

APPENDIX A: SAR TEST DATA

PCTEST ENGINEERING LABORATORY, INC.

DUT: SANYO SCP -6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 24.5 dBm

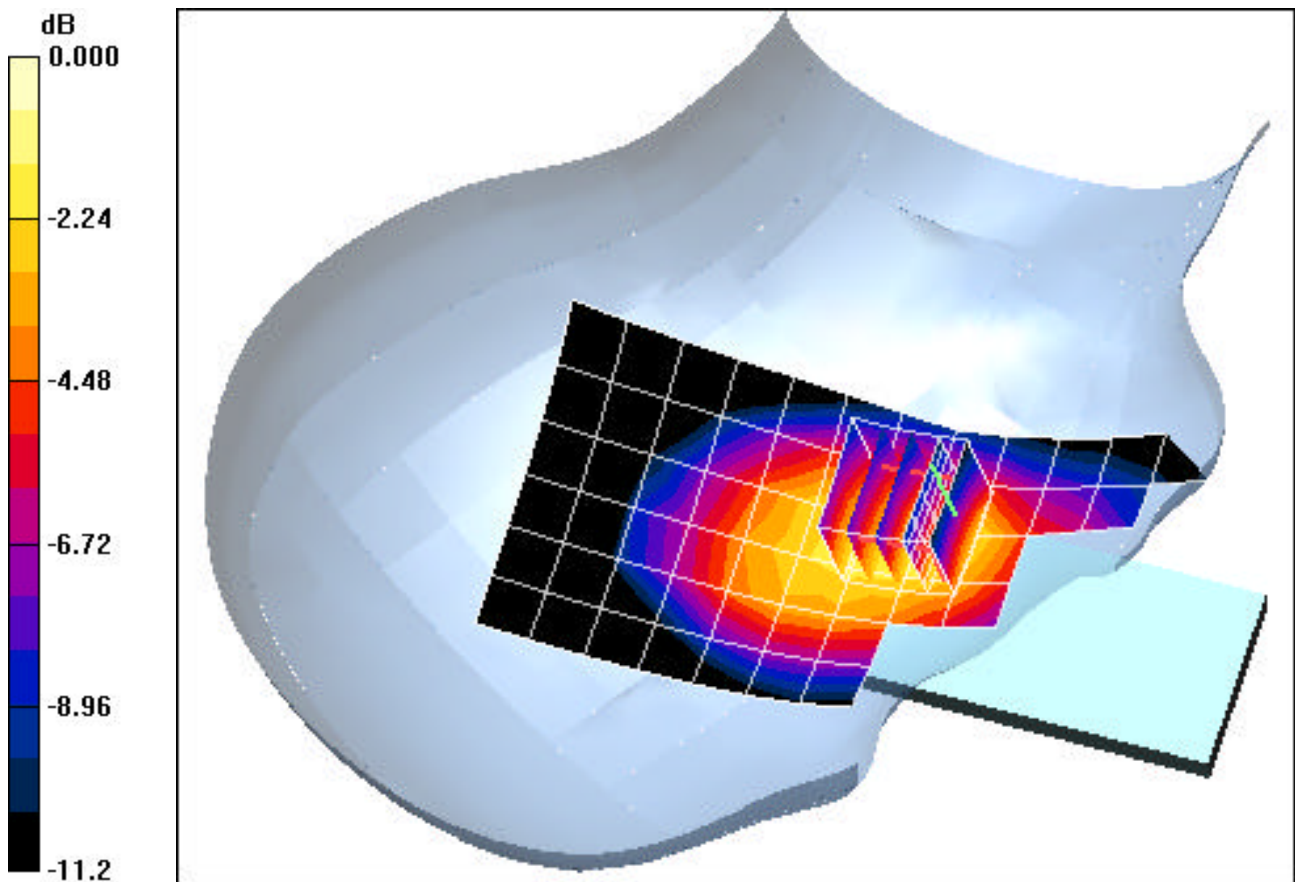
Communication System: AMPS; Frequency: 824.04 MHz; Duty Cycle: 1:1
Medium: 835 Brain ($\sigma = 0.87$ mho/m, $\epsilon_r = 40.12$, $\rho = 1000$ kg/m³)
Phantom section: Right Section

Test Date: 08-28-2006; Ambient Temp: 23.4°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3589; ConvF(8.36, 8.36, 8.36); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

AMPS Mode, Right Head, Touch, Ch.0991, Standard Battery, Antenna Internal

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.2 V/mdB
Peak SAR (extrapolated) = 2.21 W/kg
SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.680 mW/g



0 dB = 1.36mW/g

PCTEST ENGINEERING LABORATORY, INC.

**DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 24.5 dBm**

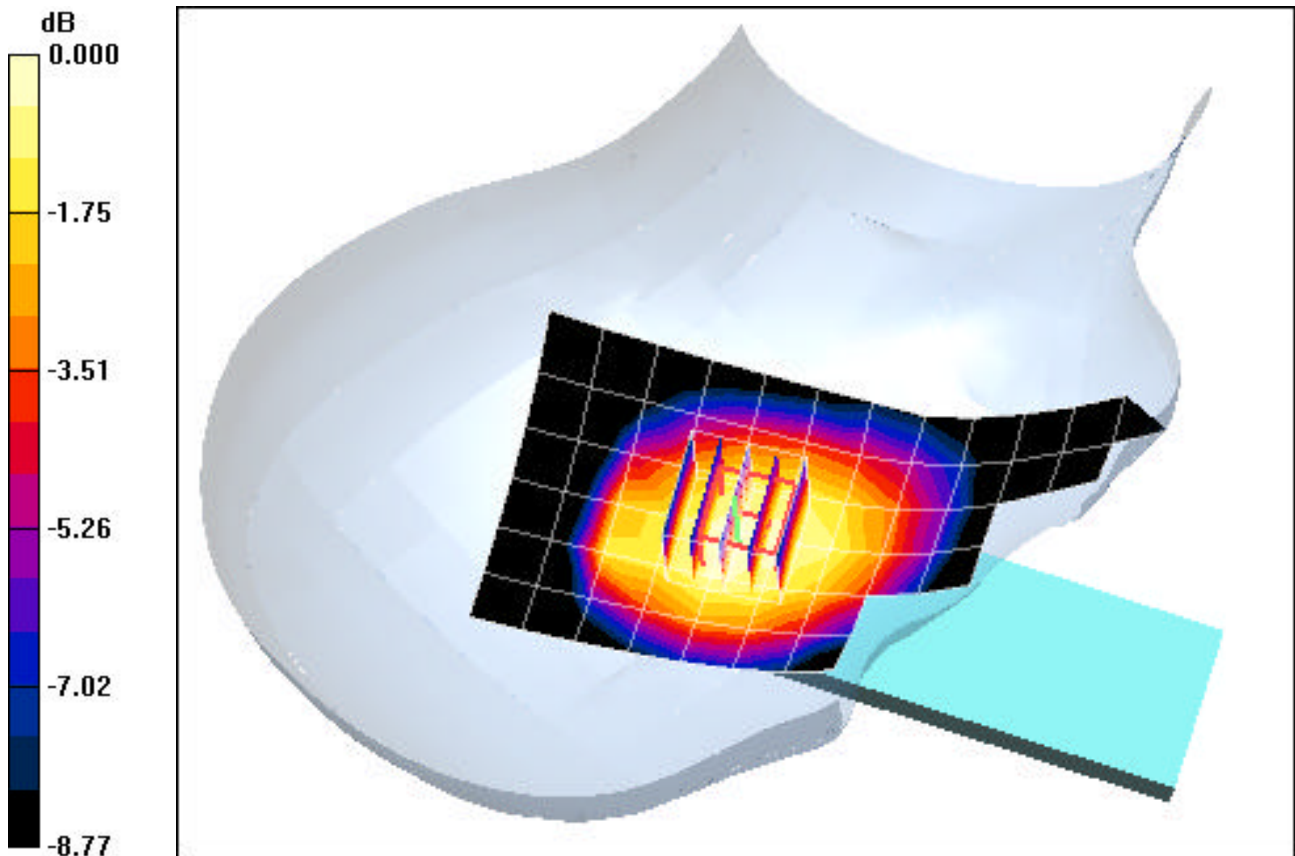
Communication System: AMPS; Frequency: 836.49 MHz; Duty Cycle: 1:1
Medium: 835 Brain ($\sigma = 0.87$ mho/m, $\epsilon_r = 40.12$, $\rho = 1000$ kg/m³)
Phantom section: Right Section

Test Date: 08-28-2006; Ambient Temp: 23.4°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3589; ConvF(8.36, 8.36, 8.36); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

AMPS Mode, Right Head, Tilt, Ch.0383, Standard Battery, Antenna Internal

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.1 V/m
Peak SAR (extrapolated) = 0.478 W/kg
SAR(1 g) = 0.383 mW/g; SAR(10 g) = 0.291 mW/g



0 dB = 0.421mW/g

PCTEST ENGINEERING LABORATORY, INC.

**DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 24.5 dBm**

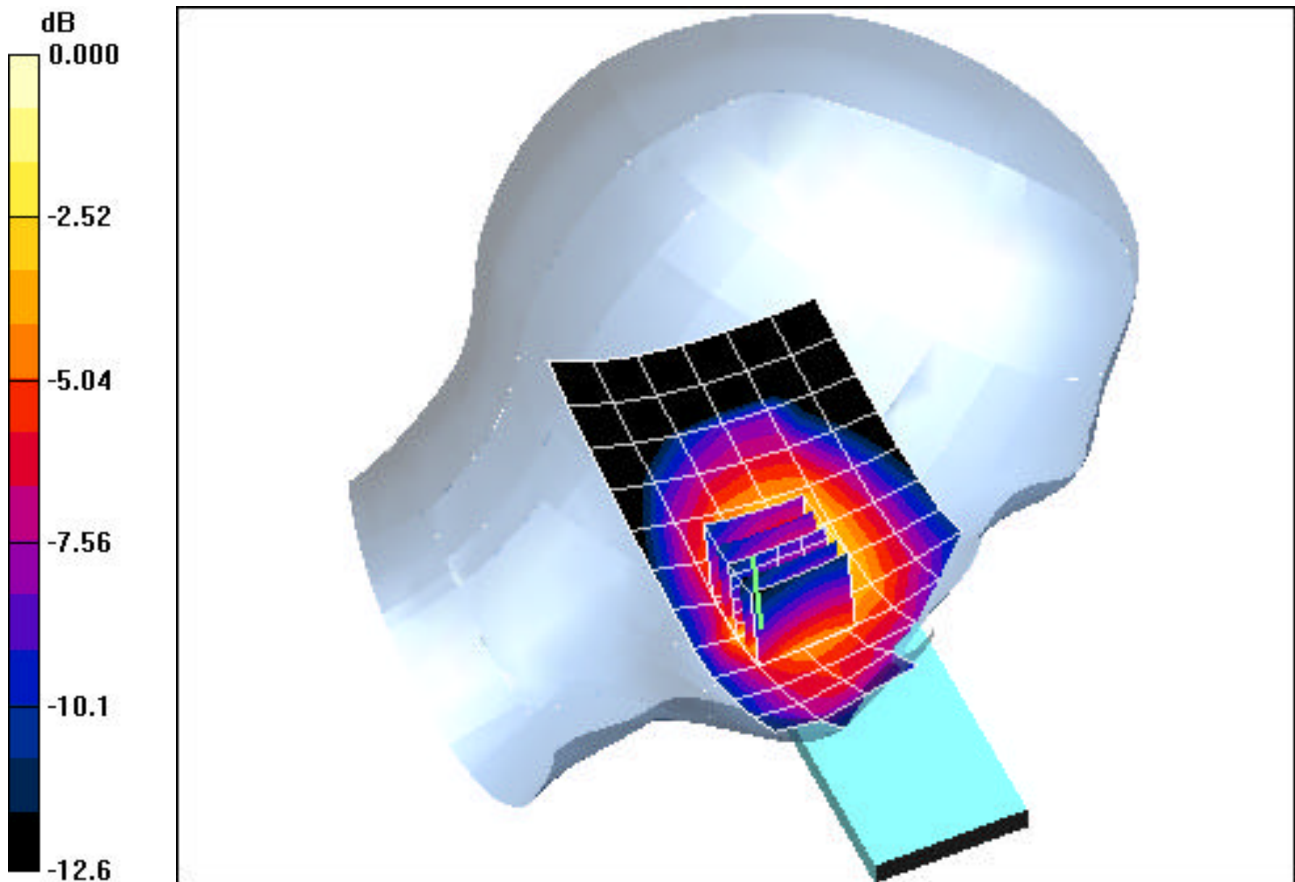
Communication System: AMPS; Frequency: 836.49 MHz; Duty Cycle: 1:1
Medium: 835 Brain ($\sigma = 0.87$ mho/m, $\epsilon_r = 40.12$, $\rho = 1000$ kg/m³)
Phantom section: Left Section

Test Date: 08-28-2006; Ambient Temp: 23.4°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3589; ConvF(8.36, 8.36, 8.36); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

AMPS Mode, Left Head, Touch, Ch.0383, Standard Battery, Antenna Internal

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.9 V/m
Peak SAR (extrapolated) = 1.90 W/kg
SAR(1 g) = 0.784 mW/g; SAR(10 g) = 0.454 mW/g



0 dB = 1.17mW/g

PCTEST ENGINEERING LABORATORY, INC.

**DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 24.5 dBm**

Communication System: AMPS; Frequency: 836.49 MHz; Duty Cycle: 1:1
Medium: 835 Brain ($\sigma = 0.87$ mho/m, $\epsilon_r = 40.12$, $\rho = 1000$ kg/m³)
Phantom section: Left Section

Test Date: 08-28-2006; Ambient Temp: 23.4°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3589; ConvF(8.36, 8.36, 8.36); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

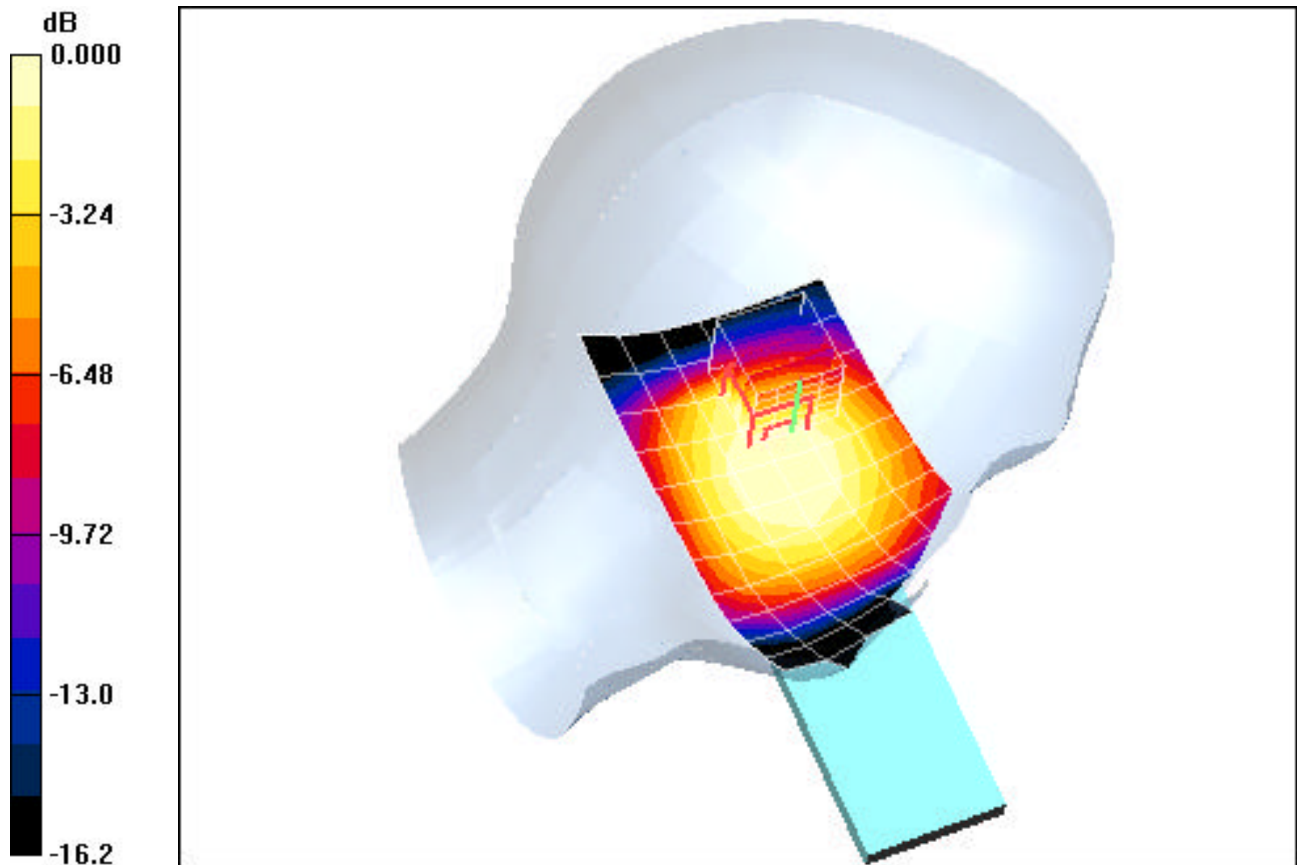
AMPS Mode, Left Head, Tilt, Ch.0383, Standard Battery, Antenna Internal

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 19.0 V/m Peak SAR (extrapolated) = 0.543 W/kg

SAR(1 g) = 0.297 mW/g; SAR(10 g) = 0.210 mW/g



0 dB = 0.357mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 24.0 dBm

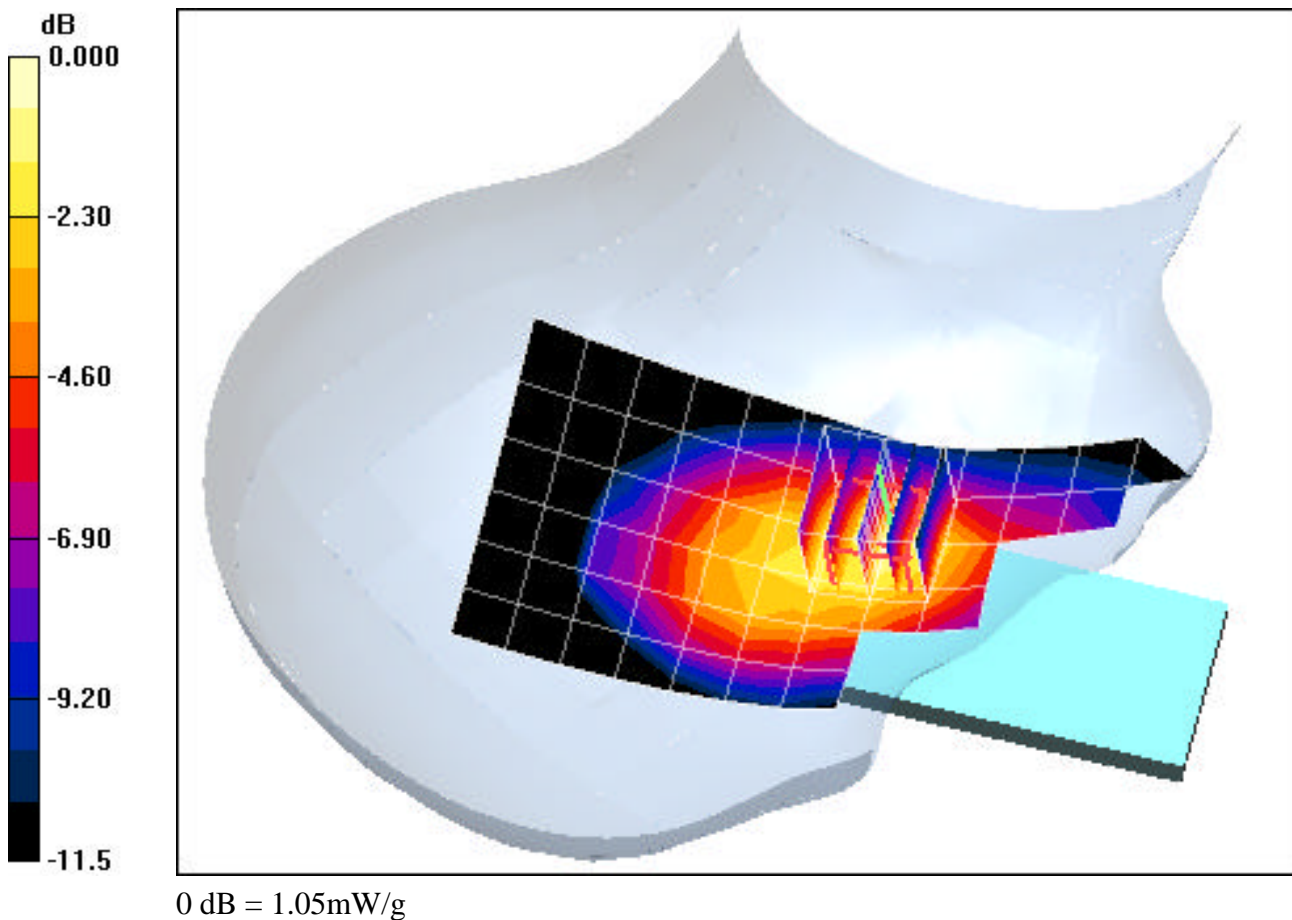
Communication System: Cellular CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium: 835 Brain ($\sigma = 0.87$ mho/m, $\epsilon_r = 40.12$, $\rho = 1000$ kg/m³)
Phantom section: Right Section

Test Date: 08-29-2006; Ambient Temp: 23.2°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3589; ConvF(8.36, 8.36, 8.36); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

CDMA Mode, Right Head, Touch, Ch.0383, Standard Battery, Antenna Internal

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.2 V/mB
Peak SAR (extrapolated) = 1.89 W/kg
SAR(1 g) = 0.888 mW/g; SAR(10 g) = 0.518 mW/g



PCTEST ENGINEERING LABORATORY, INC.

**DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 24.0 dBm**

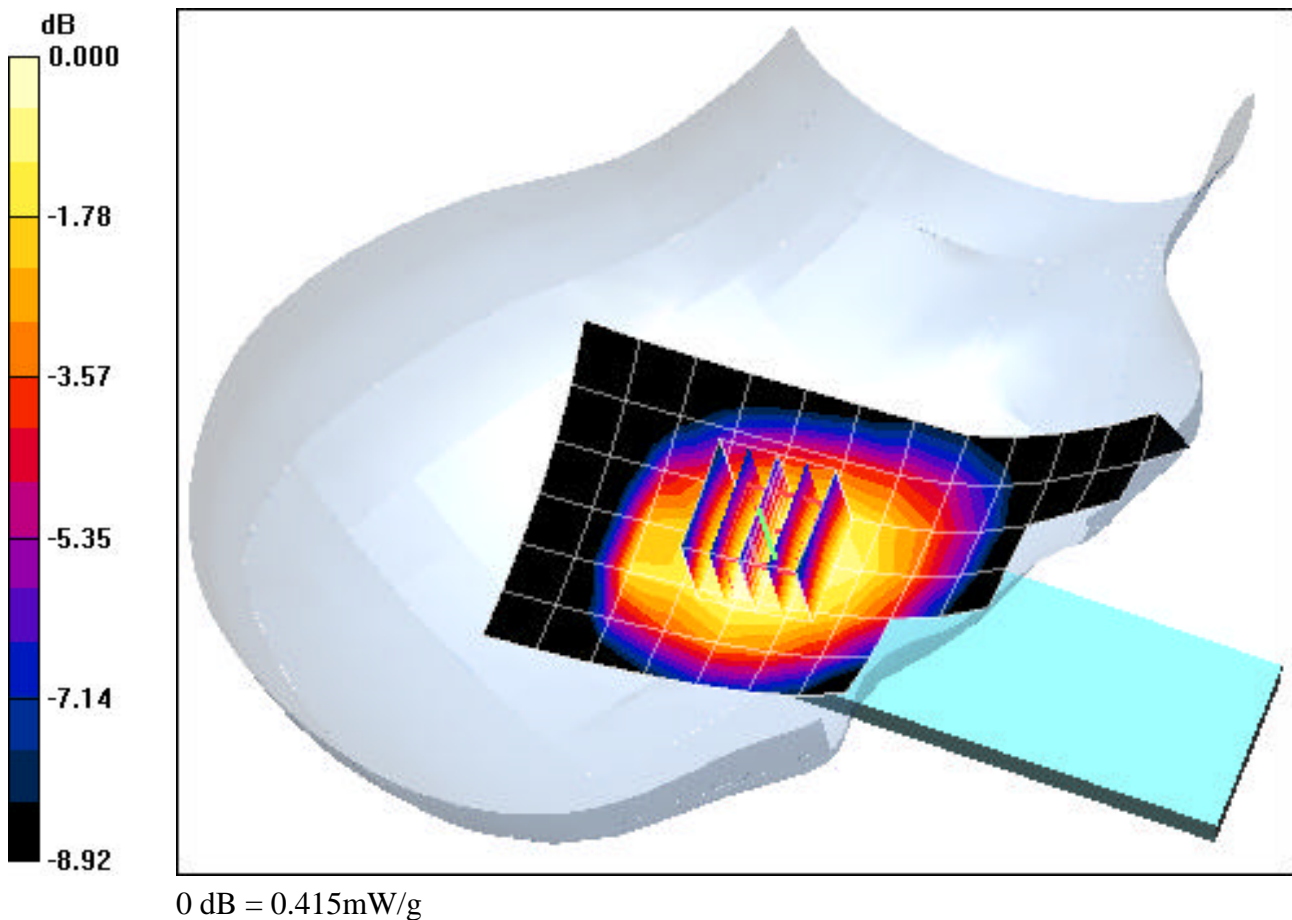
Communication System: Cellular CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium: 835 Brain ($\sigma = 0.87$ mho/m, $\epsilon_r = 40.12$, $\rho = 1000$ kg/m³)
Phantom section: Right Section

Test Date: 08-29-2006; Ambient Temp: 23.2°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3589; ConvF(8.36, 8.36, 8.36); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

CDMA Mode, Right Head, Tilt, Ch.0383, Standard Battery, Antenna Internal

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.6 V/m
Peak SAR (extrapolated) = 0.462 W/kg
SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.285 mW/g



PCTEST ENGINEERING LABORATORY, INC.

**DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 24.0 dBm**

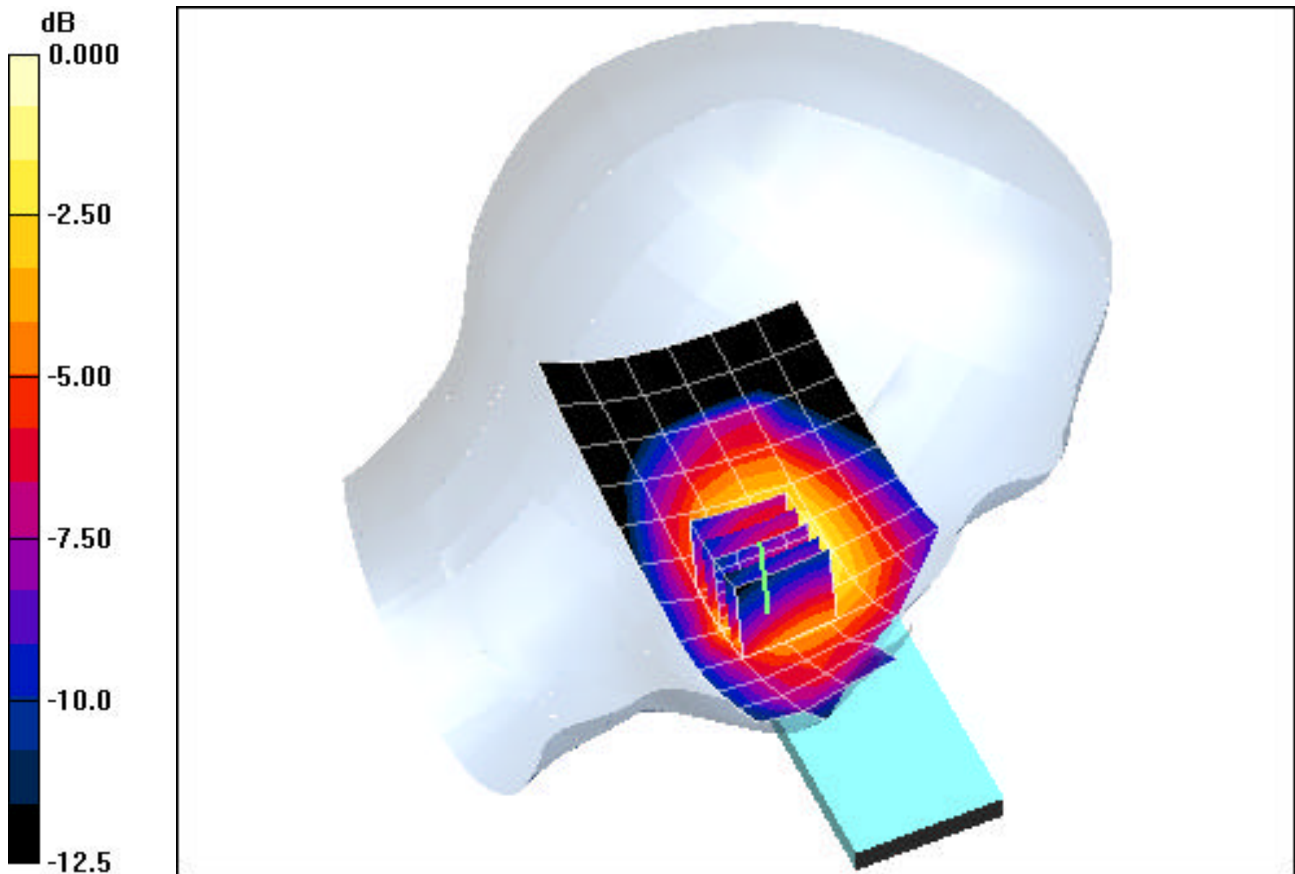
Communication System: Cellular CDMA; Frequency: 836.49 MHz; Duty Cycle: 1:1
Medium: 835 Brain ($\sigma = 0.87$ mho/m, $\epsilon_r = 40.12$, $\rho = 1000$ kg/m³)
Phantom section: Left Section

Test Date: 08-29-2006; Ambient Temp: 23.2°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3589; ConvF(8.36, 8.36, 8.36); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

CDMA Mode, Left Head, Touch, Ch.0383, Standard Battery, Antenna Internal

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.0 V/m
Peak SAR (extrapolated) = 1.38 W/kg
SAR(1 g) = 0.664 mW/g; SAR(10 g) = 0.416 mW/g



0 dB = 0.909mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 24.0 dBm

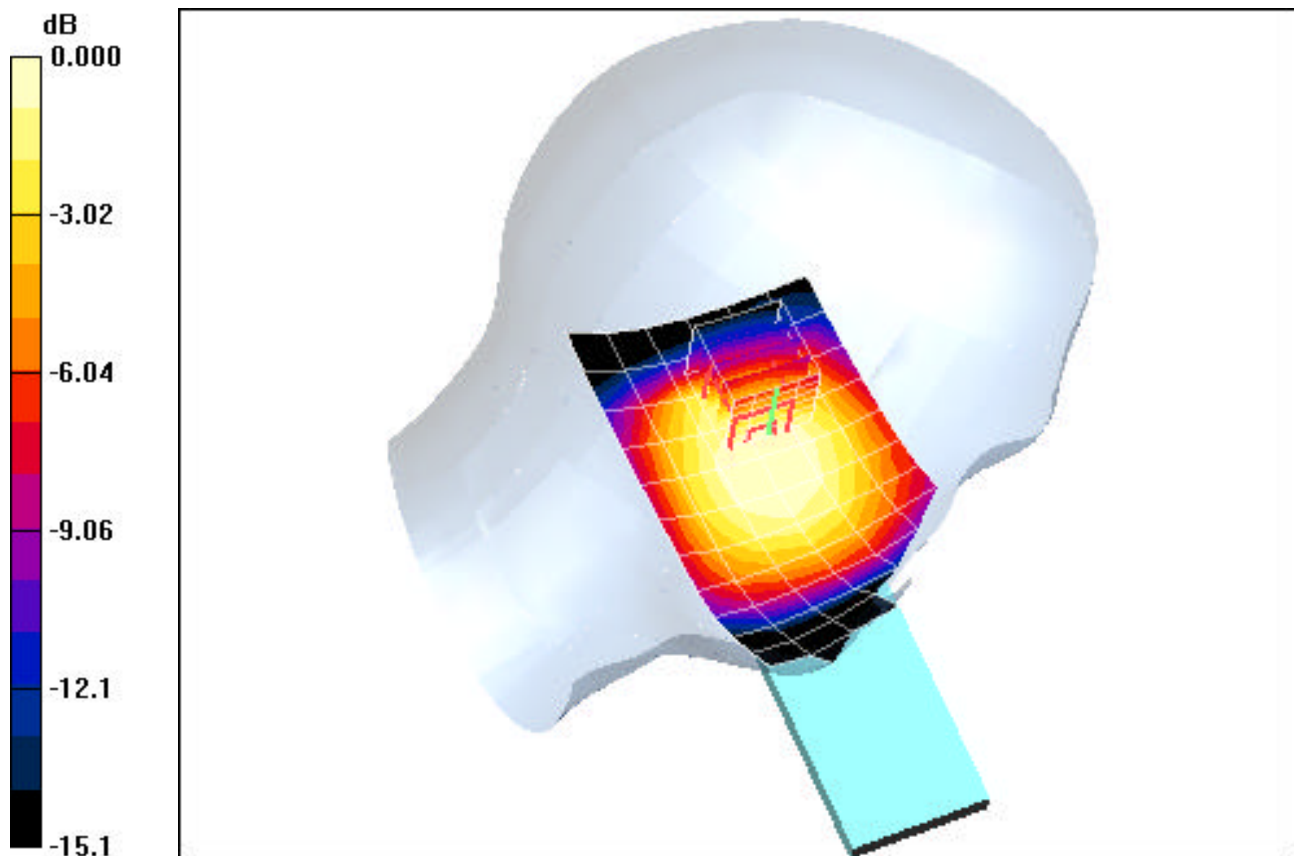
Communication System: Cellular CDMA; Frequency: 836.49 MHz; Duty Cycle: 1:1
Medium: 835 Brain ($\sigma = 0.87$ mho/m, $\epsilon_r = 40.12$, $\rho = 1000$ kg/m³)
Phantom section: Left Section

Test Date: 08-29-2006; Ambient Temp: 23.2°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3589; ConvF(8.36, 8.36, 8.36); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

CDMA Mode, Left Head, Tilt, Ch.0383, Standard Battery, Antenna Internal

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.0 V/m
Peak SAR (extrapolated) = 0.424 W/kg
SAR(1 g) = 0.271 mW/g; SAR(10 g) = 0.193 mW/g



0 dB = 0.328mW/g

PCTEST ENGINEERING LABORATORY, INC.

**DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 23.5 dBm**

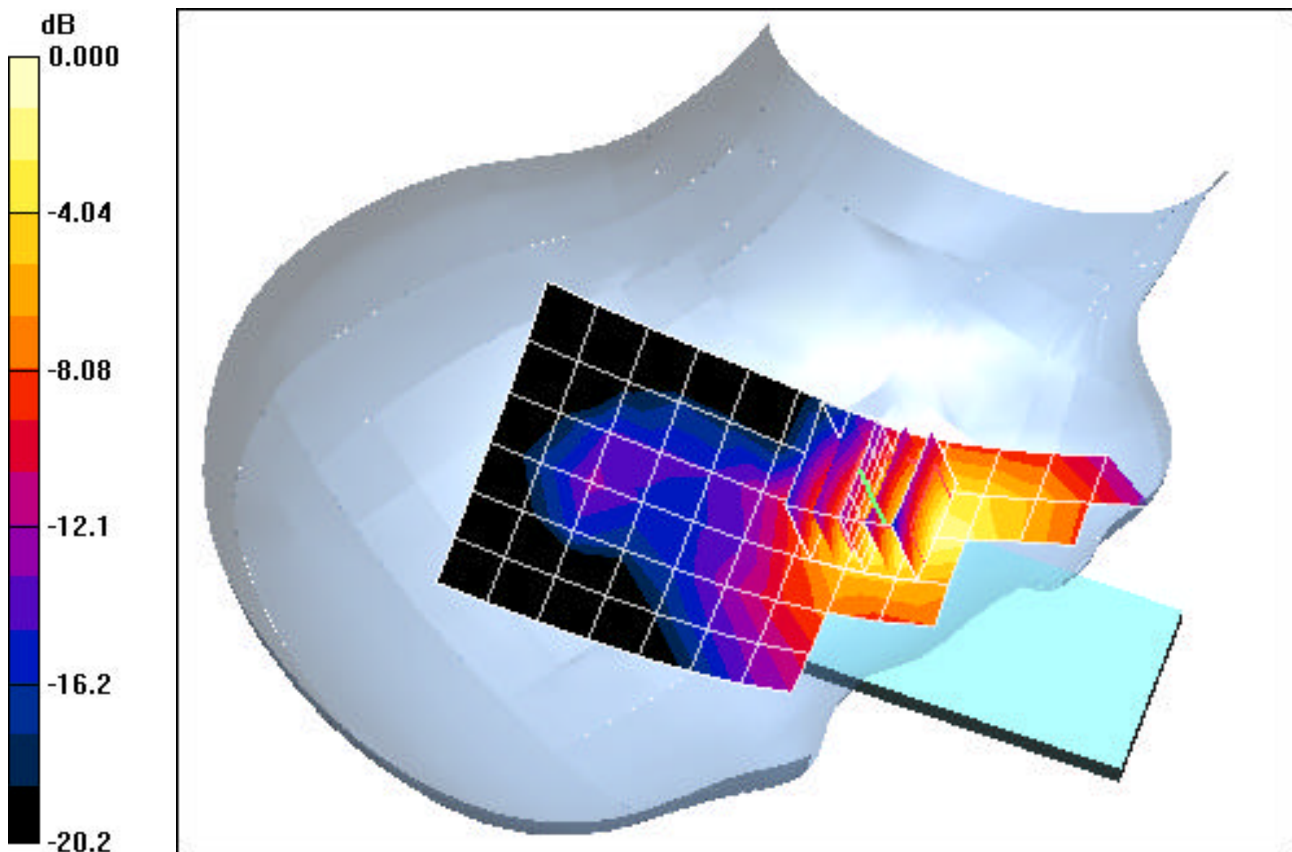
Communication System: PCS CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: 1900 Brain ($\sigma = 1.4$ mho/m, $\epsilon_r = 39.73$, $\rho = 1000$ kg/m³)
Phantom section: Right Section

Test Date: 08-29-2006; Ambient Temp: 23.2°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3589; ConvF(7.11, 7.11, 7.11); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

PCS Mode, Right Head, Touch, Ch.0025, Standard Battery, Antenna Internal

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.36 V/m
Peak SAR (extrapolated) = 1.80 W/kg
SAR(1 g) = 0.859 mW/g; SAR(10 g) = 0.472 mW/g



0 dB = 1.02mW/g

PCTEST ENGINEERING LABORATORY, INC.

**DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 23.5 dBm**

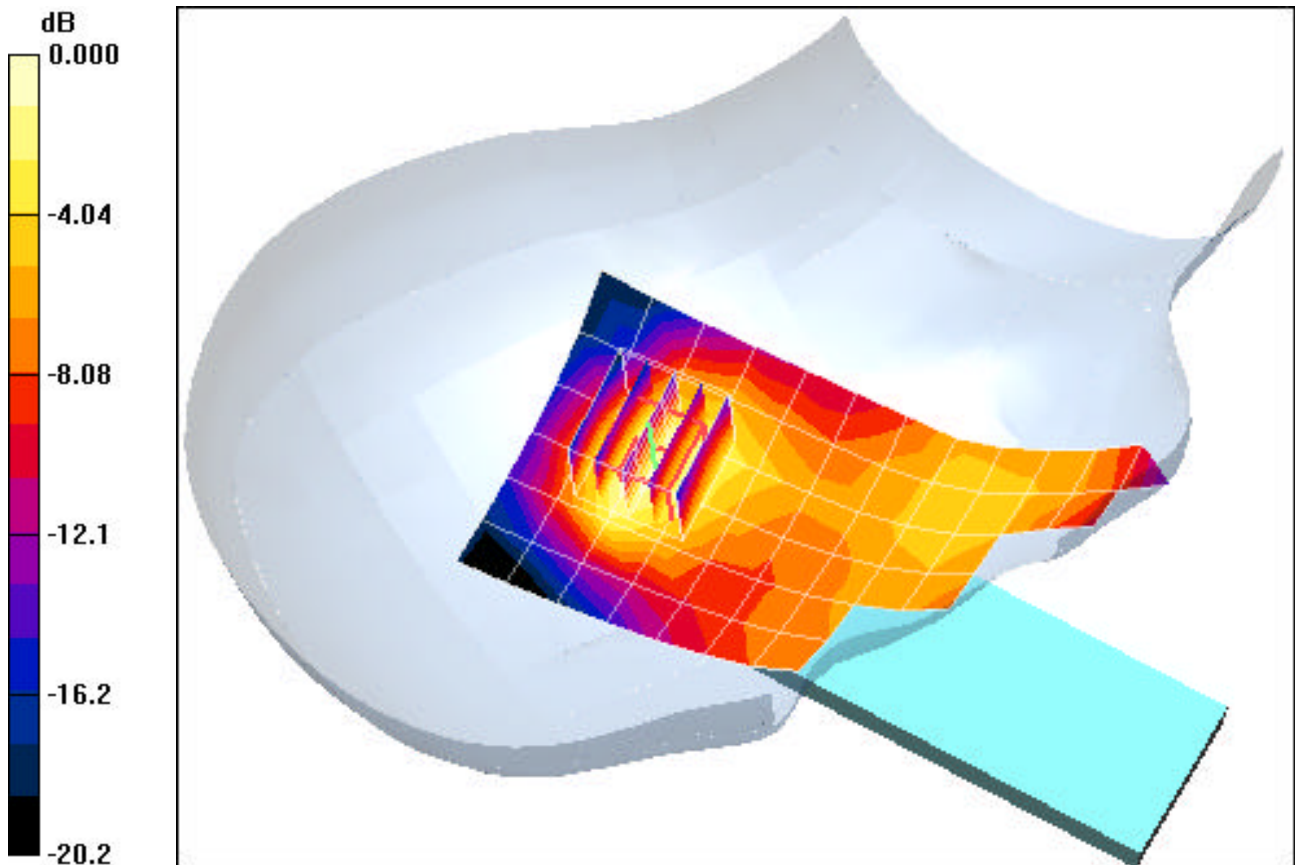
Communication System: PCS CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: 1900 Brain ($\sigma = 1.4$ mho/m, $\epsilon_r = 39.73$, $\rho = 1000$ kg/m³)
Phantom section: Right Section

Test Date: 08-29-2006; Ambient Temp: 23.2°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3589; ConvF(7.11, 7.11, 7.11); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

PCS Mode, Right Head, Tilt, Ch.0600, Standard Battery, Antenna Internal

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.4 V/m
Peak SAR (extrapolated) = 0.337 W/kg
SAR(1 g) = 0.204 mW/g; SAR(10 g) = 0.116 mW/g



0 dB = 0.245mW/g

PCTEST ENGINEERING LABORATORY, INC.

**DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 23.5 dBm**

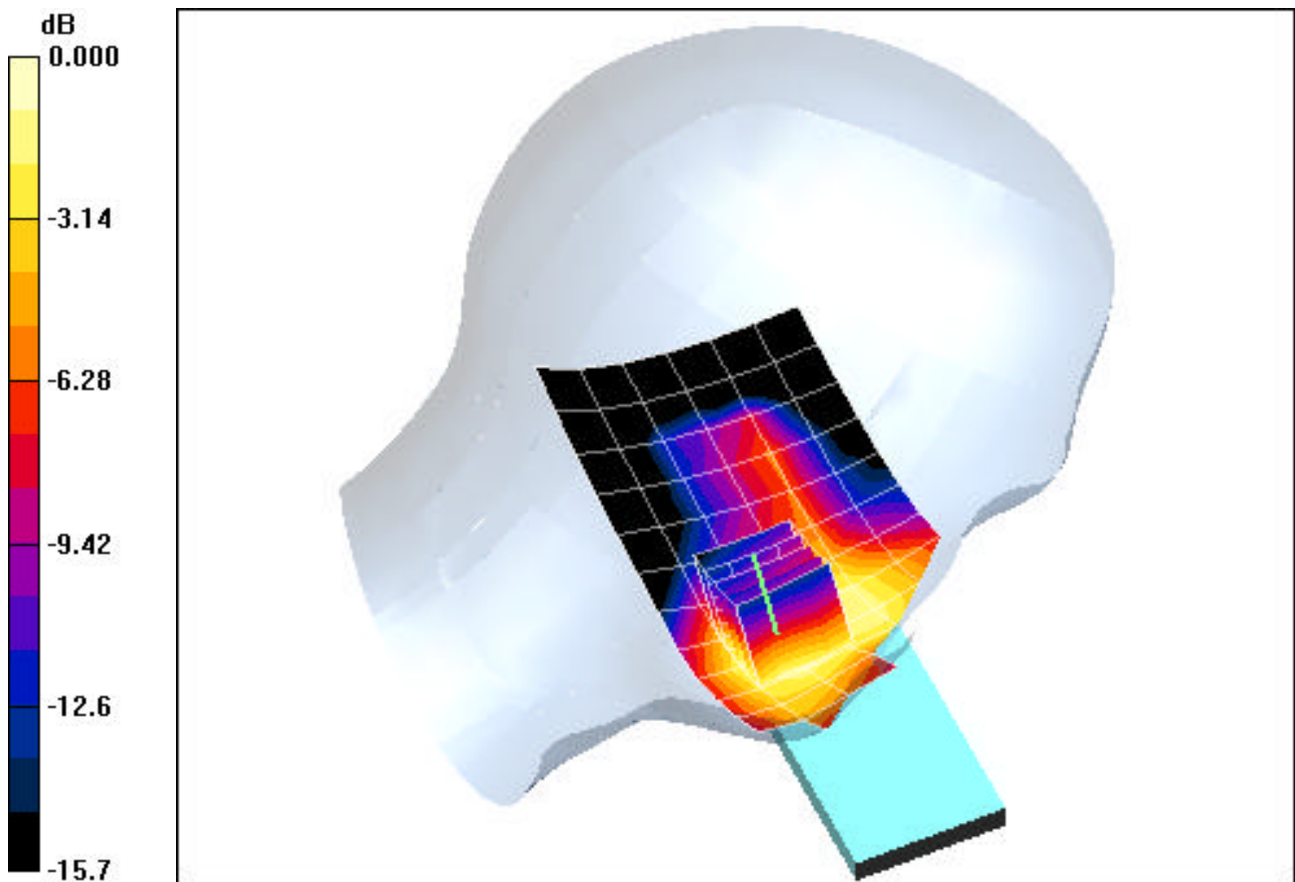
Communication System: PCS CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: 1900 Brain ($\sigma = 1.4$ mho/m, $\epsilon_r = 39.73$, $\rho = 1000$ kg/m³)
Phantom section: Left Section

Test Date: 08-29-2006; Ambient Temp: 23.2°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3589; ConvF(7.11, 7.11, 7.11); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

PCS Mode, Left Head, Touch, Ch.0600, Standard Battery, Antenna Internal

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.86 V/m
Peak SAR (extrapolated) = 0.896 W/kg
SAR(1 g) = 0.544 mW/g; SAR(10 g) = 0.330 mW/g



0 dB = 0.614mW/g

PCTEST ENGINEERING LABORATORY, INC.

**DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 23.5 dBm**

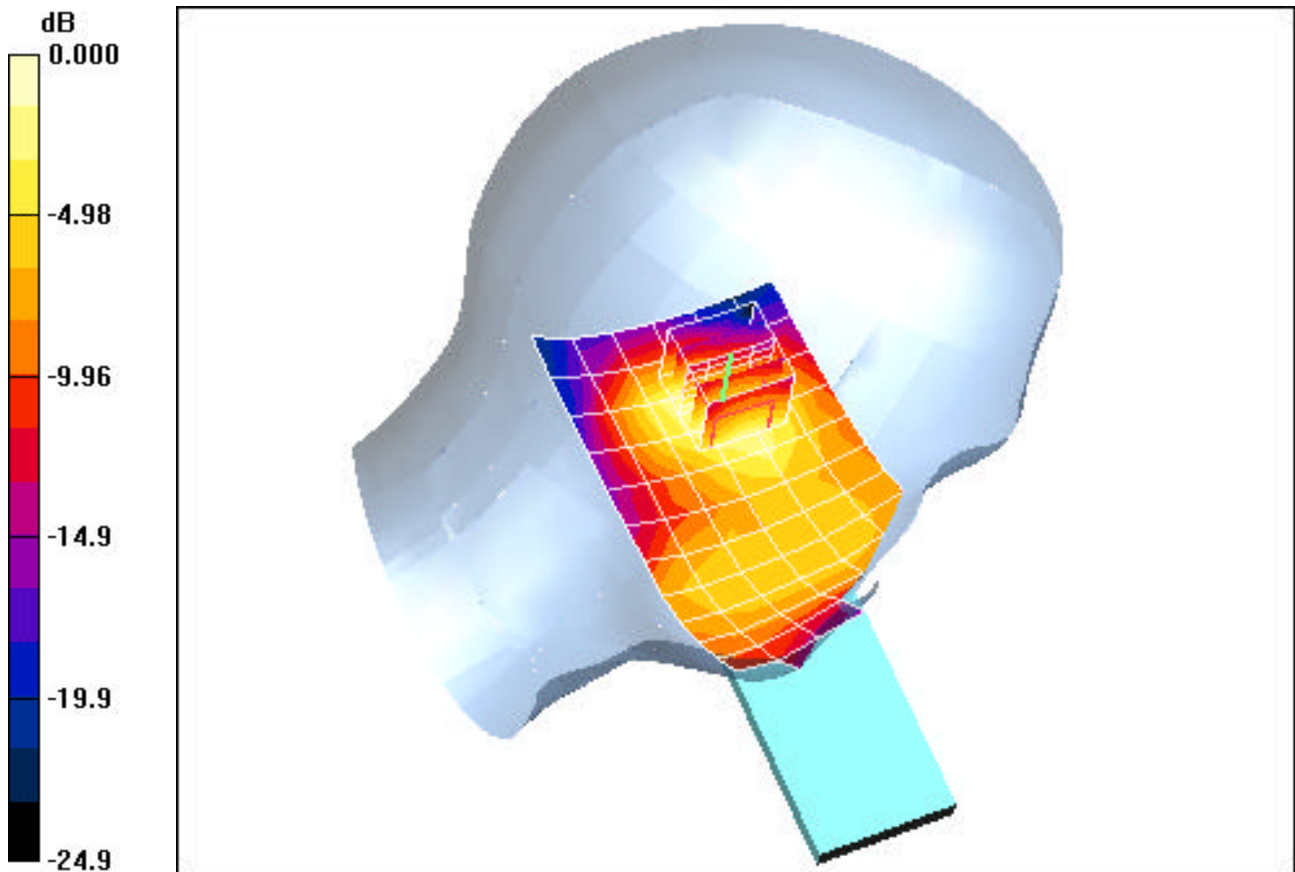
Communication System: PCS CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: 1900 Brain ($\sigma = 1.4$ mho/m, $\epsilon_r = 39.73$, $\rho = 1000$ kg/m³)
Phantom section: Left Section

Test Date: 08-29-2006; Ambient Temp: 23.2°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3589; ConvF(7.11, 7.11, 7.11); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

PCS Mode, Left Head, Tilt, Ch.0600, Standard Battery, Antenna Internal

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.1 V/m
Peak SAR (extrapolated) = 0.430 W/kg
SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.146 mW/g



0 dB = 0.299mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 24.5 dBm

Communication System: AMPS; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: 835 Muscle ($\sigma = 0.96$ mho/m, $\epsilon_r = 53.94$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section; Space: 2.2cm from DUT to Flat Phantom

Test Date: 08-30-2006; Ambient Temp: 23.3°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN3589; ConvF(8.15, 8.15, 8.15); Calibrated: 7/14/2006

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 9/13/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

AMPS Mode, Body SAR, No Beltclip, Ch.0600, Standard Battery, Antenna Internal

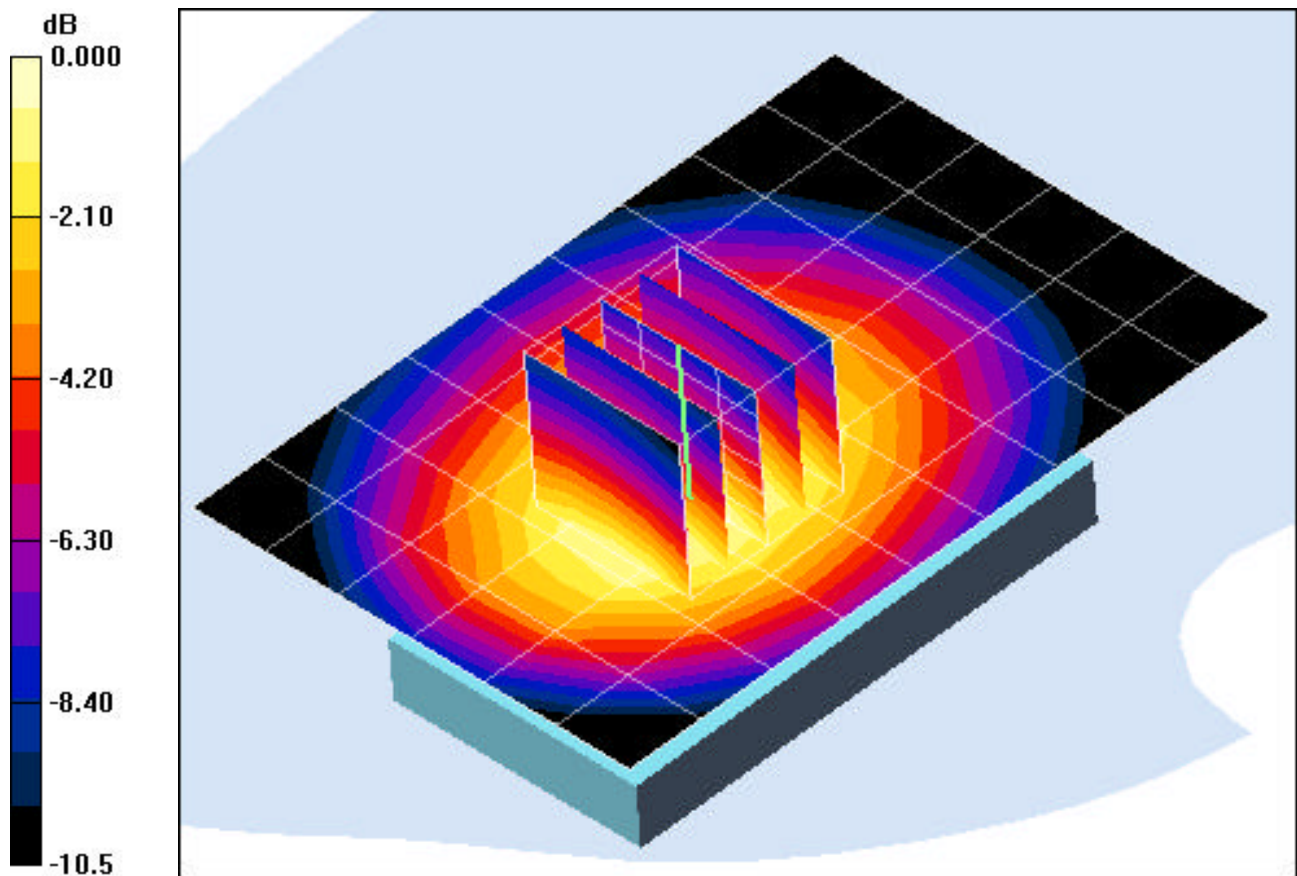
Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 16.0 V/m

Peak SAR (extrapolated) = 0.790 W/kg

SAR(1 g) = 0.579 mW/g; SAR(10 g) = 0.413 mW/g



0 dB = 0.650mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 24.0 dBm

Communication System: Cellular CDMA; Frequency: 836.49 MHz; Duty Cycle: 1:1
Medium: 835 Muscle ($\sigma = 0.96$ mho/m, $\epsilon_r = 53.94$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

Test Date: 08-30-2006; Ambient Temp: 23.3°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN3589; ConvF(8.15, 8.15, 8.15); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

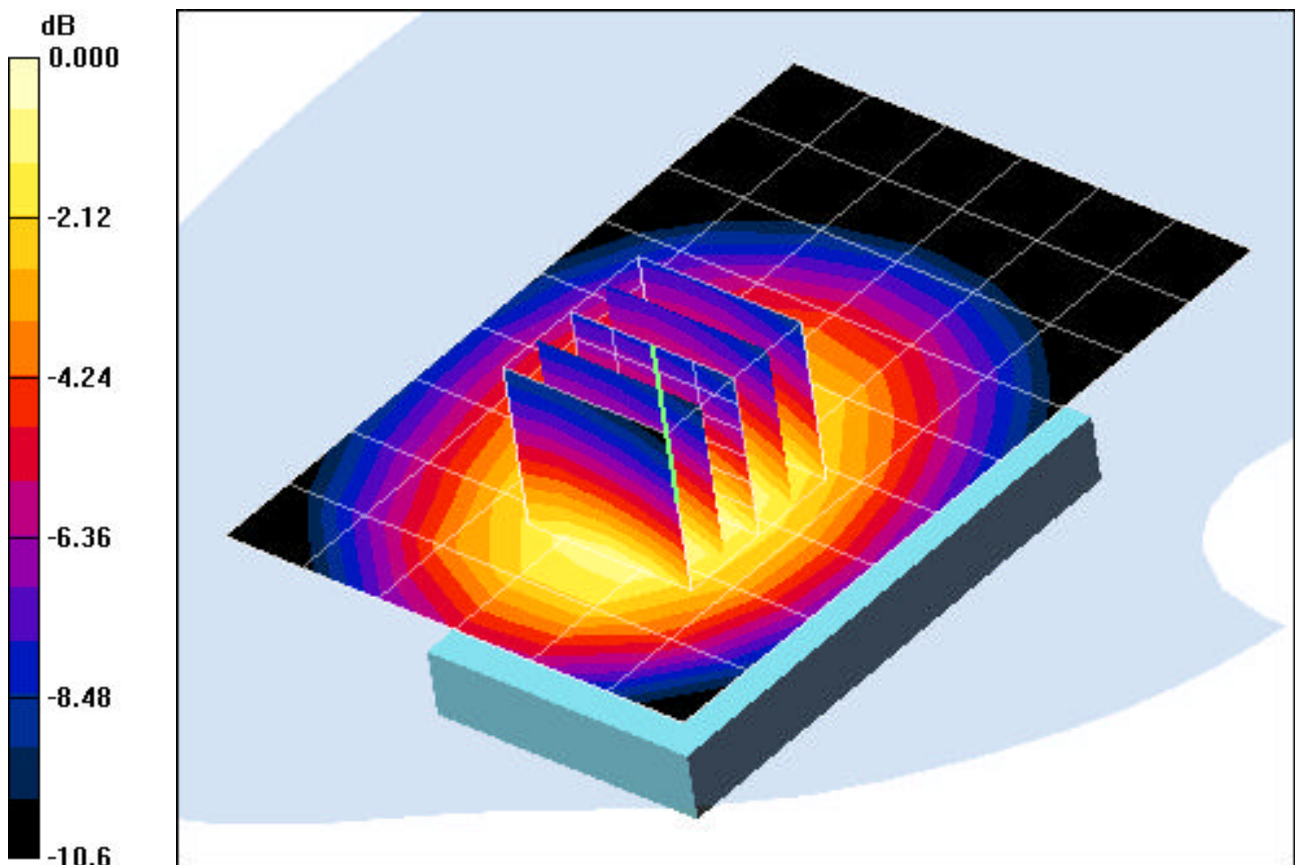
CDMA Mode, Body SAR, No Beltclip, Ch.0383, Standard Battery, Antenna Internal

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

Reference Value = 12.7 V/m

Peak SAR (extrapolated) = 0.722 W/kg

SAR(1 g) = 0.519 mW/g; SAR(10 g) = 0.368 mW/g



0 dB = 0.590mW/g

PCTEST ENGINEERING LABORATORY, INC.

**DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 23.5 dBm**

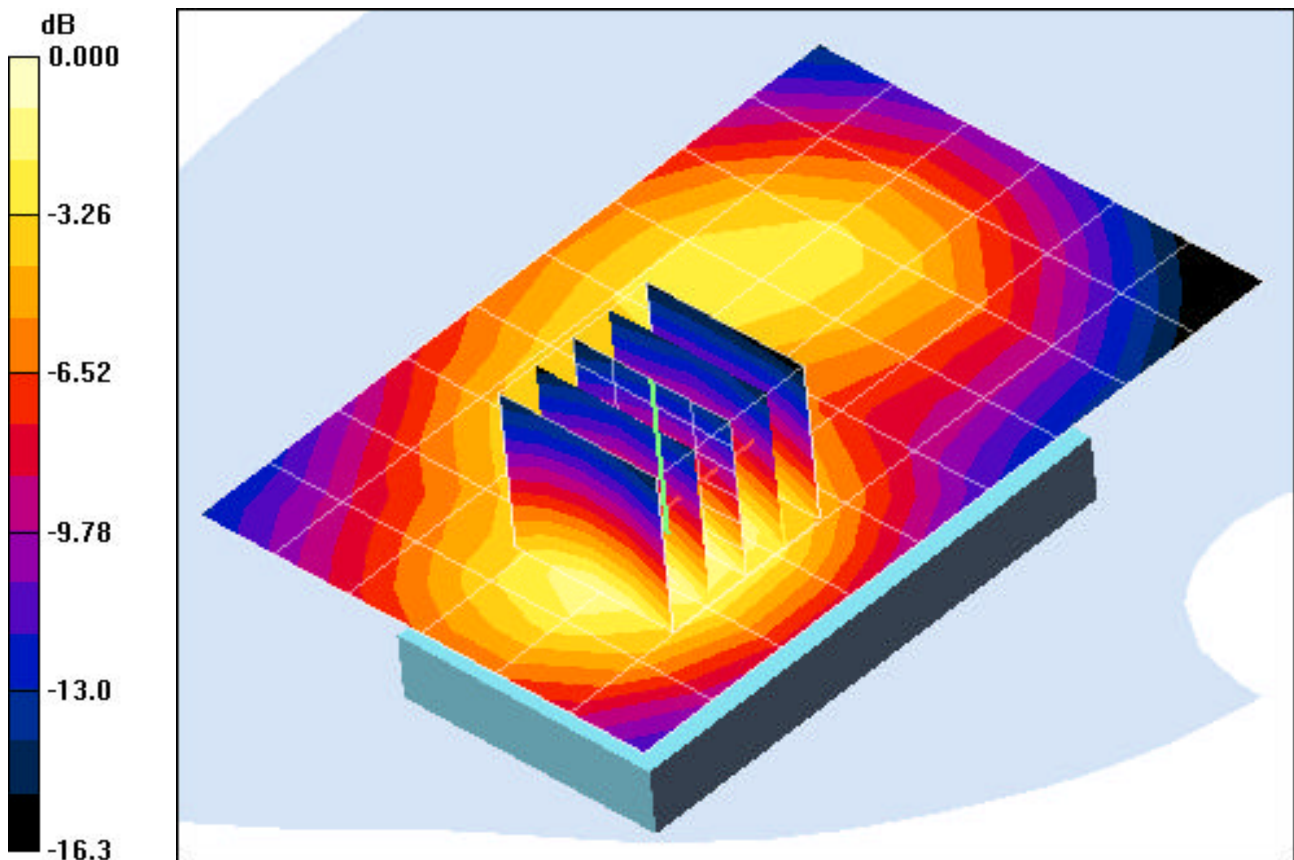
Communication System: PCS CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: 1900 Muscle ($\sigma = 1.58$ mho/m, $\epsilon_r = 54.71$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

Test Date: 08-30-2006; Ambient Temp: 23.3°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN3589; ConvF(6.64, 6.64, 6.64); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Sub; Type: SAM 4.0; Serial: TP:1357
Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

PCS Mode, Body SAR, No Beltclip, Ch.0600, Standard Battery, Antenna Internal

Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.1 V/m
Peak SAR (extrapolated) = 0.679 W/kg
SAR(1 g) = 0.423 mW/g; SAR(10 g) = 0.247 mW/g



0 dB = 0.510mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 24.5 dBm

Communication System: AMPS; Frequency: 824.04 MHz; Duty Cycle: 1:1
Medium: 835 Brain ($\sigma = 0.87$ mho/m, $\epsilon_r = 40.12$, $\rho = 1000$ kg/m³)
Phantom section: Right Section

Test Date: 08-28-2006; Ambient Temp: 23.4°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3589; ConvF(8.36, 8.36, 8.36); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

AMPS Mode, Right Head, Touch, Ch.0991, Standard Battery, Antenna Internal

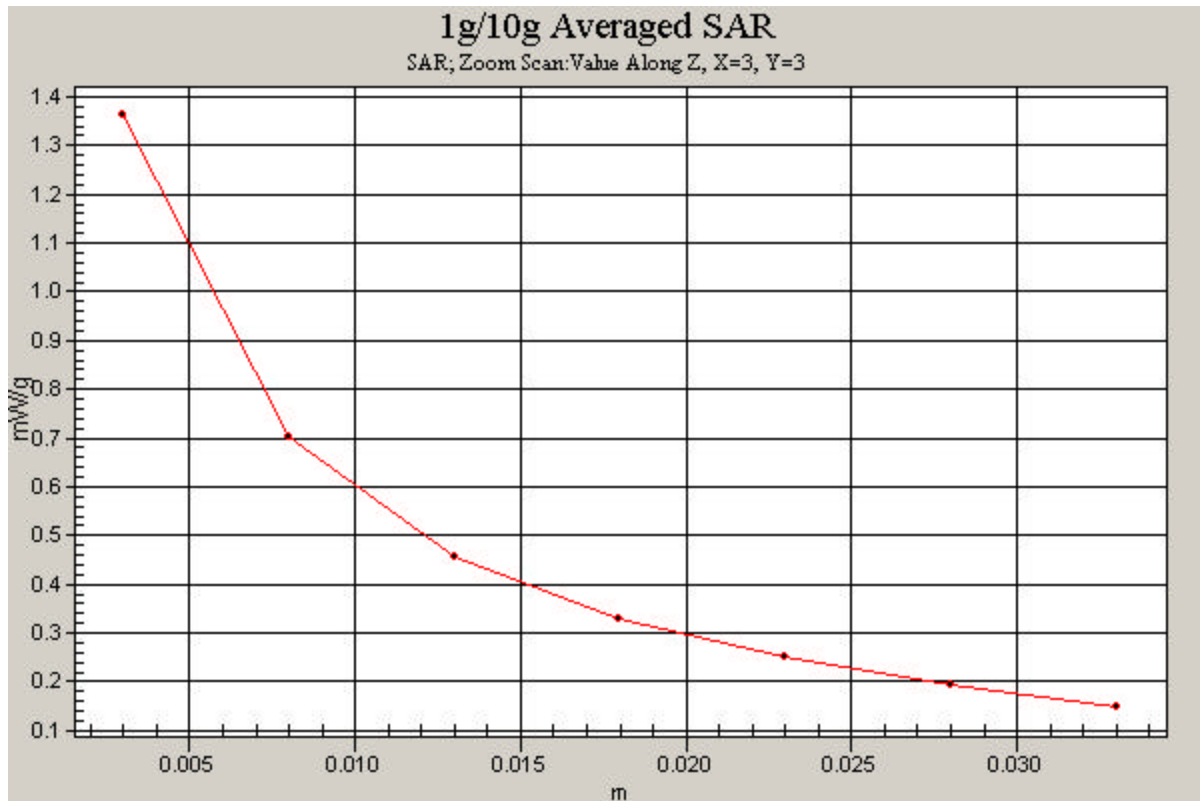
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 15.2 V/m

Peak SAR (extrapolated) = 2.21 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.680 mW/g



PCTEST ENGINEERING LABORATORY, INC.

**DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 23.5 dBm**

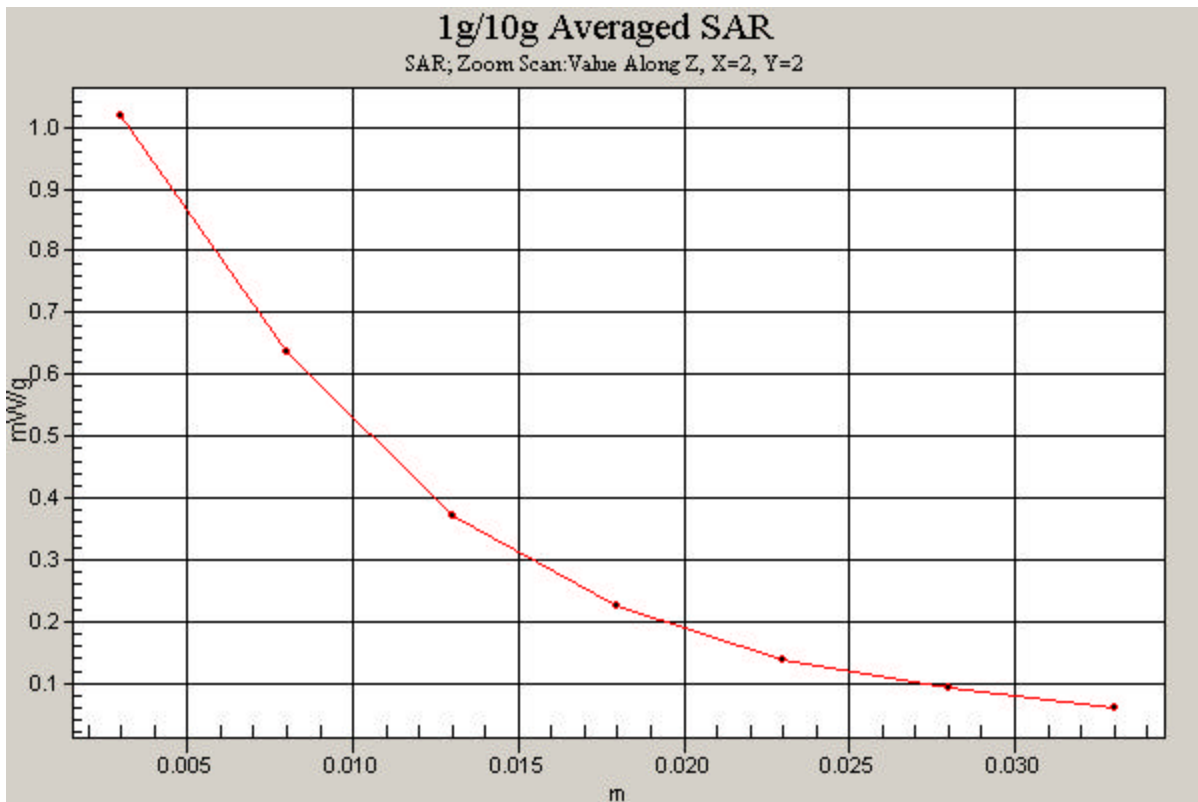
Communication System: PCS CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: 1900 Brain ($\sigma = 1.4$ mho/m, $\epsilon_r = 39.73$, $\rho = 1000$ kg/m³)
Phantom section: Right Section

Test Date: 08-29-2006; Ambient Temp: 23.2°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3589; ConvF(7.11, 7.11, 7.11); Calibrated: 7/14/2006
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn649; Calibrated: 9/13/2005
Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

PCS Mode, Right Head, Touch, Ch.0025, Standard Battery, Antenna Internal

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.36 V/m
Peak SAR (extrapolated) = 1.80 W/kg
SAR(1 g) = 0.859 mW/g; SAR(10 g) = 0.472 mW/g



PCTEST ENGINEERING LABORATORY, INC.

DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 24.5 dBm

Communication System: AMPS; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: 835 Muscle ($\sigma = 0.96$ mho/m, $\epsilon_r = 53.94$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section; Space: 2.2cm from DUT to Flat Phantom

Test Date: 08-30-2006; Ambient Temp: 23.3°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN3589; ConvF(8.15, 8.15, 8.15); Calibrated: 7/14/2006

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 9/13/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

AMPS Mode, Body SAR, No Beltclip, Ch.0600, Standard Battery, Antenna Internal

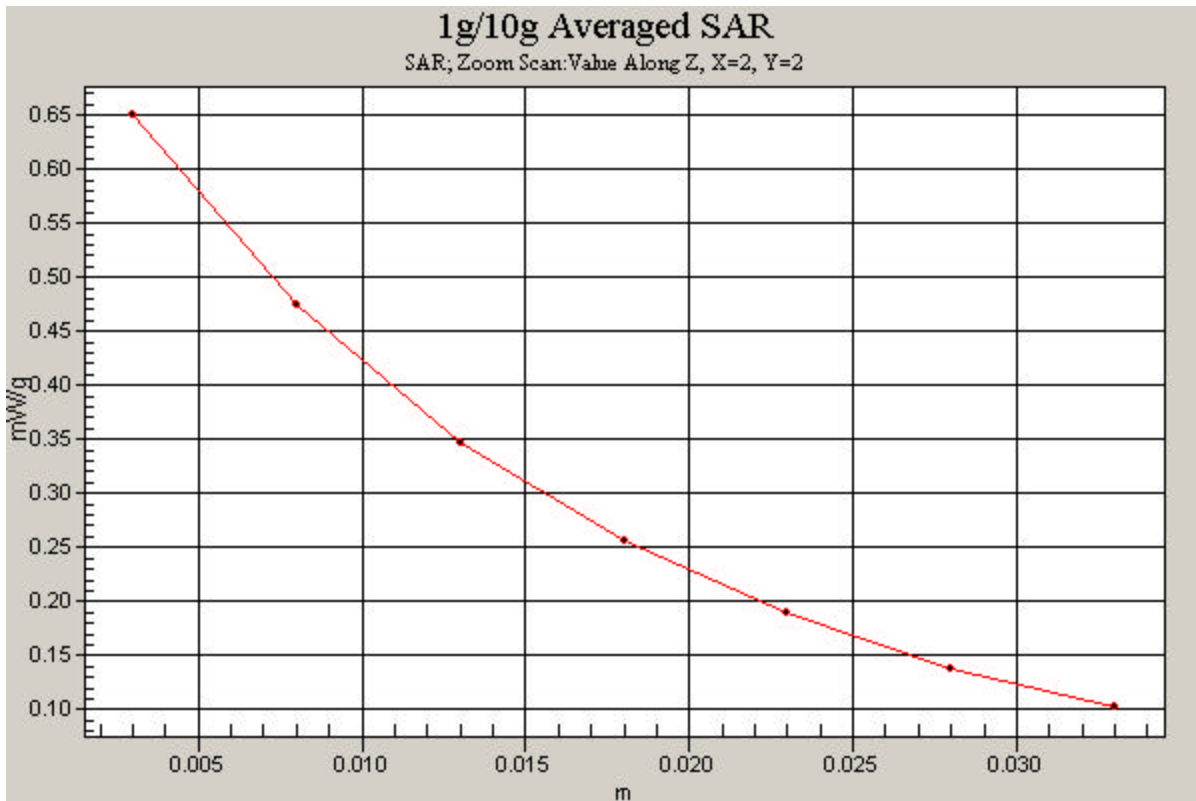
Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 16.0 V/m

Peak SAR (extrapolated) = 0.790 W/kg

SAR(1 g) = 0.579 mW/g; SAR(10 g) = 0.413 mW/g



PCTEST ENGINEERING LABORATORY, INC.

DUT: SANYO SCP-6600; Type: Tri Mode Phone + Bluetooth; Serial: FCC 1
Conducted Power: 23.5 dBm

Communication System: PCS CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Muscle ($\sigma = 1.58$ mho/m, $\epsilon_r = 54.71$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section; Space: 2.2cm from DUT to Flat Phantom

Test Date: 08-30-2006; Ambient Temp: 23.3°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN3589; ConvF(6.64, 6.64, 6.64); Calibrated: 7/14/2006

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 9/13/2005

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP:1357

Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

PCS Mode, Body SAR, No Beltclip, Ch.0600, Standard Battery, Antenna Internal

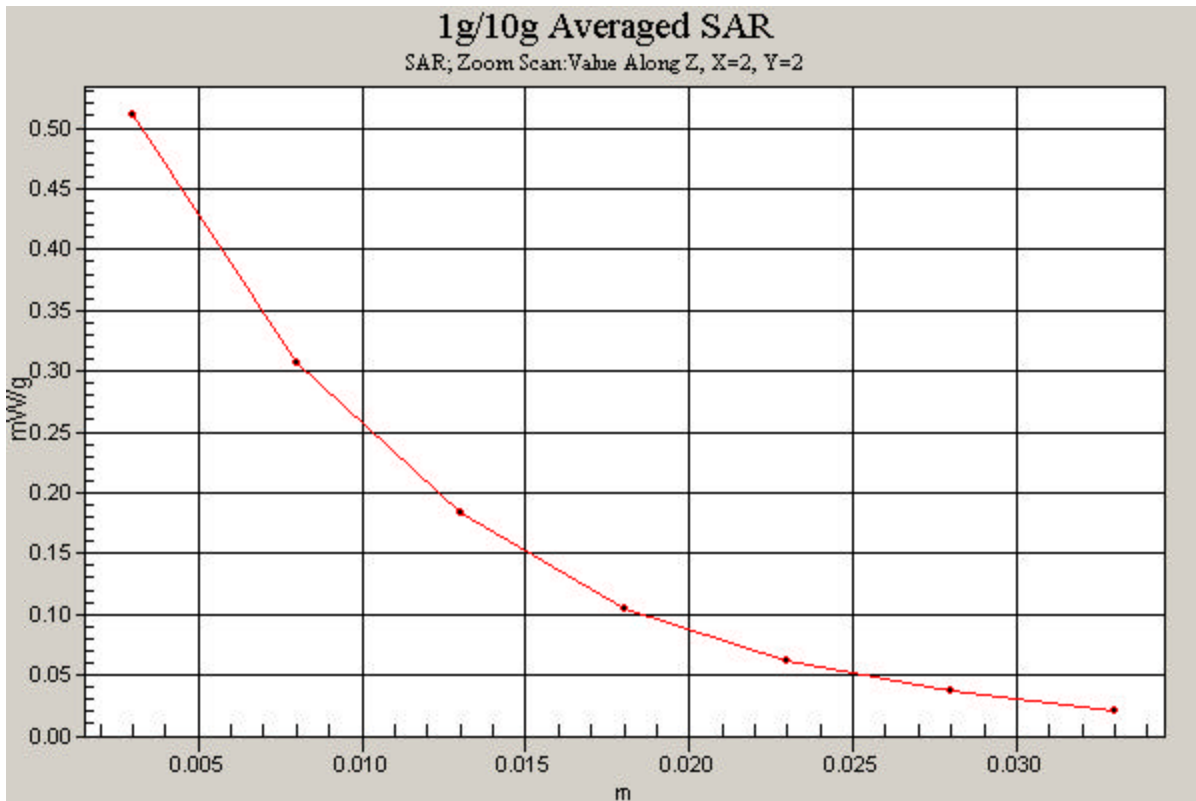
Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 12.1 V/m

Peak SAR (extrapolated) = 0.679 W/kg

SAR(1 g) = 0.423 mW/g; SAR(10 g) = 0.247 mW/g



APPENDIX B: DIPOLE VALIDATION

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 835 MHz; Type: D835V2; SN: 4d026

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.87$ mho/m, $\epsilon_r = 40.12$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Test Date: 08-28-2006; Ambient Temp: 23.4°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3589; ConvF(8.36, 8.36, 8.36); Calibrated: 7/14/2006

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 9/13/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

835MHz Dipole Validation

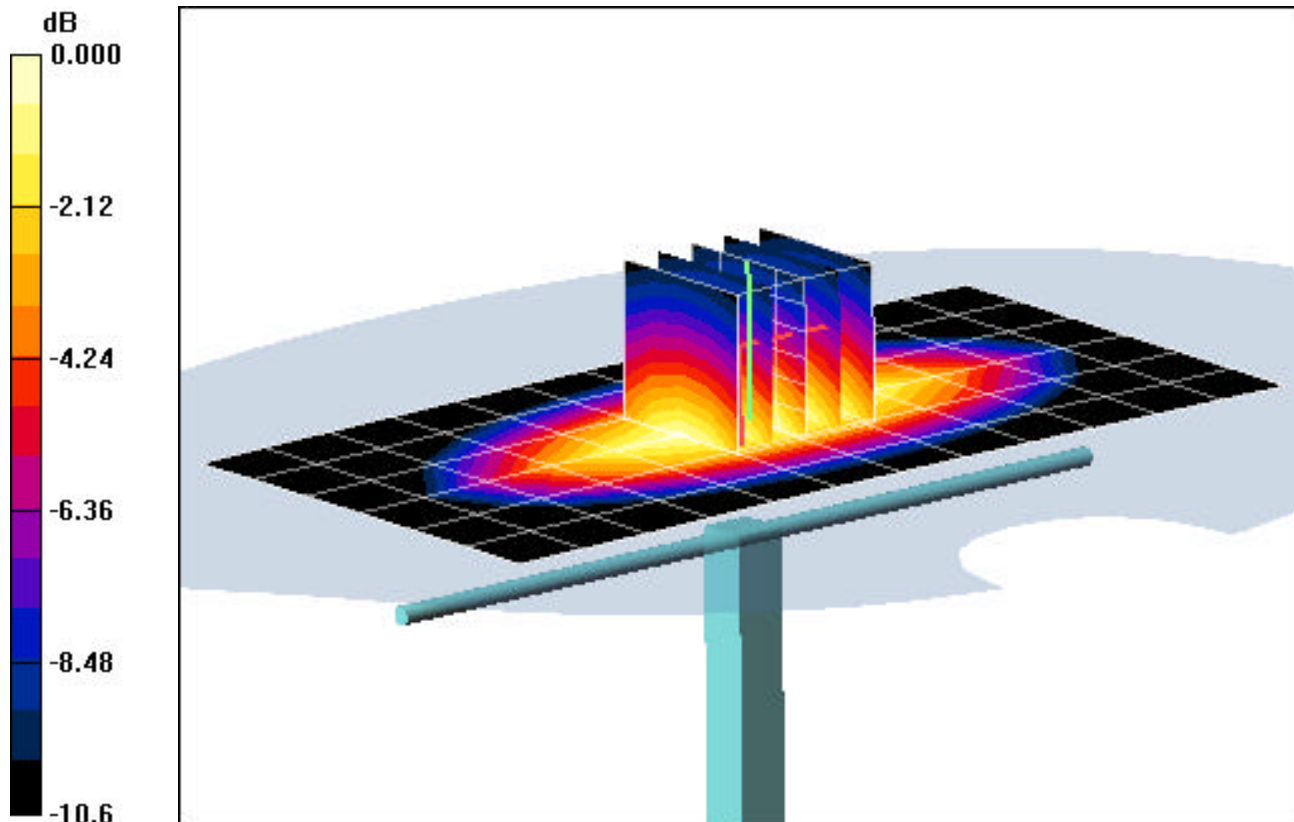
Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

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

Input Power = 24.0 dBm (250 mW)

SAR(1 g) = 2.53 mW/g; SAR(10 g) = 1.91 mW/g

Target SAR(1g) = 2.375 mW/g; Deviation = +6.52 %



0 dB = 3.12mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 835 MHz; Type: D835V2; SN: 4d026

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.87$ mho/m, $\epsilon_r = 40.12$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Test Date: 08-29-2006; Ambient Temp: 23.2°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3589; ConvF(8.36, 8.36, 8.36); Calibrated: 7/14/2006

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 9/13/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

835MHz Dipole Validation

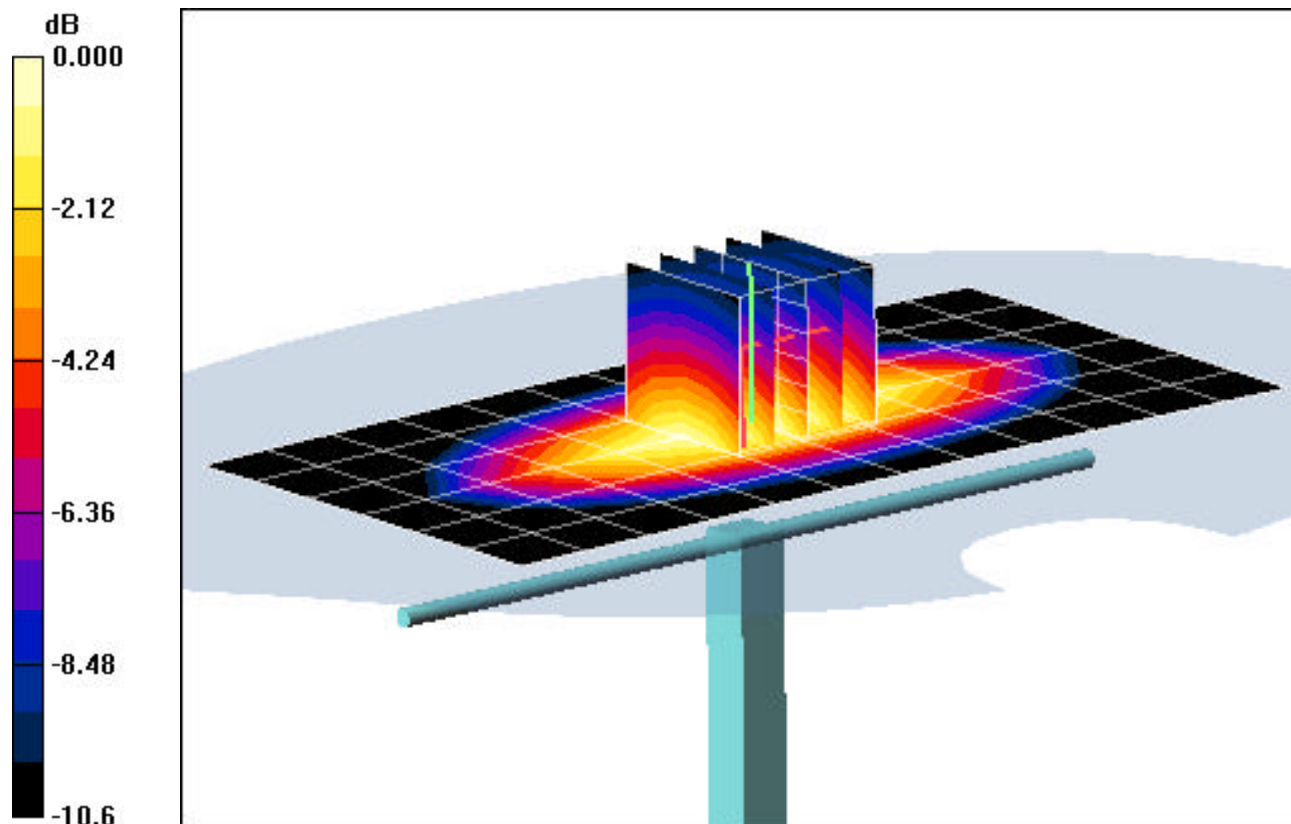
Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

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

Input Power = 24.0 dBm (250 mW)

SAR(1 g) = 2.49 mW/g; SAR(10 g) = 1.87 mW/g

Target SAR(1g) = 2.375 mW/g; Deviation = + 4.84 %



0 dB = 2.96mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 835 MHz; Type: D835V2; SN: 4d026

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.87$ mho/m, $\epsilon_r = 40.12$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Test Date: 08-30-2006; Ambient Temp: 23.3°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN3589; ConvF(8.36, 8.36, 8.36); Calibrated: 7/14/2006

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 9/13/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

835MHz Dipole Validation

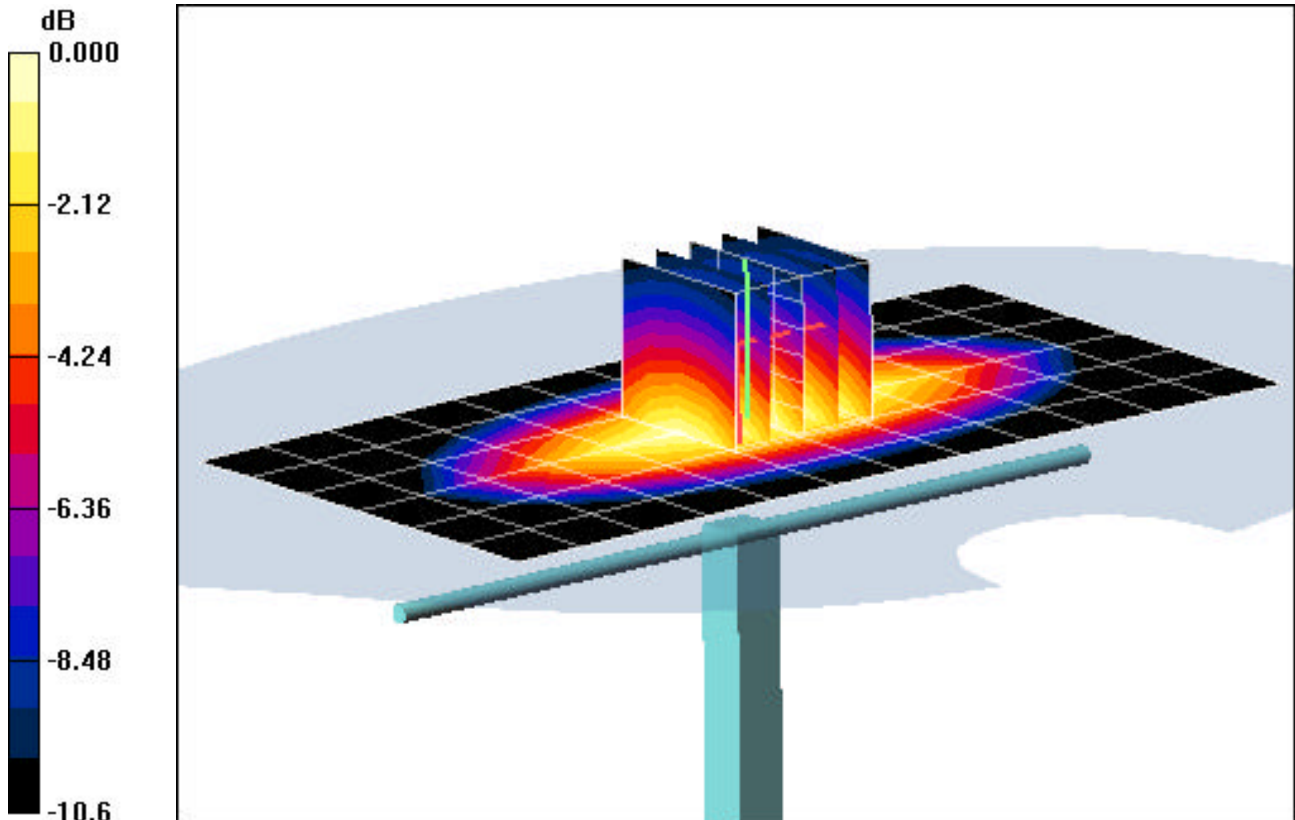
Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

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

Input Power = 24.0 dBm (250 mW)

SAR(1 g) = 2.51 mW/g; SAR(10 g) = 1.93 mW/g

Target SAR(1g) = 2.375 mW/g; Deviation = + 5.68 %



0 dB = 3.08mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 1900 MHz; Type: D1900V2; SN: 502

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ($\sigma = 1.4$ mho/m, $\epsilon_r = 39.73$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Test Date: 08-29-2006; Ambient Temp: 23.2°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3589; ConvF(7.11, 7.11, 7.11); Calibrated: 7/14/2006

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 9/13/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

1900MHz Dipole Validation

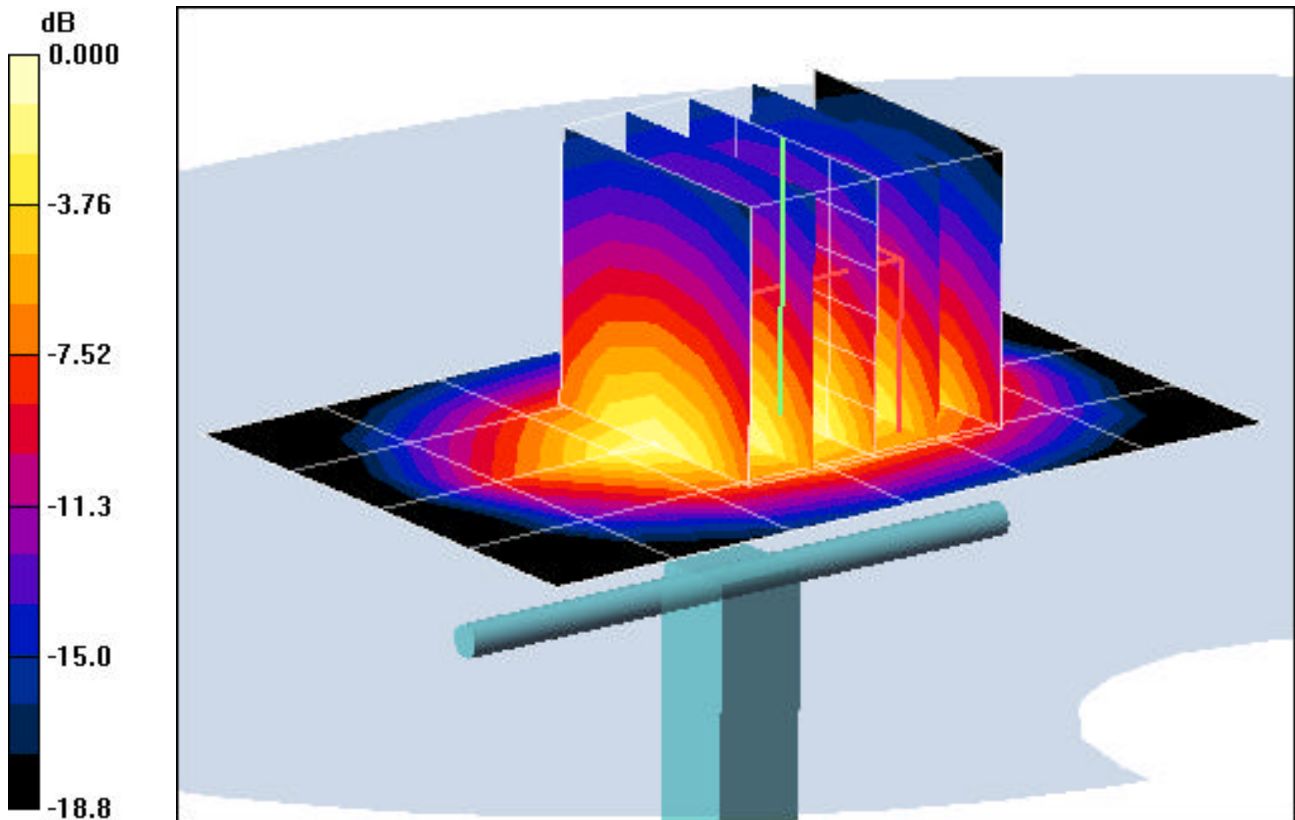
Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

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

Input Power = 20.0 dBm (100 mW)

SAR(1 g) = 3.83 mW/g; SAR(10 g) = 2.17 mW/g

Target SAR(1g) = 3.97 mW/g; Deviation = - 3.52 %



0 dB = 5.19mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 1900 MHz; Type: D1900V2; SN: 502

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ($\sigma = 1.4$ mho/m, $\epsilon_r = 39.73$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Test Date: 08-30-2006; Ambient Temp: 23.3°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN3589; ConvF(7.11, 7.11, 7.11); Calibrated: 7/14/2006

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 9/13/2005

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP:1357

Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

1900MHz Dipole Validation

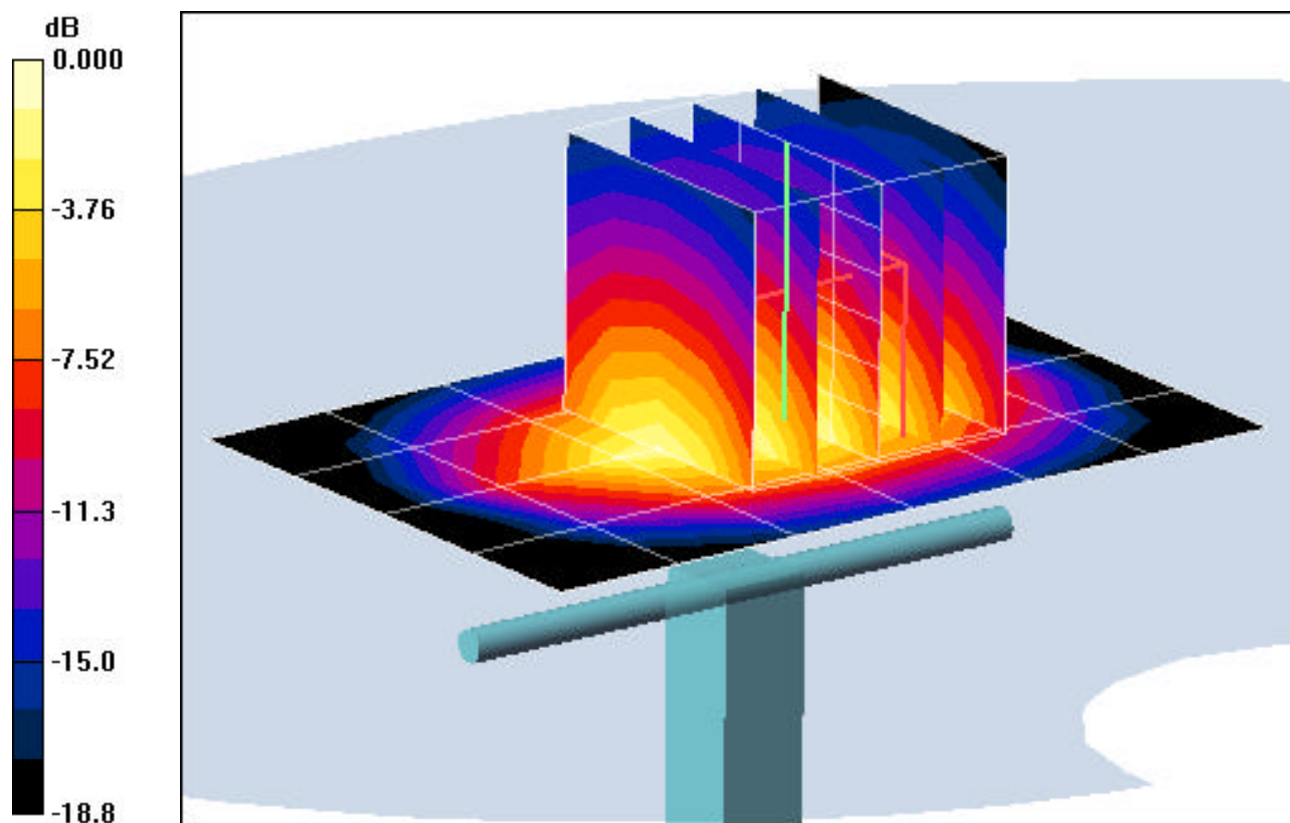
Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

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

Input Power = 20.0 dBm (100 mW)

SAR(1 g) = 3.88 mW/g; SAR(10 g) = 2.23 mW/g

Target SAR(1g) = 3.97 mW/g; Deviation = + 4.53 %



0 dB = 5.26mW/g

APPENDIX C: PROBE CALIBRATION



Accredited by the Swiss Federal Office of Metrology and Accreditation
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **PC Test**

Certificate No: **EX3-3589_Jul06**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3589**

Calibration procedure(s) **QA CAL-01.v5 and QA CAL-14.v3
Calibration procedure for dosimetric E-field probes**

Calibration date: **July 14, 2006**

Condition of the calibrated item **In Tolerance**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	5-Apr-06 (METAS, No. 251-00557)	Apr-07
Power sensor E4412A	MY41495277	5-Apr-06 (METAS, No. 251-00557)	Apr-07
Power sensor E4412A	MY41498087	5-Apr-06 (METAS, No. 251-00557)	Apr-07
Reference 3 dB Attenuator	SN: S5054 (3c)	11-Aug-05 (METAS, No. 251-00499)	Aug-06
Reference 20 dB Attenuator	SN: S5086 (20b)	4-Apr-06 (METAS, No. 251-00558)	Apr-07
Reference 30 dB Attenuator	SN: S5129 (30b)	11-Aug-05 (METAS, No. 251-00500)	Aug-06
Reference Probe ES3DV2	SN: 3013	2-Jan-06 (SPEAG, No. ES3-3013_Jan06)	Jan-07
DAE4	SN: 654	21-Jun-06 (SPEAG, No. DAE4-654_Jun06)	Jun-07

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (SPEAG, in house check Nov-05)	In house check: Nov-07
Network Analyzer HP 8753E	US37390585	18-Oct-01 (SPEAG, in house check Nov-05)	In house check: Nov 06

	Name	Function	Signature
Calibrated by:	Katja Pokovic	Technical Manager	
Approved by:	Niels Kuster	Quality Manager	

Issued: July 17, 2006

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Federal Office of Metrology and Accreditation
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not effect the E^2 -field uncertainty inside TSL (see below *ConvF*).
- NORM(f)_{x,y,z}** = NORM_{x,y,z} * *frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * *ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

Probe EX3DV4

SN:3589

Manufactured:	March 30, 2006
Calibrated:	July 14, 2006

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

DASY - Parameters of Probe: EX3DV4 SN:3589

Sensitivity in Free Space^A

NormX	0.460 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP X	90 mV
NormY	0.400 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Y	90 mV
NormZ	0.370 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Z	90 mV

Diode Compression^B

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL **835 MHz** **Typical SAR gradient: 5 % per mm**

Sensor Center to Phantom Surface Distance		3.7 mm	4.7 mm
SAR _{be} [%]	Without Correction Algorithm	4.5	1.6
SAR _{be} [%]	With Correction Algorithm	0.3	0.5

TSL **1900 MHz** **Typical SAR gradient: 10 % per mm**

Sensor Center to Phantom Surface Distance		3.7 mm	4.7 mm
SAR _{be} [%]	Without Correction Algorithm	2.5	1.0
SAR _{be} [%]	With Correction Algorithm	0.2	0.4

Sensor Offset

Probe Tip to Sensor Center **1.0 mm**

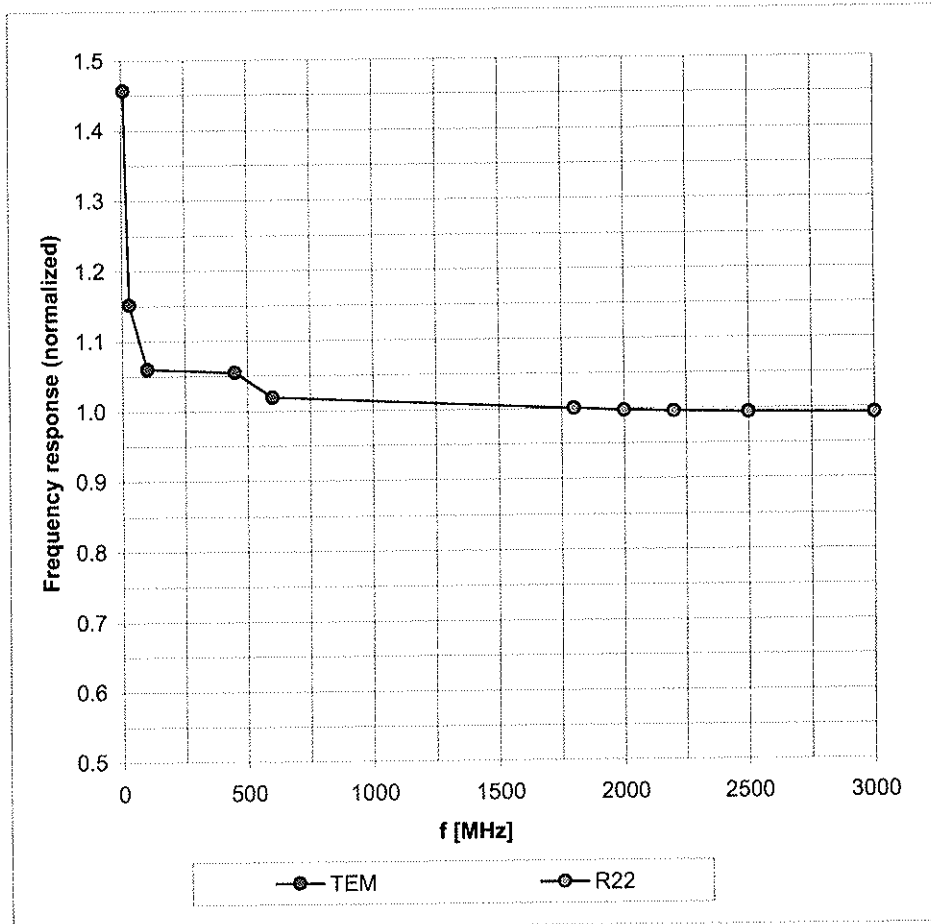
The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 8).

^B Numerical linearization parameter: uncertainty not required.

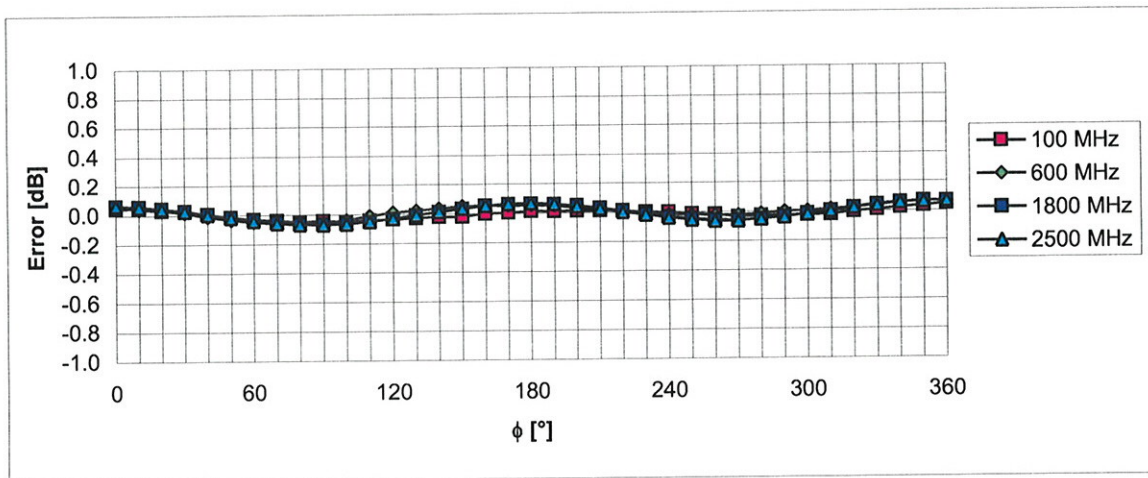
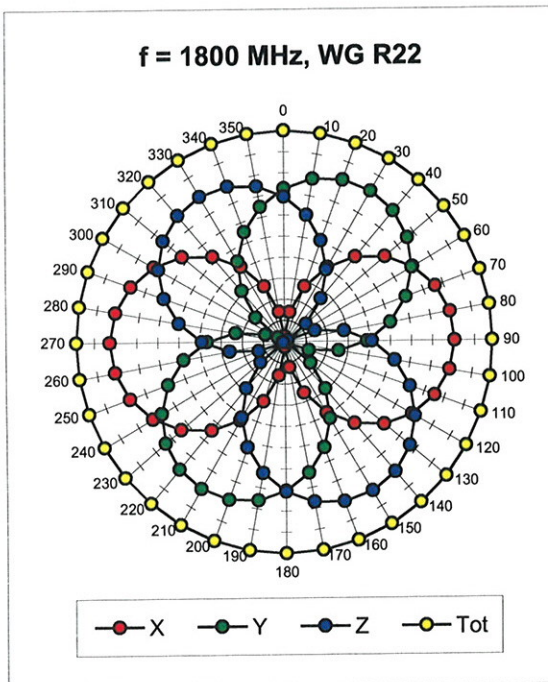
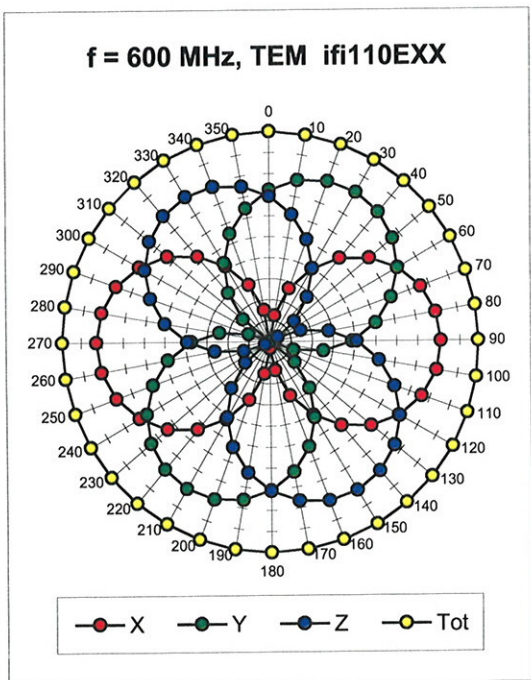
Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



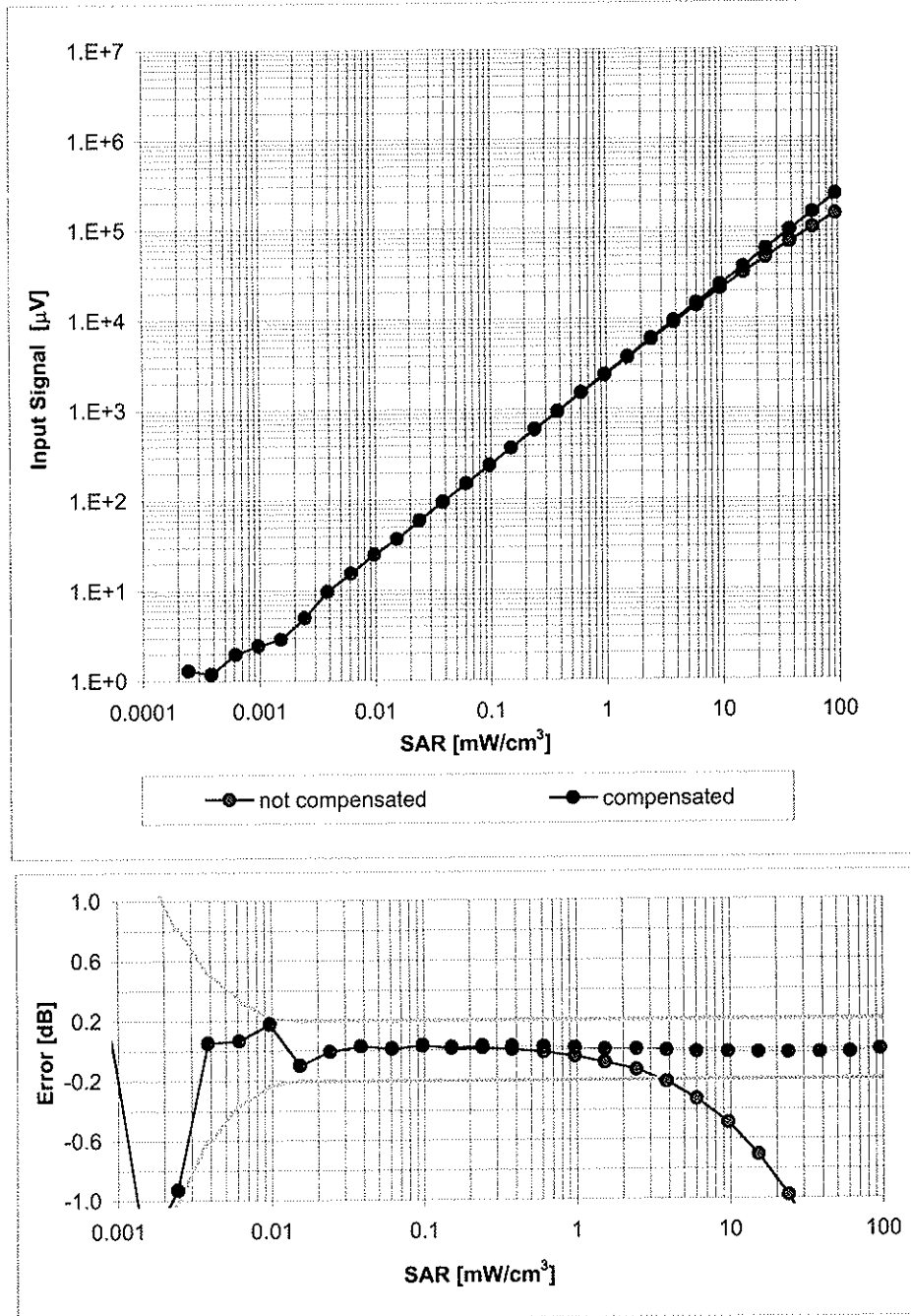
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

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



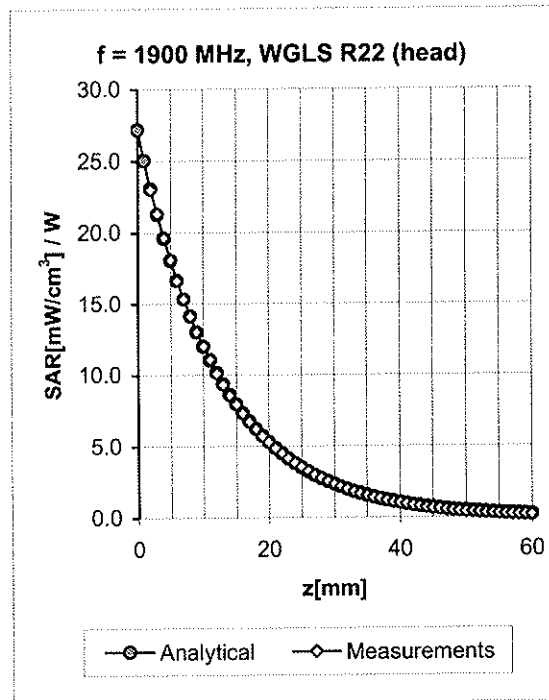
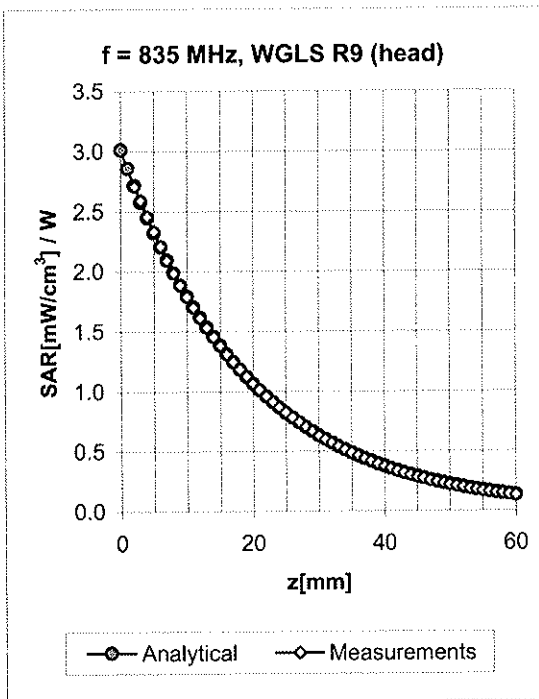
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Dynamic Range f(SAR_{head}) (Waveguide R22, f = 1800 MHz)



Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment

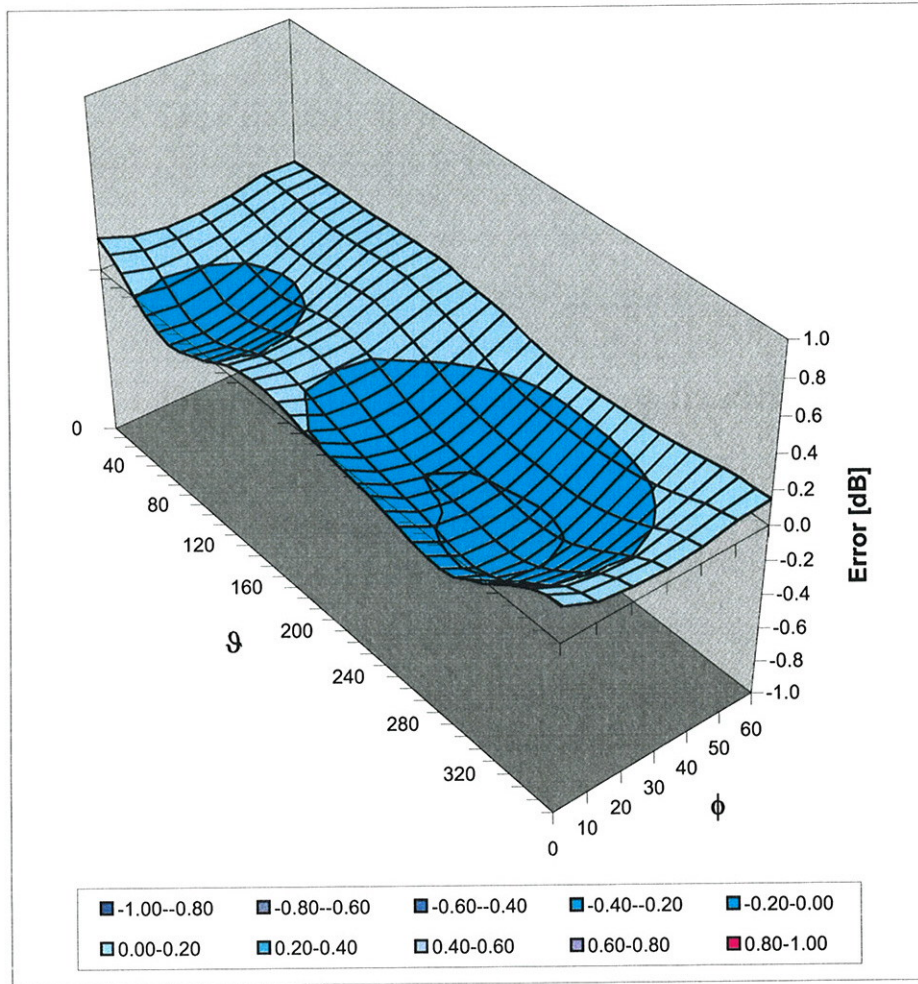


f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
835	± 50 / ± 100	Head	41.5 ± 5%	0.90 ± 5%	0.84	0.69	8.36 ± 11.0% (k=2)
1900	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.45	0.74	7.11 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.60	0.75	6.27 ± 11.8% (k=2)
5200	± 50 / ± 100	Head	36.0 ± 5%	4.66 ± 5%	0.45	1.80	4.45 ± 13.1% (k=2)
5800	± 50 / ± 100	Head	35.3 ± 5%	5.27 ± 5%	0.45	1.80	4.05 ± 13.1% (k=2)
835	± 50 / ± 100	Body	55.2 ± 5%	0.97 ± 5%	0.92	0.62	8.15 ± 11.0% (k=2)
1900	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.20	1.13	6.64 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.65	0.75	6.37 ± 11.8% (k=2)
5200	± 50 / ± 100	Body	49.0 ± 5%	5.30 ± 5%	0.47	1.70	4.08 ± 13.1% (k=2)
5800	± 50 / ± 100	Body	48.2 ± 5%	6.00 ± 5%	0.45	1.70	3.86 ± 13.1% (k=2)

^c The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

Deviation from Isotropy in HSL

Error (ϕ , ϑ), $f = 900$ MHz



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)