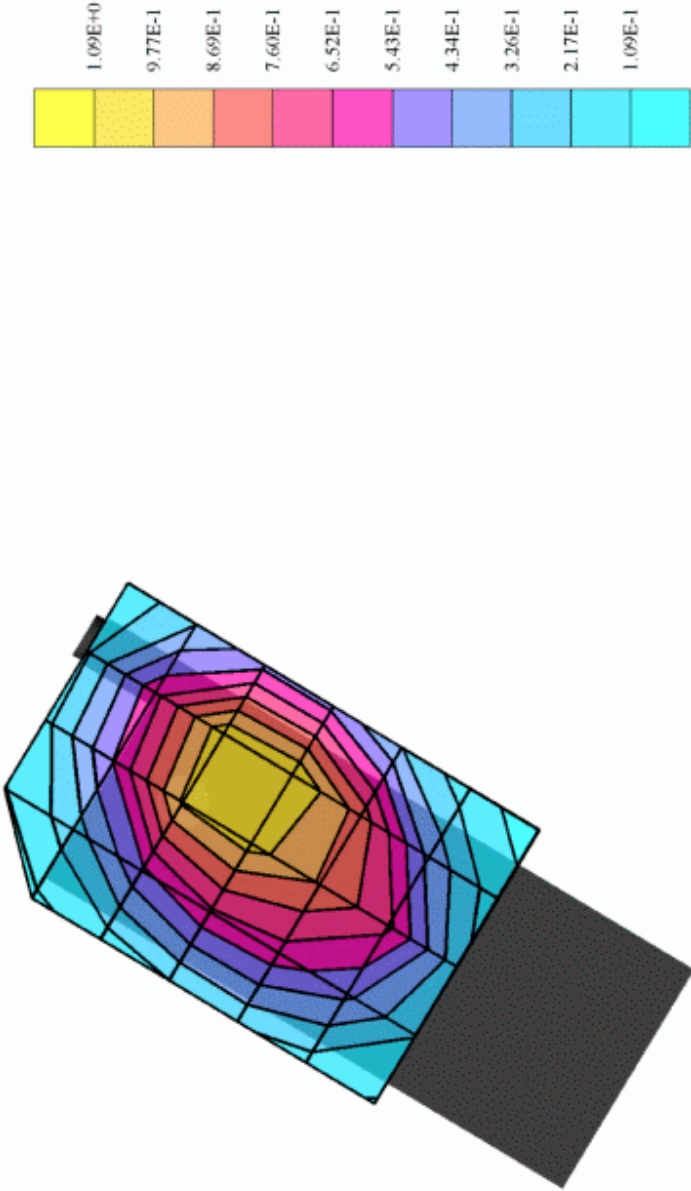


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04/07/03

CDMA-800 ch383, Left Cheek with Backpack Clip

KE414
Liquid Temp = 22C +/- deg.1C
SAM Phantom; Left Hand Section; Position: (90°, 59°); Frequency: 83.5 MHz
Probe: ET3DV6 - SN1712; ConvF(6.50,6.50,6.50); Crest factor: 1.0; 835 MHz Brain: $\sigma = 0.87$ mho/m $\epsilon_r = 42.5$ $\rho = 1.00$ g/cm³
Cube 7x7x7: SAR (1g): 1.12 mW/g, SAR (10g): 0.749 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Powerdrift: -0.06 dB

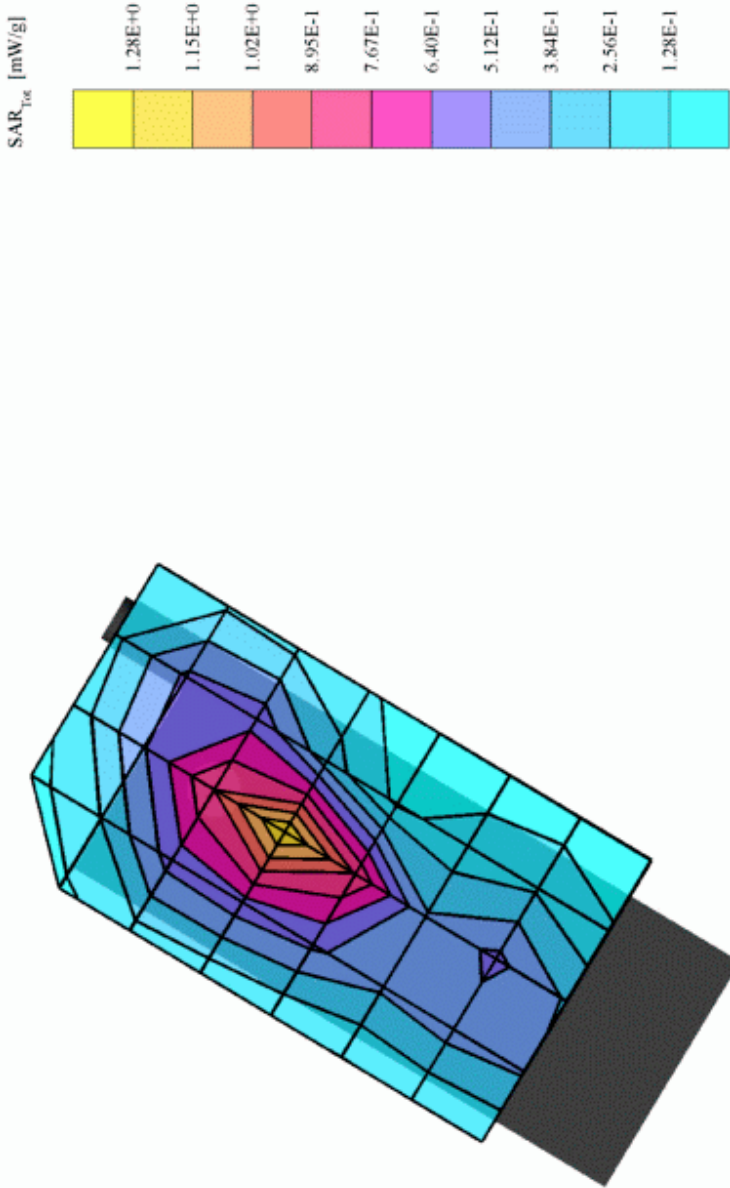


KWC

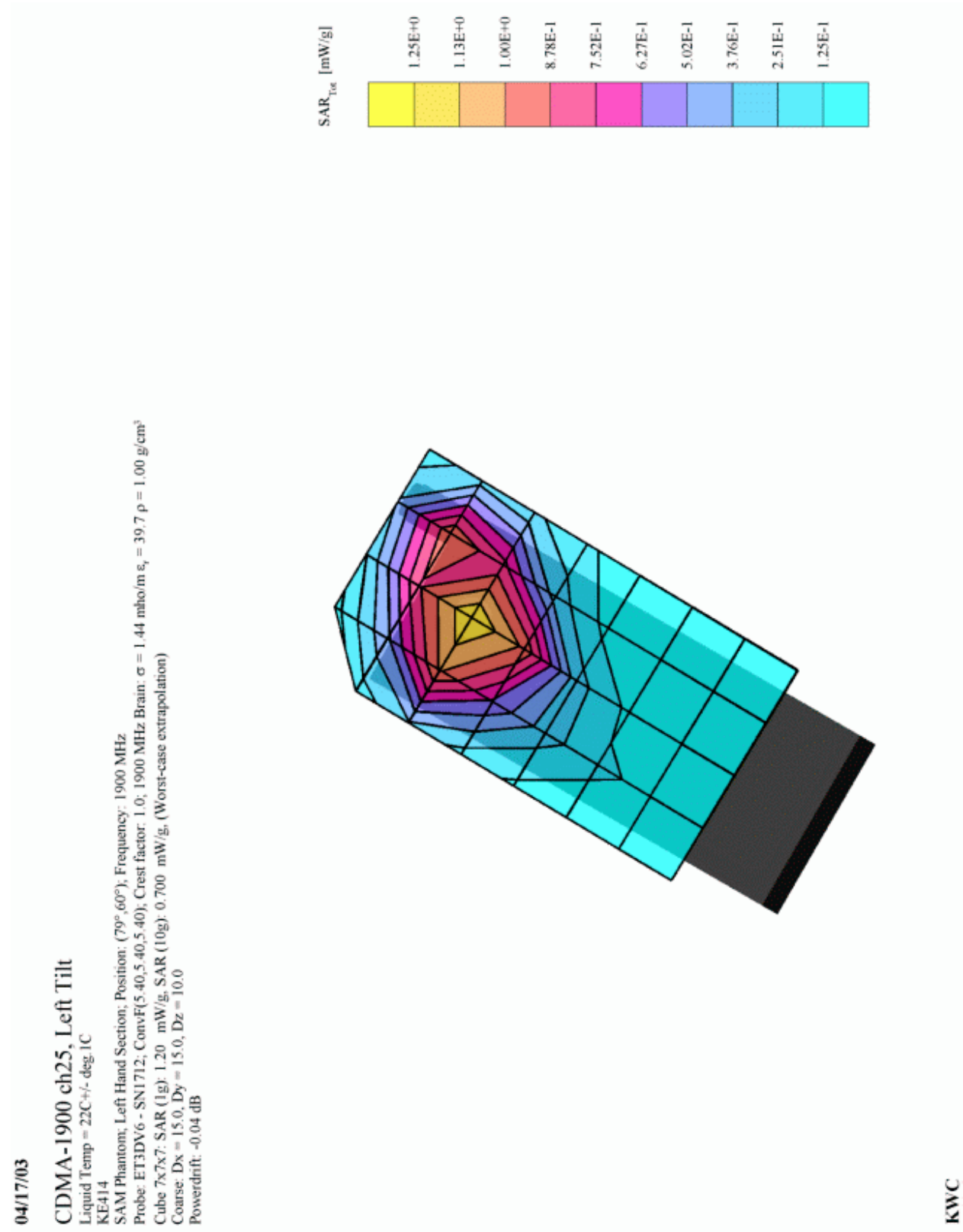
04/17/03

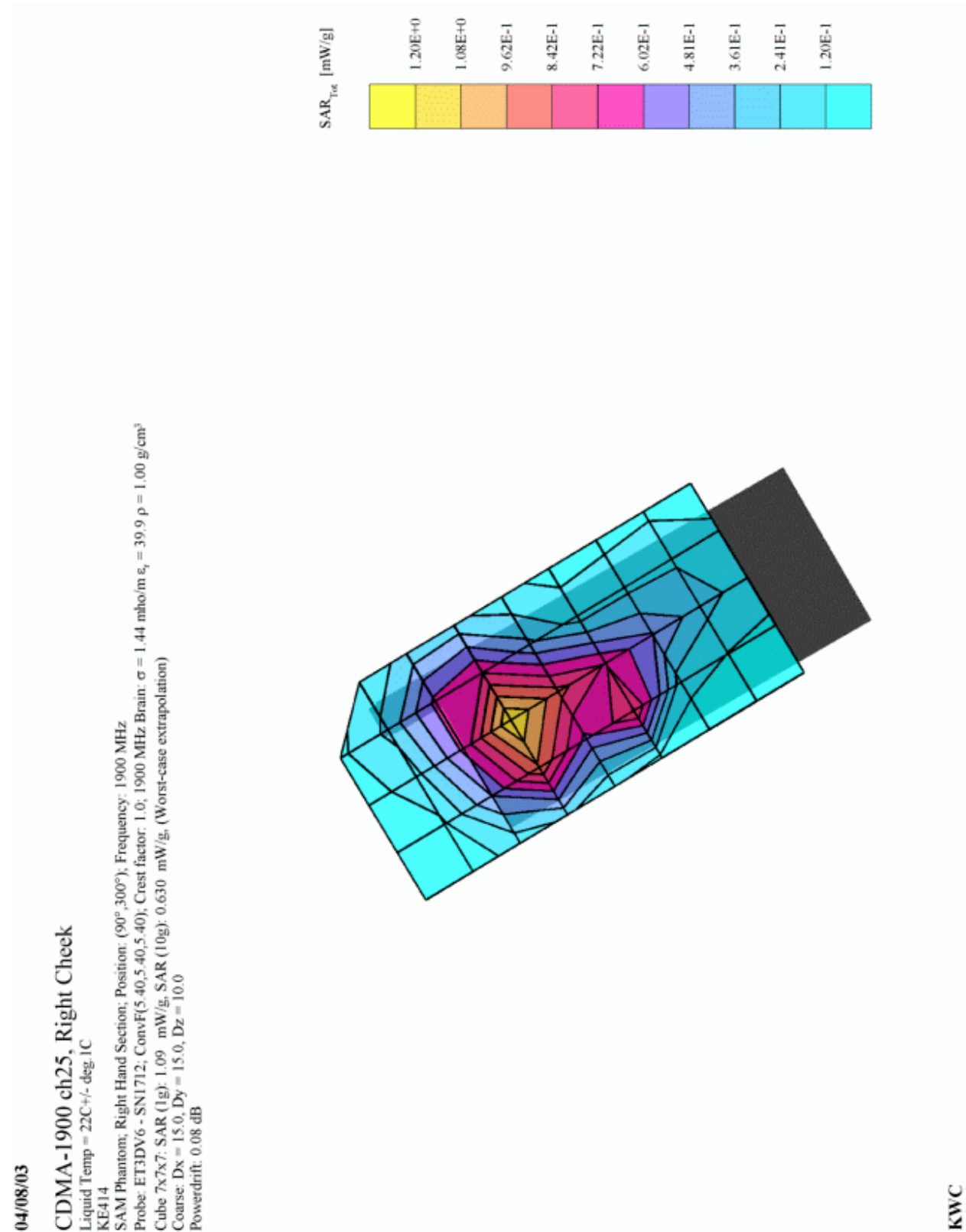
CDMA-1900 ch1175, Left Cheek

Liquid Temp = 22C +/- deg. 1C
SAM Phantom; Left Hand Section; Position: (90°, 59°); Frequency: 1900 MHz
Probe: ET3DV6 - SN1712; ConvF(5.40, 5.40); Crest factor: 1.0; 1900 MHz Brain: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³
Cube 7x7x7: SAR (1g): 1.17 mW/g; SAR (10g): 0.617 mW/g; (Worst-case extrapolation)
Course: Dx = 15.0, Dy = 15.0, Dz = 10.0
Powerdnt: -0.14 dB



KWC

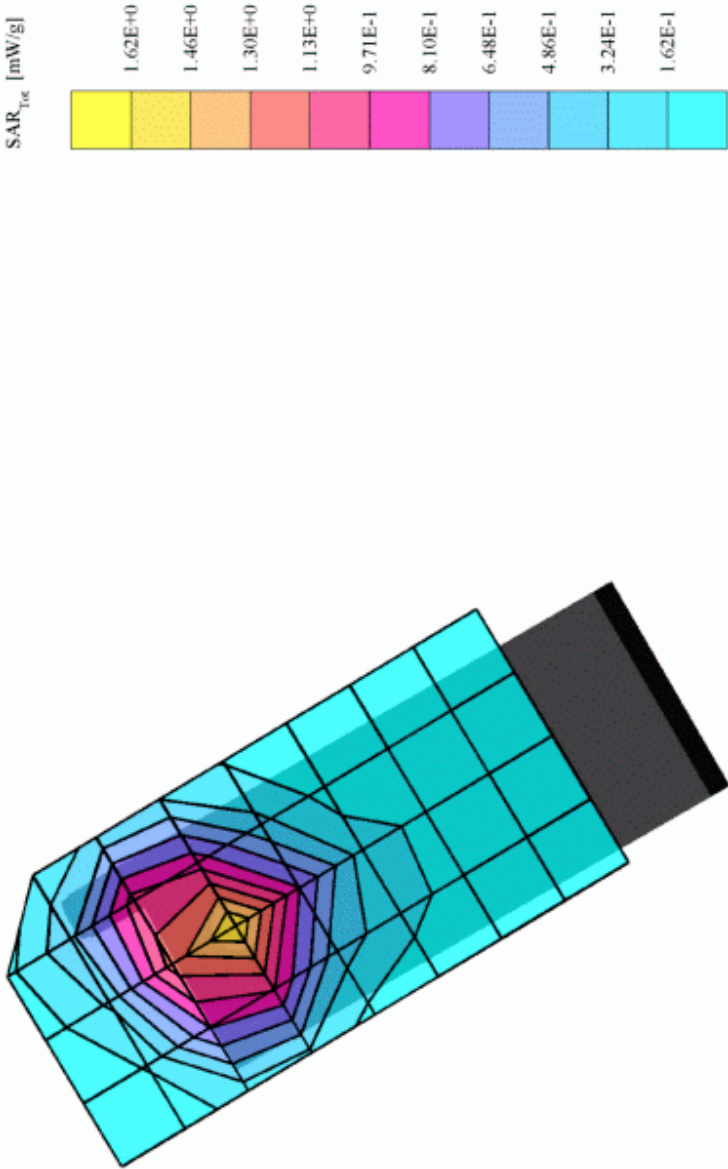




04/08/03

CDMA-1900 ch25, Right Tilt

Liquid Temp = 22C +/- deg.1C
KE414
SAMI Phantom, Right Hand Section, Position: (79°,300°), Frequency: 1900 MHz
Probe: ET3DV6 - SN1712, ConvF(5.40,5.40,5.40); Crest factor: 1.0; 1900 MHz Brain: $\sigma = 1.44 \text{ mho/m}$, $\epsilon_r = 39.9$, $\rho = 1.00 \text{ g/cm}^3$
Cube 7x7x7: SAR (1g): 1.46 mW/g, SAR (10g): 0.836 mW/g, (Worst-case extrapolation)
Course: Dx = 15.0, Dy = 15.0, Dz = 10.0
Powerdrift: -0.03 dB

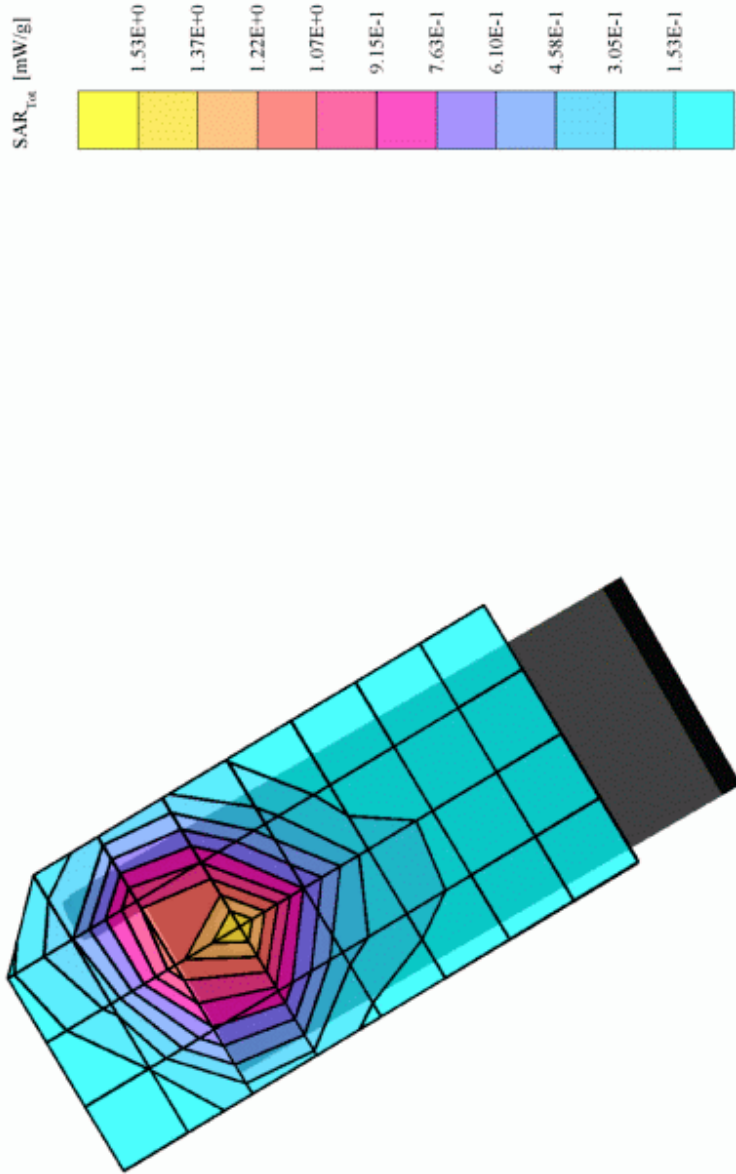


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04/08/03

CDMA-1900 ch25, Right Tilt with Belt Clip and Backpack Clip

Liquid Temp = 22C +/- deg.1C
KE414
SAM Phantom, Right Hand Section, Position: (79°,300°); Frequency: 1900 MHz
Probe: ET3DV6 - SN1712; ConvF(5.40,5.40,5.40); Crest factor: 1.0; 1900 MHz Brain: $\sigma = 1.44$ mho/m $\epsilon_r = 39.9$ $\rho = 1.00$ g/cm³
Cube 7x7x7: SAR (1g): 1.39 mW/g, SAR (10g): 0.798 mW/g, SAR (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Powerdrift: -0.11 dB



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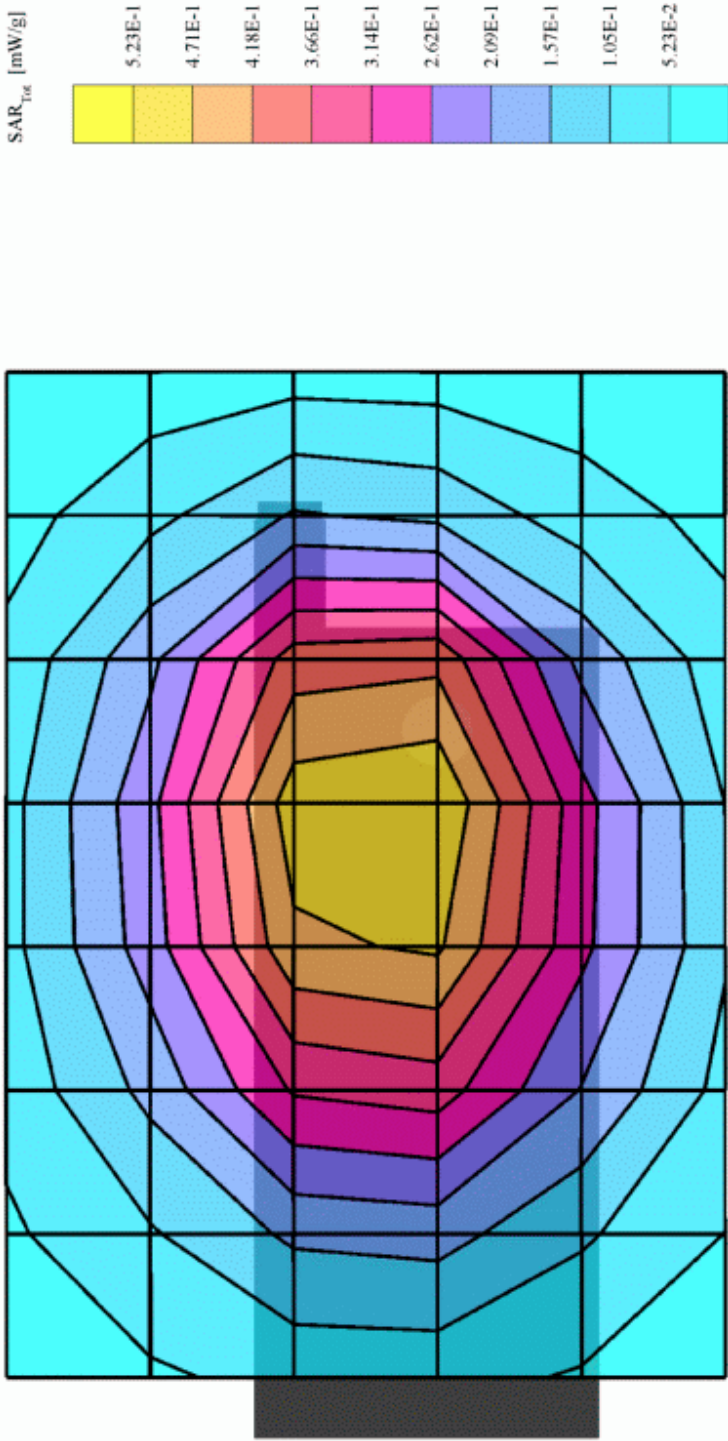
Section 2

SAR Distribution plots for Body Worn Configuration

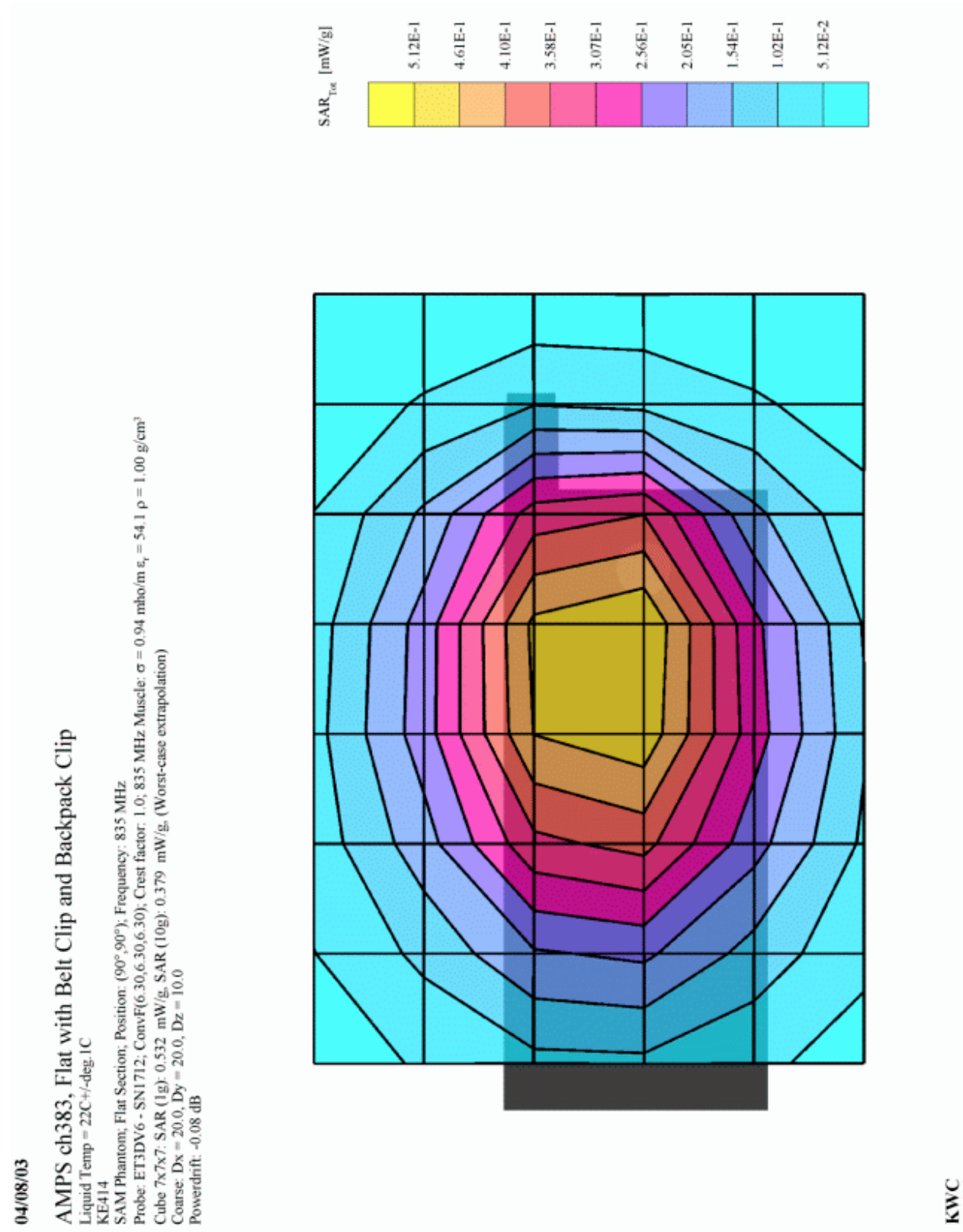
04/08/03

AMPS ch383, Flat with Belt Clip

Liquid Temp = 22C +/- deg. 1C
SAM Phantom; Flat Section; Position: (90°, 90°); Frequency: 835 MHz
Probe: ET3DV6 - SN1712; ConvF(6.30,6.30,6.30); Crest factor: 1.0; 835 MHz Muscle: $\sigma = 0.94$ mho/m $\epsilon_r = 54.1$ $\rho = 1.00$ g/cm³
Cube 7x7x7: SAR (1g): 0.543 mW/g; SAR (10g): 0.387 mW/g. (Worst-case extrapolation)
Course: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: 0.06 dB



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04/08/03

AMPS ch383, Flat with Belt Clip and Backpack Clip

Liquid Temp = 22C +/- deg. 1C

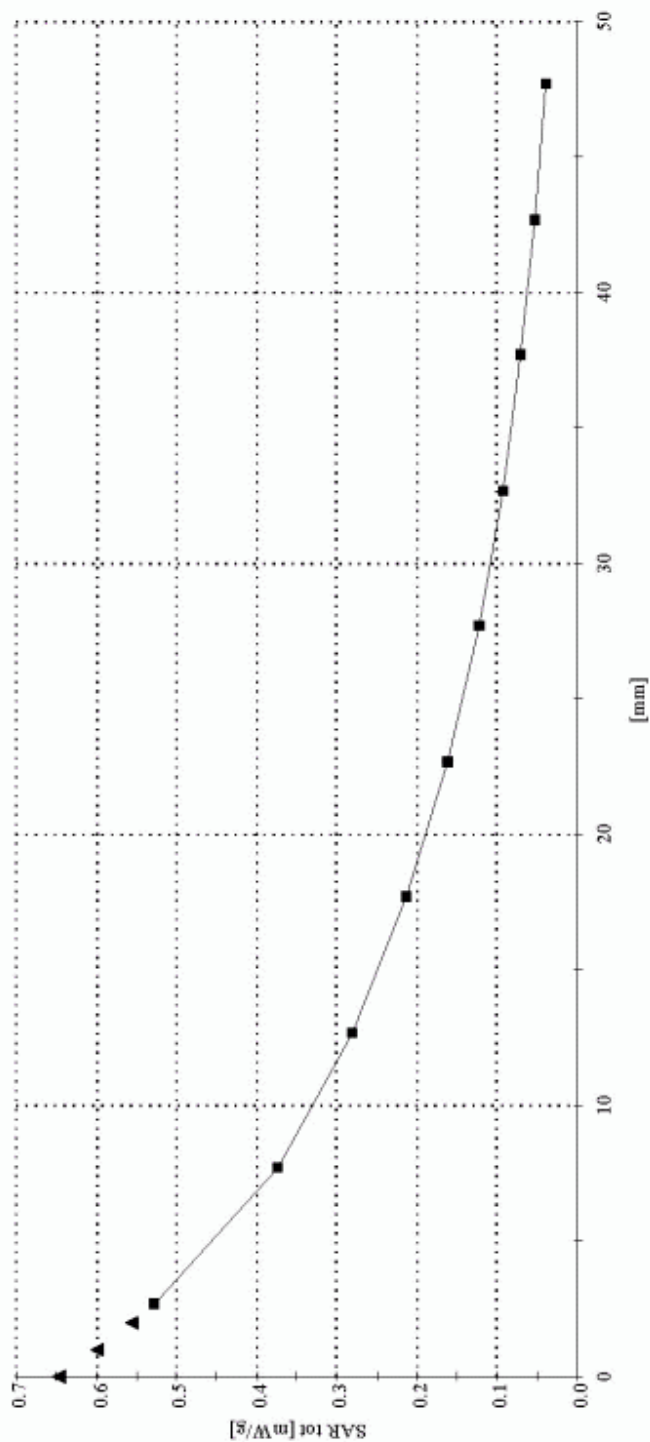
KE414

SAM Phantom; Section; Position: ; Frequency: 835 MHz

Probe: ET3DV6 - SN1712; ConvF(6.30,6.30,6.30); Crest factor: 1.0; 835 MHz Muscle: $\sigma = 0.94$ mho/m $\epsilon_r = 54.1$ $\rho = 1.00$ g/cm³

: 0

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0

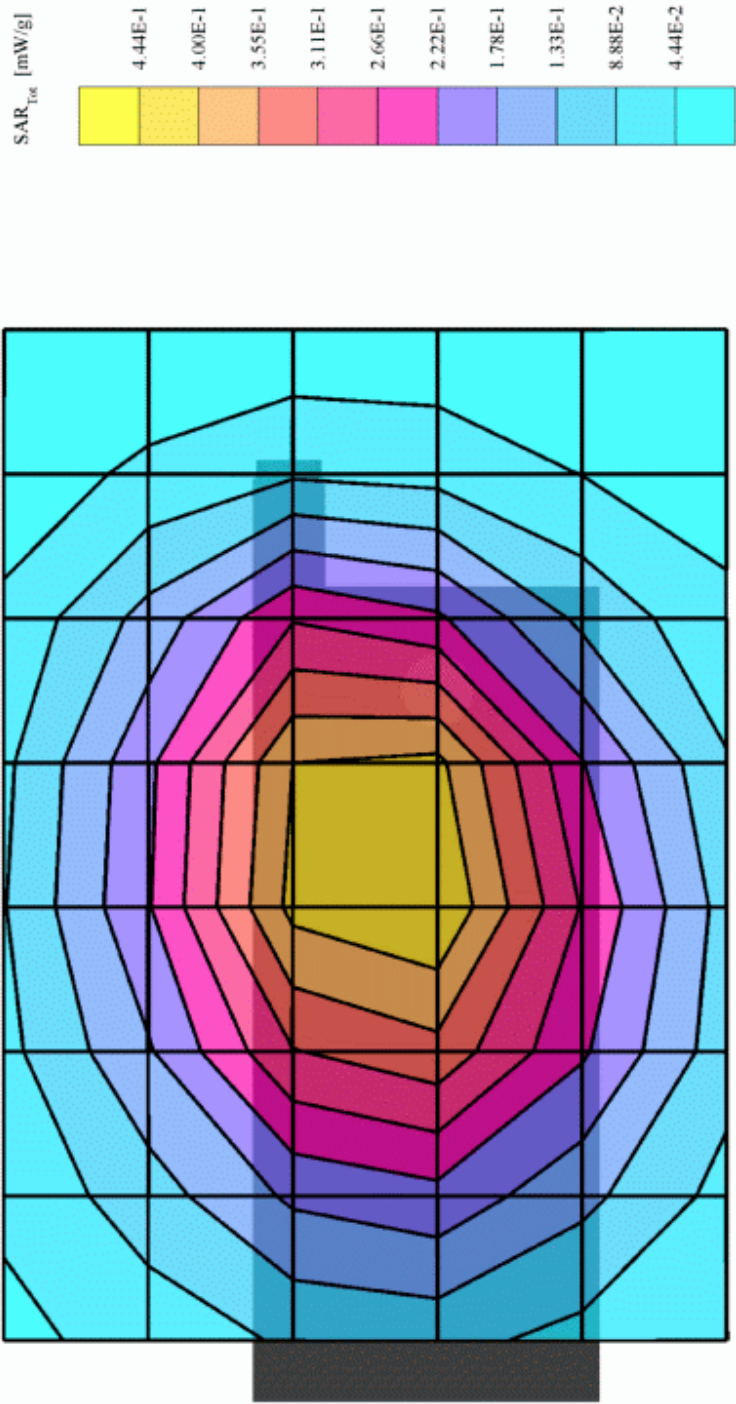


KWC

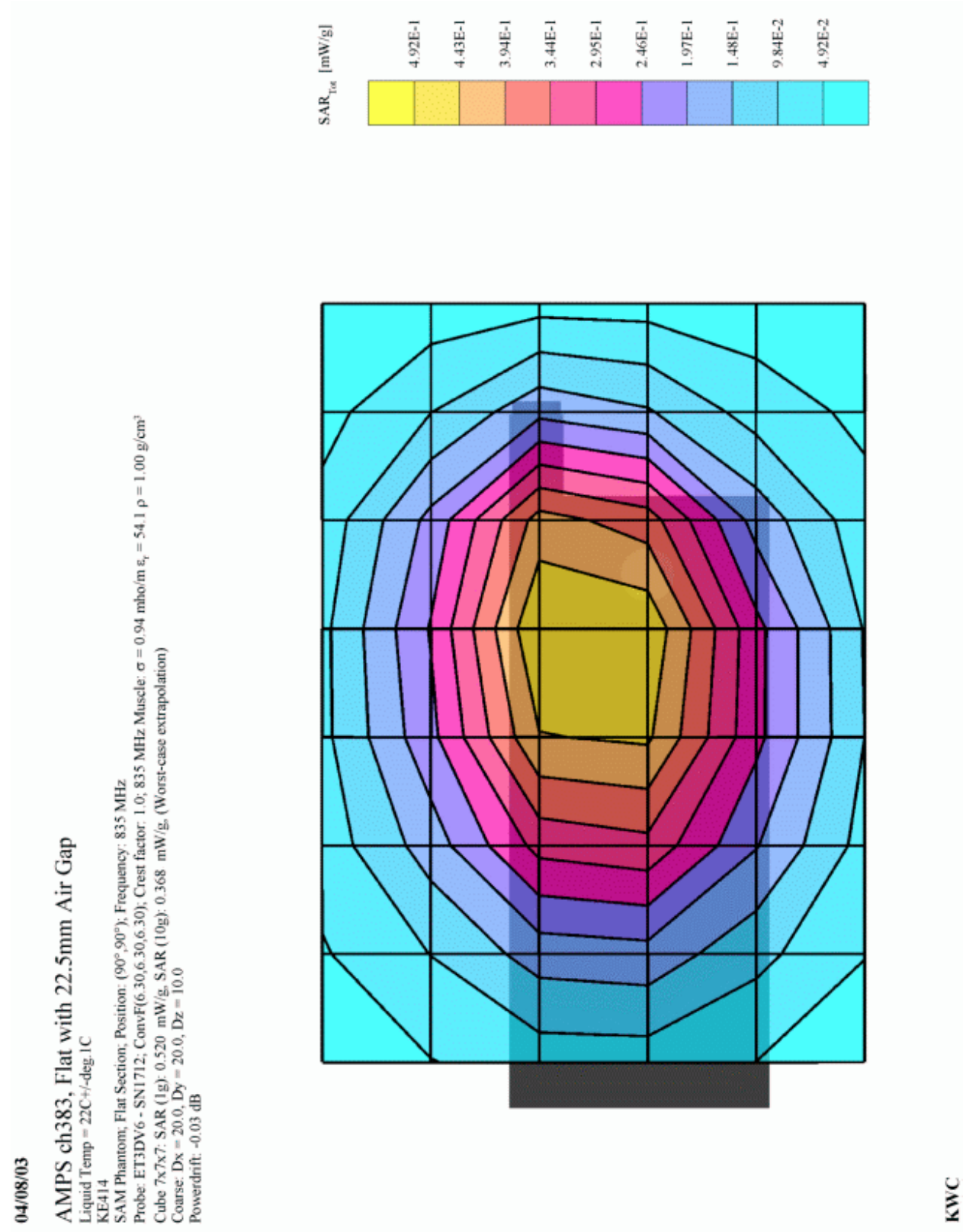
04/08/03

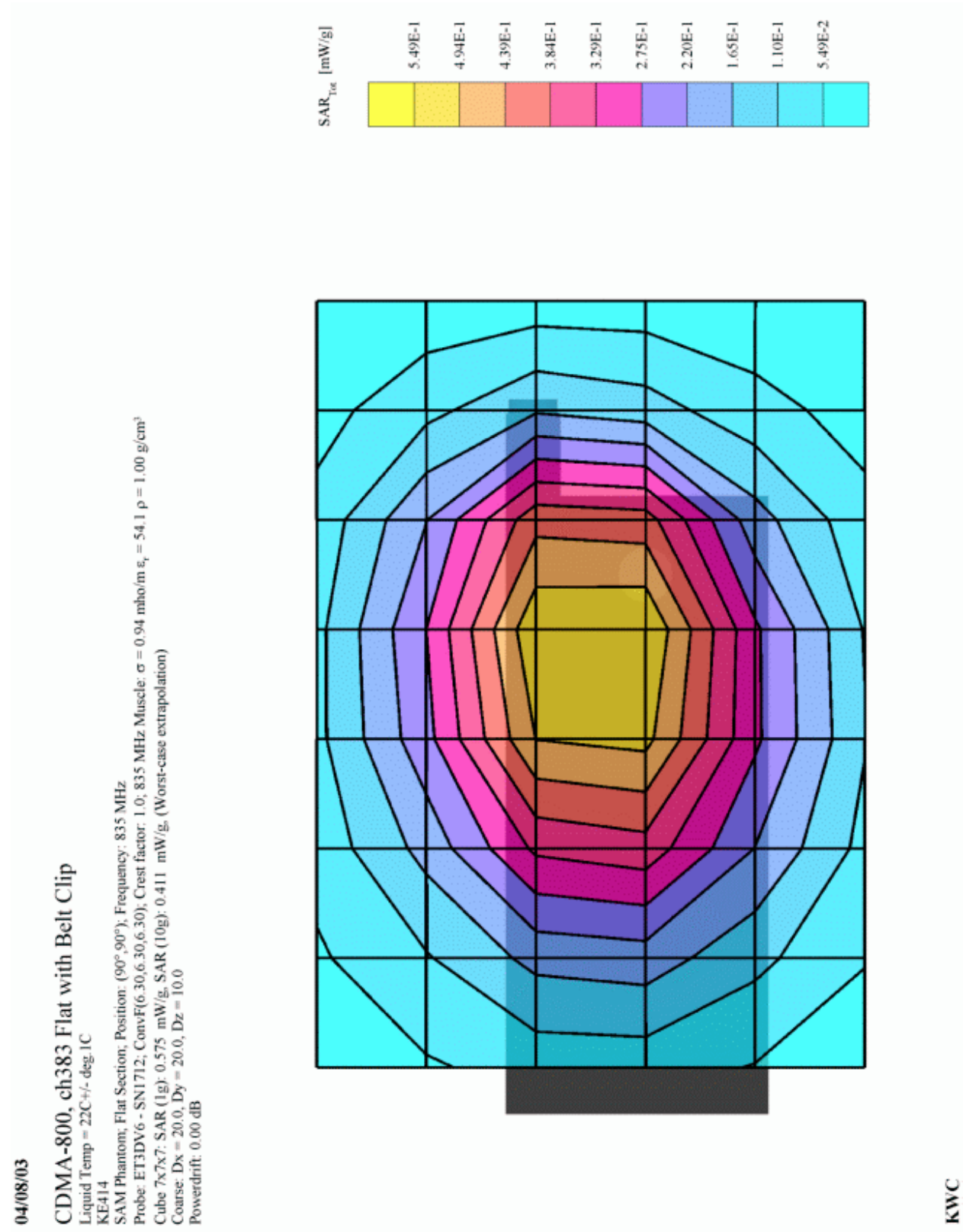
AMPS ch383, Flat with Leather Case

Liquid Temp = 22C +/- deg. 1C
KE414
SAM Phantom; Flat Section; Position: (90°, 90°); Frequency: 835 MHz
Probe: ET3DV6 - SN1712; ConvF(6.30,6.30,6.30); Crest factor: 1.0; 835 MHz Muscle: $\sigma = 0.94$ nrho/m $\epsilon_r = 54.1$ $\rho = 1.00$ g/cm³
Cube 7x7x7: SAR (1g): 0.448 mW/g; SAR (10g): 0.321 mW/g; (Worst-case extrapolation)
Course: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.04 dB



KWC

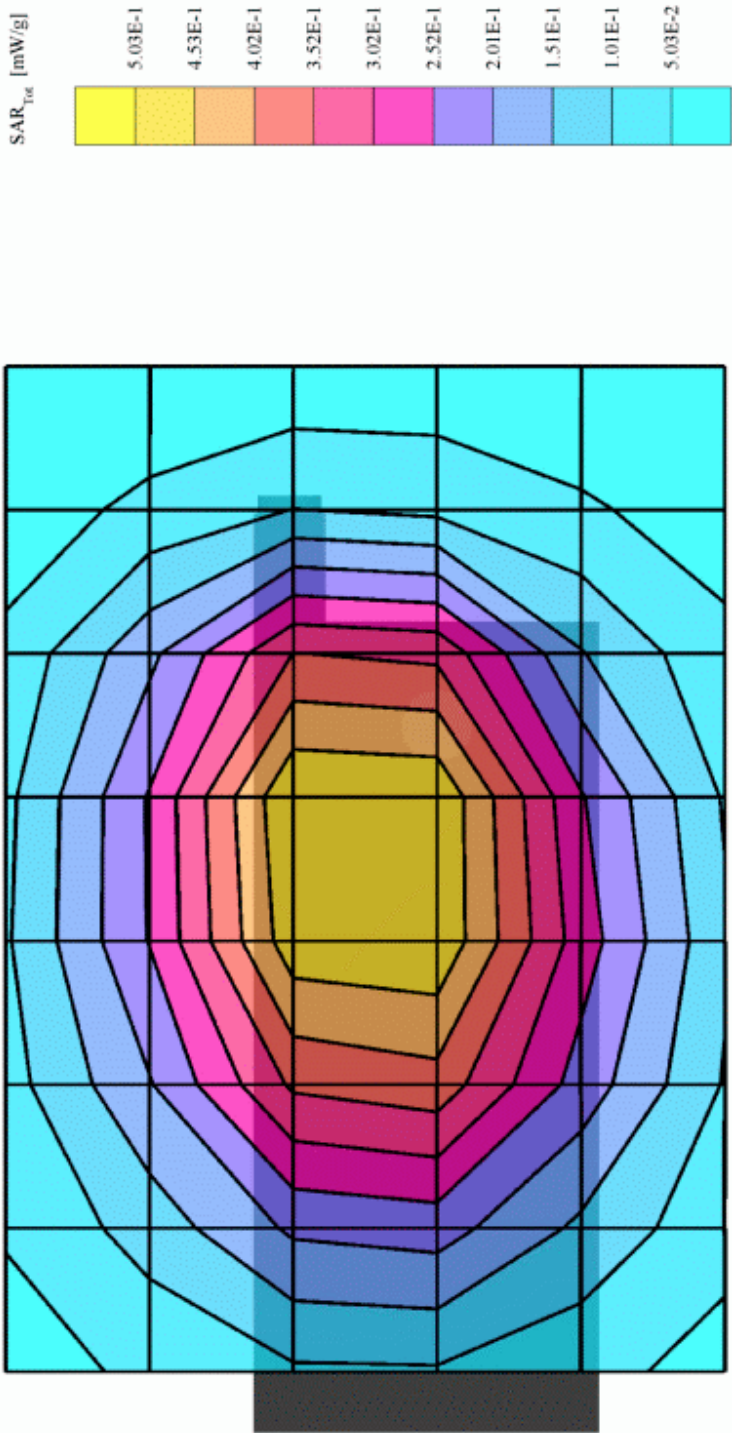




04/08/03

CDMA-800, ch383 Flat with Belt Clip and Backpack Clip

Liquid Temp = 22C +/- deg.1C
KE414
SAM Phantom; Flat Section; Position: (90°, 90°); Frequency: 835 MHz
Probe: ET3DV6 - SN1712; ConvF(6.30,6.30,6.30); Crest factor: 1.0; 835 MHz Muscle: $\sigma = 0.94$ mho/m $\epsilon_r = 54.1$ $\rho = 1.00$ g/cm³
Cube 7x7x7: SAR (1g): 0.531 mW/g; SAR (10g): 0.379 mW/g; (Worst-case extrapolation)
Course: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: 0.05 dB

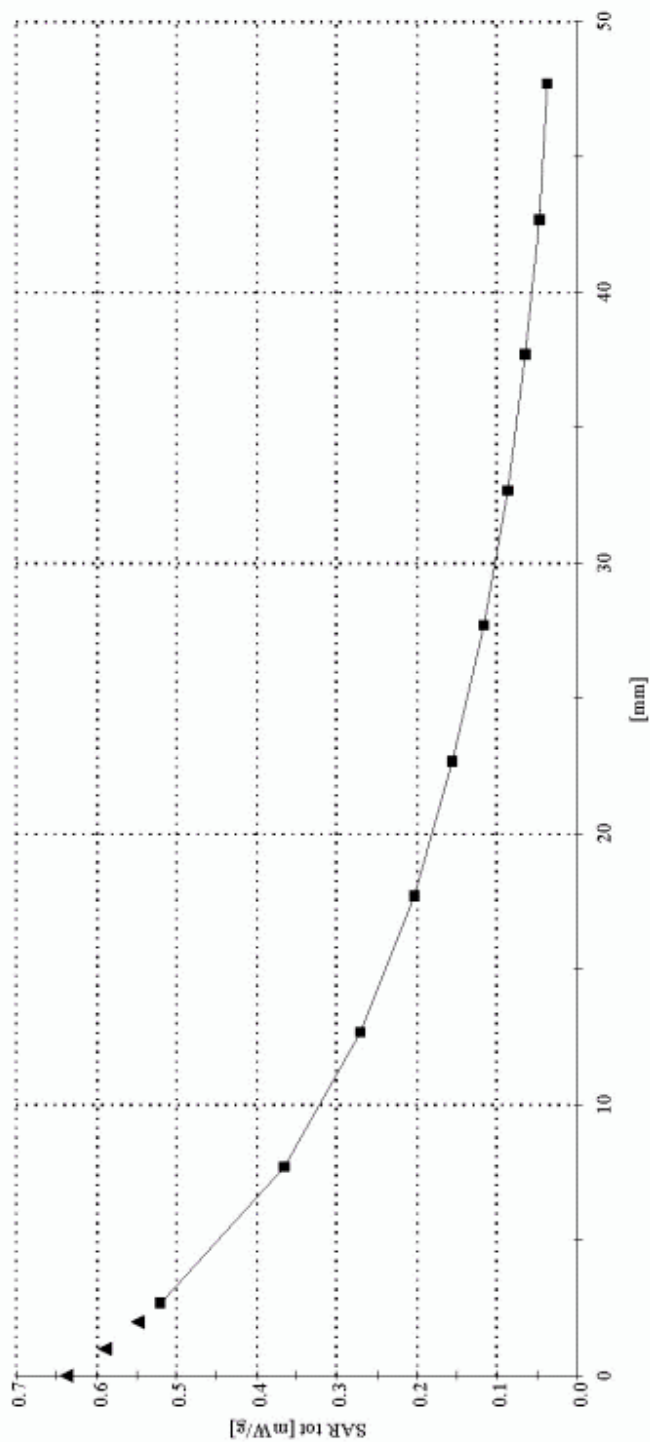


KWC

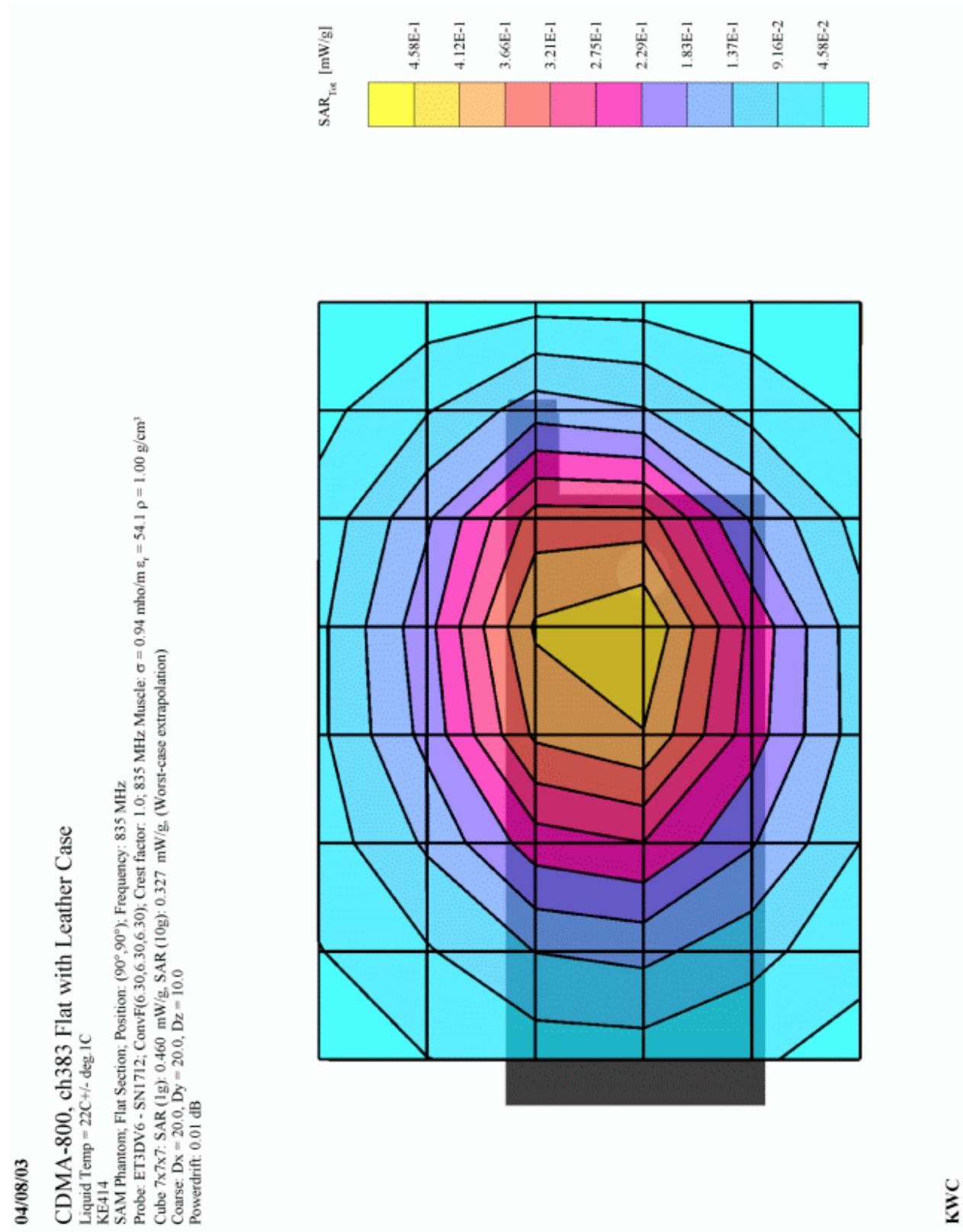
04/08/03

CDMA-800, ch383 Flat with Belt Clip and Backpack Clip

Liquid Temp = 22C +/- deg.1C
 KE414
 SAM Phantom; Section; Position; Frequency: 835 MHz
 Probe: ET3DV6 - SN1712; ConvF(6.30,6.30,6.30); Crest factor: 1.0; 835 MHz Muscle: $\sigma = 0.94$ mho/m $\epsilon_r = 54.1$ $\rho = 1.00$ g/cm³
 : , 0
 Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0



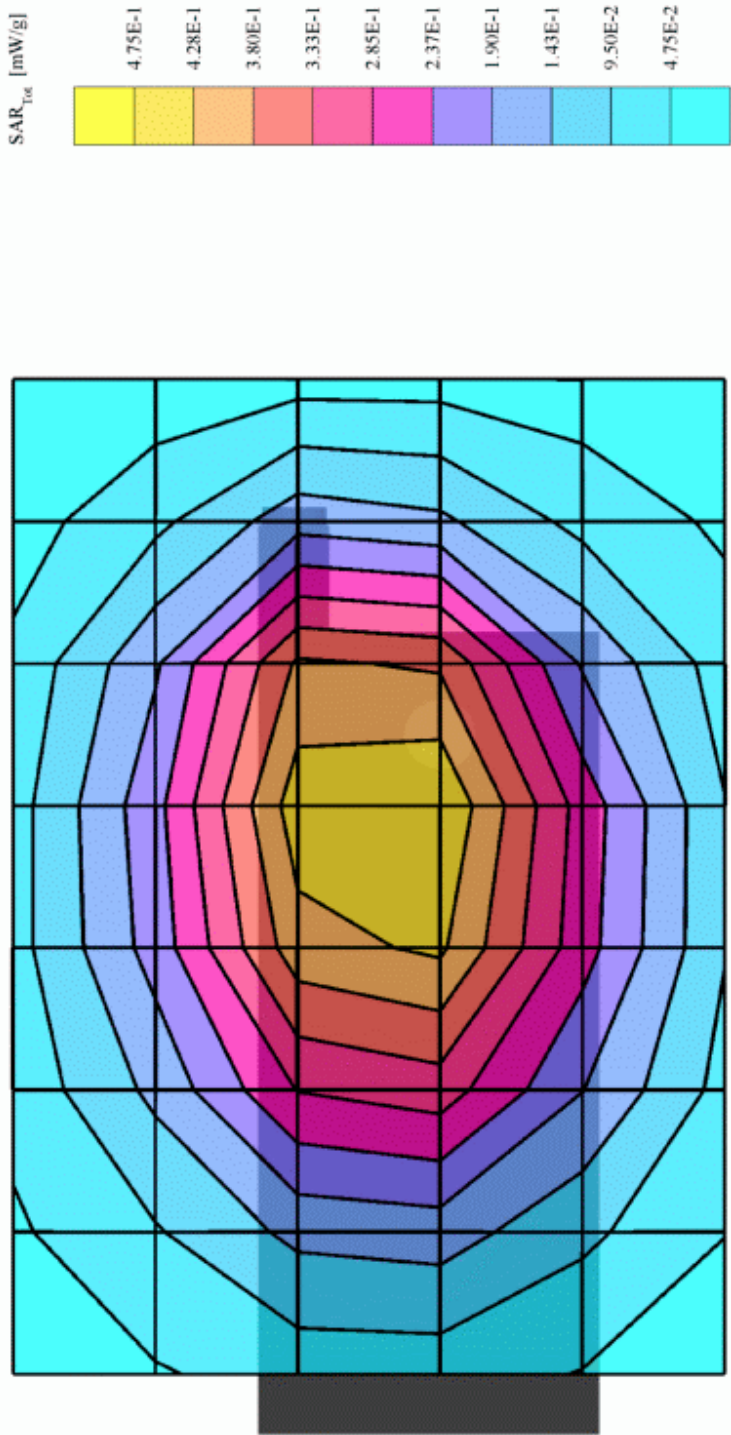
KWC



04/08/03

CDMA-800, ch383 Flat with 22.5mm Air Gap

Liquid Temp = 22C +/- deg. 1C
KE414
SAM Phantom; Flat Section; Position: (90°, 90°); Frequency: 835 MHz
Probe: ET3DV6 - SN1712; ConvF(6.30, 6.30); Crest factor: 1.0; 835 MHz Muscle: $\sigma = 0.94$ nrho/m $\epsilon_r = 54.1$ $\rho = 1.00$ g/cm³
Cube 7x7x7: SAR (1g): 0.524 mW/g; SAR (10g): 0.365 mW/g; (Worst-case extrapolation)
Course: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: 0.10 dB

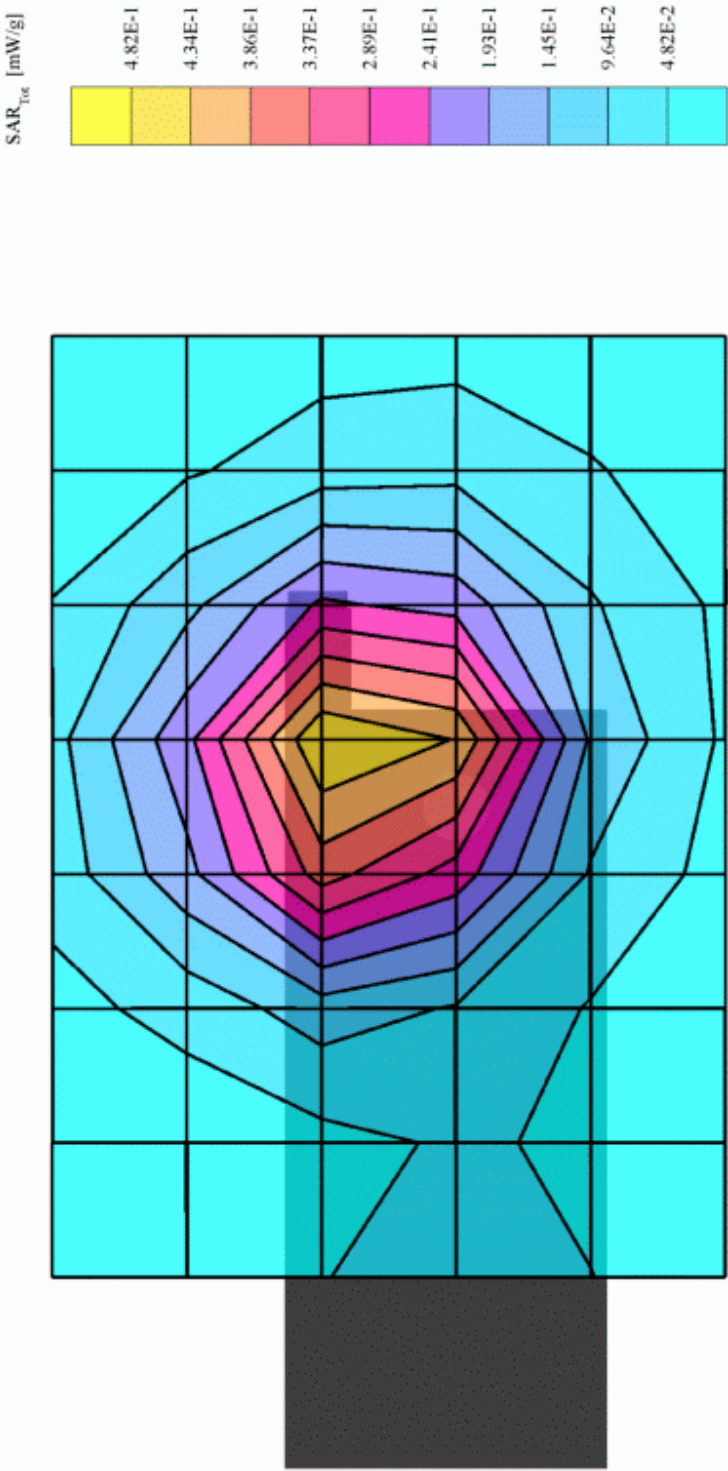


KWC

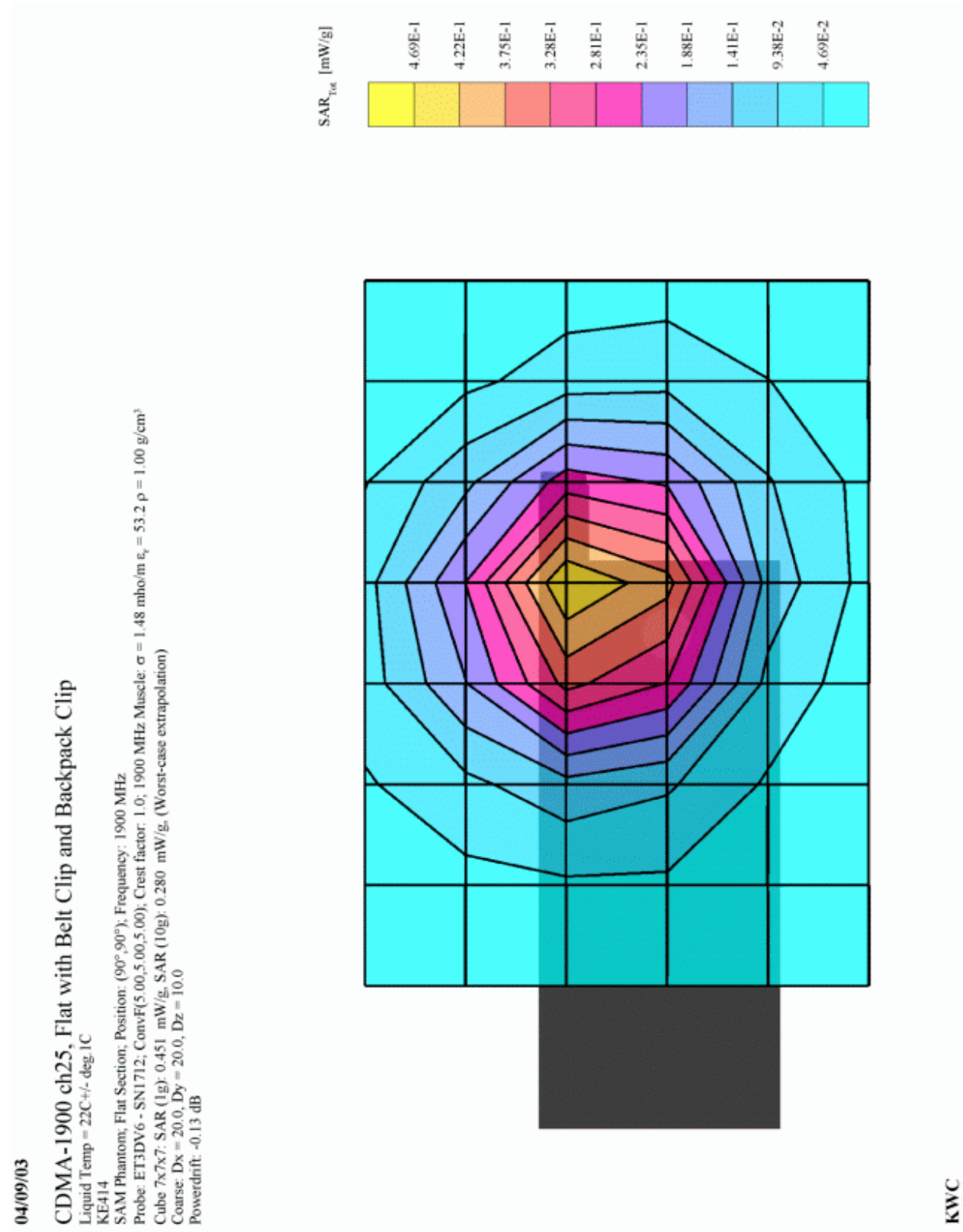
04/09/03

CDMA-1900 ch25, Flat with Belt Clip

KE414
SAM Phantom; Flat Section; Position: (90°, 90°); Frequency: 1900 MHz
Probe: ET3DV6 - SN1712; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1900 MHz Muscle: $\sigma = 1.48$ mho/m $\epsilon_r = 53.2$ $\rho = 1.00$ g/cm³
Cube 7x7x7; SAR (1g): 0.505 mW/g; SAR (10g): 0.307 mW/g; (Worst-case extrapolation)
Course: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: 0.03 dB



KWC



04/09/03

CDMA-1900 ch25, Flat with Belt Clip and Backpack Clip

Liquid Temp = 22C +/- deg.1C

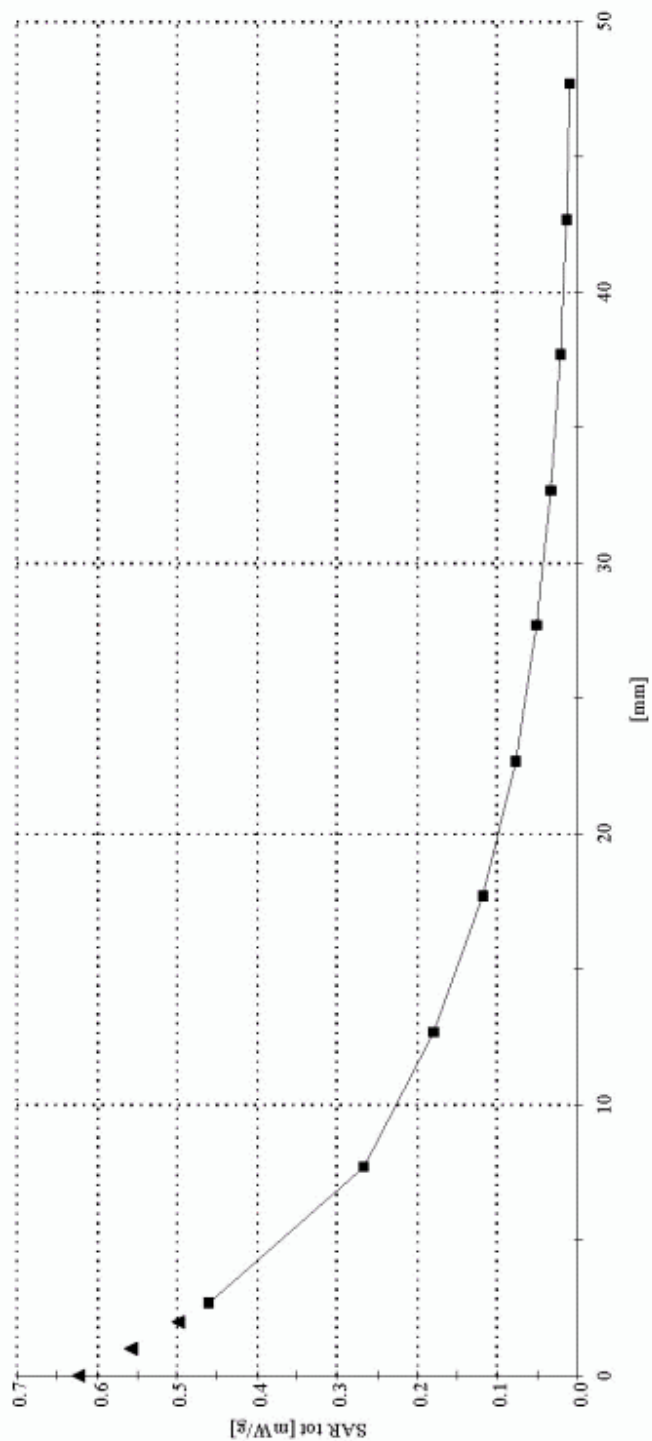
KE414

SAM Phantom; Section; Position; Frequency: 1900 MHz

Probe: ET3DY6 - SN1712; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1900 MHz Muscle: $\sigma = 1.48 \text{ mho/m}$ $\epsilon_r = 53.2$ $\rho = 1.00 \text{ g/cm}^3$

;; 0

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0

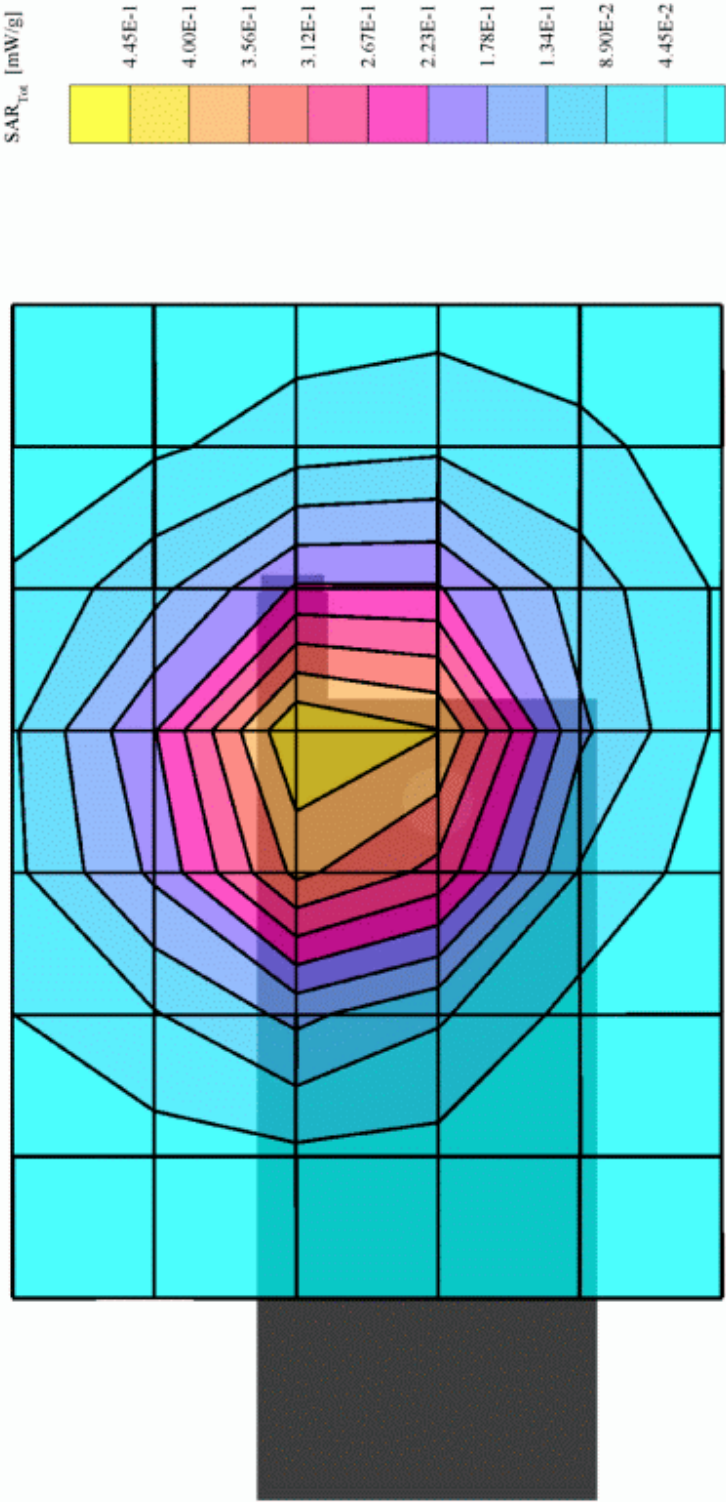


KWC

04/09/03

CDMA-1900 ch25, Flat with Leather Case

Liquid Temp = 22C +/- deg.1C
KE414
SAM Phantom; Flat Section; Position: (90° 90°); Frequency: 1900 MHz
Probe: ET3DV6 - SN1712; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1900 MHz Muscle: $\sigma = 1.48 \text{ mho/m}$, $\epsilon_r = 53.2$, $\rho = 1.00 \text{ g/cm}^3$
Cube 7x7x7: SAR (1g): 0.470 mW/g, SAR (10g): 0.287 mW/g, SAR (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.19 dB

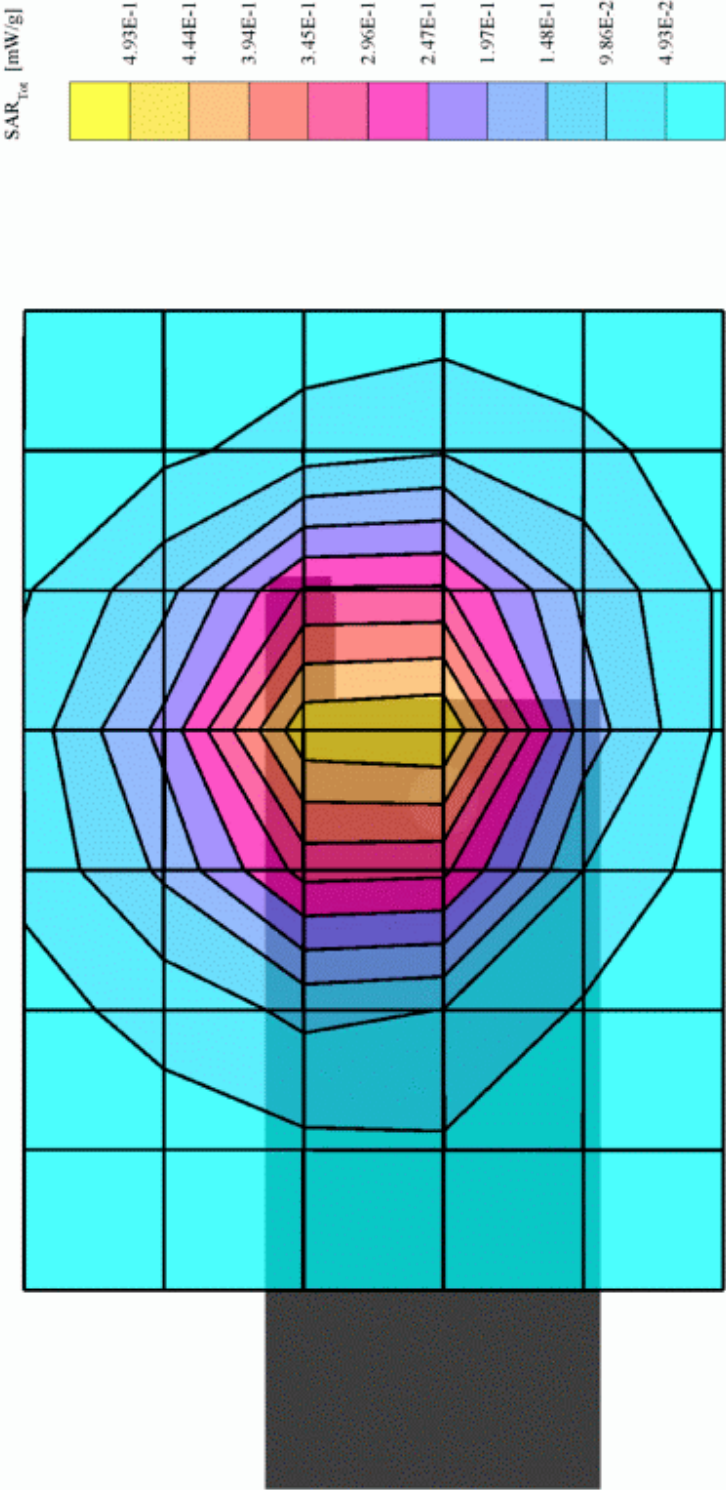


KWC

04/09/03

CDMA-1900 ch25, Flat with 22.5mm Air Gap

Liquid Temp = 22C +/- deg.1C
KE414
SAM Phantom; Flat Section; Position: (90°-90°); Frequency: 1900 MHz
Probe: ET3DV6 - SN1712; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1900 MHz Muscle: $\sigma = 1.48 \text{ mho/m}$, $\epsilon_r = 53.2$, $\rho = 1.00 \text{ g/cm}^3$
Cube 7x7x7: SAR (1g): 0.504 mW/g, SAR (10g): 0.313 mW/g, SAR (10g): 0.313 mW/g (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.08 dB

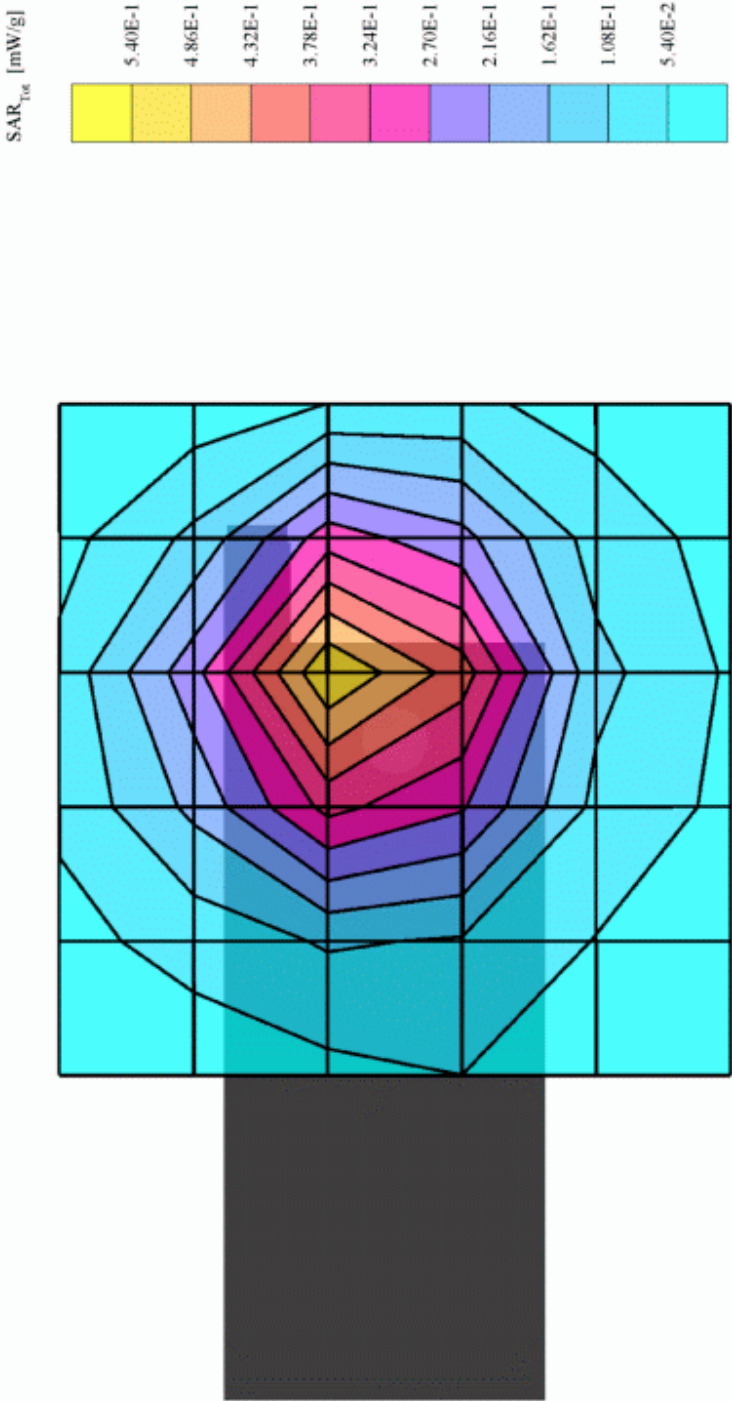


KWC

03/30/03

CDMA-1900, ch25 Flat with 22.5mm Air Gap

Liquid Temp = 22C +/- deg.1C
KE 424C
SAM Phantom; Flat Section; Position: (90° 90°); Frequency: 1900 MHz
Probe: ET3DV6 - SN1712; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1900 MHz Muscle: $\sigma = 1.48 \text{ mho/m}$, $\epsilon_r = 53.5$, $\rho = 1.00 \text{ g/cm}^3$
Cube 7x7x7: SAR (1g): 0.516 mW/g, SAR (10g): 0.316 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.08 dB



KWC

03/30/03

CDMA-1900, ch25 Flat with 22.5mm Air Gap

Liquid Temp = 22C +/- deg.C

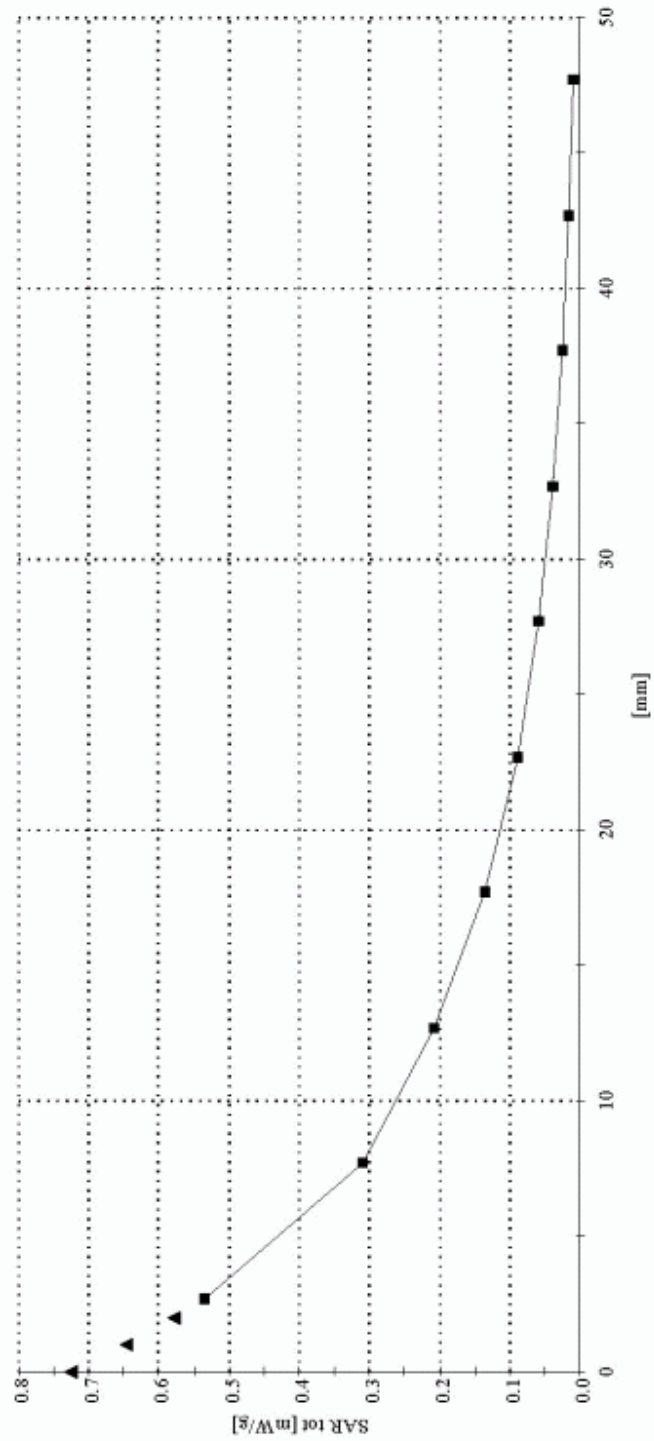
KE 424C

SAM Phantom; Section; Position; Frequency: 1900 MHz

Probe: ET3DY6 - SN1712; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1900 MHz Muscle: $\sigma = 1.48$ mho/m $\epsilon_r = 53.5$ $\rho = 1.00$ g/cm³

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Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0

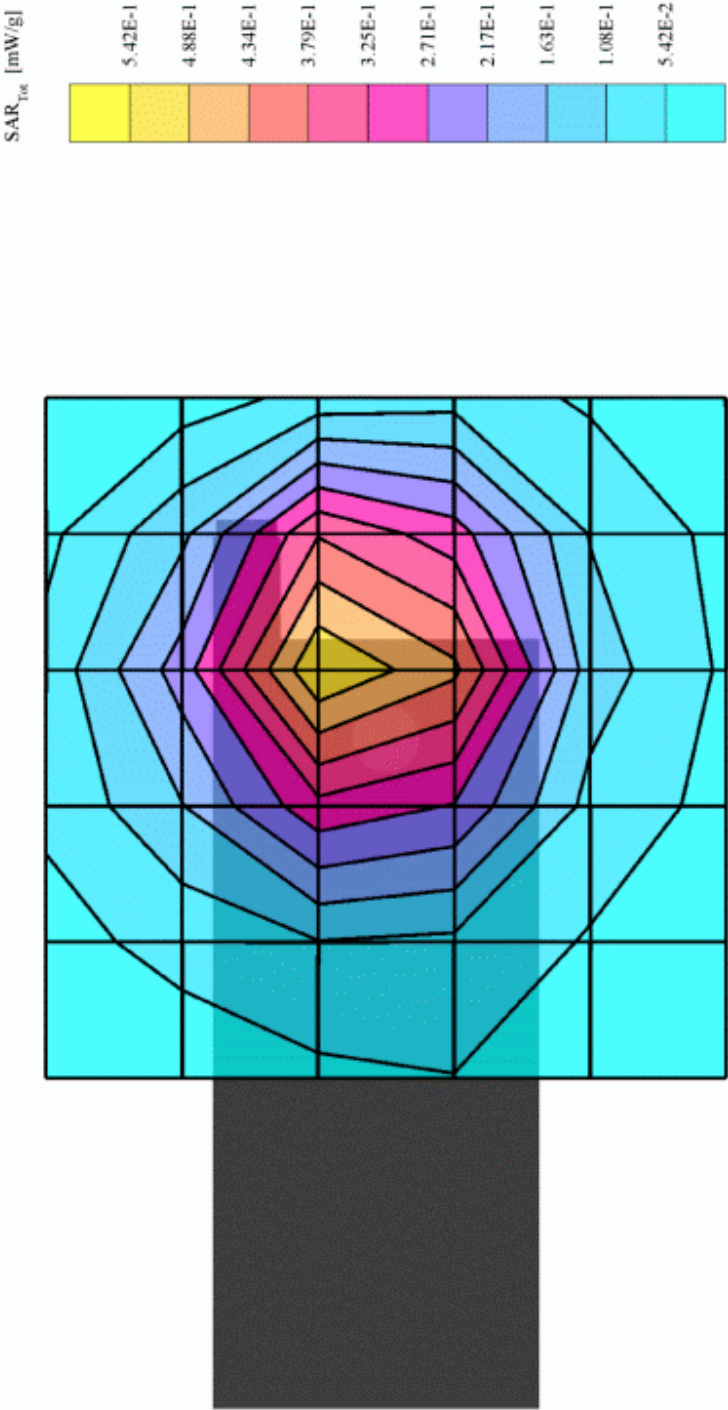


KWC

03/30/03

CDMA-1900, ch25 Flat with 22.5mm Air Gap with Backpack Clip

Liquid Temp = 22C +/- deg.1C
KE 424C
SAM Phantom; Flat Section; Position: (90° 90°); Frequency: 1900 MHz
Probe: ET3DV6 - SN1712; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1900 MHz Muscle: $\sigma = 1.48 \text{ mho/m}$, $\epsilon_r = 53.5$, $\rho = 1.00 \text{ g/cm}^3$
Cube 7x7x7: SAR (1g): 0.524 mW/g, SAR (10g): 0.321 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.26 dB



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