

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: LGE LX545; Type: CDMA Dual Band Mobile Phone; SN: FCC #4 ACE Antenna**

Communication System: Cellular CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: 835 Brain ( $\sigma = 0.87$  mho/m,  $\epsilon_r = 41.16$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Right Section

Test Date: 01-31-2005; Ambient Temp: 22.9°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN3550; ConvF(8.12, 8.12, 8.12); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/22/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DAS4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**Slide In, Touch, Ch.0777, Ant.Out, Standard Battery**

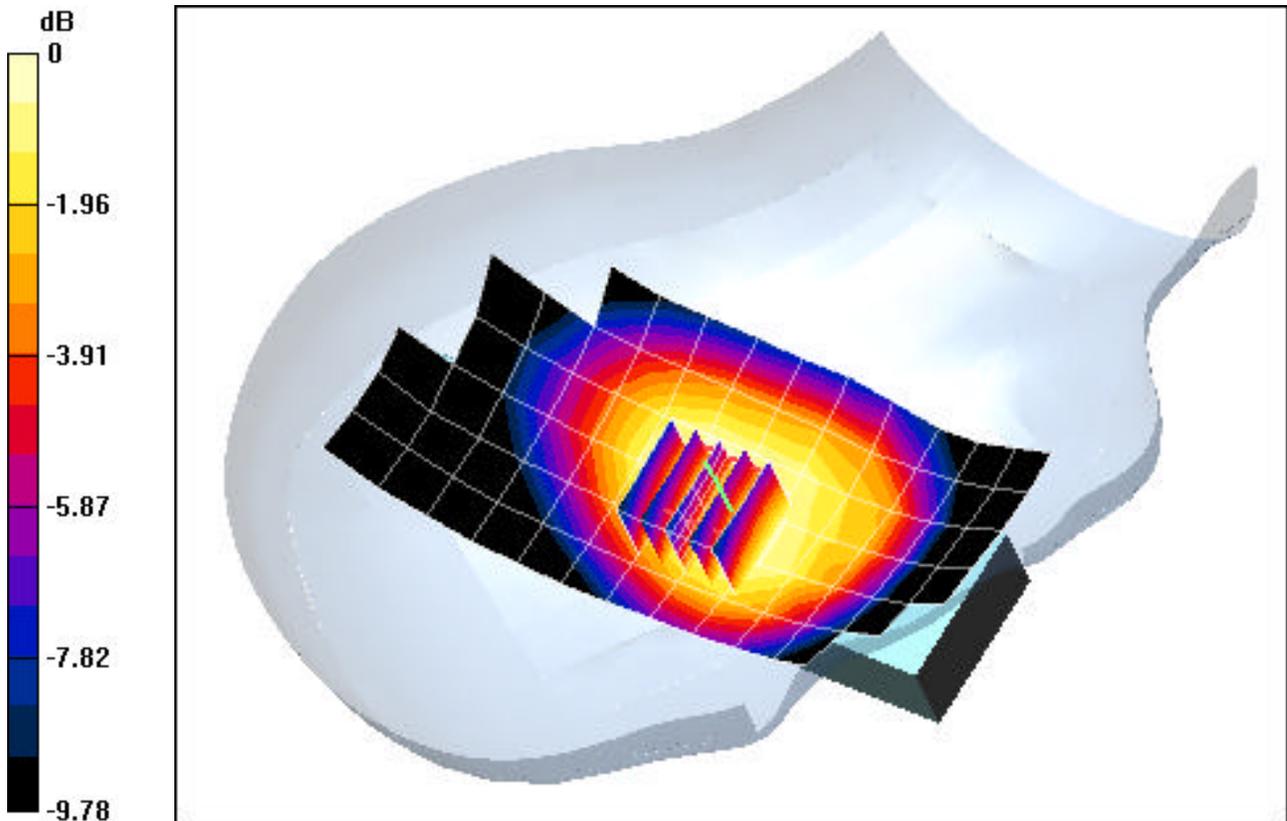
**Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.8 V/mB

Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.789 mW/g; SAR(10 g) = 0.592 mW/g**



0 dB = 0.862mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: LGE LX545; Type: CDMA Dual Band Mobile Phone; SN: FCC #4 ACE Antenna**

Communication System: Cellular CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: 835 Brain ( $\sigma = 0.87$  mho/m,  $\epsilon_r = 41.16$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Right Section

Test Date: 01-31-2005; Ambient Temp: 22.9°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN3550; ConvF(8.12, 8.12, 8.12); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/22/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**Slide In, Tilt, Ch.0384, Ant.Out, Standard Battery**

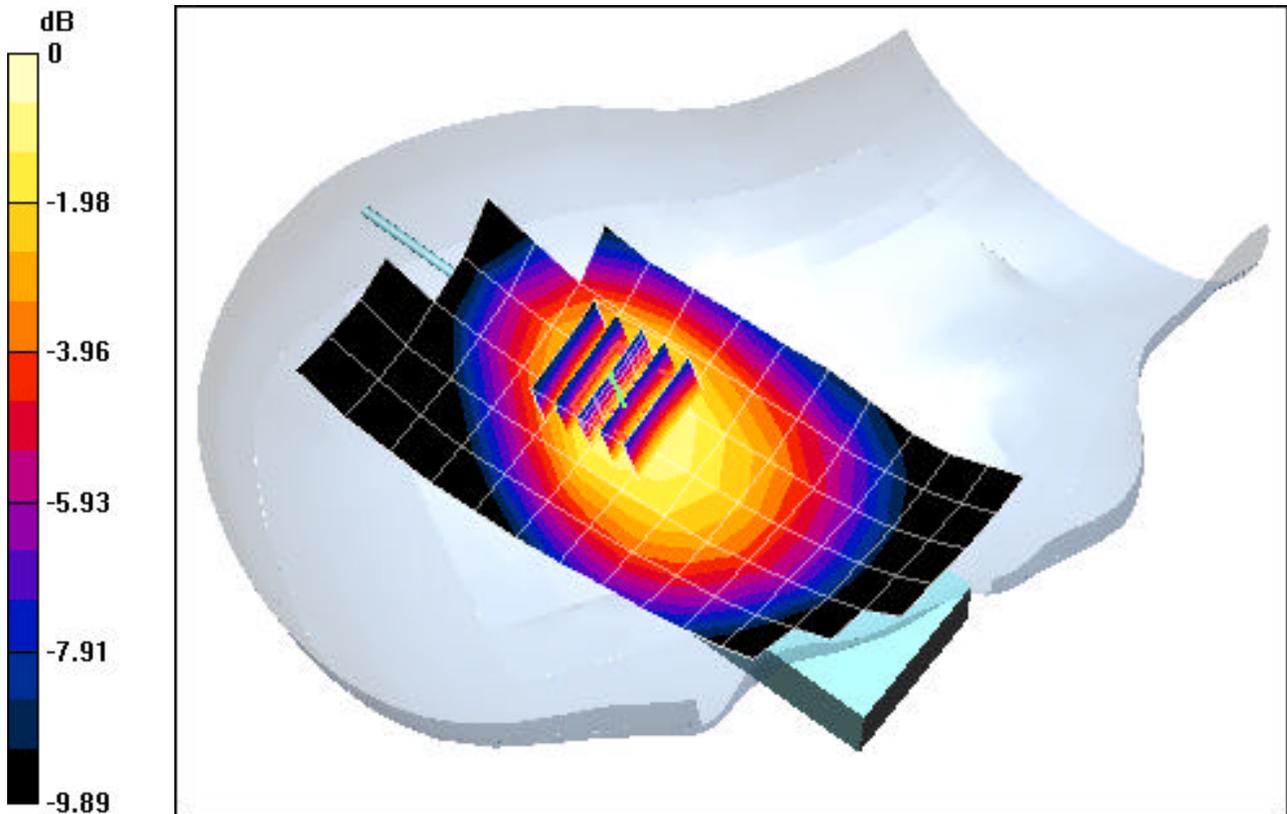
**Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.6 V/m

Peak SAR (extrapolated) = 0.978 W/kg

**SAR(1 g) = 0.703 mW/g; SAR(10 g) = 0.489 mW/g**



0 dB = 0.800mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: LGE LX545; Type: CDMA Dual Band Mobile Phone; SN: FCC #4 ACE Antenna**

Communication System: Cellular CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: 835 Brain ( $\sigma = 0.87$  mho/m,  $\epsilon_r = 41.16$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Left Section

Test Date: 02-01-2005; Ambient Temp: 22.8°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN3550; ConvF(8.12, 8.12, 8.12); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/22/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**Slide In, Touch, Ch.0777, Ant.Out, Standard Battery**

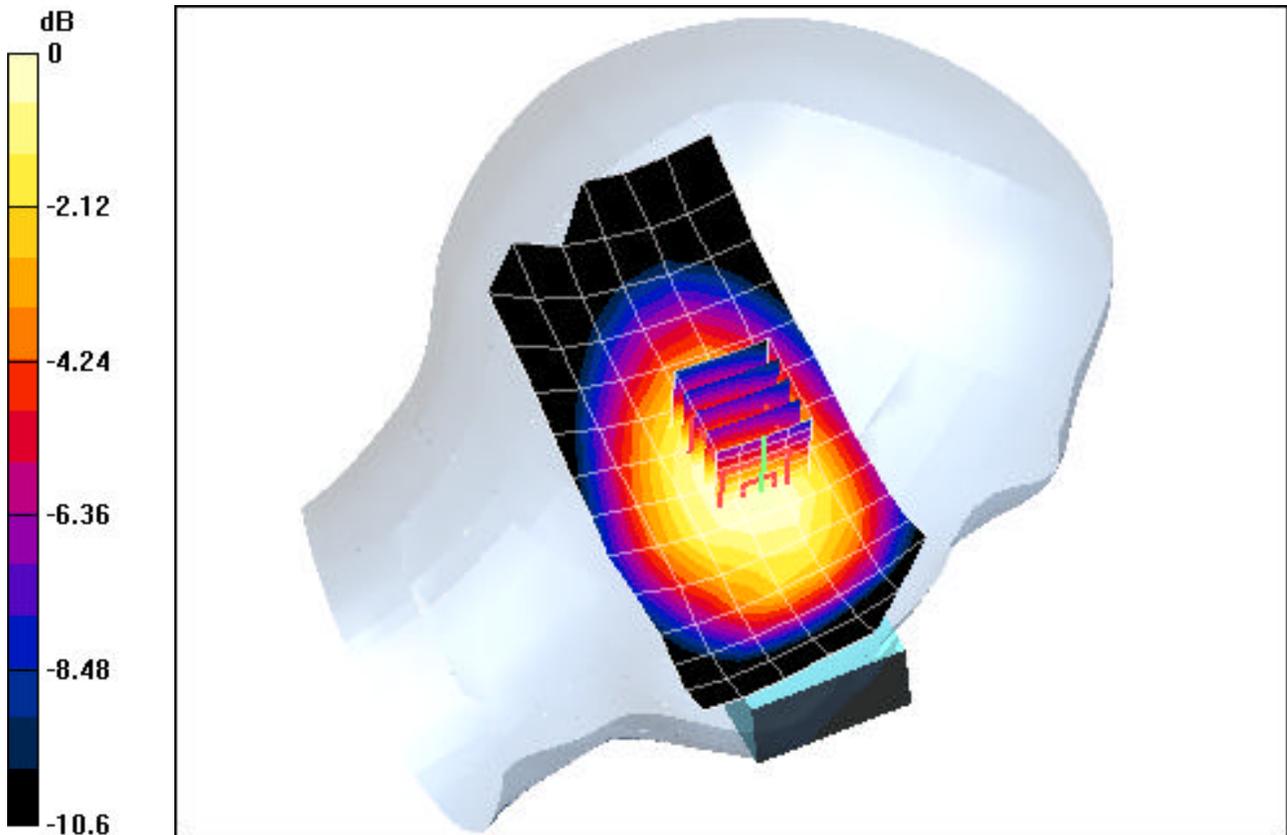
**Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.1 V/mdB

Peak SAR (extrapolated) = 1.16 W/kg

**SAR(1 g) = 0.874 mW/g; SAR(10 g) = 0.646 mW/g**



0 dB = 0.967mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: LGE LX545; Type: CDMA Dual Band Mobile Phone; SN: FCC #4 ACE Antenna**

Communication System: Cellular CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: 835 Brain ( $\sigma = 0.87$  mho/m,  $\epsilon_r = 41.16$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Left Section

Test Date: 02-01-2005; Ambient Temp: 22.8°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN3550; ConvF(8.12, 8.12, 8.12); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/22/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**Slide In, Tilt, Ch.0384, Ant.Out, Standard Battery**

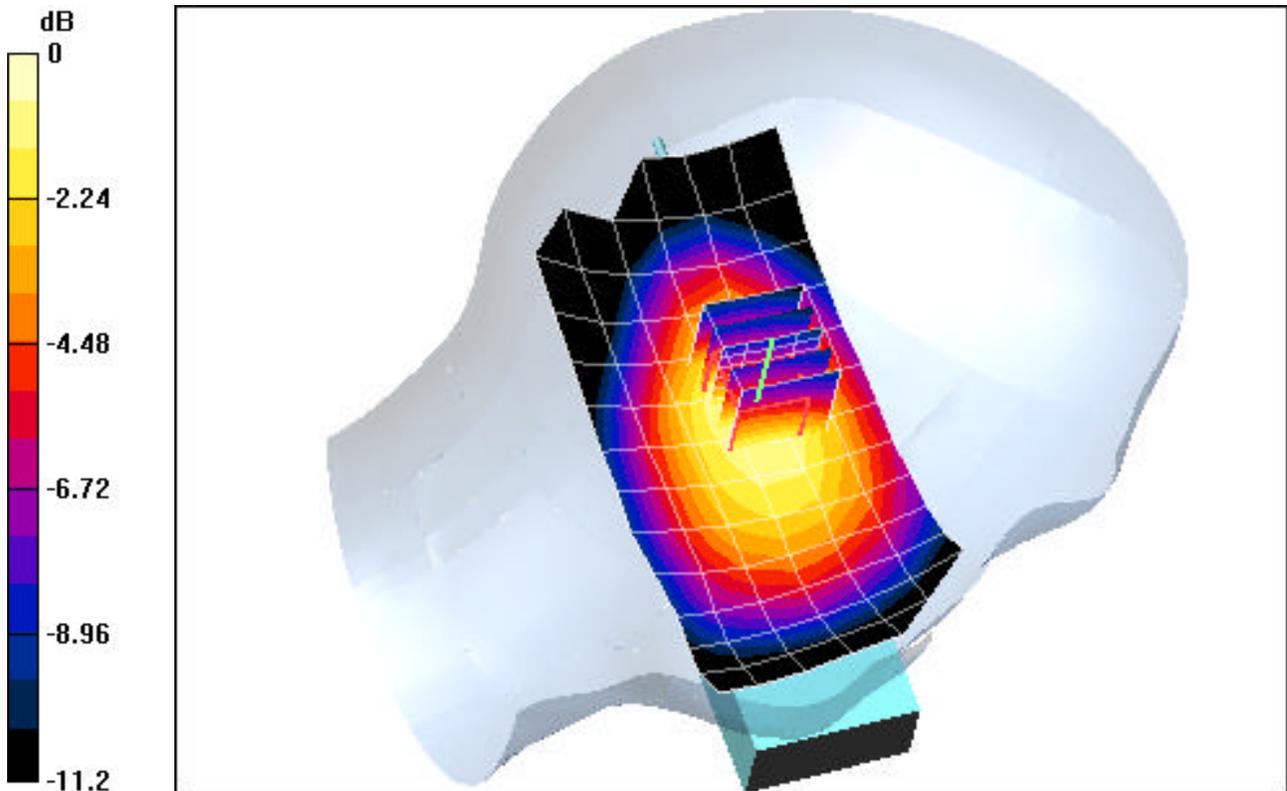
**Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.2 V/m

Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.758 mW/g; SAR(10 g) = 0.512 mW/g**



0 dB = 0.879mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: LGE LX545; Type: CDMA Dual Band Mobile Phone; SN: FCC #4 ACE Antenna**

Communication System: PCS CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ( $\sigma = 1.46$  mho/m,  $\epsilon_r = 39.06$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Right Section

Test Date: 02-02-2005; Ambient Temp: 22.8°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN3550; ConvF(6.75, 6.75, 6.75); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/22/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DAS4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**Slide In, Touch, Ch.0025, Ant.In, Standard Battery**

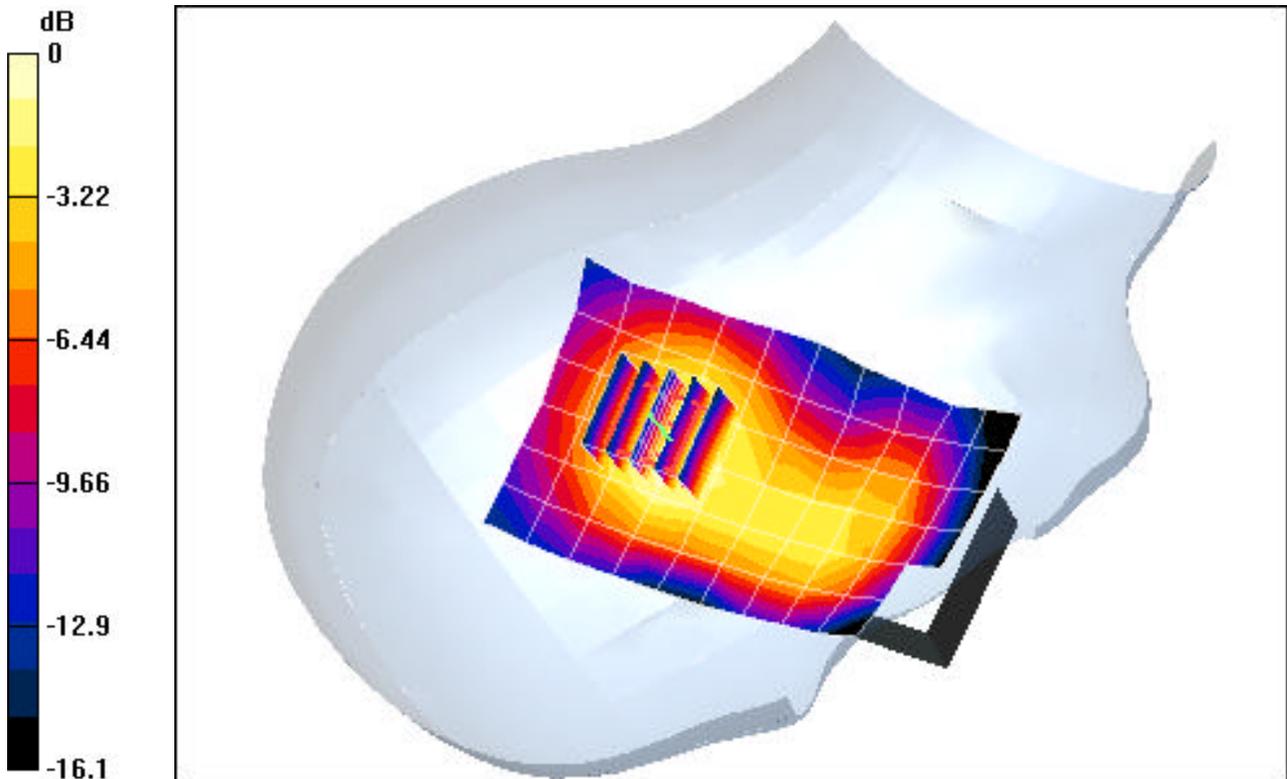
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.7 V/m

Peak SAR (extrapolated) = 1.21 W/kg

**SAR(1 g) = 0.740 mW/g; SAR(10 g) = 0.432 mW/g**



0 dB = 0.892mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: LGE LX545; Type: CDMA Dual Band Mobile Phone; SN: FCC #4 ACE Antenna**

Communication System: PCS CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ( $\sigma = 1.46$  mho/m,  $\epsilon_r = 39.06$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Right Section

Test Date: 02-03-2005; Ambient Temp: 22.7°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN3550; ConvF(6.75, 6.75, 6.75); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/22/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DAS4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

## Slide In, Tilt, Ch.0025, Ant.In, Standard Battery

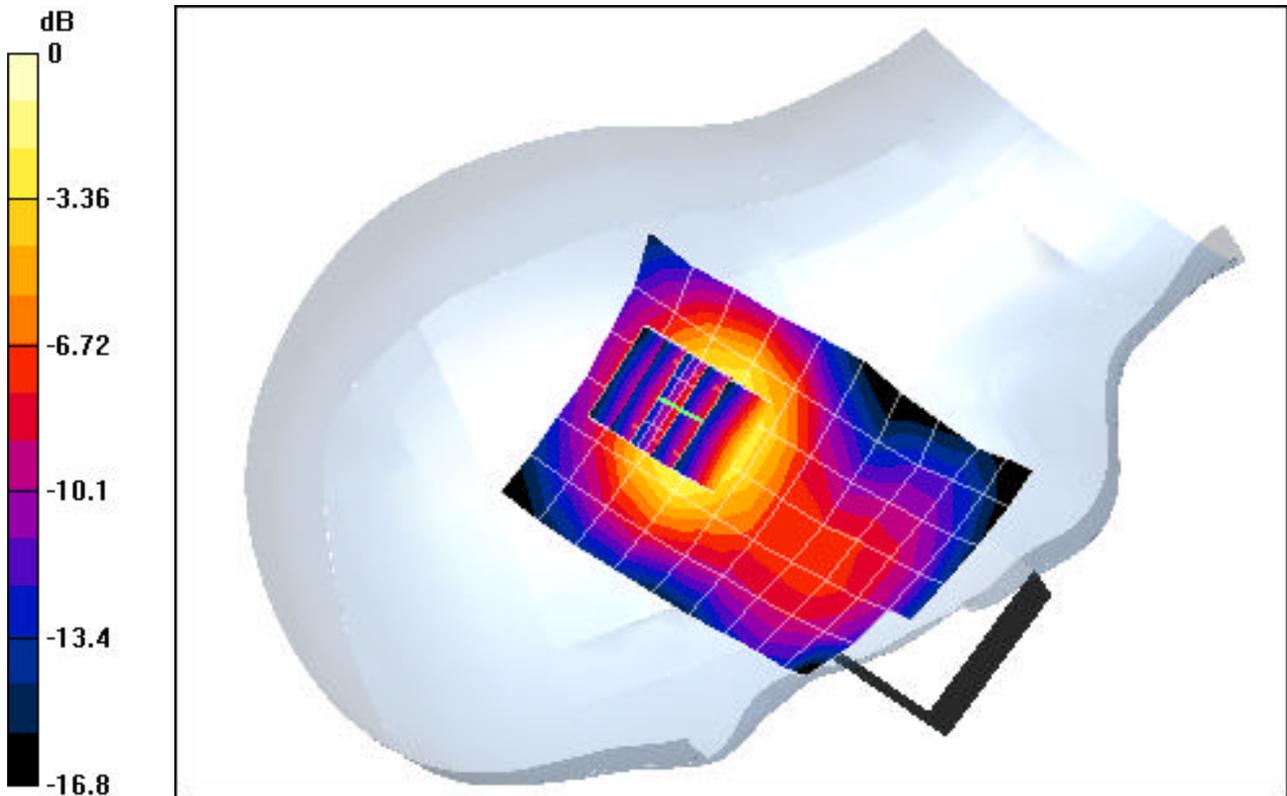
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.4 V/m

Peak SAR (extrapolated) = 1.5 W/kg

**SAR(1 g) = 0.910 mW/g; SAR(10 g) = 0.516 mW/g**



0 dB = 1.12mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: LGE LX545; Type: CDMA Dual Band Mobile Phone; SN: FCC #4 ACE Antenna**

Communication System: PCS CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ( $\sigma = 1.46$  mho/m,  $\epsilon_r = 39.06$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Left Section

Test Date: 02-02-2005; Ambient Temp: 22.8°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN3550; ConvF(6.75, 6.75, 6.75); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/22/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DAS4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

## Slide In, Touch, Ch.0025, Ant.In, Standard Battery

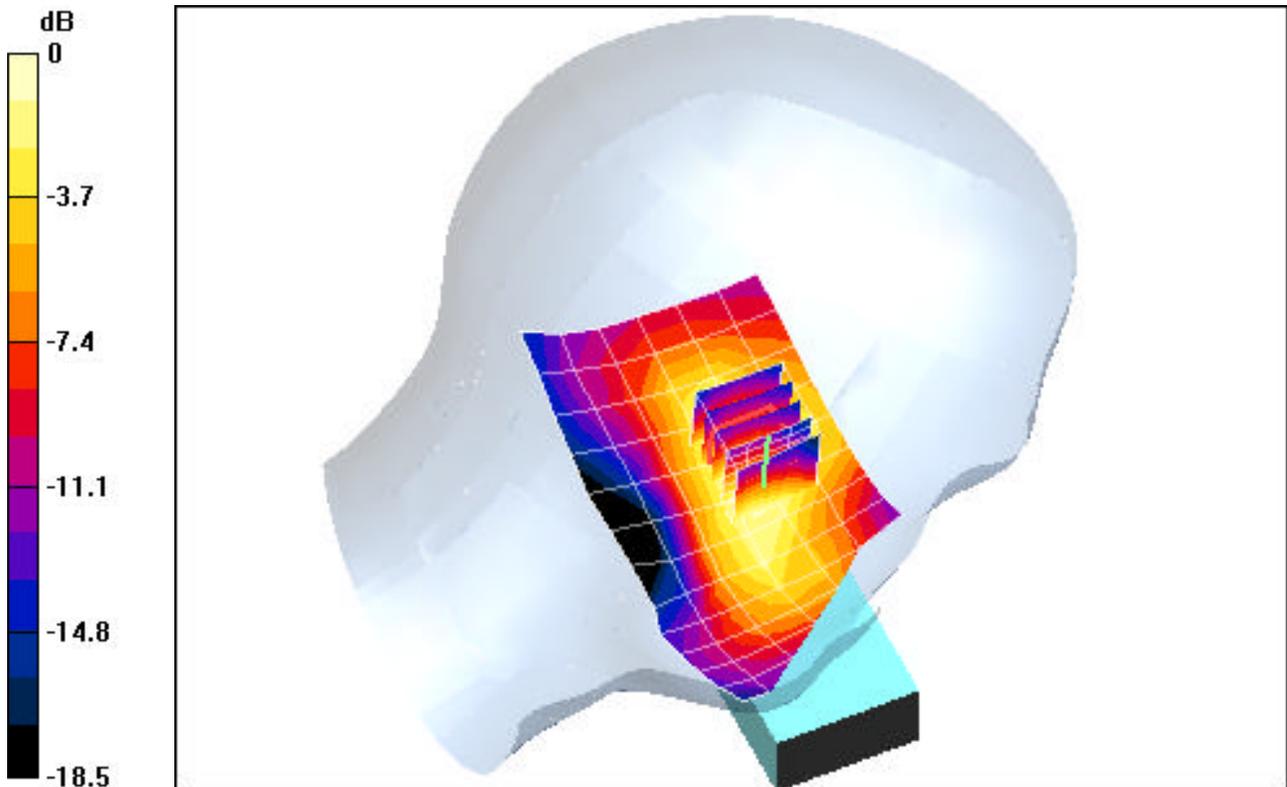
**Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.8 V/m

Peak SAR (extrapolated) = 1.26 W/kg

**SAR(1 g) = 0.773 mW/g; SAR(10 g) = 0.435 mW/g**



0 dB = 0.948mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: LGE LX545; Type: CDMA Dual Band Mobile Phone; SN: FCC #4 ACE Antenna**

Communication System: PCS CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ( $\sigma = 1.46$  mho/m,  $\epsilon_r = 39.06$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Left Section

Test Date: 02-02-2005; Ambient Temp: 22.8°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN3550; ConvF(6.75, 6.75, 6.75); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/22/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DAS4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

## Slide In, Tilt, Ch.0025, Ant.In, Standard Battery

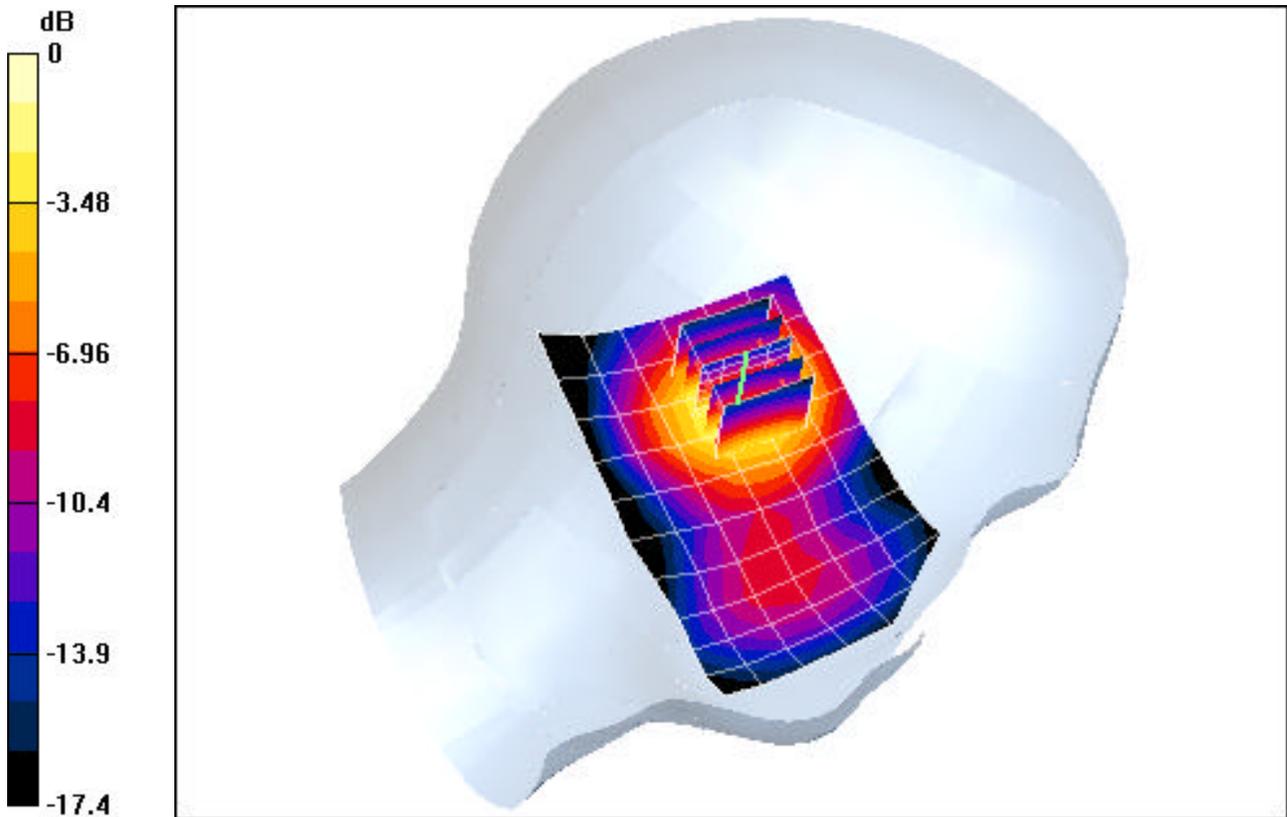
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.3 V/m

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.937 mW/g; SAR(10 g) = 0.531 mW/g**



0 dB = 1.14mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: LGE LX545; Type: CDMA Dual Band Mobile Phone; SN: FCC #4 ACE Antenna**

Communication System: Cellular CDMA; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: 835 Muscle ( $\sigma = 0.99$  mho/m,  $\epsilon_r = 53.62$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section; Space: 1.5cm. from DUT to Flat Phantom

Test Date: 02-04-2005; Ambient Temp: 22.9°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN3550; ConvF(7.99, 7.99, 7.99); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/22/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DAS4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

## Slide In, Ch.0384, Ant Out, Standard Battery

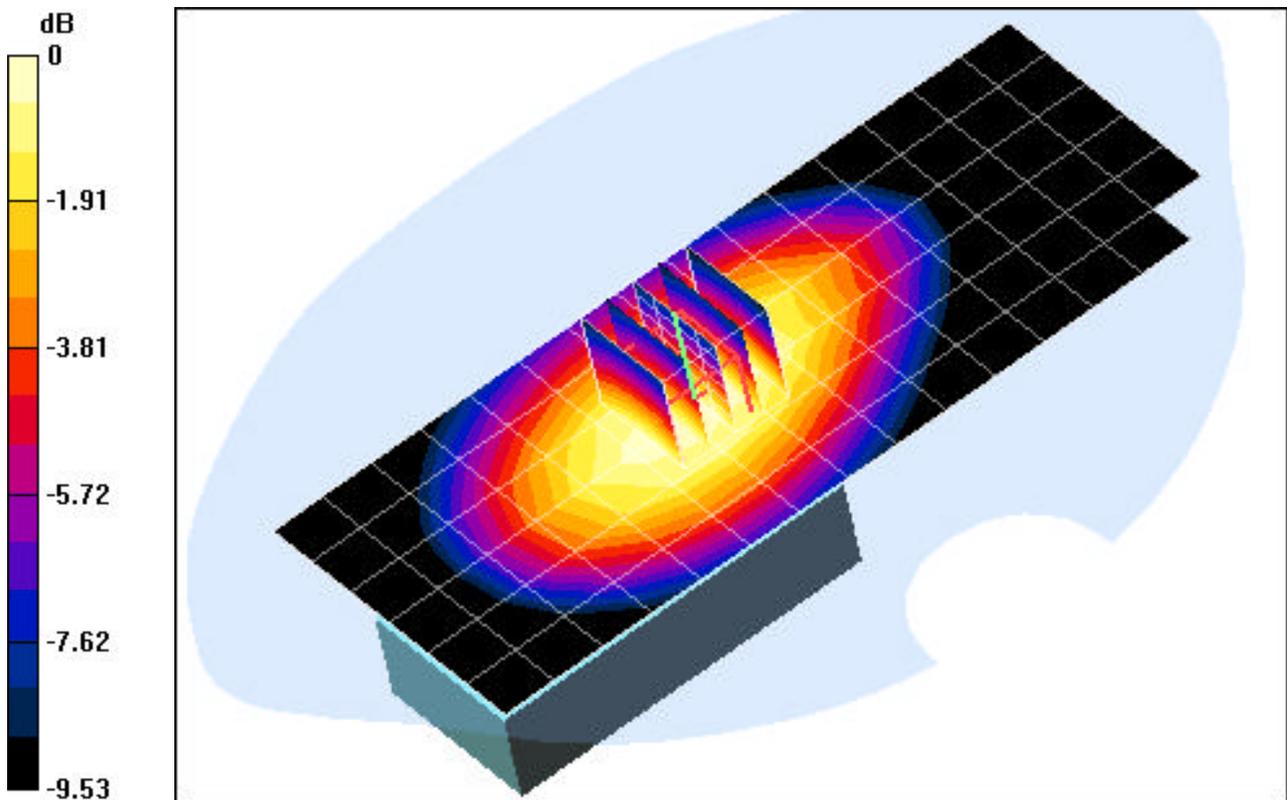
**Area Scan (7x16x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34 V/m

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.977mW/g; SAR(10 g) = 0.672 mW/g



0 dB = 1.12mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: LGE LX545; Type: CDMA Dual Band Mobile Phone; SN: FCC #4 ACE Antenna**

Communication System: Cellular CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: 835 Muscle ( $\sigma = 0.99$  mho/m,  $\epsilon_r = 53.62$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

Test Date: 02-04-2005; Ambient Temp: 22.9°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN3550; ConvF(7.99, 7.99, 7.99); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/22/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DAS4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

## Slide Out, Ch.0384, Ant Out, Standard Battery

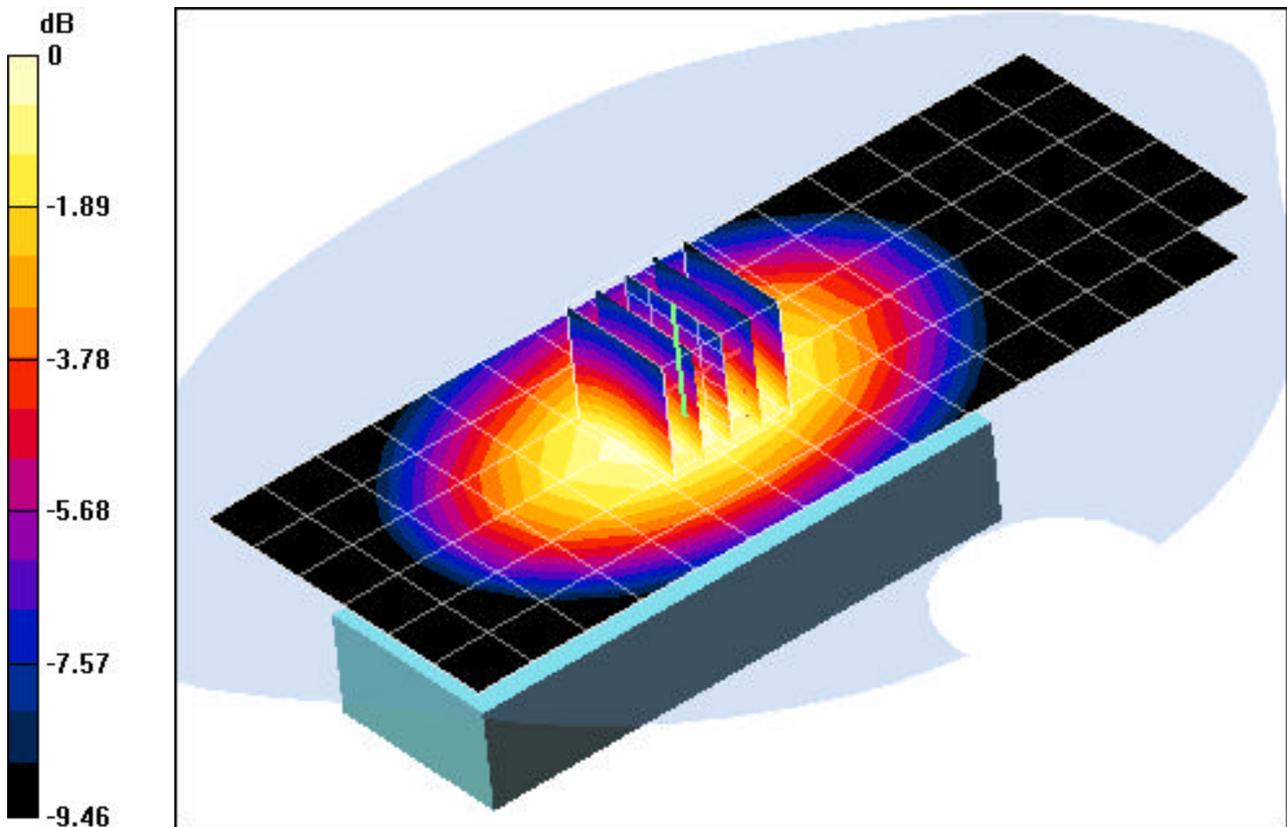
**Area Scan (7x16x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.9 V/m

Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.833 mW/g; SAR(10 g) = 0.598 mW/g**



0 dB = 0.934mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: LGE LX545; Type: CDMA Dual Band Mobile Phone; SN: FCC #4 ACE Antenna**

Communication System: PCS CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900 Muscle ( $\sigma = 1.57$  mho/m,  $\epsilon_r = 52.06$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

Test Date: 02-05-2005; Ambient Temp: 22.7°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN3550; ConvF(6.35, 6.35, 6.35); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/22/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DAS4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

## Slide In, Ch.0025, Ant Out, Standard Battery

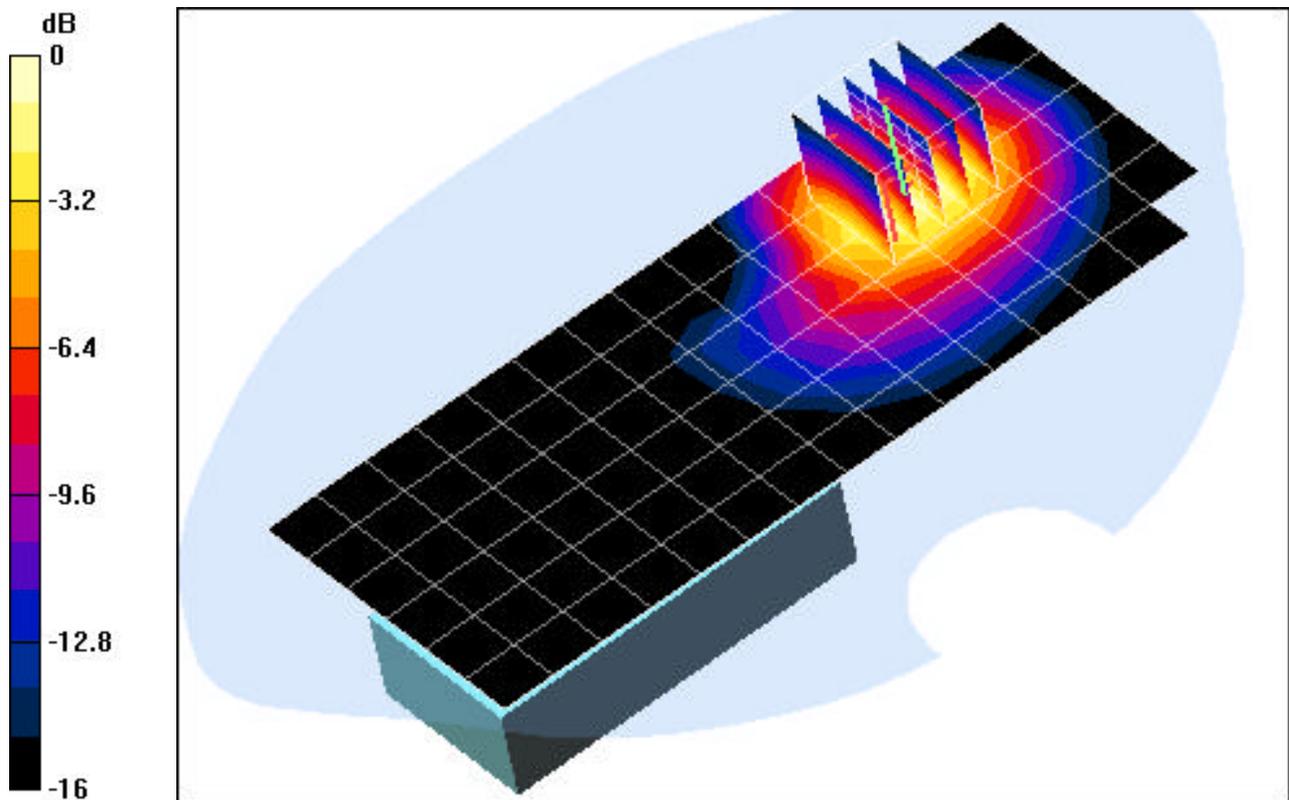
**Area Scan (7x16x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.4 V/m

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.837 mW/g; SAR(10 g) = 0.489 mW/g



0 dB = 1.01mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: LGE LX545; Type: CDMA Dual Band Mobile Phone; SN: FCC #4 ACE Antenna**

Communication System: Cellular CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: 835 Brain ( $\sigma = 0.87$  mho/m,  $\epsilon_r = 41.16$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Left Section

Test Date: 02-01-2005; Ambient Temp: 22.8°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN3550; ConvF(8.12, 8.12, 8.12); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/22/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DAS4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

## Slide In, Touch, Ch.0777, Ant.Out, Standard Battery

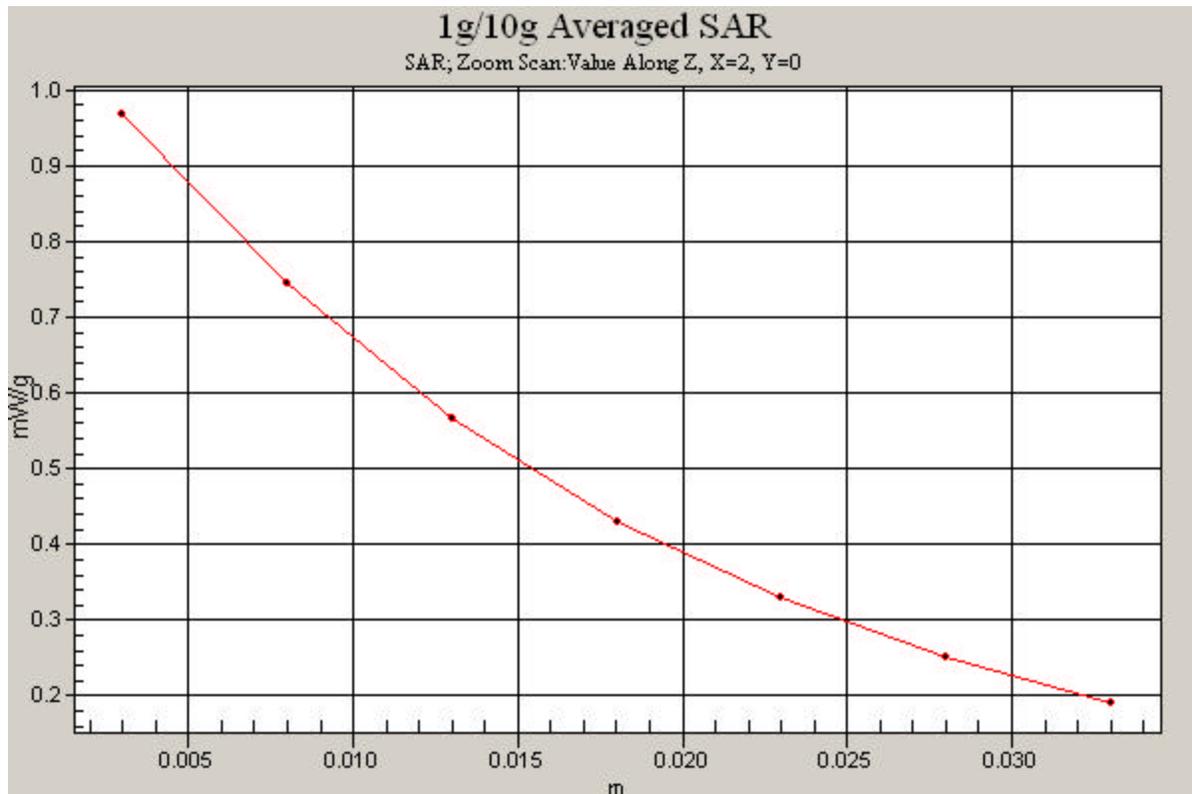
**Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.1 V/m

Peak SAR (extrapolated) = 1.16 W/kg

**SAR(1 g) = 0.874 mW/g; SAR(10 g) = 0.646 mW/g**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: LGE LX545; Type: CDMA Dual Band Mobile PPhone; Serial: FCC #4 ACE Antenna**

Communication System: PCS CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ( $\sigma = 1.46$  mho/m,  $\epsilon_r = 39.06$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Left Section

Test Date: 02-02-2005; Ambient Temp: 22.8°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN3550; ConvF(6.75, 6.75, 6.75); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/22/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

## Slide In, Tilt, Ch.0025, Ant.In, Standard Battery

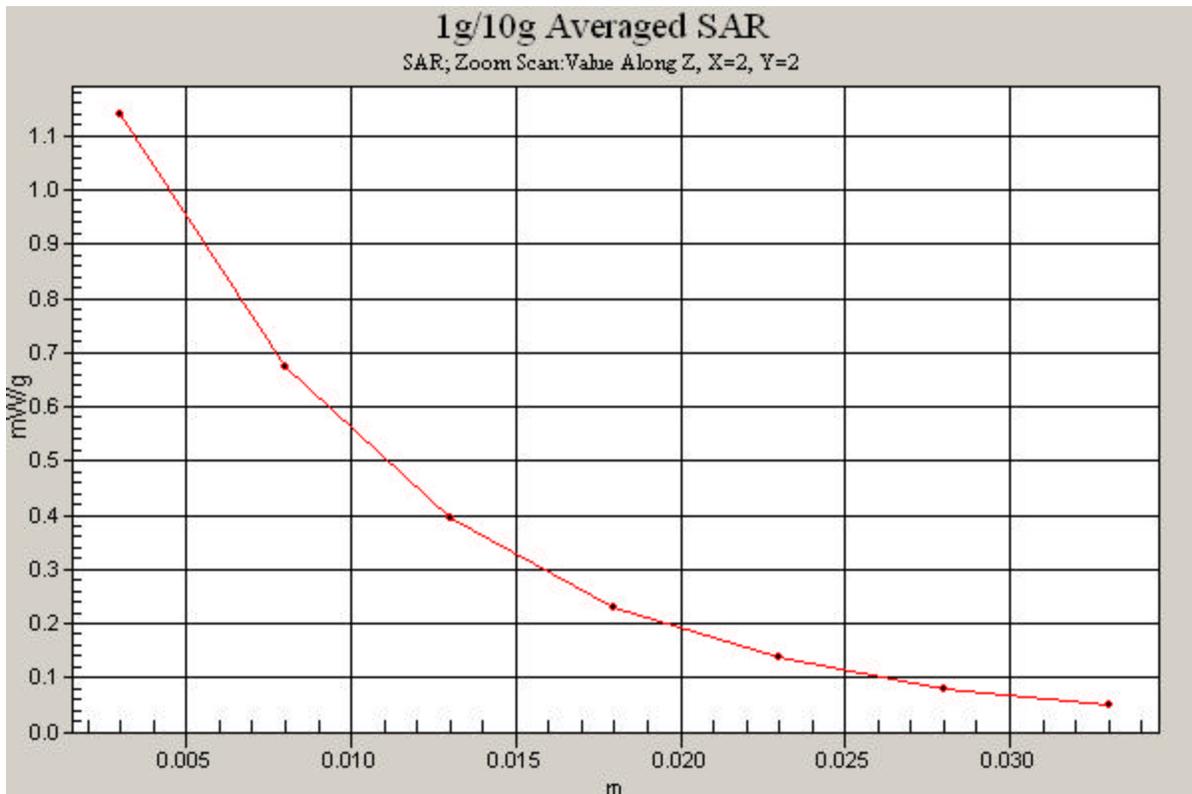
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.3 V/m

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.937 mW/g; SAR(10 g) = 0.531 mW/g**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: LGE LX545; Type: CDMA Dual Band Mobile Phone; SN: FCC #4 ACE Antenna**

Communication System: Cellular CDMA; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: 835 Muscle ( $\sigma = 0.99$  mho/m,  $\epsilon_r = 53.62$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

Test Date: 02-04-2005; Ambient Temp: 22.9°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN3550; ConvF(7.99, 7.99, 7.99); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/22/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

## Slide In, Ch.0384, Ant Out, Standard Battery

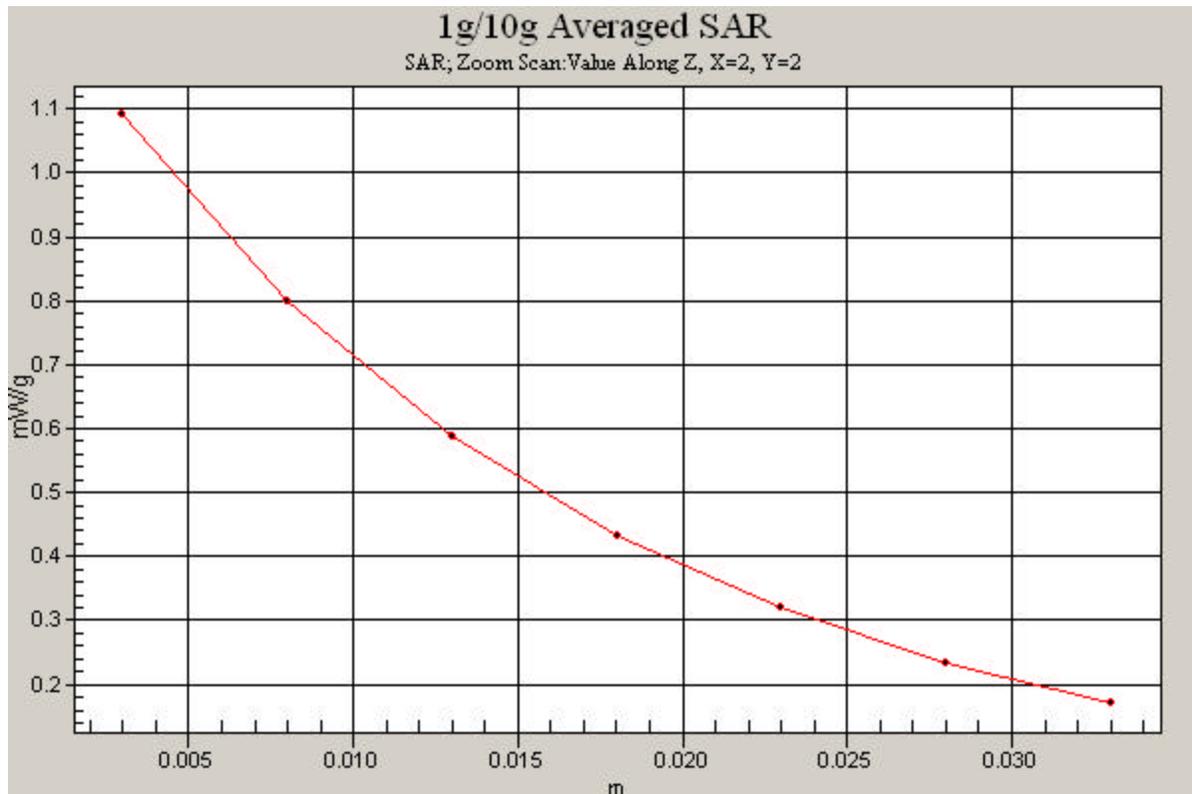
**Area Scan (7x16x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 33.9 V/m

Peak SAR (extrapolated) = 1.36 W/kg

**SAR(1 g) = 0.977 mW/g; SAR(10 g) = 0.672 mW/g**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: LGE LX545; Type: CDMA Dual Band Mobile Phone; SN: FCC #4 ACE Antenna**

Communication System: PCS CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900 Muscle ( $\sigma = 1.57$  mho/m,  $\epsilon_r = 52.06$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

Test Date: 02-05-2005; Ambient Temp: 22.7°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN3550; ConvF(6.35, 6.35, 6.35); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/22/2004

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DAS4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

## Slide In, Ch.0025, Ant Out, Standard Battery

**Area Scan (7x16x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.39 V/m

Peak SAR (extrapolated) = 1.32 W/kg

**SAR(1 g) = 0.837 mW/g; SAR(10 g) = 0.489 mW/g**

