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APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

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Date/Time: 22/01/2007 2:45:48 PM

Test Laboratory: RTS

DipoleValidation_835MHz_Amb_Tem_24_0_Liq_Tem_22_6_deg_cel

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.918 \text{ mho/m}$; $\epsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.42, 6.42, 6.42); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 107.8 V/m; Power Drift = 0.002 dB

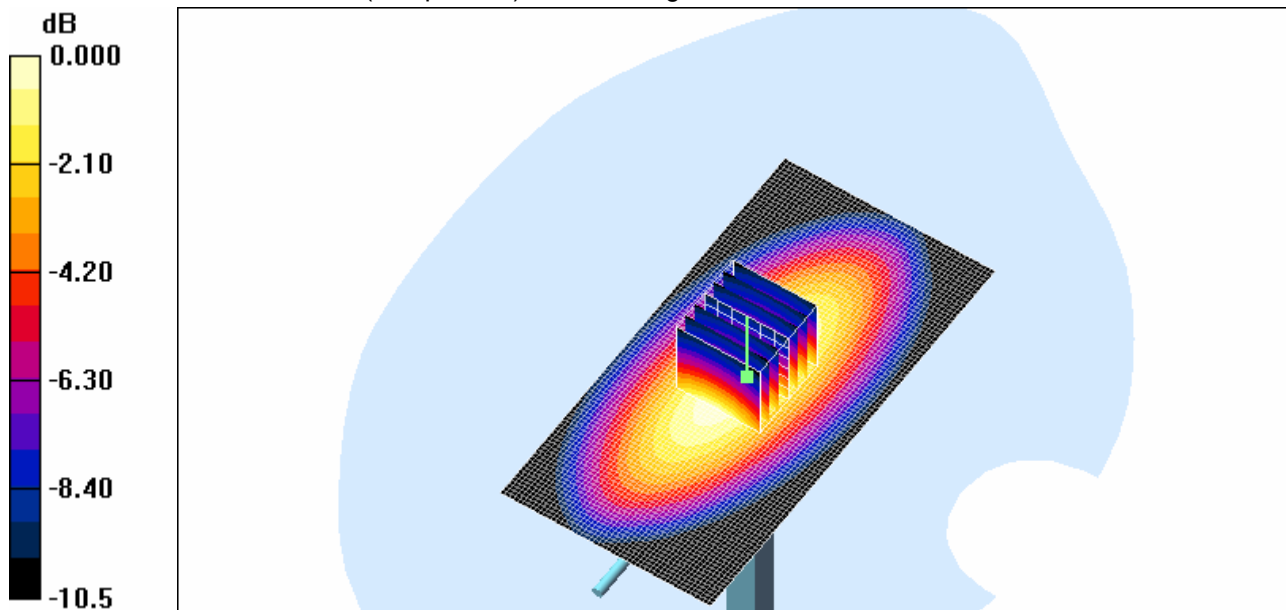
Peak SAR (extrapolated) = 13.9 W/kg

SAR(1 g) = 9.32 mW/g; SAR(10 g) = 6.08 mW/g

Maximum value of SAR (measured) = 10.0 mW/g

d=15mm, Pin=1000mW/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 10.0 mW/g



0 dB = 10.0mW/g

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Test Laboratory: RTS

DipoleValidation_835MHz_Amb_Tem_24_8_Liq_Tem_23_3_deg_cel

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.918 \text{ mho/m}$; $\epsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.42, 6.42, 6.42); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 108.3 V/m; Power Drift = -0.120 dB

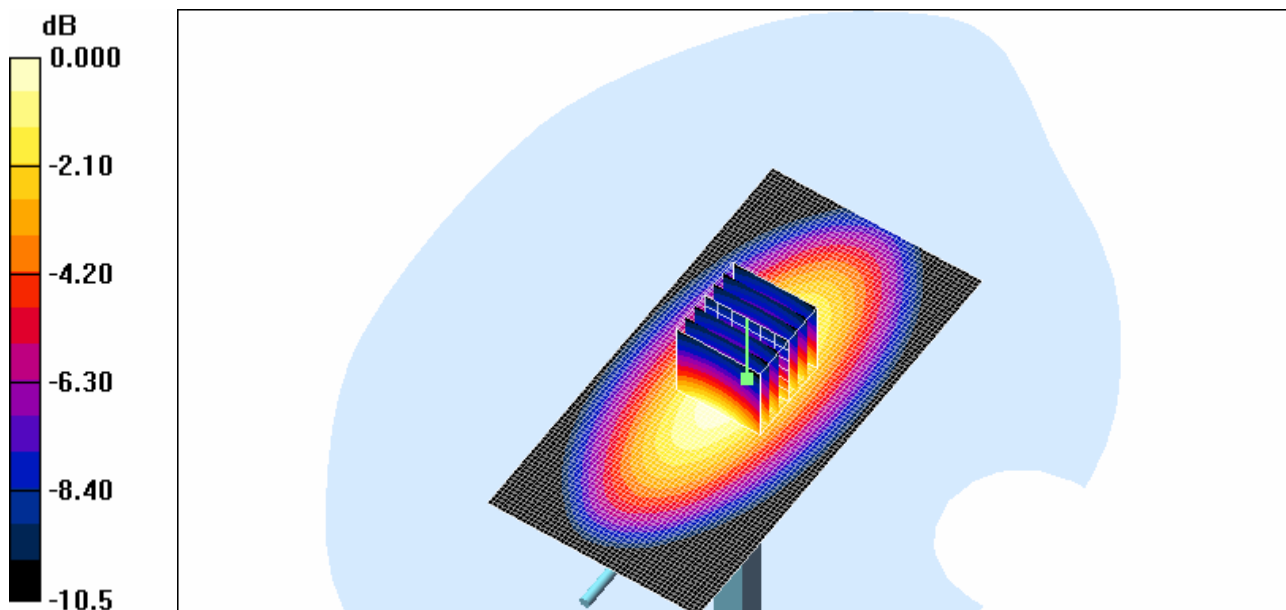
Peak SAR (extrapolated) = 14.1 W/kg

SAR(1 g) = 9.29 mW/g; SAR(10 g) = 6.04 mW/g

Maximum value of SAR (measured) = 10.1 mW/g

d=15mm, Pin=1000mW/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 10.1 mW/g



0 dB = 10.1mW/g

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Date/Time: 17/01/2007 9:22:04 AM

Test Laboratory: RTS

DipoleValidation_1900MHz_Amb_Tem_24.5_Liq_Tem_22_8_deg_cel

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

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

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.18, 5.18, 5.18); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 186.1 V/m; Power Drift = -0.004 dB

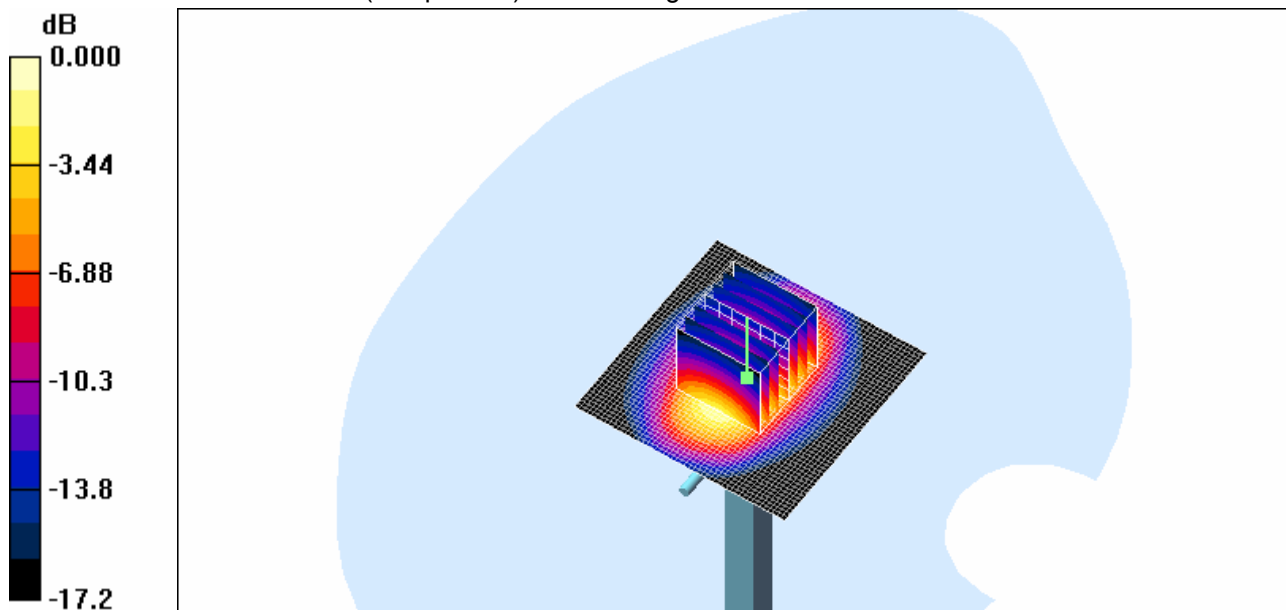
Peak SAR (extrapolated) = 69.3 W/kg

SAR(1 g) = 39.1 mW/g; SAR(10 g) = 20.6 mW/g

Maximum value of SAR (measured) = 44.6 mW/g

d=15mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 53.6 mW/g



0 dB = 44.6mW/g

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Date/Time: 18/01/2007 12:31:16 PM

Test Laboratory: RTS

DipoleValidation_1900MHz_Amb_Tem_24.5_Liq_Tem_22_8_deg_cel_01_18_07

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.18, 5.18, 5.18); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 185.0 V/m; Power Drift = -0.011 dB

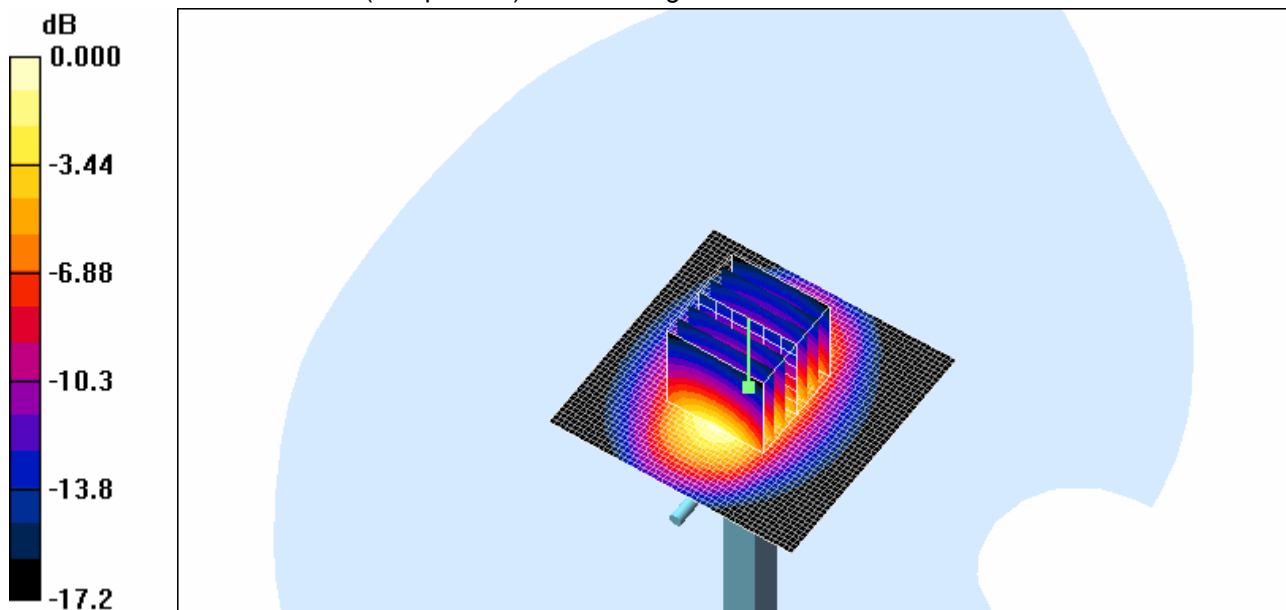
Peak SAR (extrapolated) = 67.2 W/kg

SAR(1 g) = 38.3 mW/g; SAR(10 g) = 20.2 mW/g

Maximum value of SAR (measured) = 43.3 mW/g

d=15mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 52.2 mW/g



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APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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Test Laboratory: RTS

LeftHandSide_CDMA800_mid_chan_amb_temp_24_3_liq_temp_22_8C

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.919$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.42, 6.42, 6.42); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Low/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.10 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.9 V/m; Power Drift = 0.257 dB

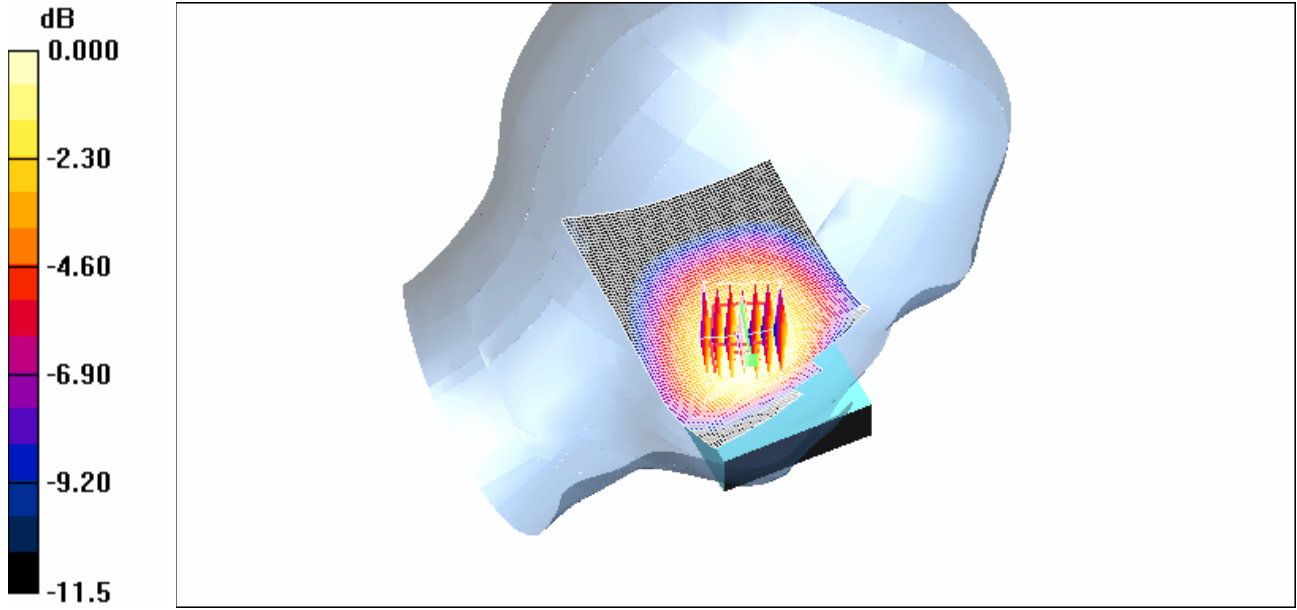
Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.774 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.10 mW/g

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0 dB = 1.10mW/g

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Test Laboratory: RTS

LeftHandSide_Tilt_CDMA800_mid_chan_amb_temp_24_8_liq_temp_23_1

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.919$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.42, 6.42, 6.42); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Low/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.690 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.1 V/m; Power Drift = -0.082 dB

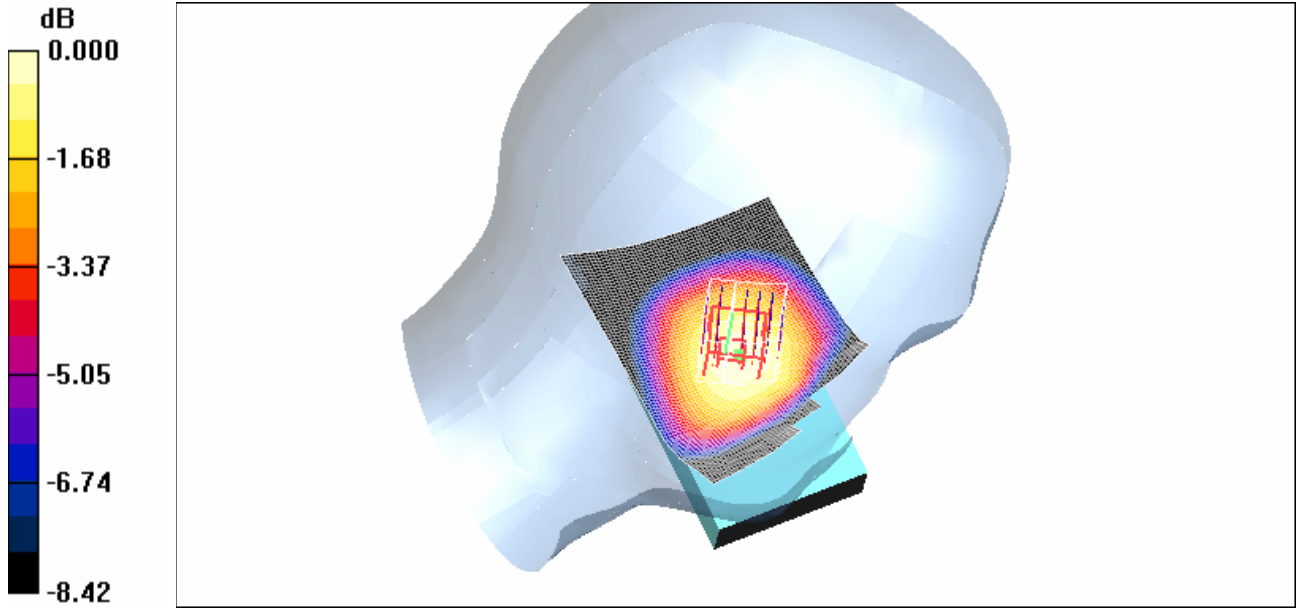
Peak SAR (extrapolated) = 0.848 W/kg

SAR(1 g) = 0.669 mW/g; SAR(10 g) = 0.504 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.702 mW/g

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0 dB = 0.702mW/g

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Date/Time: 23/01/2007 9:24:38 AM

Test Laboratory: RTS

RightHandSide_CDMA800_mid_chan_amb_temp_24_3_liq_temp_22_7

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.919$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.42, 6.42, 6.42); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.15 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.0 V/m; Power Drift = 0.181 dB

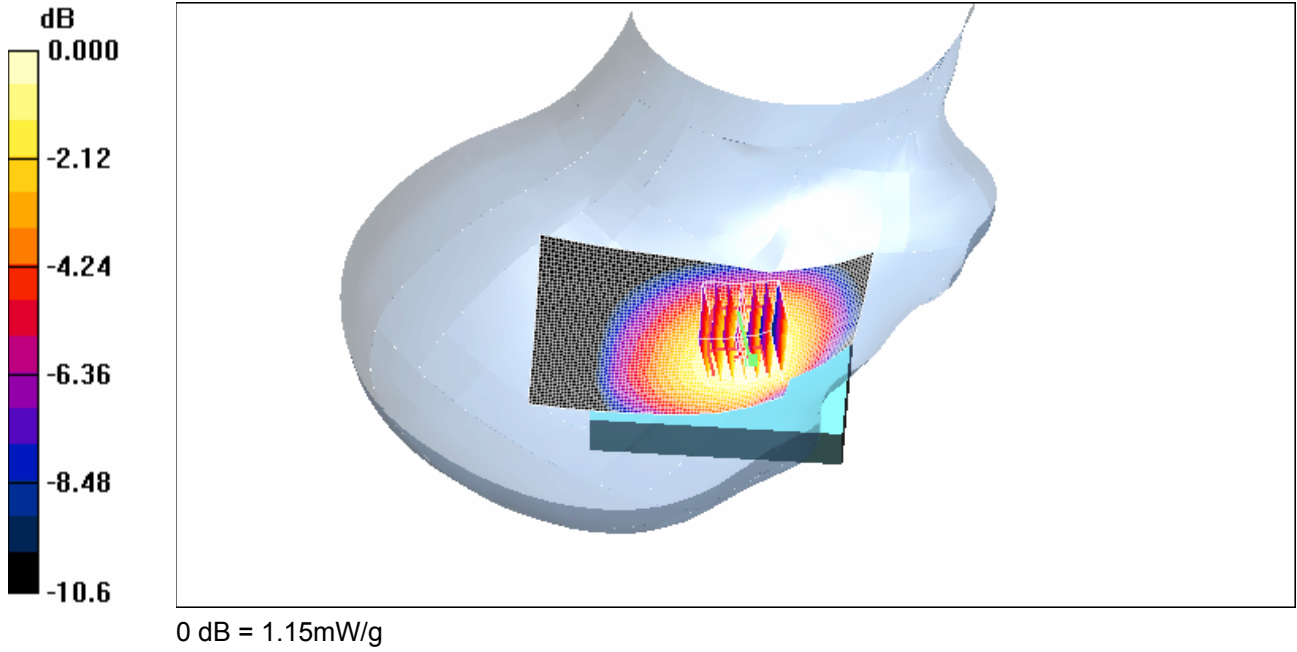
Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.814 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.15 mW/g

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Date/Time: 23/01/2007 10:40:24 AM

Test Laboratory: RTS

RightHandSide_Tilt_CDMA800_mid_chan_amb_temp_24_7_liq_temp_23_0C

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.919 \text{ mho/m}$; $\epsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.42, 6.42, 6.42); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.663 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.8 V/m; Power Drift = -0.113 dB

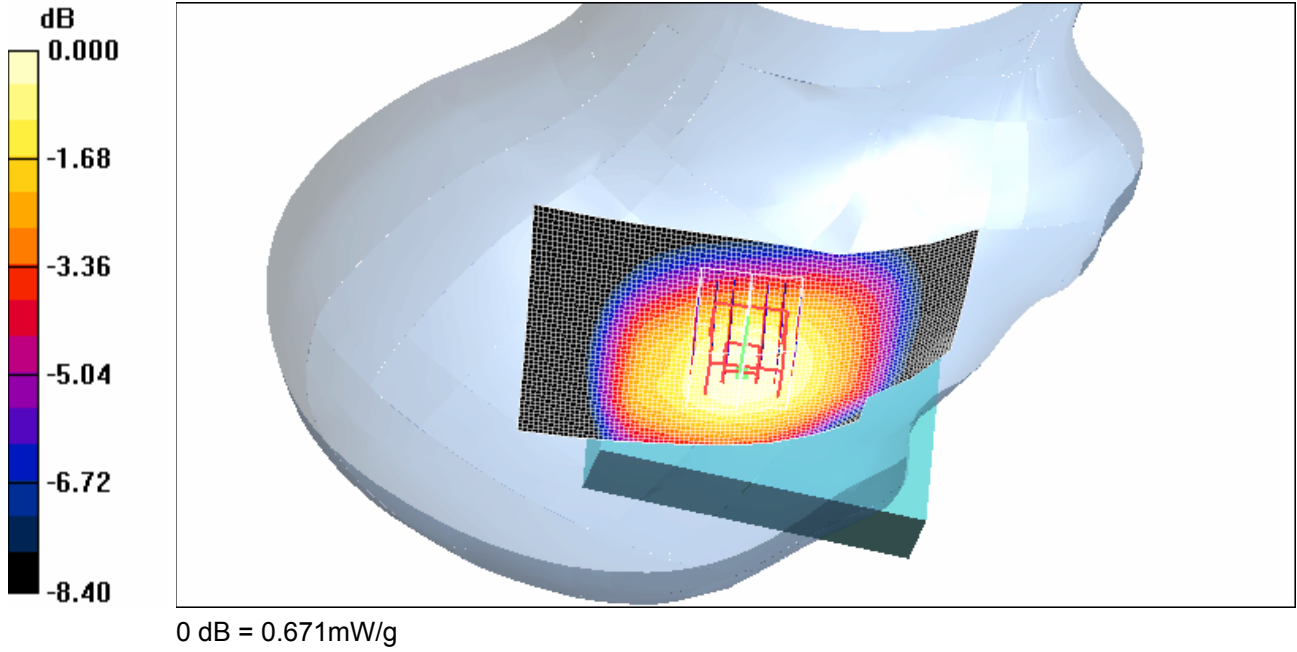
Peak SAR (extrapolated) = 0.794 W/kg

SAR(1 g) = 0.633 mW/g; SAR(10 g) = 0.474 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.671 mW/g

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Date/Time: 17/01/2007 2:09:37 PM

Test Laboratory: RTS

LeftHandSide_CDMA1900_low_chan_amb_temp_25_0_liq_temp_23_0C

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.18, 5.18, 5.18); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.66 mW/g

Touch position - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.6 V/m; Power Drift = -0.103 dB

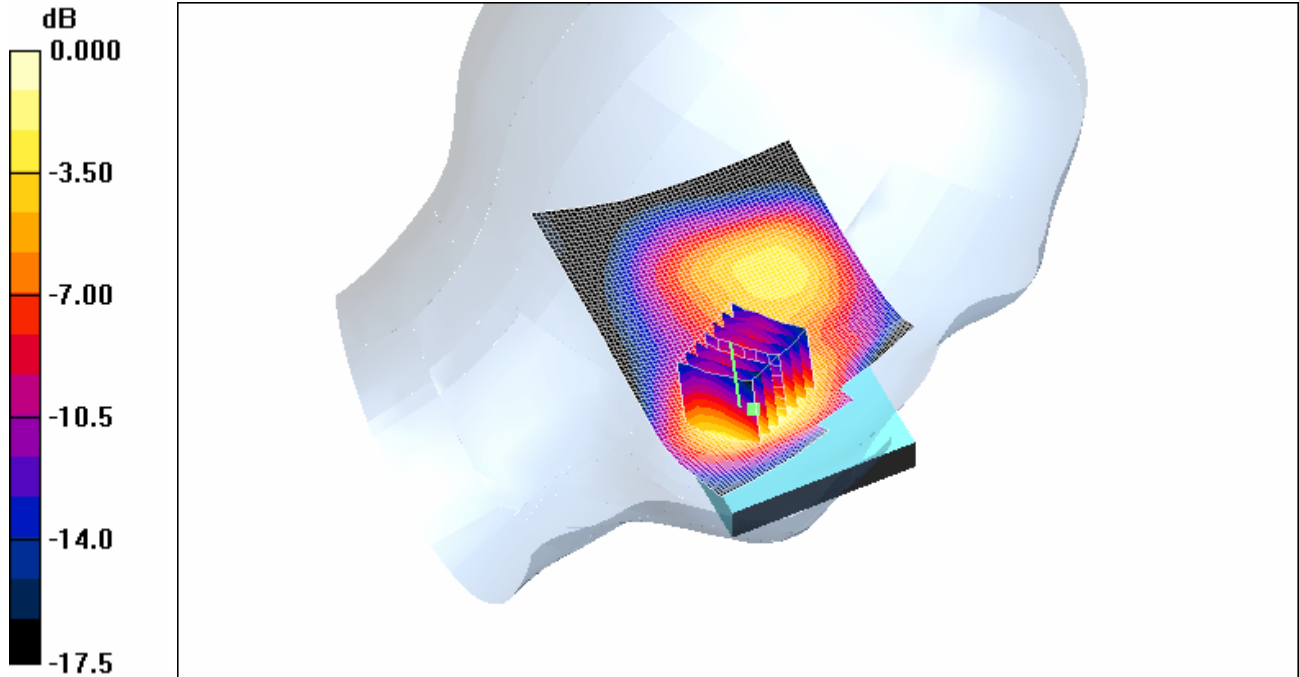
Peak SAR (extrapolated) = 2.10 W/kg

SAR(1 g) = 1.46 mW/g; SAR(10 g) = 0.865 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.60 mW/g

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0 dB = 1.60mW/g

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Date/Time: 17/01/2007 3:55:06 PM

Test Laboratory: RTS

LeftHandSide_Tilt_CDMA1900_low_chan_amb_temp_24_8_liq_temp_22_7_deg_cel

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.18, 5.18, 5.18); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.842 mW/g

Touch position - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.4 V/m; Power Drift = 0.086 dB

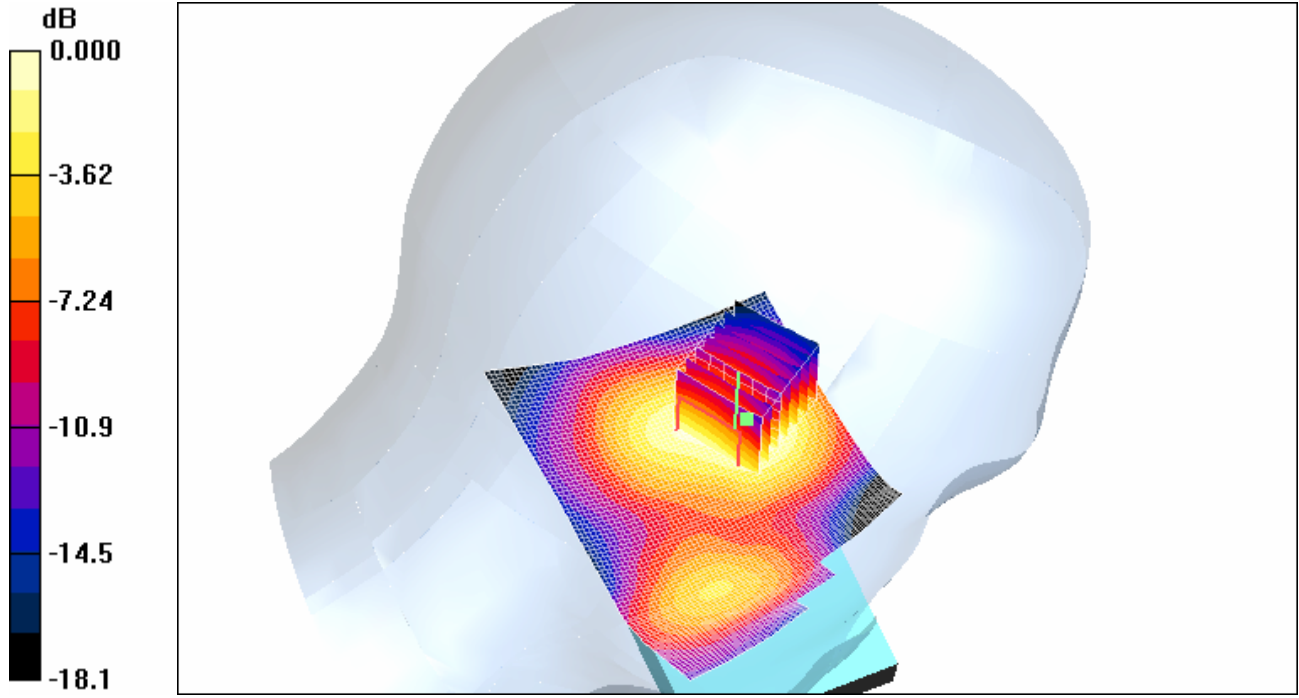
Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.695 mW/g; SAR(10 g) = 0.440 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.753 mW/g

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0 dB = 0.753mW/g

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Date/Time: 17/01/2007 4:40:36 PM

Test Laboratory: RTS

RightHandSide_CDMA1900_low_chan_amb_temp_24_7_liq_temp_22_6_deg_cel

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.18, 5.18, 5.18); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.27 mW/g

Touch position - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.6 V/m; Power Drift = -0.105 dB

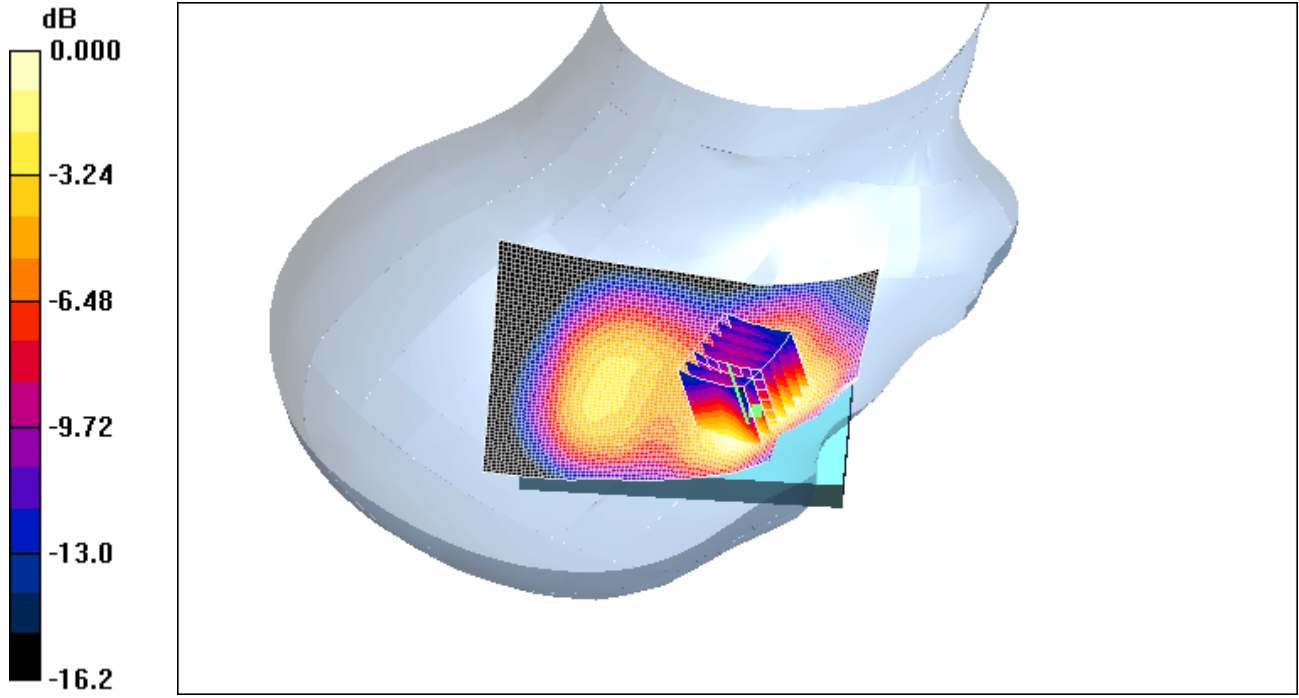
Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.728 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.27 mW/g

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0 dB = 1.27mW/g

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Date/Time: 18/01/2007 11:00:04 AM

Test Laboratory: RTS

RightHandSide_Tilt_CDMA1900_low_chan_amb_temp_24_2_liq_temp_22_5_deg_cel

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.18, 5.18, 5.18); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.759 mW/g

Touch position - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.2 V/m; Power Drift = -0.174 dB

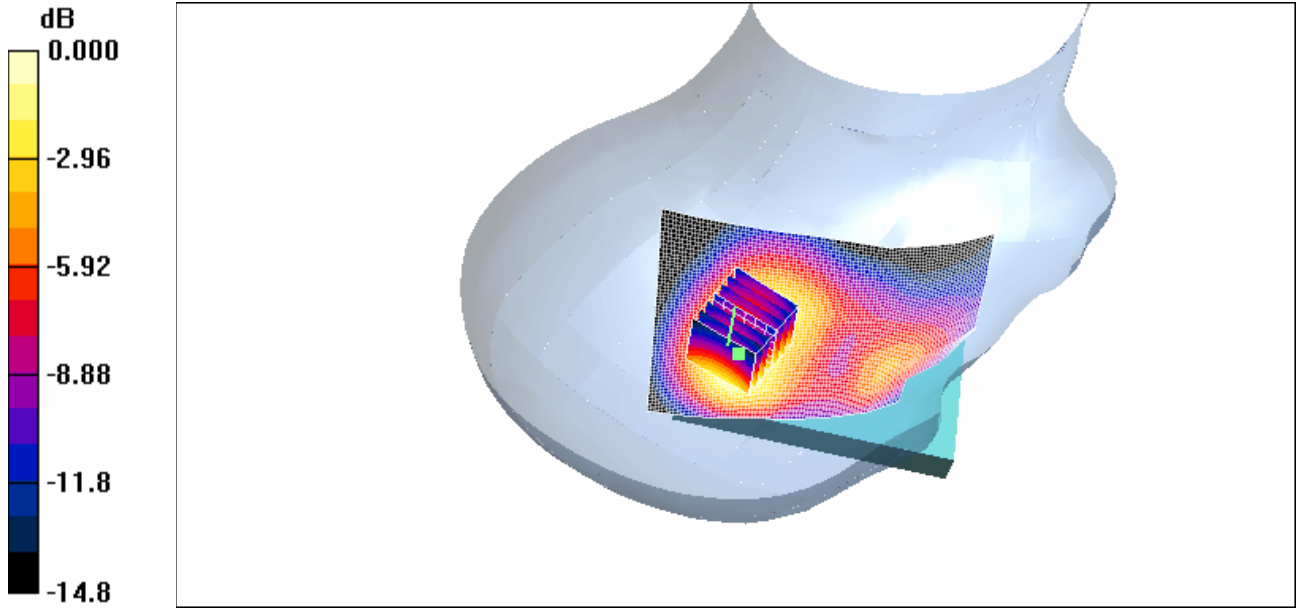
Peak SAR (extrapolated) = 0.935 W/kg

SAR(1 g) = 0.640 mW/g; SAR(10 g) = 0.401 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.692 mW/g

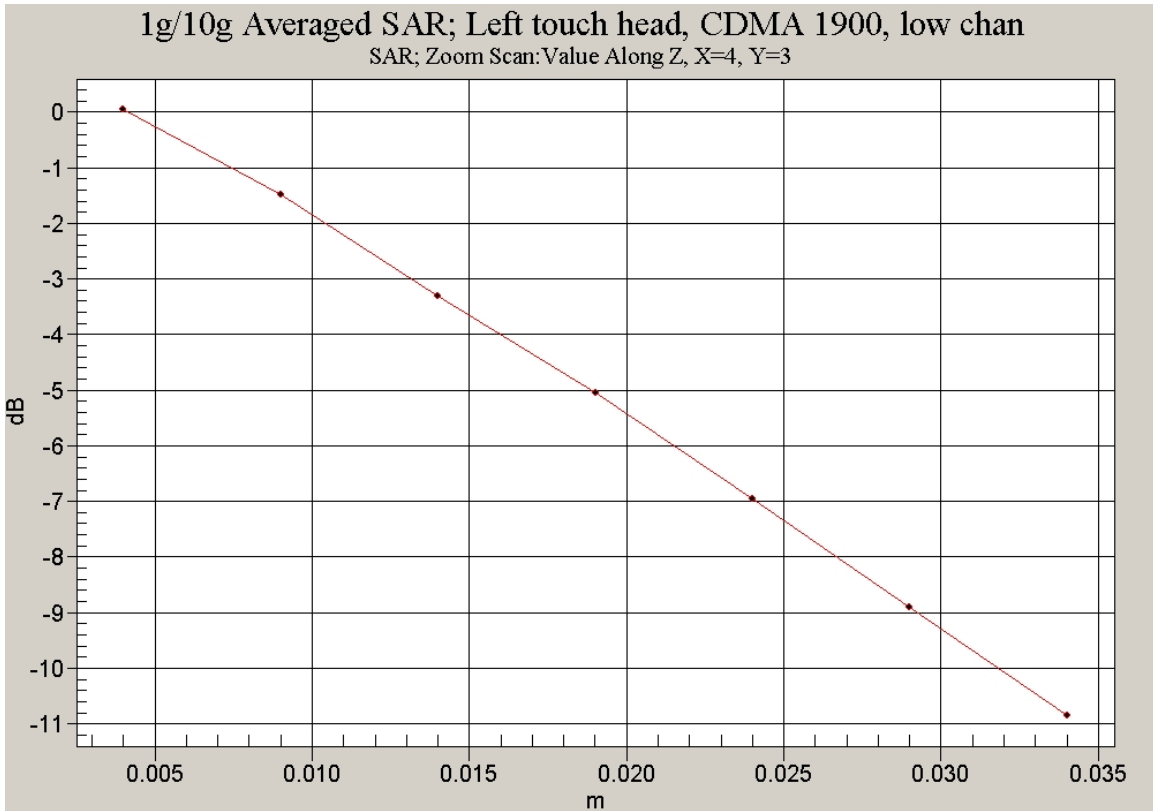
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0 dB = 0.692mW/g

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Z axis plot for the worst case head configuration:



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APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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Date/Time: 23/01/2007 1:24:23 PM

Test Laboratory: RTS

BodyWorn_CDMA800_Holster1_Back_Mid_Chan_amb_temp_25_0_liq_temp_23_2

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.945$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.03, 6.03, 6.03); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.4 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.868 mW/g; SAR(10 g) = 0.648 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

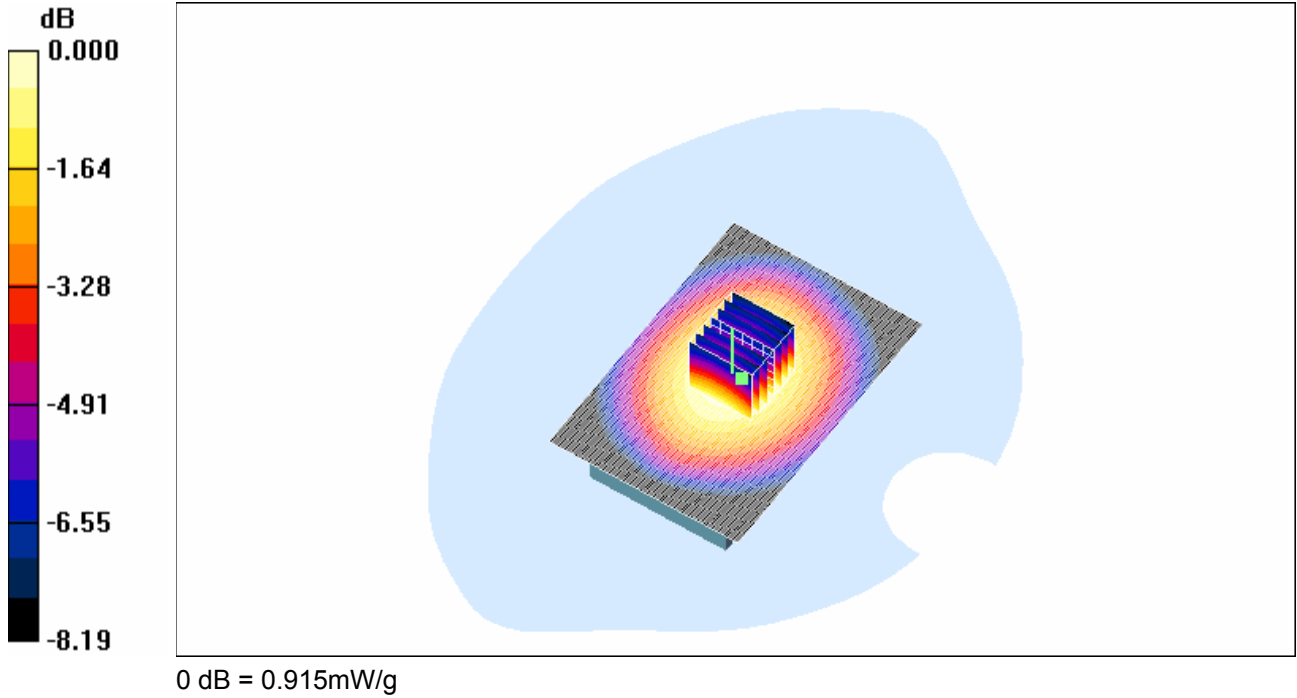
Maximum value of SAR (measured) = 0.915 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.910 mW/g

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Date/Time: 23/01/2007 4:09:25 PM

Test Laboratory: RTS

BodyWorn_CDMA800_Holster2_Mid_Chan_amb_temp_24_7_liq_temp_22_8

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.945 \text{ mho/m}$; $\epsilon_r = 53.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.03, 6.03, 6.03); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.3 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.866 mW/g; SAR(10 g) = 0.646 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

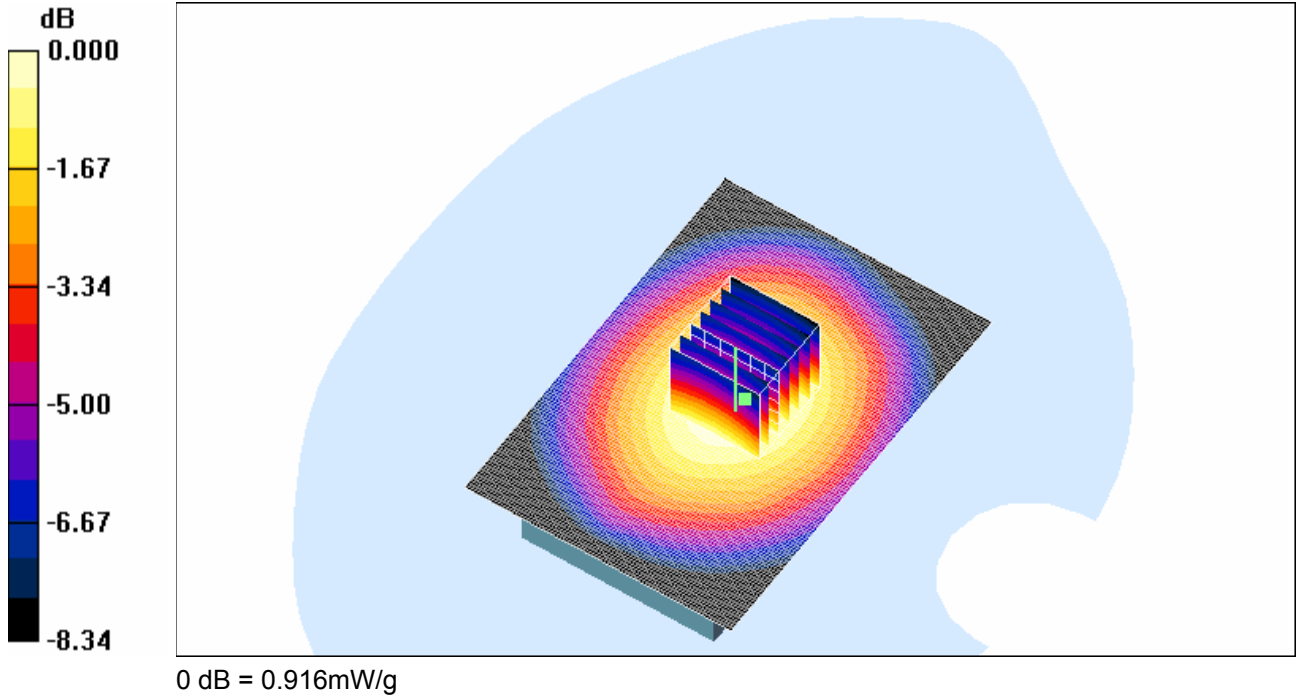
Maximum value of SAR (measured) = 0.916 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.919 mW/g

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Date/Time: 23/01/2007 4:53:29 PM

Test Laboratory: RTS

BodyWorn_CDMA800_Holster1_Front_Mid_Chan_amb_temp_24_8_liq_temp_22_6

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.945 \text{ mho/m}$; $\epsilon_r = 53.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.03, 6.03, 6.03); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 30.5 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.800 mW/g; SAR(10 g) = 0.596 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

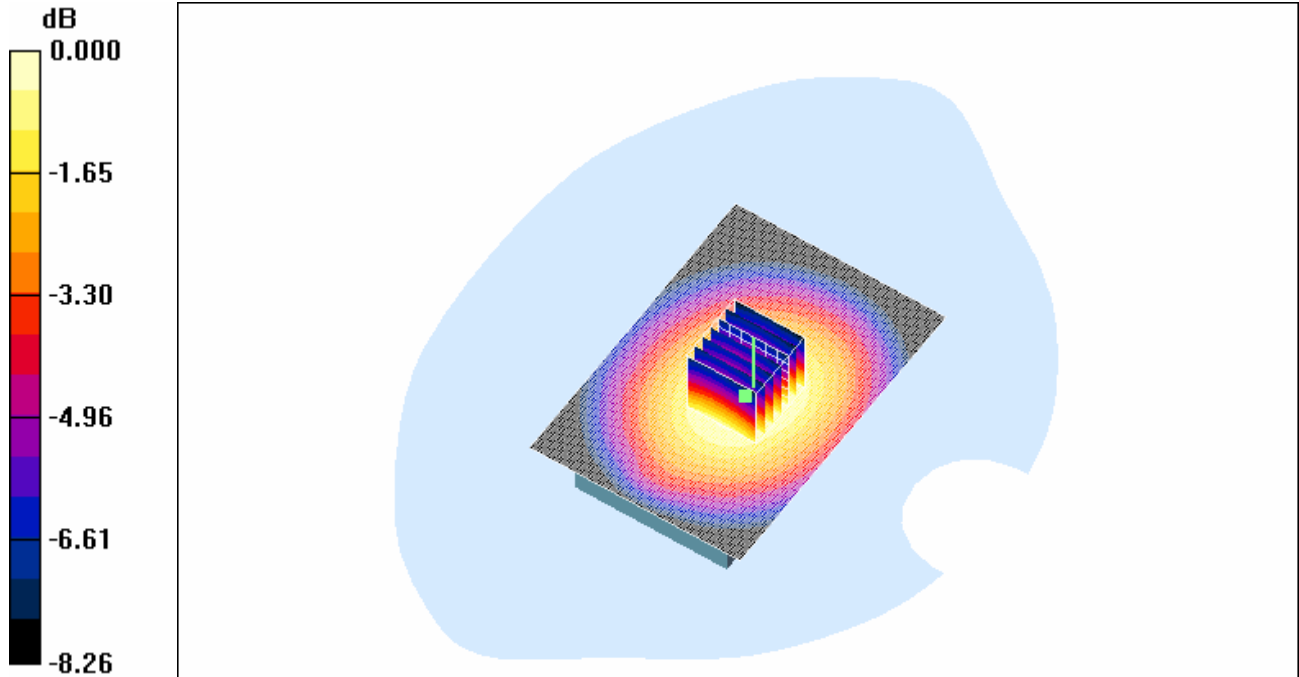
Maximum value of SAR (measured) = 0.852 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.855 mW/g

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0 dB = 0.852mW/g

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Date/Time: 23/01/2007 5:23:14 PM

Test Laboratory: RTS

BodyWorn_CDMA800_Holster1_Back_Headset_Mid_Chan_amb_temp_24_8_liq_temp_22_6

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.945$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.03, 6.03, 6.03); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.9 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.669 W/kg

SAR(1 g) = 0.522 mW/g; SAR(10 g) = 0.387 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

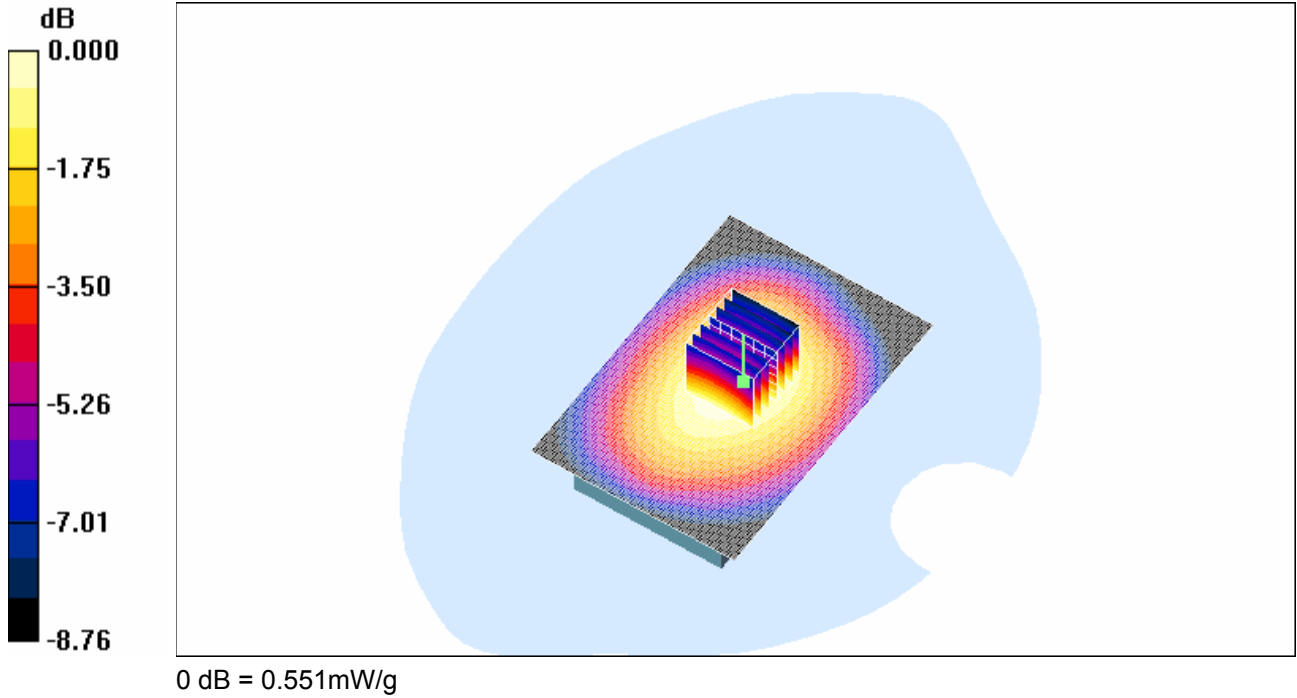
Maximum value of SAR (measured) = 0.551 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.551 mW/g

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Date/Time: 23/01/2007 3:35:53 PM

Test Laboratory: RTS

BodyWorn_CDMA800_Holster1_BT_Back_Mid_Chan_amb_temp_24_8_liq_temp_23_2

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.945$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.03, 6.03, 6.03); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.1 V/m; Power Drift = -0.064 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.903 mW/g; SAR(10 g) = 0.678 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

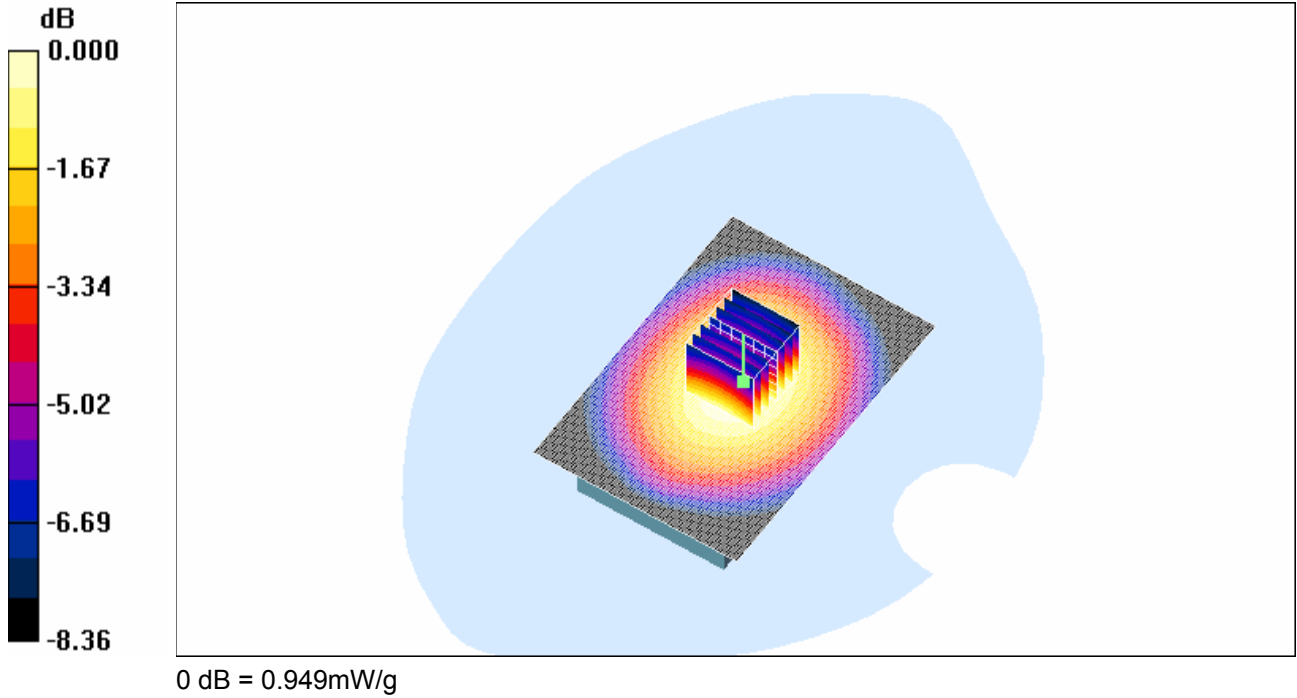
Maximum value of SAR (measured) = 0.949 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.958 mW/g

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Date/Time: 24/01/2007 8:59:29 AM

Test Laboratory: RTS

BodyWorn_CDMA800_25mm_Back_Mid_Chan_amb_temp_24_0_liq_temp_22_5

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.945$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.03, 6.03, 6.03); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.3 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.810 W/kg

SAR(1 g) = 0.632 mW/g; SAR(10 g) = 0.473 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

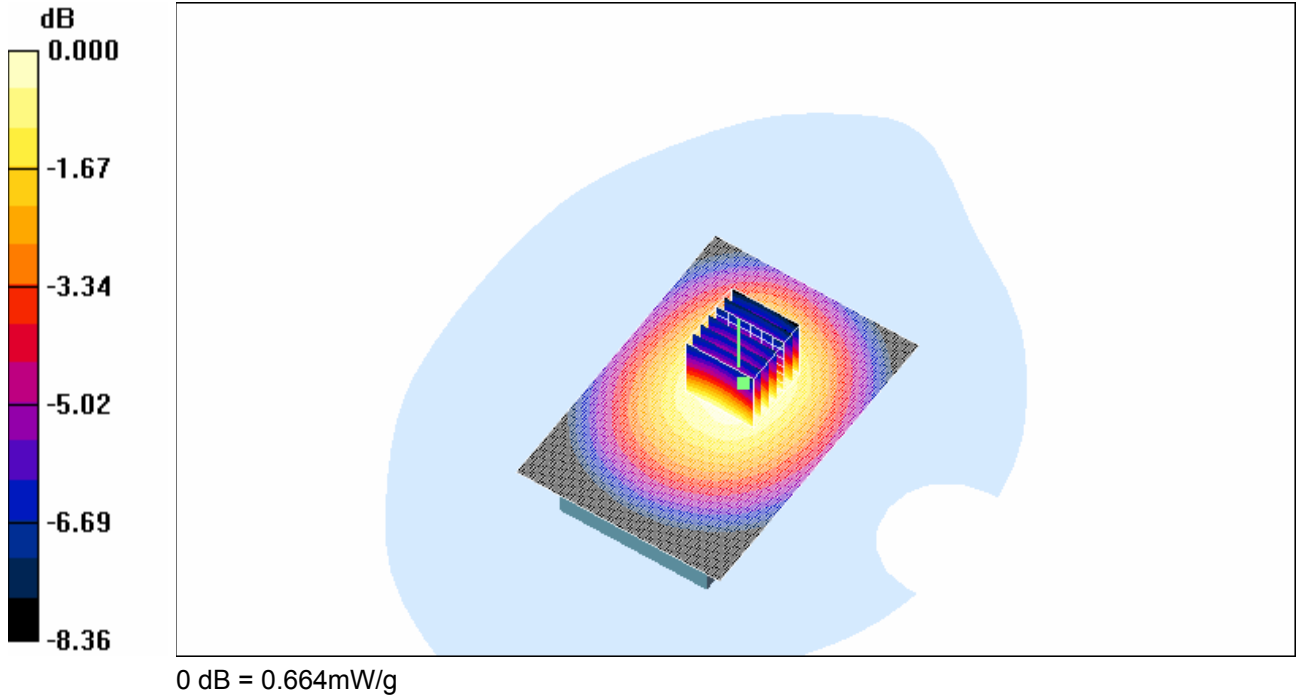
Maximum value of SAR (measured) = 0.664 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.669 mW/g

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Date/Time: 18/01/2007 3:55:17 PM

Test Laboratory: RTS

BodyWorn_Holster1_Back_Mid_Chan_amb_temp_24_6_liq_temp_22_8

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ mho/m}$; $\epsilon_r = 50.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.67, 4.67, 4.67); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.42 V/m; Power Drift = -0.187 dB

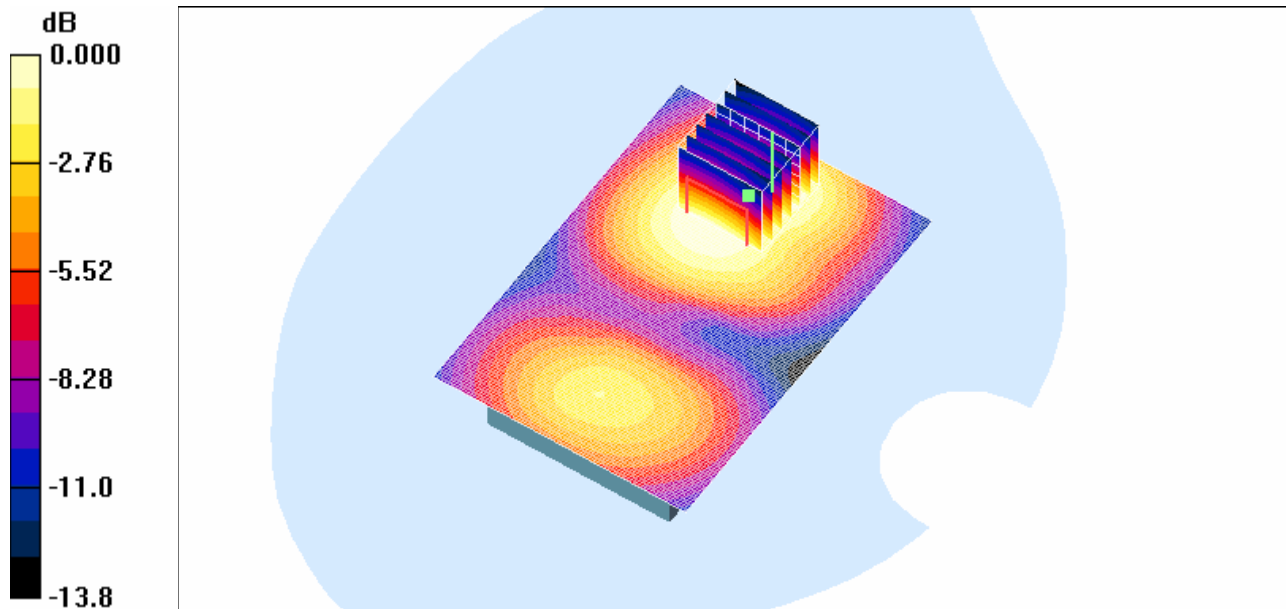
Peak SAR (extrapolated) = 0.624 W/kg

SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.268 mW/g

Maximum value of SAR (measured) = 0.445 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.457 mW/g



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0 dB = 0.445mW/g

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Date/Time: 18/01/2007 4:25:03 PM

Test Laboratory: RTS

BodyWorn_Holster2_Back_Mid_Chan_amb_temp_24_9_liq_temp_23_2

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.67, 4.67, 4.67); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.72 V/m; Power Drift = 0.056 dB

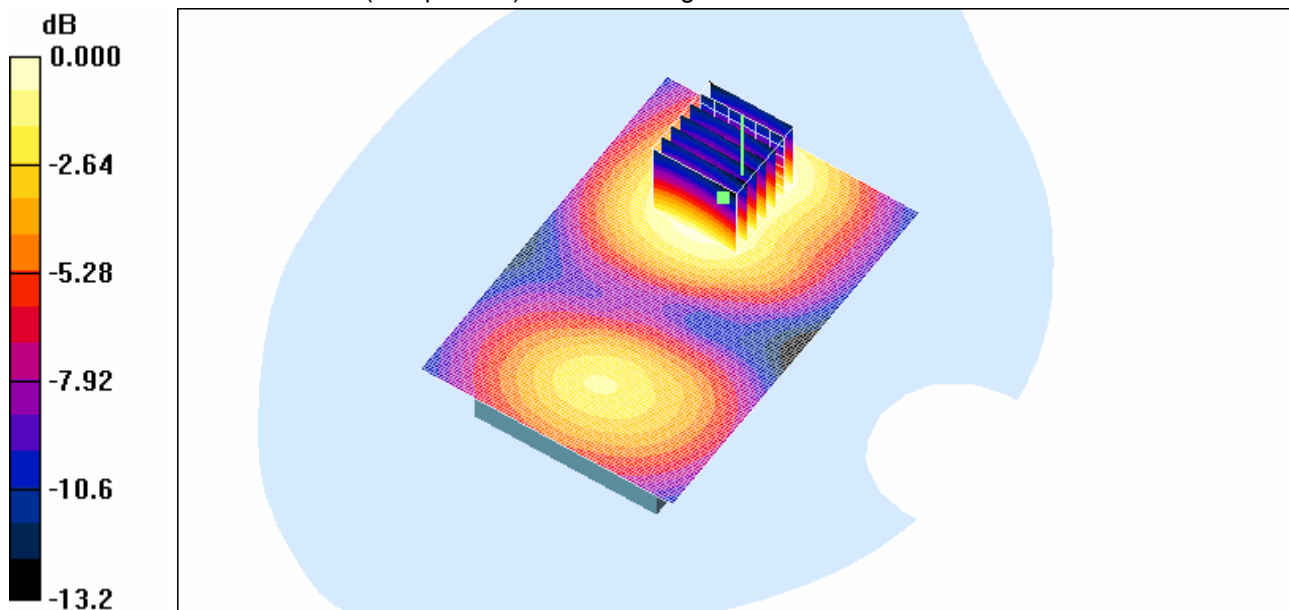
Peak SAR (extrapolated) = 0.531 W/kg

SAR(1 g) = 0.352 mW/g; SAR(10 g) = 0.231 mW/g

Maximum value of SAR (measured) = 0.377 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.387 mW/g



0 dB = 0.377mW/g

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Date/Time: 18/01/2007 5:04:06 PM

Test Laboratory: RTS

BodyWorn_Holster1_Front_Mid_Chan_amb_temp_24_8_liq_temp_23_0

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.67, 4.67, 4.67); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.08 V/m; Power Drift = -0.015 dB

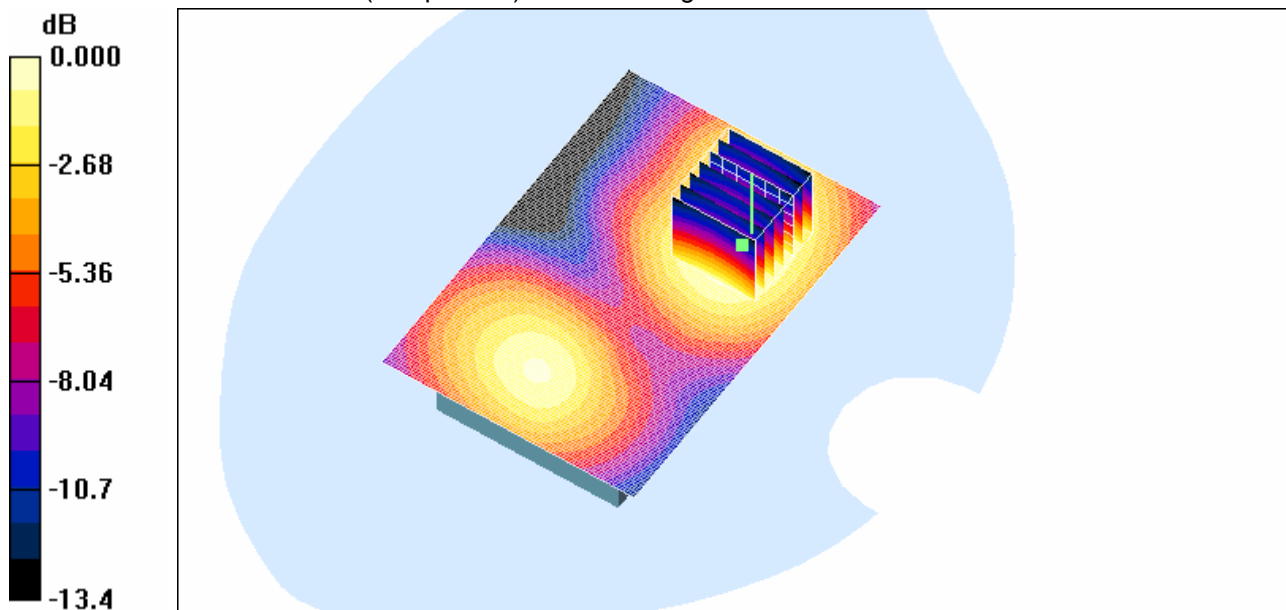
Peak SAR (extrapolated) = 0.516 W/kg

SAR(1 g) = 0.332 mW/g; SAR(10 g) = 0.212 mW/g

Maximum value of SAR (measured) = 0.356 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.361 mW/g



0 dB = 0.356mW/g

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Date/Time: 18/01/2007 5:34:59 PM

Test Laboratory: RTS

BodyWorn_Holster1_Back_Headset_Mid_Chan_amb_temp_25_0_liq_temp_23_1

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.67, 4.67, 4.67); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.99 V/m; Power Drift = 0.010 dB

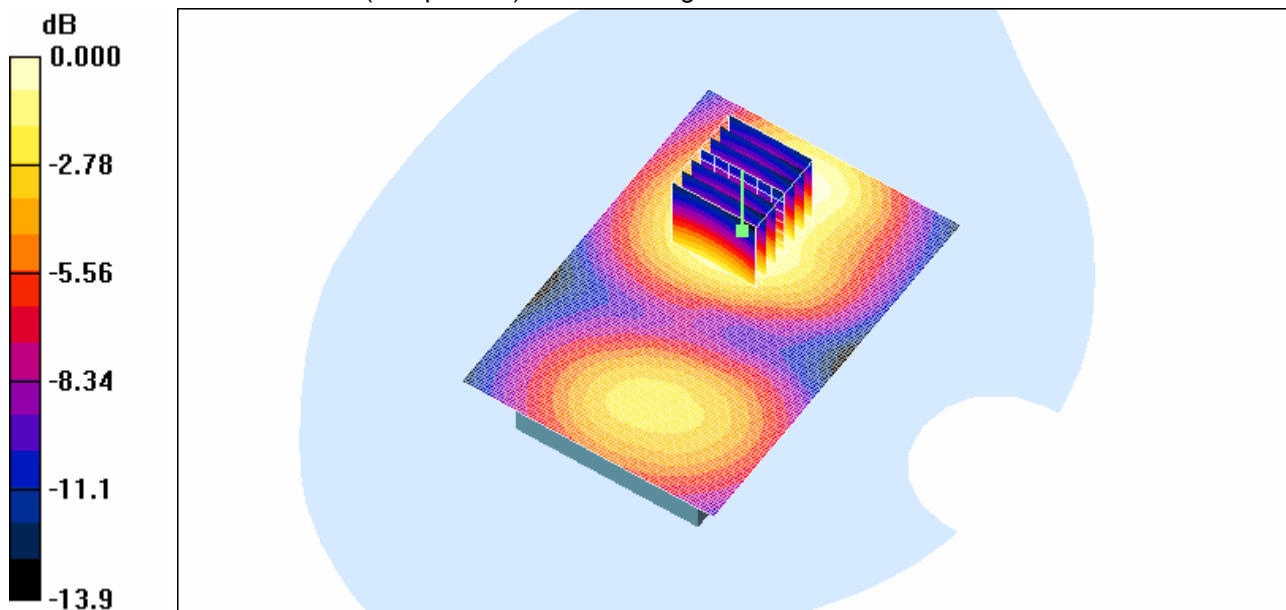
Peak SAR (extrapolated) = 0.580 W/kg

SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.252 mW/g

Maximum value of SAR (measured) = 0.419 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.424 mW/g



0 dB = 0.419mW/g

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Date/Time: 19/01/2007 9:23:33 AM

Test Laboratory: RTS

BodyWorn_Holster1_Back_BT_Mid_Chan_amb_temp_24_4_liq_temp_23_5

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.67, 4.67, 4.67); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = -0.267 dB

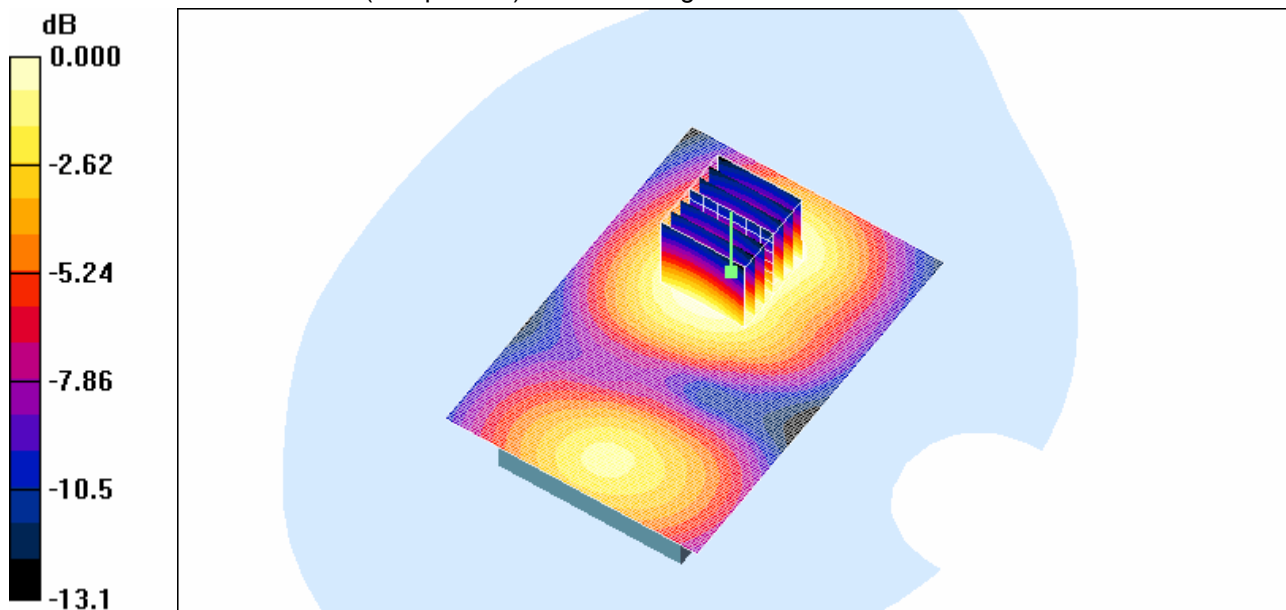
Peak SAR (extrapolated) = 0.577 W/kg

SAR(1 g) = 0.389 mW/g; SAR(10 g) = 0.254 mW/g

Maximum value of SAR (measured) = 0.414 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.423 mW/g



0 dB = 0.414mW/g

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Date/Time: 19/01/2007 9:56:16 AM

Test Laboratory: RTS

BodyWorn_25mm_Back_Mid_Chan_amb_temp_24_5_liq_temp_23_3

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ mho/m}$; $\epsilon_r = 50.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.67, 4.67, 4.67); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.78 V/m; Power Drift = -0.088 dB

Peak SAR (extrapolated) = 0.418 W/kg

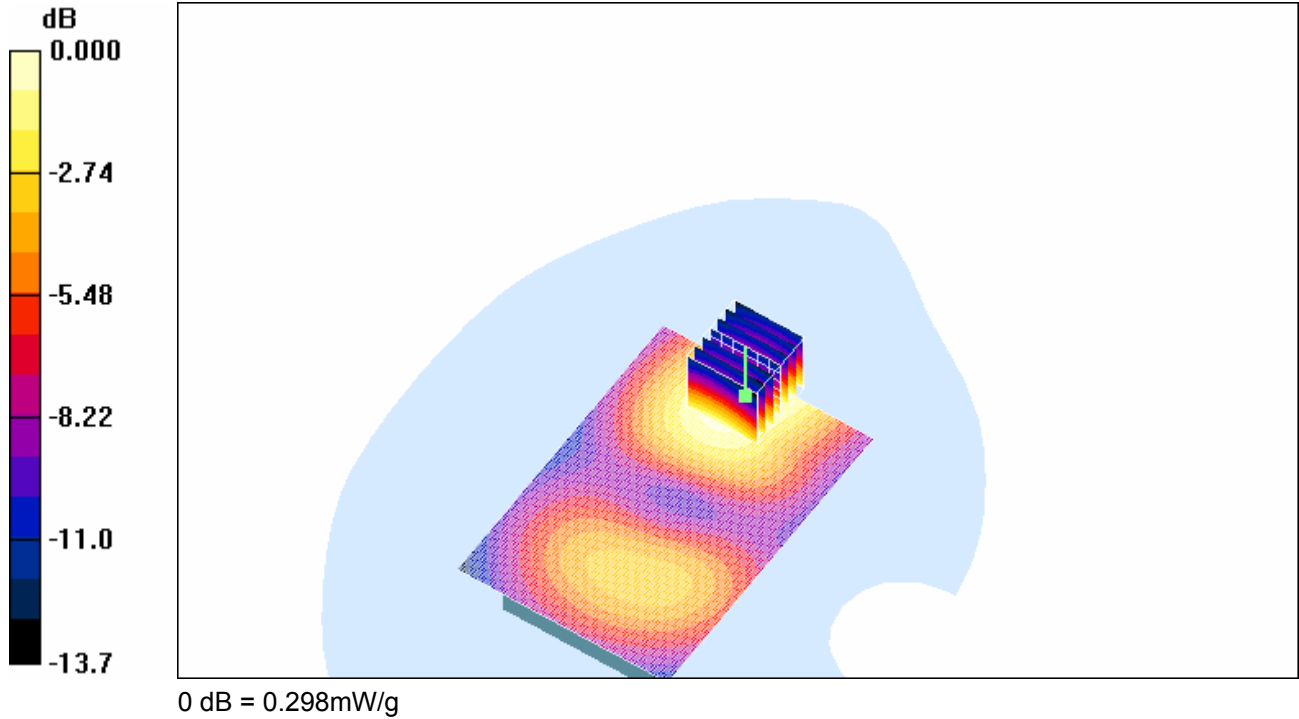
SAR(1 g) = 0.273 mW/g; SAR(10 g) = 0.175 mW/g

Maximum value of SAR (measured) = 0.298 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.296 mW/g

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Z axis plot for the worst case body worn configuration:

