

RTS RIM Testing Services	Document Appendices for the BlackBerry 8703e Wireless Handheld Model RBF20CW SAR Report		Page 1(112)
Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09	FCC ID: L6ARBF20CW

APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

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Date/Time: 29/06/2006 5:12:32 PM

Test Laboratory: RTS

File Name: [835MHz_Validation_Ambient_Temp_24_0_C_Liquid_Temp_22_0_C_06_29_06.da4](#)

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

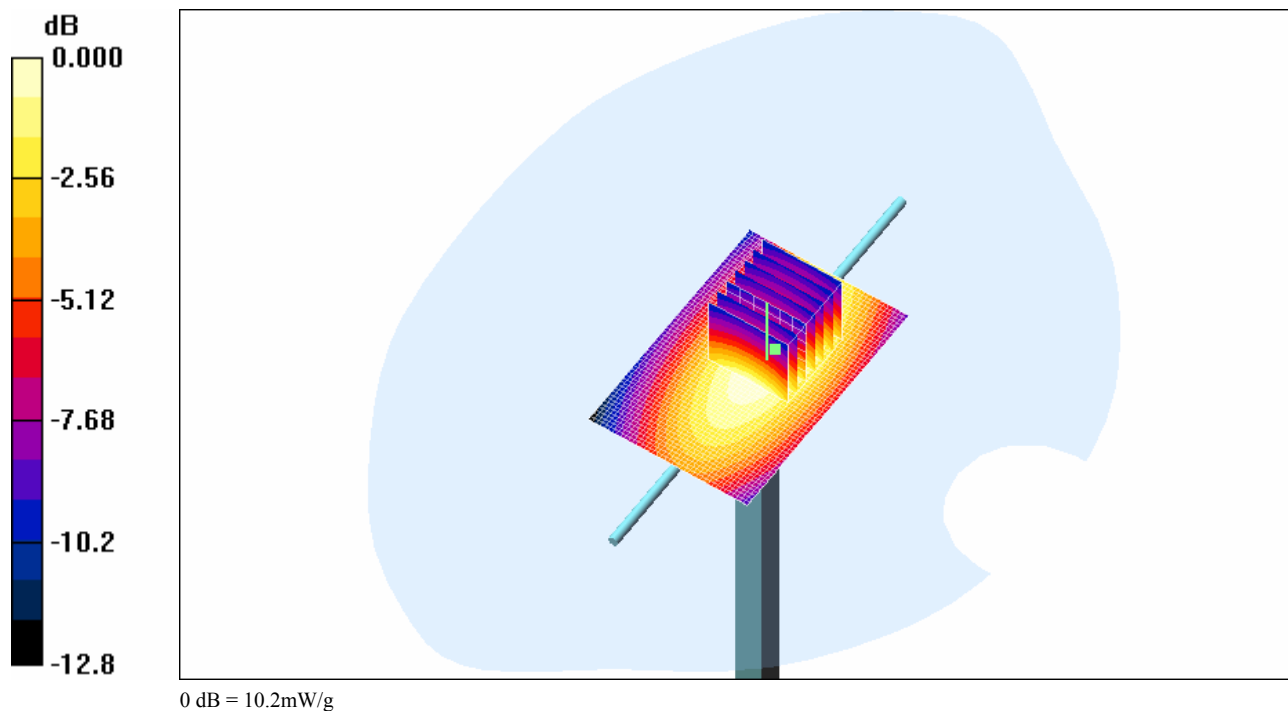
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.36, 6.36, 6.36); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Dipole Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 109.3 V/m; Power Drift = -0.085 dB
Peak SAR (extrapolated) = 14.0 W/kg
SAR(1 g) = 9.39 mW/g; SAR(10 g) = 6.12 mW/g
Maximum value of SAR (measured) = 10.2 mW/g

Dipole Validation/Area Scan (41x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 10.2 mW/g



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Date/Time: 30/06/2006 4:47:50 PM

Test Laboratory: RTS

File Name: [835MHz_Validation_Ambient_Temp_23_3_C_Liquid_Temp_22_1_C_06_30_06.da4](#)

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

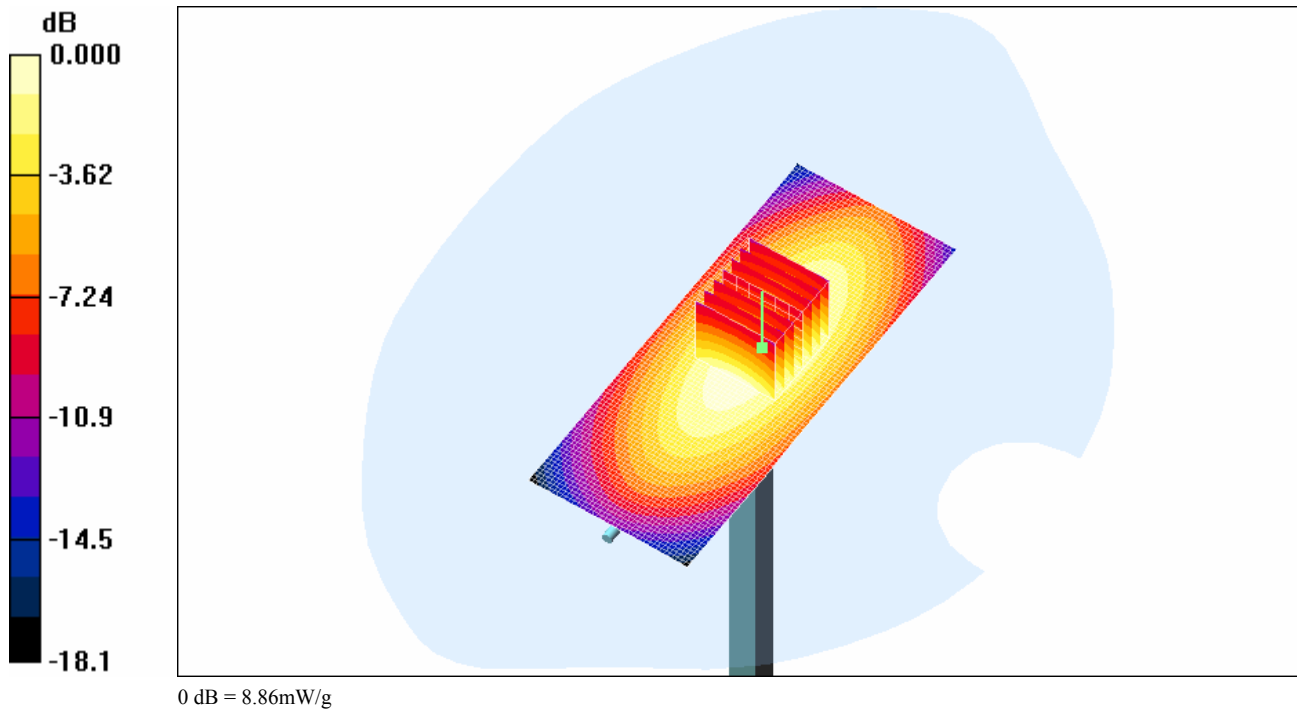
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.36, 6.36, 6.36); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Dipole Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 110.3 V/m; Power Drift = 0.007 dB
Peak SAR (extrapolated) = 11.5 W/kg
SAR(1 g) = 8.22 mW/g; SAR(10 g) = 5.47 mW/g
Maximum value of SAR (measured) = 8.91 mW/g

Dipole Validation/Area Scan (41x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 8.86 mW/g



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Date/Time: 26/06/2006 7:12:52 PM

Test Laboratory: RTS

File Name: [1900MHz_Validation_Ambient_Temp_24_8_C_Liquid_Temp_22_1_C_06_26_06.da4](#)

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

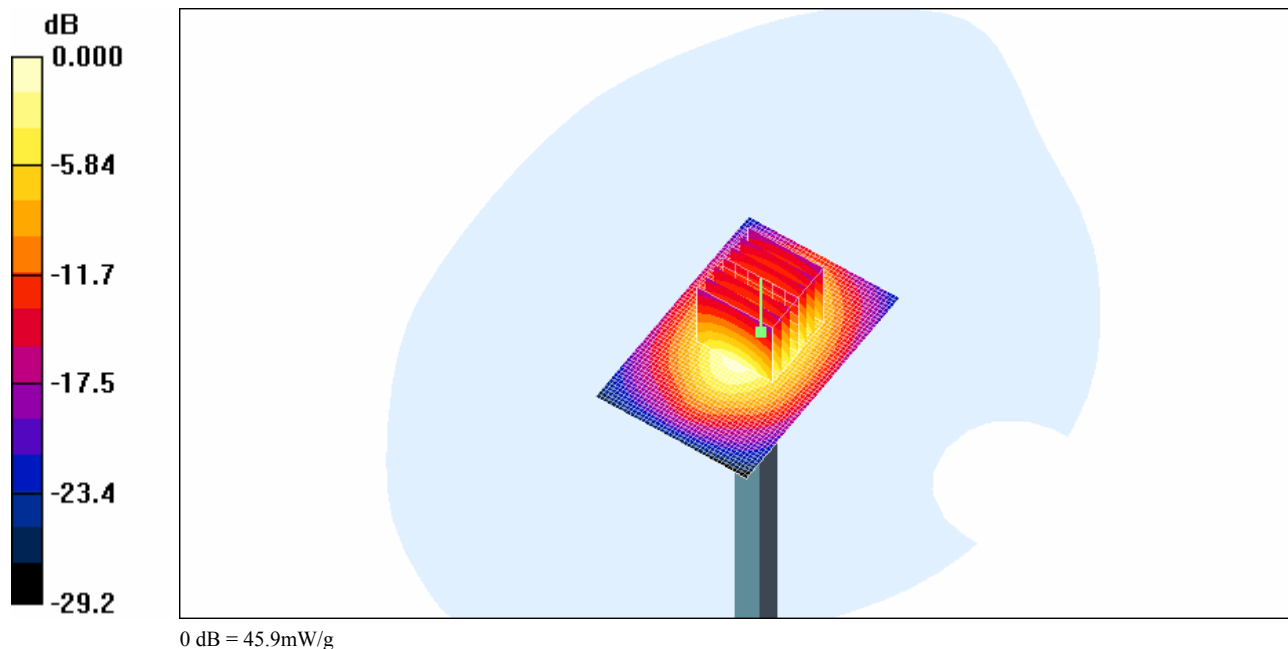
Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.18, 5.18, 5.18); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Dipole Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 182.1 V/m; Power Drift = -0.006 dB
Peak SAR (extrapolated) = 67.0 W/kg
SAR(1 g) = 37.9 mW/g; SAR(10 g) = 19.8 mW/g
Maximum value of SAR (measured) = 43.1 mW/g

Dipole Validation/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 45.9 mW/g



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Date/Time: 27/06/2006 5:36:39 PM

Test Laboratory: RTS

File Name: [1900MHz_Validation_Ambient_Temp_23_9_C_Liquid_Temp_22_2_C_06_27_06.da4](#)

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

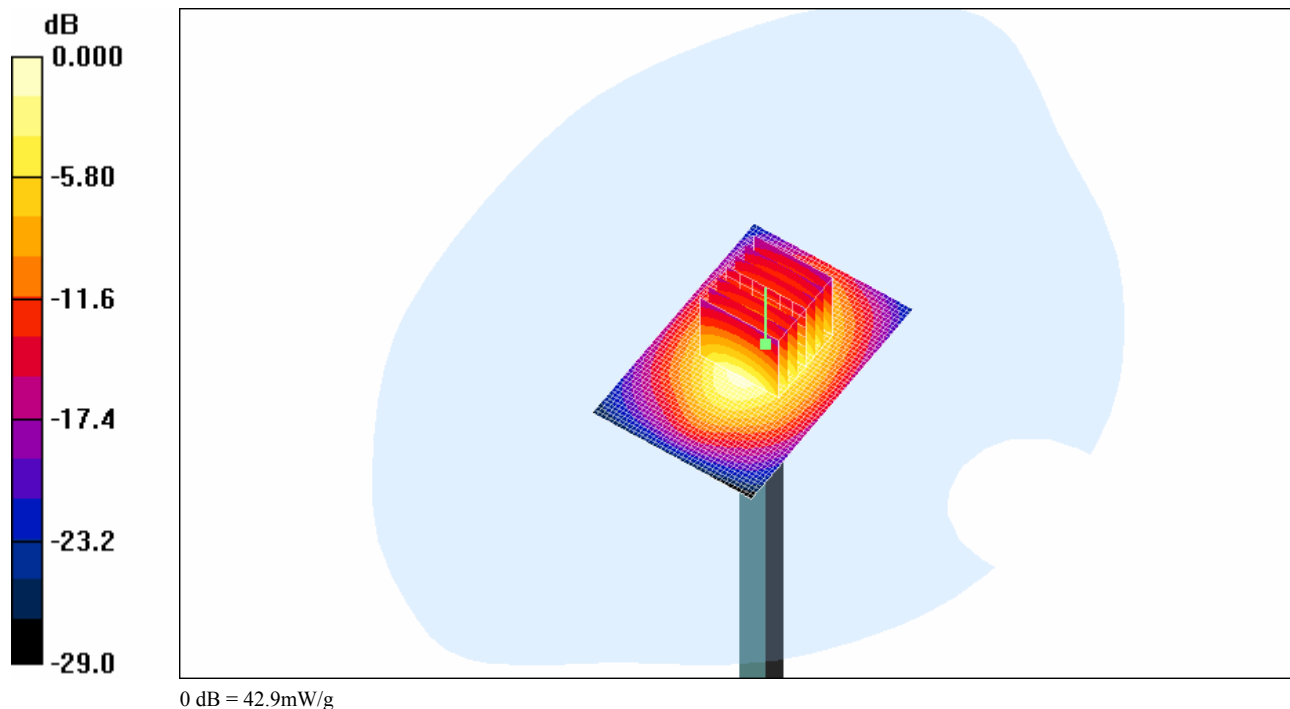
Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.18, 5.18, 5.18); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Dipole Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 180.5 V/m; Power Drift = 0.082 dB
Peak SAR (extrapolated) = 63.3 W/kg
SAR(1 g) = 36 mW/g; SAR(10 g) = 18.9 mW/g
Maximum value of SAR (measured) = 40.6 mW/g

Dipole Validation/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 42.9 mW/g



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Date/Time: 28/06/2006 5:20:28 PM

Test Laboratory: RTS

File Name: [1900MHz_Validation_Ambient_Temp_23_9_C_Liquid_Temp_22_0_C_06_28_06.da4](#)

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

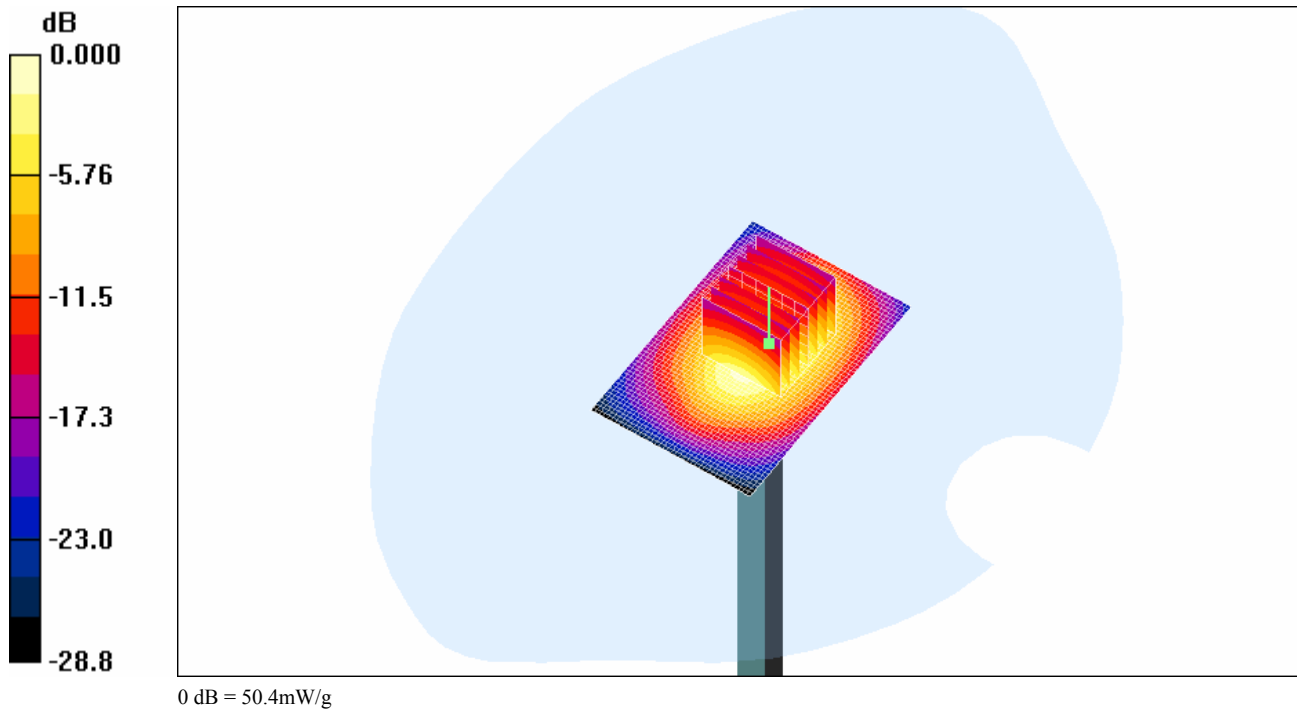
Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.18, 5.18, 5.18); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Dipole Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 192.1 V/m; Power Drift = 0.012 dB
Peak SAR (extrapolated) = 73.7 W/kg
SAR(1 g) = 41.8 mW/g; SAR(10 g) = 21.8 mW/g
Maximum value of SAR (measured) = 47.5 mW/g

Dipole Validation/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 50.4 mW/g



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Date/Time: 04/07/2006 5:18:11 PM

Test Laboratory: RTS

File Name: [1900MHz_Validation_Ambient_Temp_23_9_C_Liquid_Temp_22_3_C_07_04_06.da4](#)

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

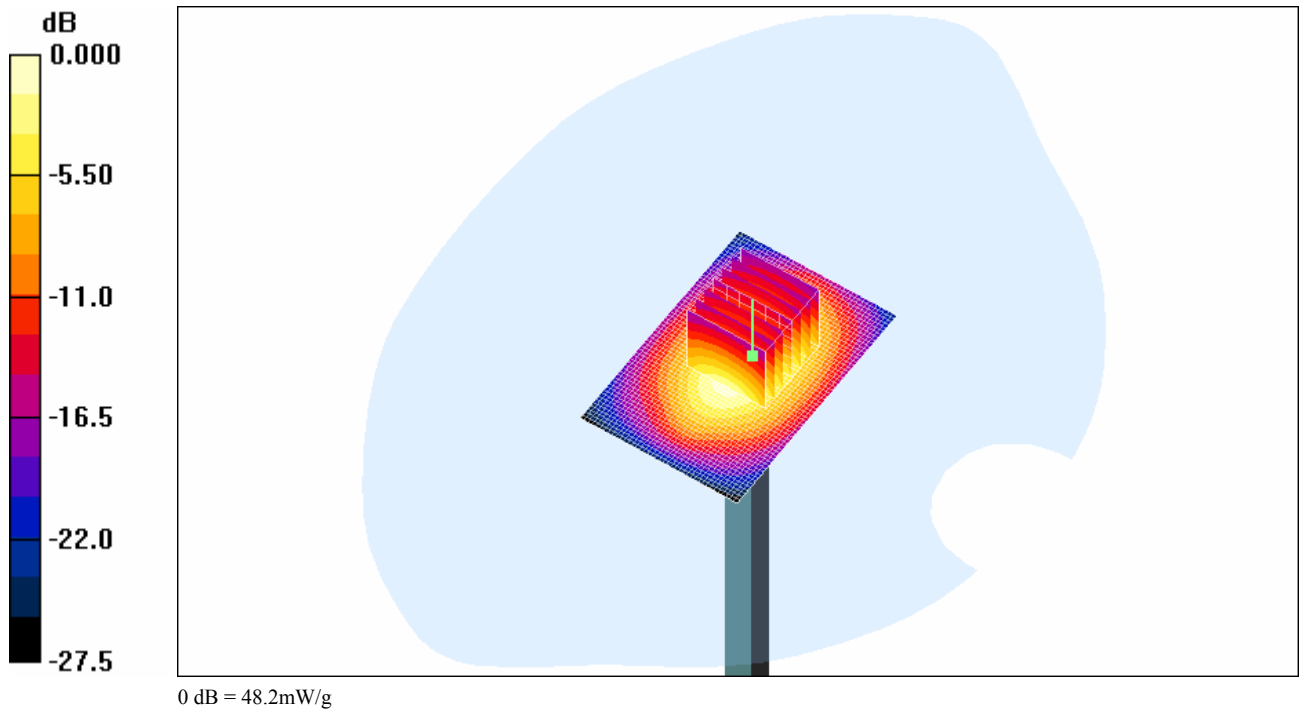
Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.18, 5.18, 5.18); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Dipole Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 186.1 V/m; Power Drift = 0.012 dB
Peak SAR (extrapolated) = 70.7 W/kg
SAR(1 g) = 40.1 mW/g; SAR(10 g) = 21 mW/g
Maximum value of SAR (measured) = 45.1 mW/g

Dipole Validation/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 48.2 mW/g



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APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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Date/Time: 29/06/2006 6:38:05 PM

Test Laboratory: RTS

File Name: [Touch_Right_CDMA800_Low_Chan_Battery_1_Amb_temp_24.1_Liq_temp_22.3.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 824.7$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.3$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.36, 6.36, 6.36); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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) = 1.17 mW/g

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

Reference Value = 16.9 V/m; Power Drift = -0.051 dB

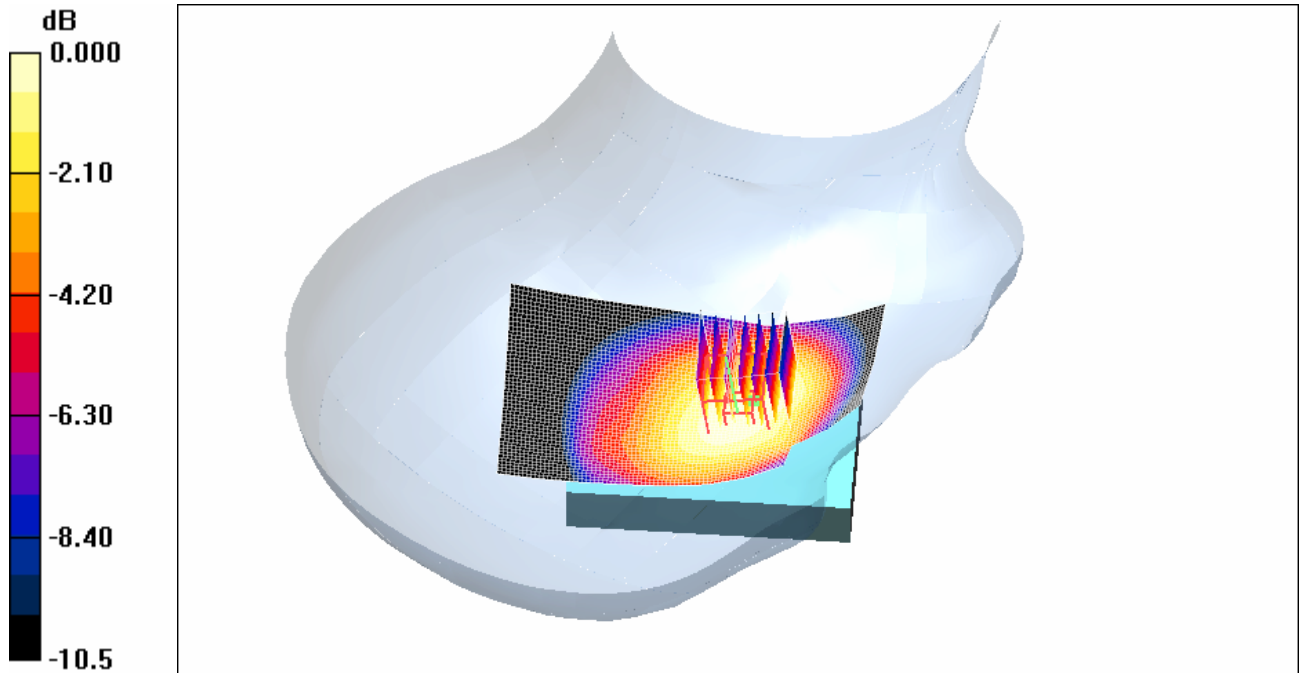
Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.807 mW/g

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

Maximum value of SAR (measured) = 1.17 mW/g

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0 dB = 1.17mW/g

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Date/Time: 29/06/2006 6:17:28 PM

Test Laboratory: RTS

File Name: [Touch_Right_CDMA800_Mid_Chan_Battery_1_Amb_temp_23.5_Liq_temp_22.1.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

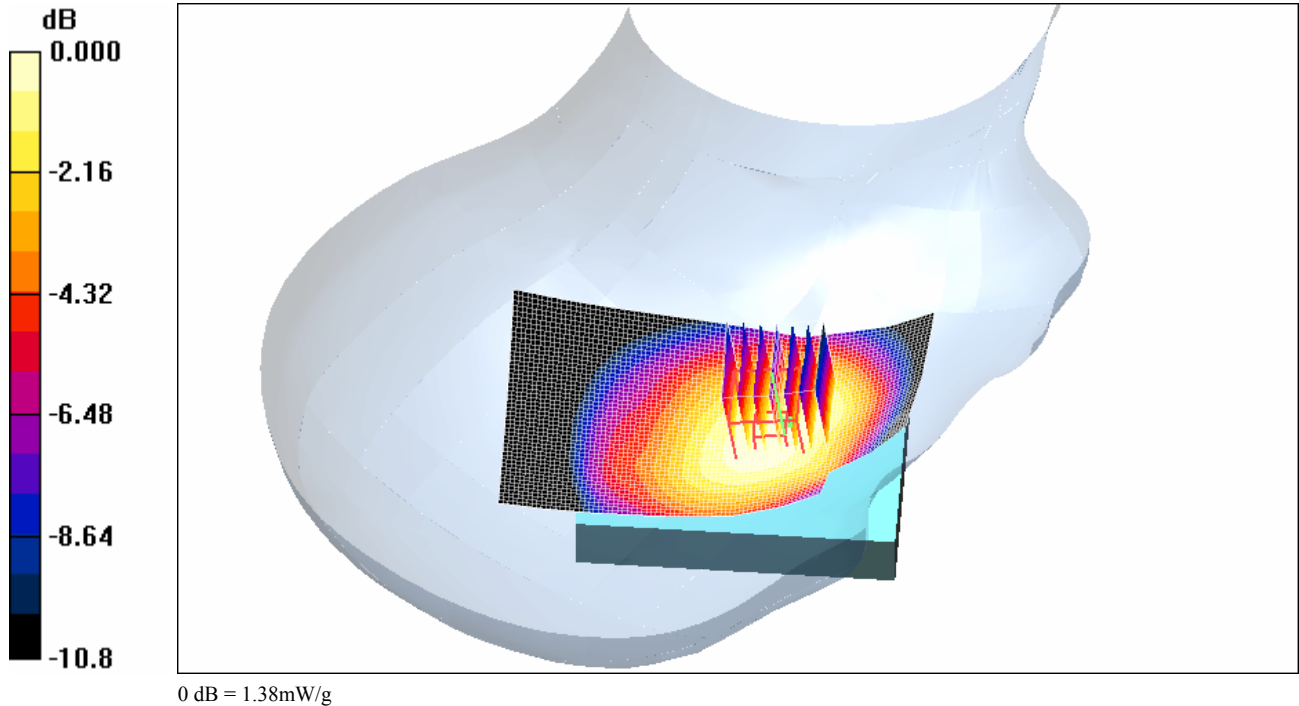
Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.36, 6.36, 6.36); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Touch position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.38 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 18.4 V/m; Power Drift = -0.163 dB
Peak SAR (extrapolated) = 1.73 W/kg
SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.946 mW/g
Maximum value of SAR (measured) = 1.38 mW/g



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Date/Time: 29/06/2006 7:01:15 PM

Test Laboratory: RTS

File Name: [Touch_Right_CDMA800_High_Chan_Battery_1_Amb_temp_24.3_Liq_temp_22.5.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

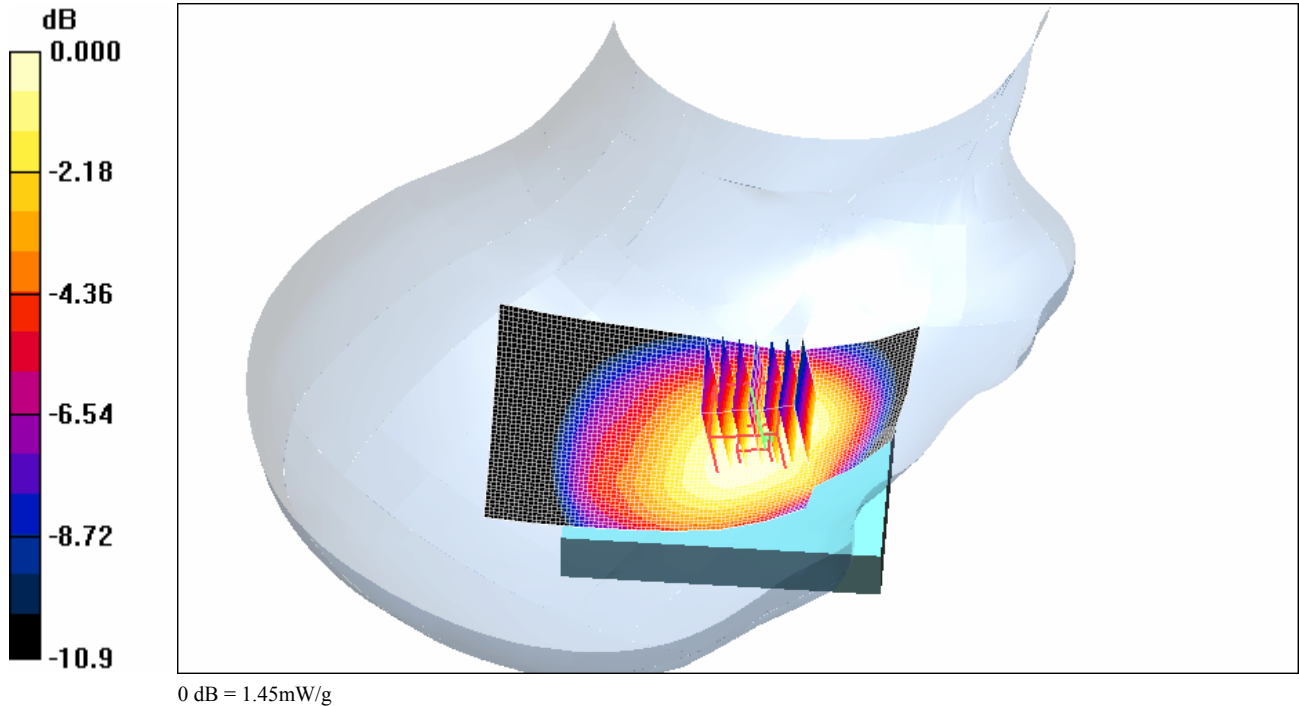
Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.36, 6.36, 6.36); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Touch position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.46 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 19.0 V/m; Power Drift = -0.097 dB
Peak SAR (extrapolated) = 1.86 W/kg
SAR(1 g) = 1.38 mW/g; SAR(10 g) = 0.995 mW/g
Maximum value of SAR (measured) = 1.45 mW/g



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Date/Time: 29/06/2006 7:24:29 PM

Test Laboratory: RTS

File Name: [Tilted_Right_CDMA800_Mid_Chan_Battery_1_Amb_temp_24.0_Liq_temp_21.9.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

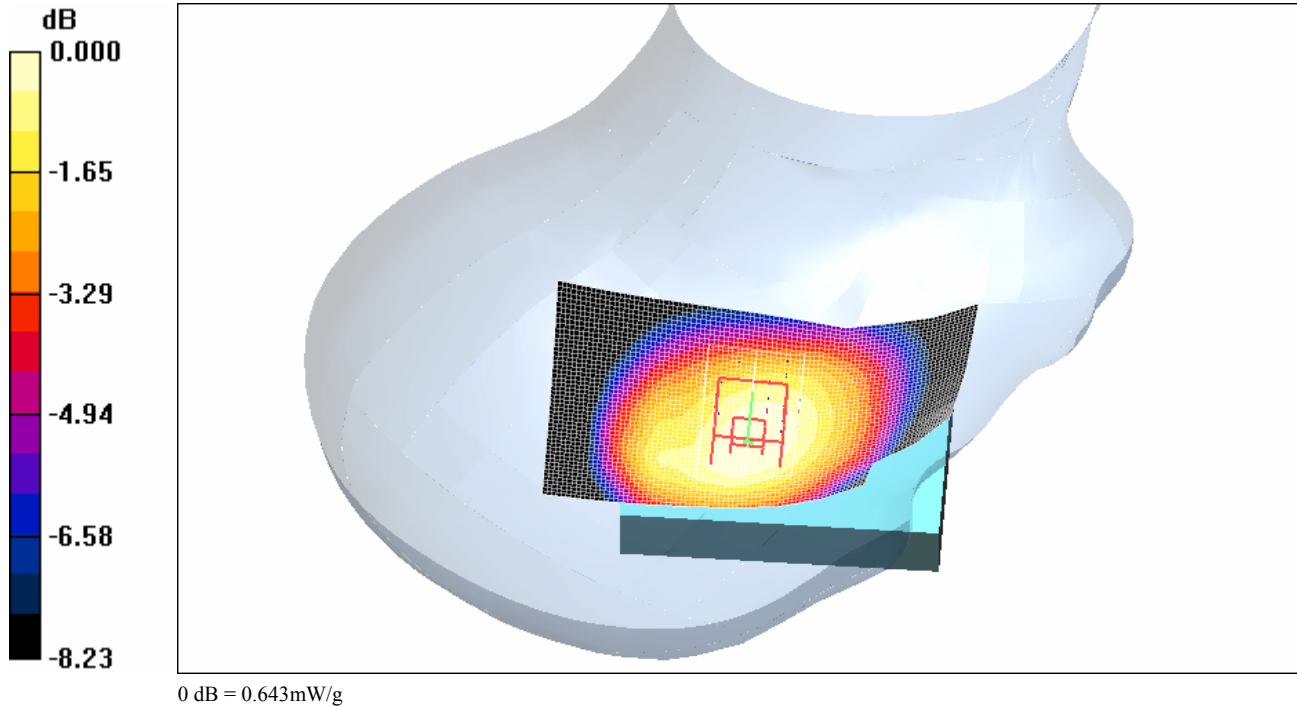
Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.36, 6.36, 6.36); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Touch position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.640 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.7 V/m; Power Drift = 0.008 dB
Peak SAR (extrapolated) = 0.766 W/kg
SAR(1 g) = 0.608 mW/g; SAR(10 g) = 0.459 mW/g
Maximum value of SAR (measured) = 0.643 mW/g



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		FCC ID: L6ARBF20CW	

Date/Time: 29/06/2006 8:12:06 PM

Test Laboratory: RTS

File Name: [Touch_Left_CDMA800_Low_Chan_Battery_1_Amb_temp_24.2_Liq_temp_22.3.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 824.7 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.36, 6.36, 6.36); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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) = 1.34 mW/g

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

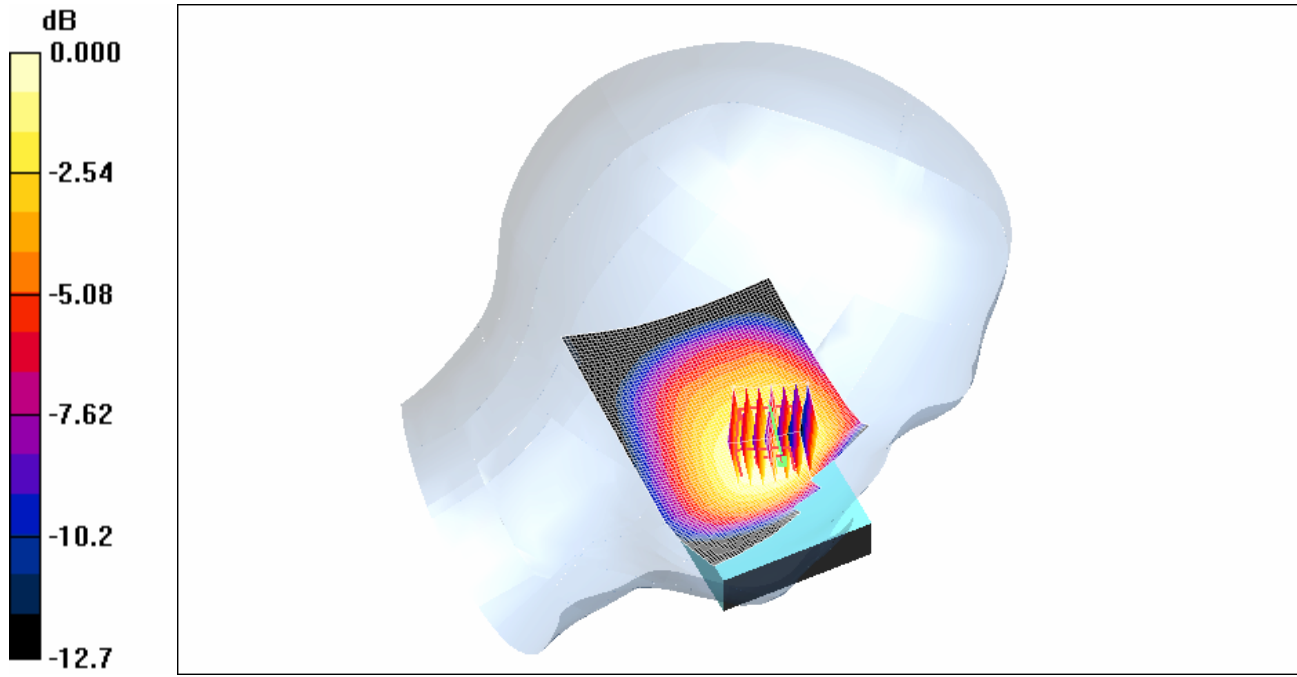
Reference Value = 19.8 V/m; Power Drift = -0.144 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.843 mW/g

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

Maximum value of SAR (measured) = 1.23 mW/g



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Date/Time: 29/06/2006 7:49:24 PM

Test Laboratory: RTS

File Name: [Touch_Left_CDMA800_Mid_Chan_Battery_1_Amb_temp_24.0_Liq_temp_21.7.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

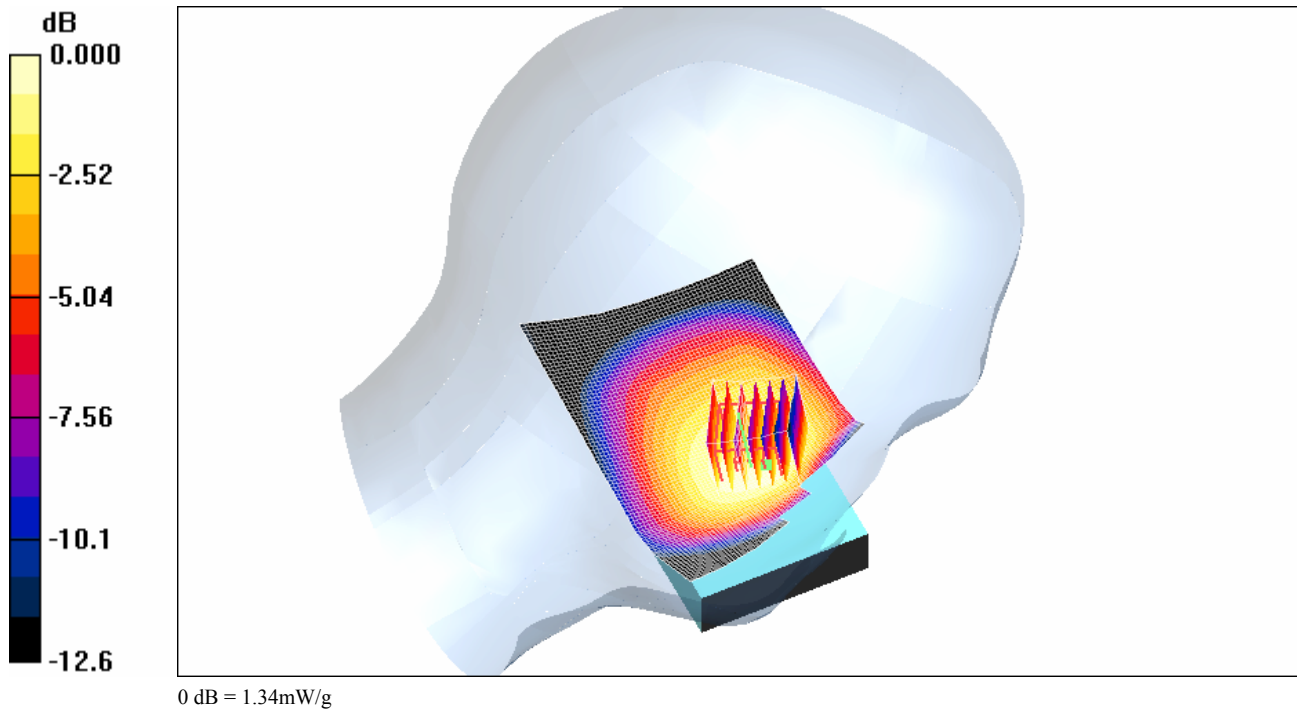
Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.36, 6.36, 6.36); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Touch position - Middle/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.47 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 20.3 V/m; Power Drift = -0.056 dB
Peak SAR (extrapolated) = 1.74 W/kg
SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.922 mW/g
Maximum value of SAR (measured) = 1.34 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 29/06/2006 8:36:57 PM

Test Laboratory: RTS

File Name: [Touch_Left_CDMA800_High_Chan_Battery_1_Amb_temp_24.0_Liq_temp_22.2.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

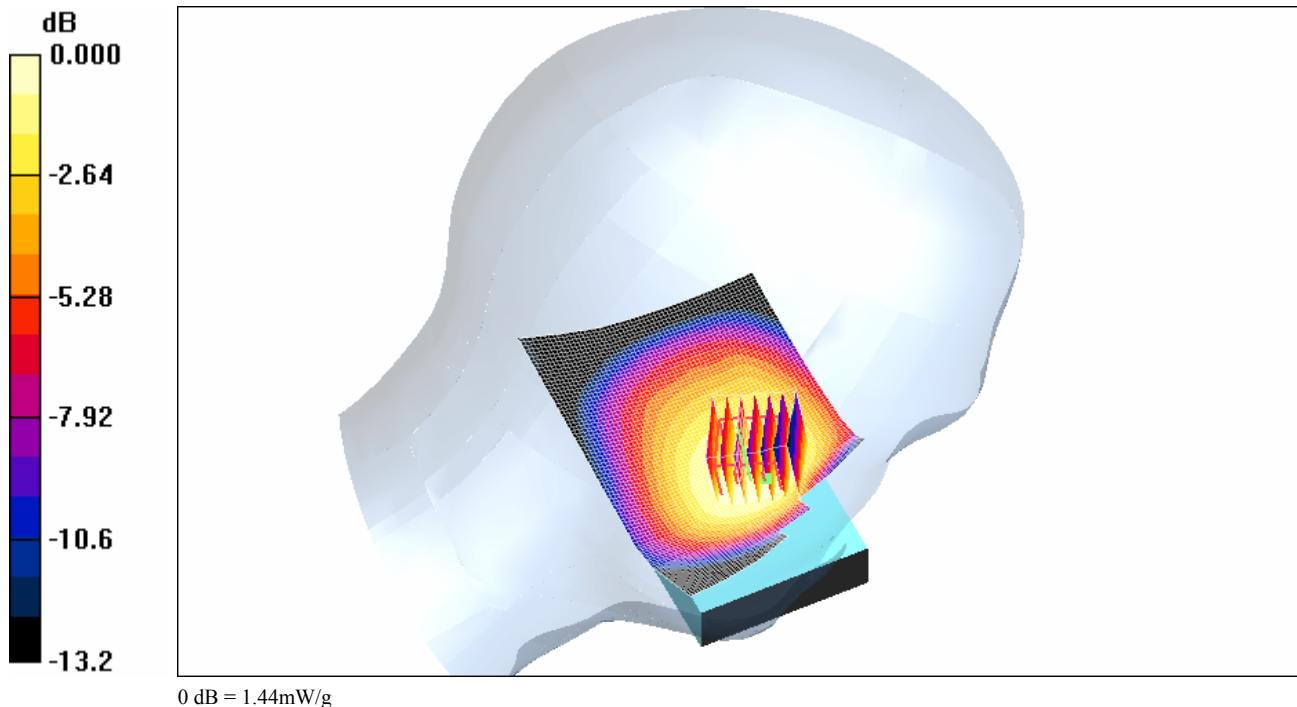
Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.36, 6.36, 6.36); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Touch position - Middle/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.54 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 21.2 V/m; Power Drift = -0.084 dB
Peak SAR (extrapolated) = 1.88 W/kg
SAR(1 g) = 1.37 mW/g; SAR(10 g) = 0.976 mW/g
Maximum value of SAR (measured) = 1.44 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 29/06/2006 9:00:03 PM

Test Laboratory: RTS

File Name: [Tilted_Left_CDMA800_Mid_Chan_Battery_1_Amb_temp_23.8_Liq_temp_22.1.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

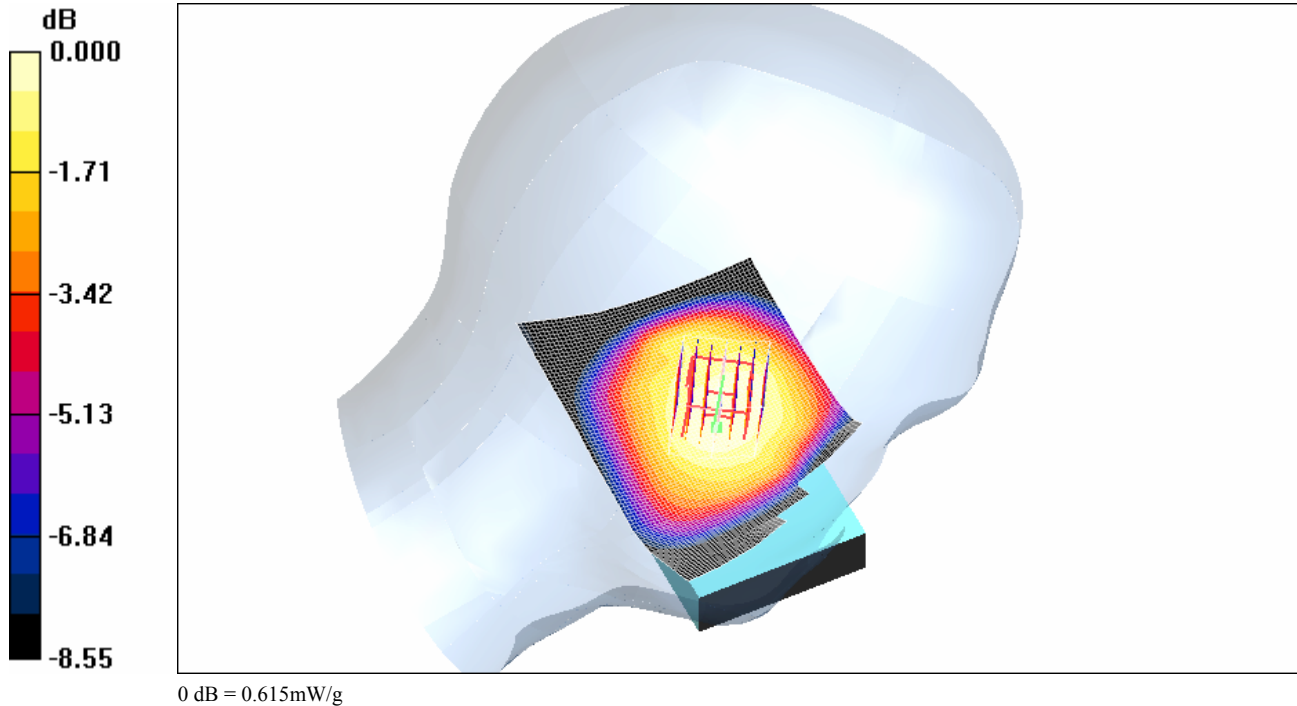
Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.3$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.36, 6.36, 6.36); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.613 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 23.1 V/m; Power Drift = -0.076 dB
Peak SAR (extrapolated) = 0.740 W/kg
SAR(1 g) = 0.588 mW/g; SAR(10 g) = 0.448 mW/g
Maximum value of SAR (measured) = 0.615 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09
		FCC ID: L6ARBF20CW	

Date/Time: 29/06/2006 9:24:15 PM

Test Laboratory: RTS

File Name: [Touch_Right_CDMA800_High_Chan_Battery_2_Amb_temp_24.3_Liq_temp_22.2.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

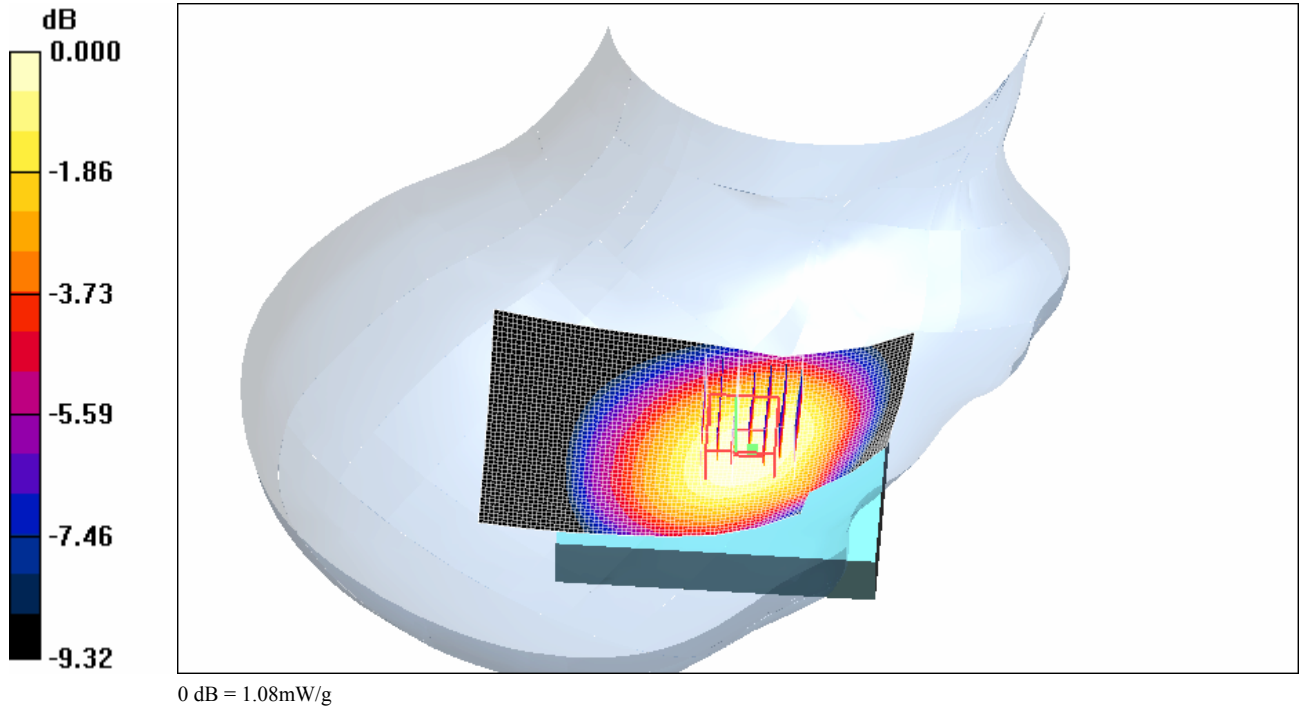
Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.36, 6.36, 6.36); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Touch position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.10 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 15.5 V/m; Power Drift = -0.260 dB
Peak SAR (extrapolated) = 1.31 W/kg
SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.751 mW/g
Maximum value of SAR (measured) = 1.08 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 29/06/2006 9:46:48 PM

Test Laboratory: RTS

File Name: [Touch_Right_CDMA800_High_Chan_Battery_3_Amb_temp_23.4_Liq_temp_21.6.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

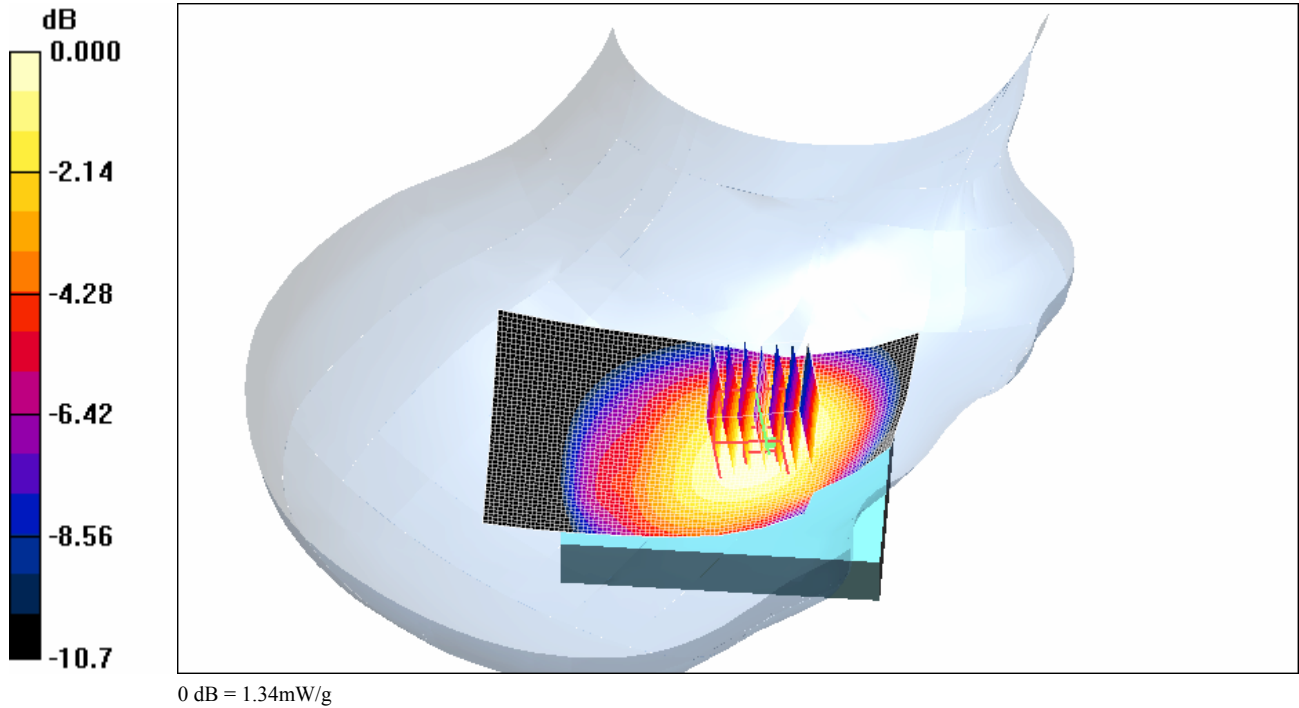
Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.36, 6.36, 6.36); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Touch position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.35 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 17.2 V/m; Power Drift = -0.117 dB
Peak SAR (extrapolated) = 1.70 W/kg
SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.920 mW/g
Maximum value of SAR (measured) = 1.34 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 26/06/2006 8:05:19 PM

Test Laboratory: RTS

File Name: [Touch_Right_CDMA1900_Low_Chan_Battery_1_Amb_temp_24.6_Liq_temp_22.5.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.18, 5.18, 5.18); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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) = 1.51 mW/g

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

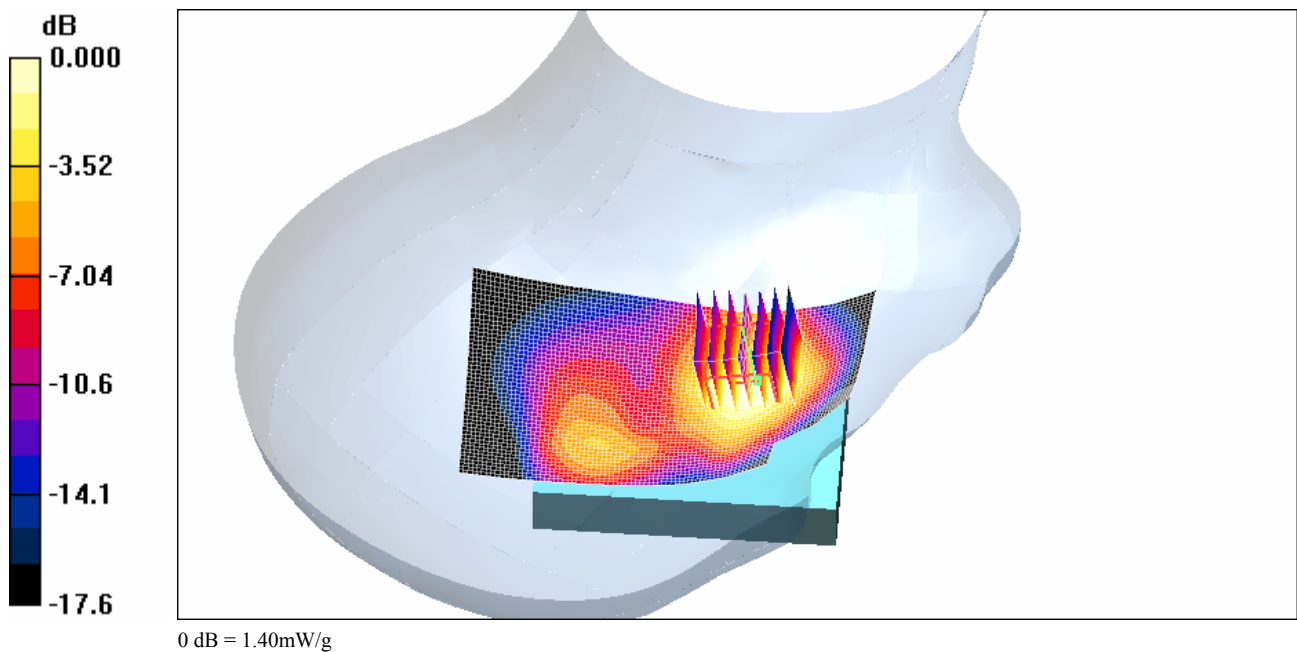
Reference Value = 13.5 V/m; Power Drift = -0.361 dB

Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.752 mW/g

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

Maximum value of SAR (measured) = 1.40 mW/g



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Date/Time: 26/06/2006 7:41:19 PM

Test Laboratory: RTS

File Name: [Touch_Right_CDMA1900_Mid_Chan_Battery_1_Amb_temp_24.3_Liq_temp_22.3.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

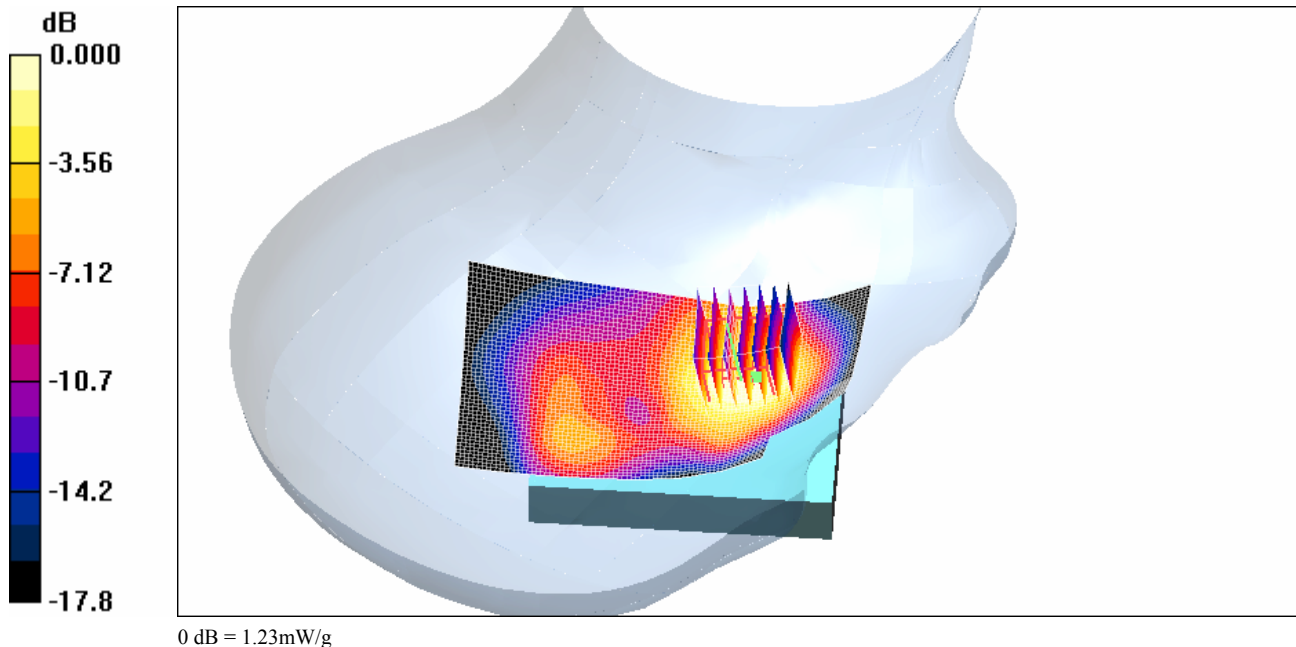
Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.18, 5.18, 5.18); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Touch position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.37 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.3 V/m; Power Drift = -0.405 dB
Peak SAR (extrapolated) = 1.60 W/kg
SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.661 mW/g
Maximum value of SAR (measured) = 1.23 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 26/06/2006 8:32:46 PM

Test Laboratory: RTS

File Name: [Touch_Right_CDMA1900_High_Chan_Battery_1_Amb_temp_24.7_Liq_temp_22.3.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.1$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.18, 5.18, 5.18); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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) = 0.656 mW/g

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

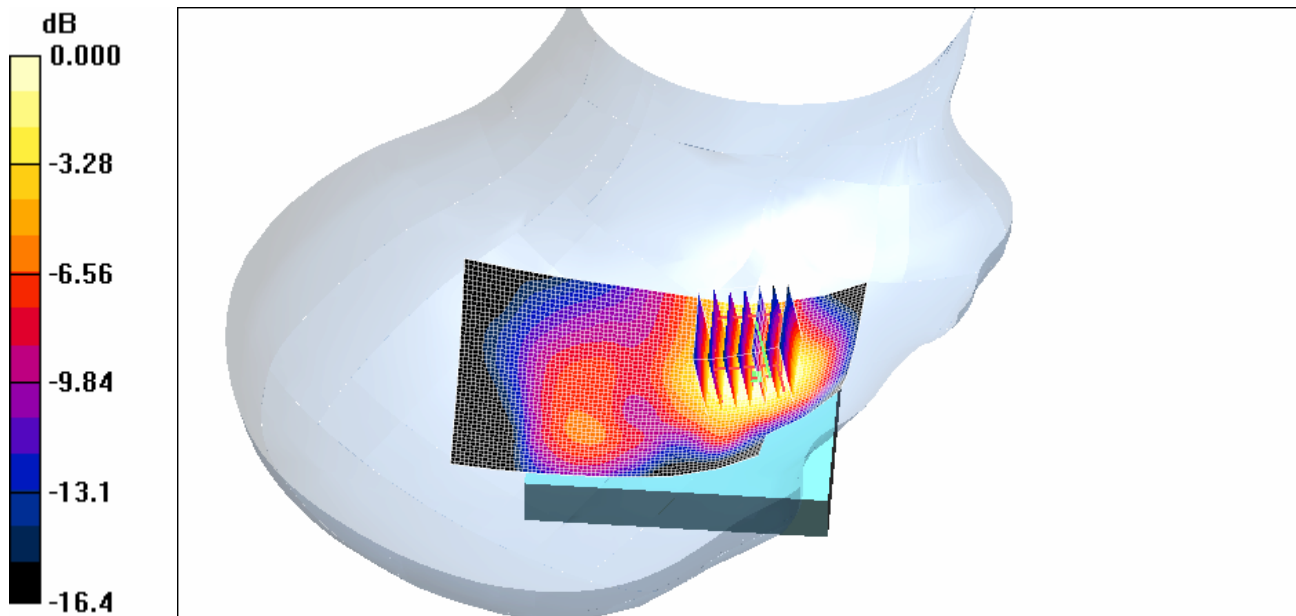
Reference Value = 8.47 V/m; Power Drift = -0.211 dB

Peak SAR (extrapolated) = 0.845 W/kg

SAR(1 g) = 0.525 mW/g; SAR(10 g) = 0.313 mW/g

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

Maximum value of SAR (measured) = 0.584 mW/g



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Date/Time: 26/06/2006 9:13:29 PM

Test Laboratory: RTS

File Name: [Tilted_Right_CDMA1900_Mid_Chan_Battery_1_Amb_temp_24.7_Liq_temp_22.4.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³
Phantom section: Right Section

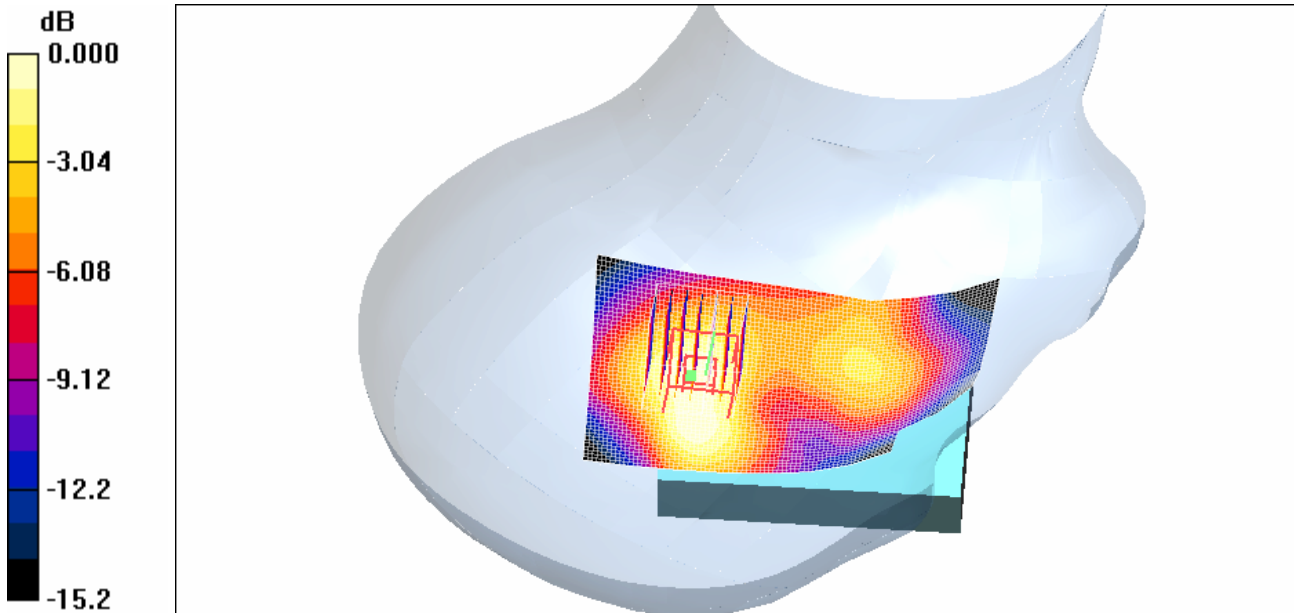
DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.18, 5.18, 5.18); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Touch position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.216 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.4 V/m; Power Drift = -0.125 dB
Peak SAR (extrapolated) = 0.312 W/kg
SAR(1 g) = 0.203 mW/g; SAR(10 g) = 0.122 mW/g

Maximum value of SAR (measured) = 0.221 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09
		FCC ID: L6ARBF20CW	

Date/Time: 26/06/2006 10:05:28 PM

Test Laboratory: RTS

File Name: [Touch_Left_CDMA1900_Mid_Chan_Battery_1_Amb_temp_24.9_Liq_temp_22.6.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

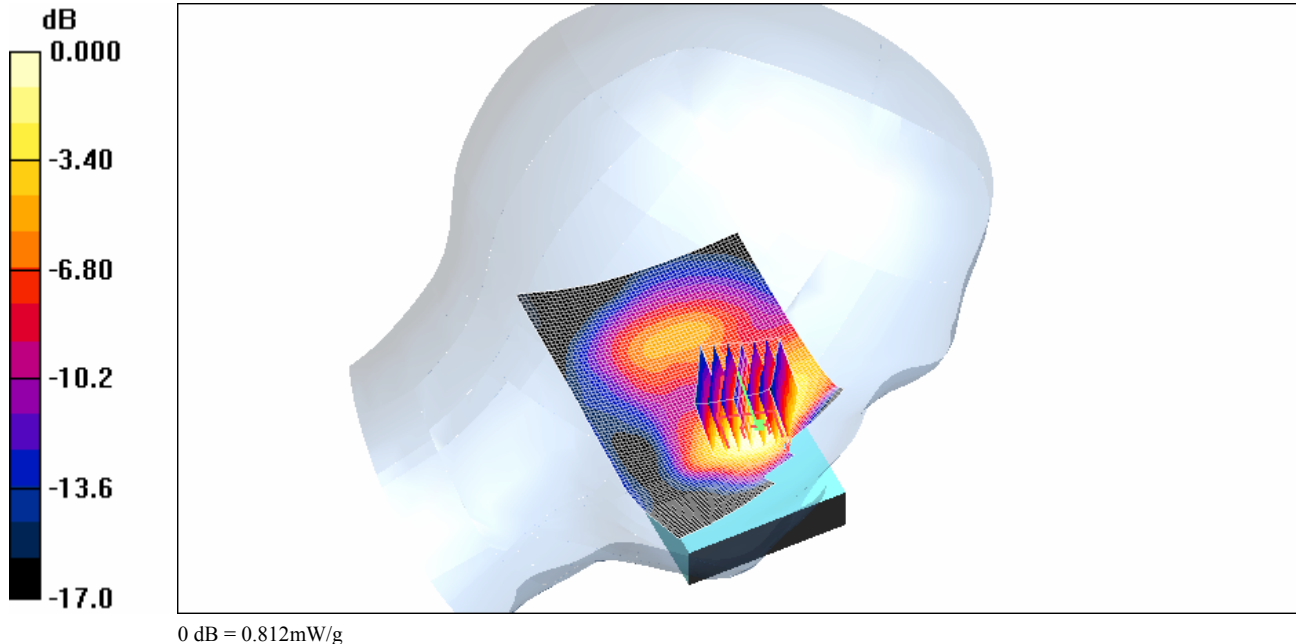
Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.18, 5.18, 5.18); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.948 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.6 V/m; Power Drift = -0.007 dB
Peak SAR (extrapolated) = 1.10 W/kg
SAR(1 g) = 0.751 mW/g; SAR(10 g) = 0.449 mW/g
Maximum value of SAR (measured) = 0.812 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 26/06/2006 10:55:05 PM

Test Laboratory: RTS

File Name: [Tilted_Left_CDMA1900_Low_Chan_Battery_1_Amb_temp_25.0_Liq_temp_22.7.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.18, 5.18, 5.18); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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) = 0.461 mW/g

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

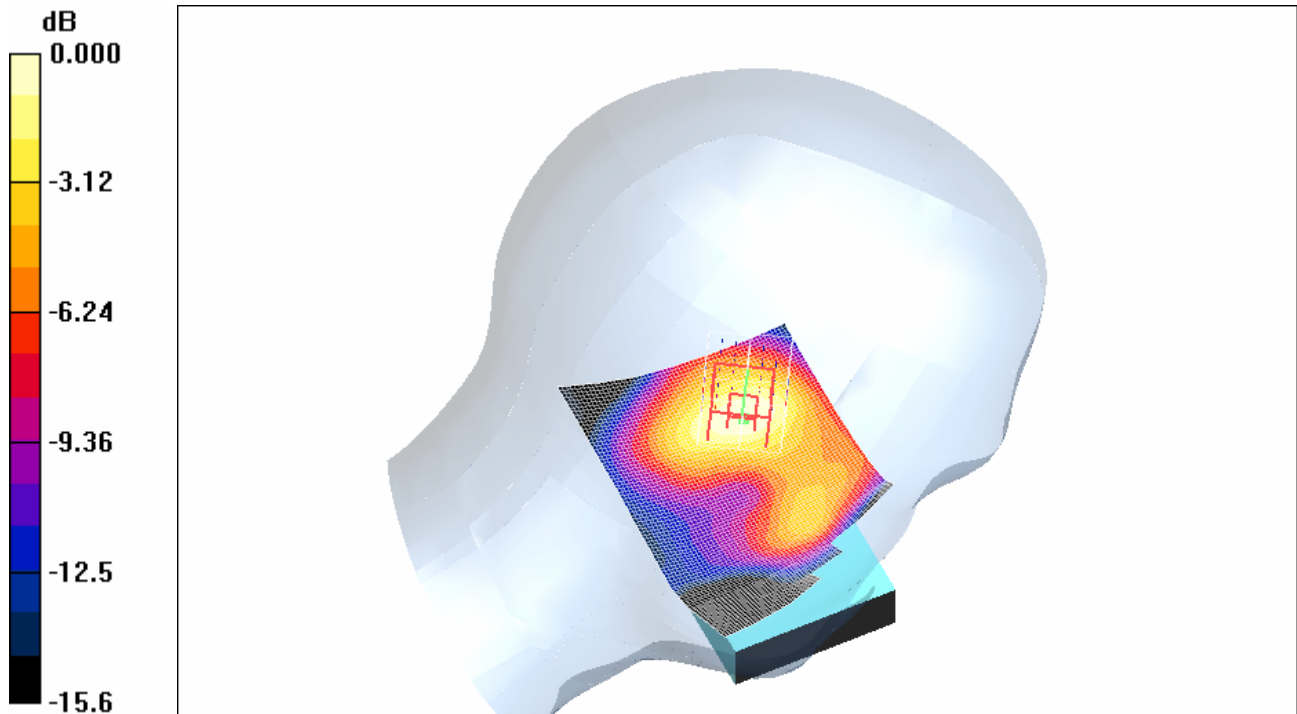
Reference Value = 16.4 V/m; Power Drift = -0.269 dB

Peak SAR (extrapolated) = 0.582 W/kg

SAR(1 g) = 0.389 mW/g; SAR(10 g) = 0.228 mW/g

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

Maximum value of SAR (measured) = 0.439 mW/g



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Date/Time: 26/06/2006 10:31:05 PM

Test Laboratory: RTS

File Name: [Tilted_Left_CDMA1900_Mid_Chan_Battery_1_Amb_temp_24.8_Liq_temp_22.5.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

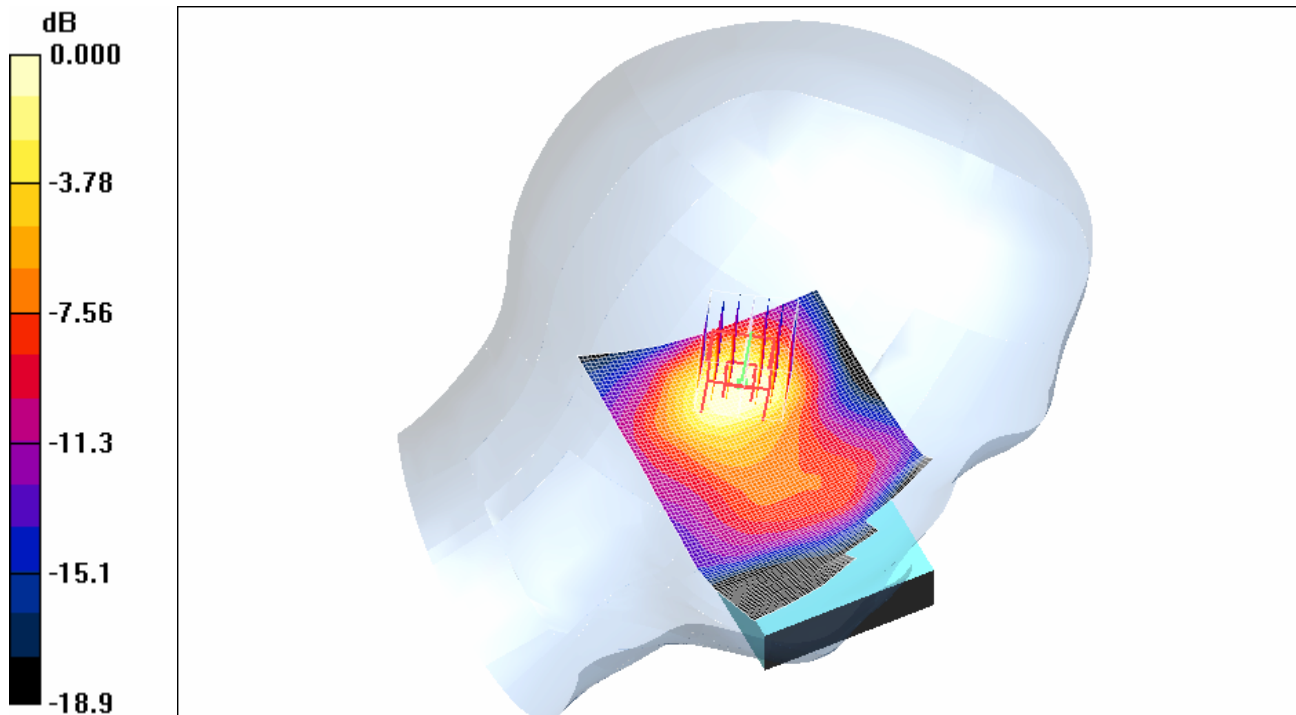
Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.18, 5.18, 5.18); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.26 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 31.3 V/m; Power Drift = -0.187 dB
Peak SAR (extrapolated) = 1.65 W/kg
SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.626 mW/g
Maximum value of SAR (measured) = 1.24 mW/g



0 dB = 1.24mW/g

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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 26/06/2006 11:27:59 PM

Test Laboratory: RTS

File Name: [Tilted_Left_CDMA1900_High_Chan_Battery_1_Amb_temp_25.3_Liq_temp_22.8.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.18, 5.18, 5.18); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

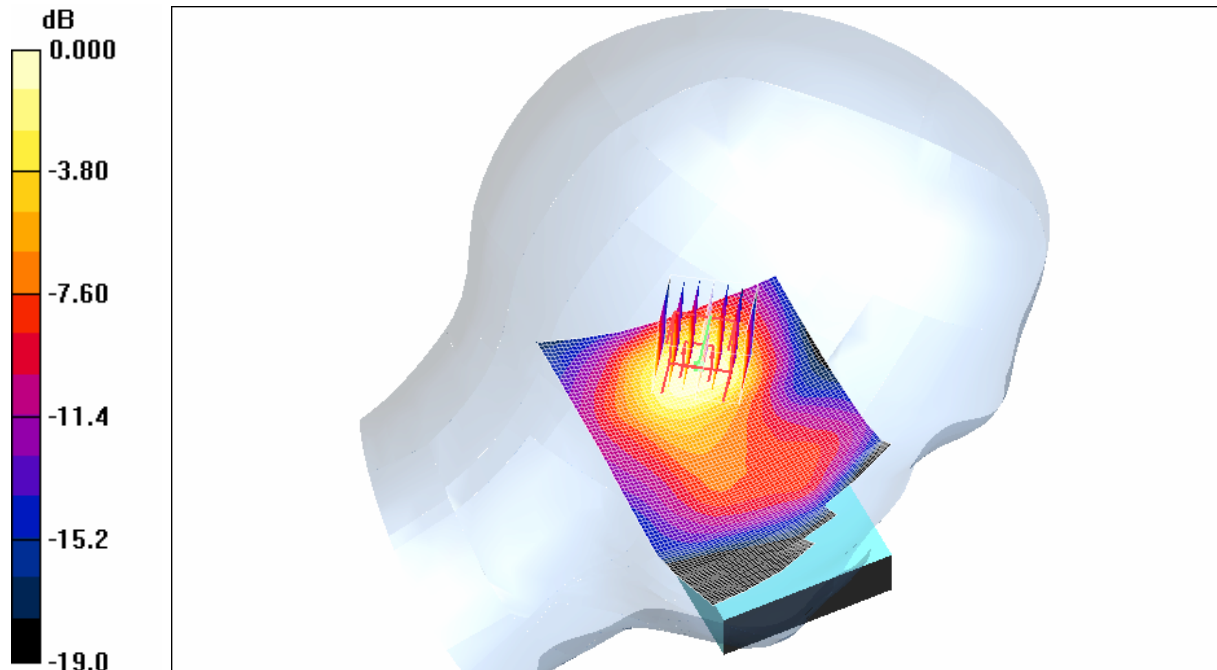
Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.25 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 30.8 V/m; Power Drift = -0.327 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.596 mW/g

Maximum value of SAR (measured) = 1.19 mW/g



0 dB = 1.19mW/g

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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 27/06/2006 5:57:18 PM

Test Laboratory: RTS

File Name: [Touch_Right_CDMA1900_Low_Chan_Battery_2_Amb_temp_23.9_Liq_temp_22.2.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.18, 5.18, 5.18); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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) = 1.42 mW/g

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

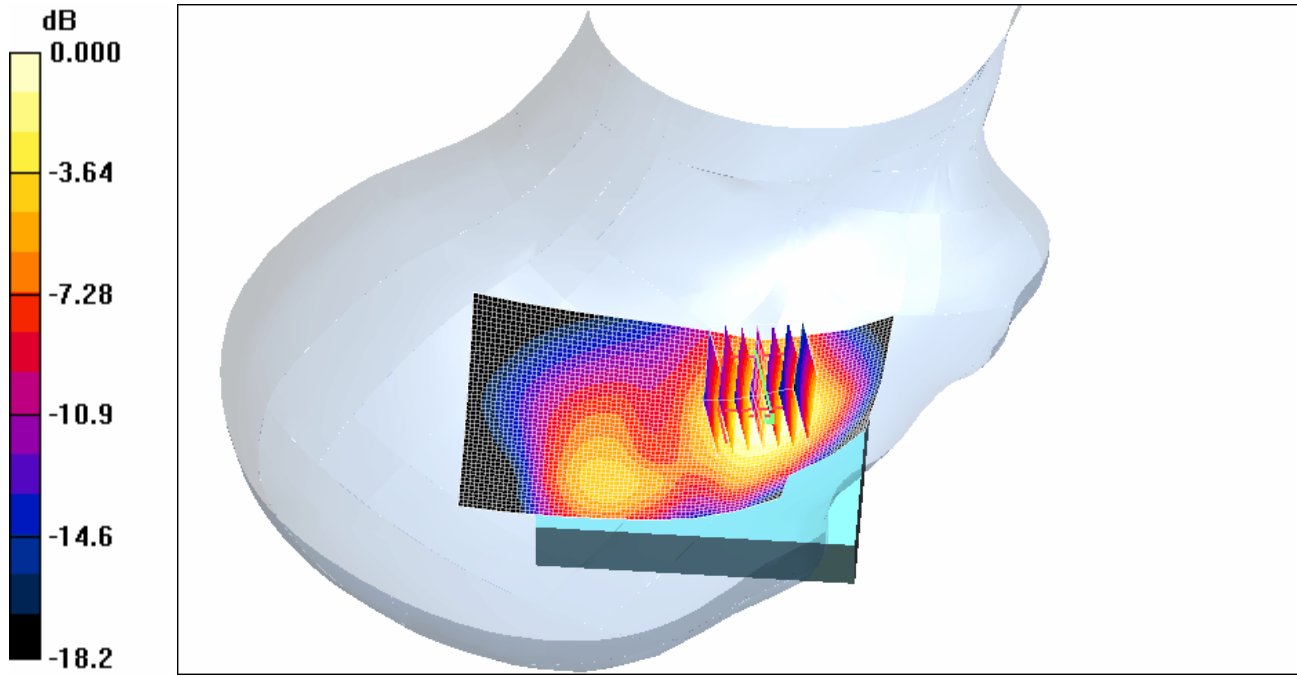
Reference Value = 12.9 V/m; Power Drift = -0.564 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.693 mW/g

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

Maximum value of SAR (measured) = 1.28 mW/g



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Date/Time: 28/06/2006 6:06:42 PM

Test Laboratory: RTS

File Name: [Touch_Right_CDMA1900_Low_Chan_Battery_3_Amb_temp_24.3_Liq_temp_22.0.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.18, 5.18, 5.18); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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) = 1.55 mW/g

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

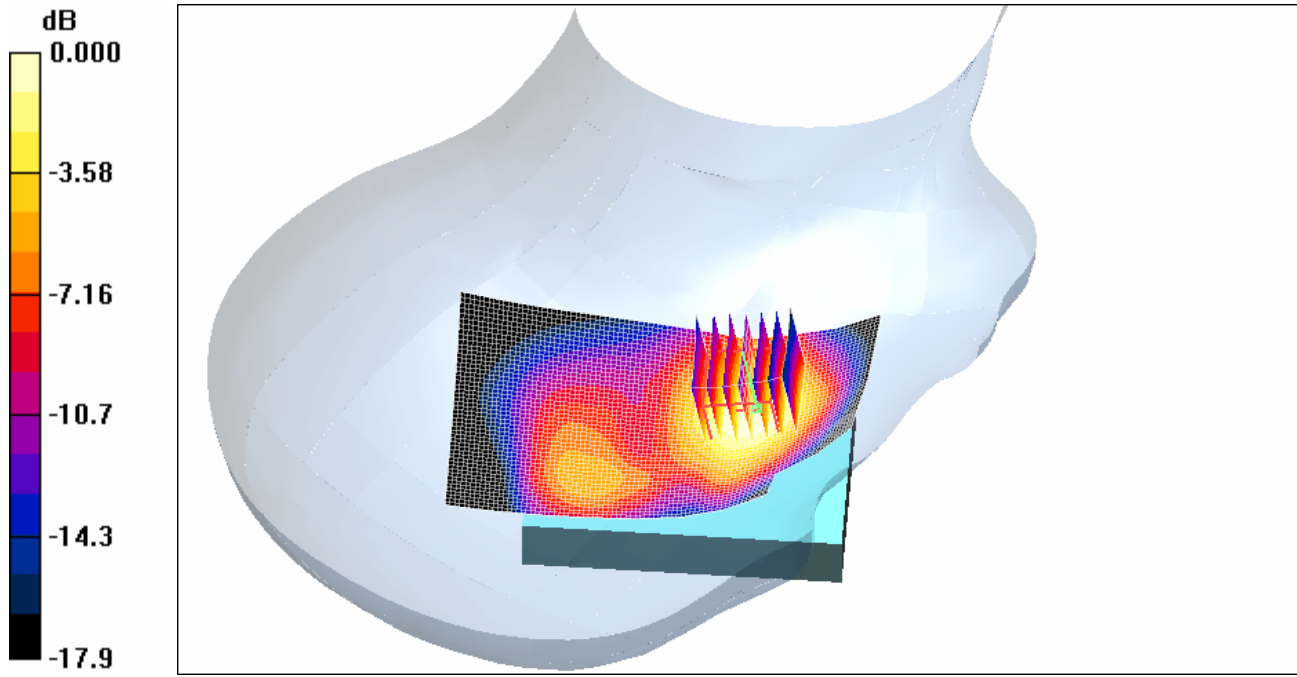
Reference Value = 13.9 V/m; Power Drift = -0.332 dB

Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.784 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

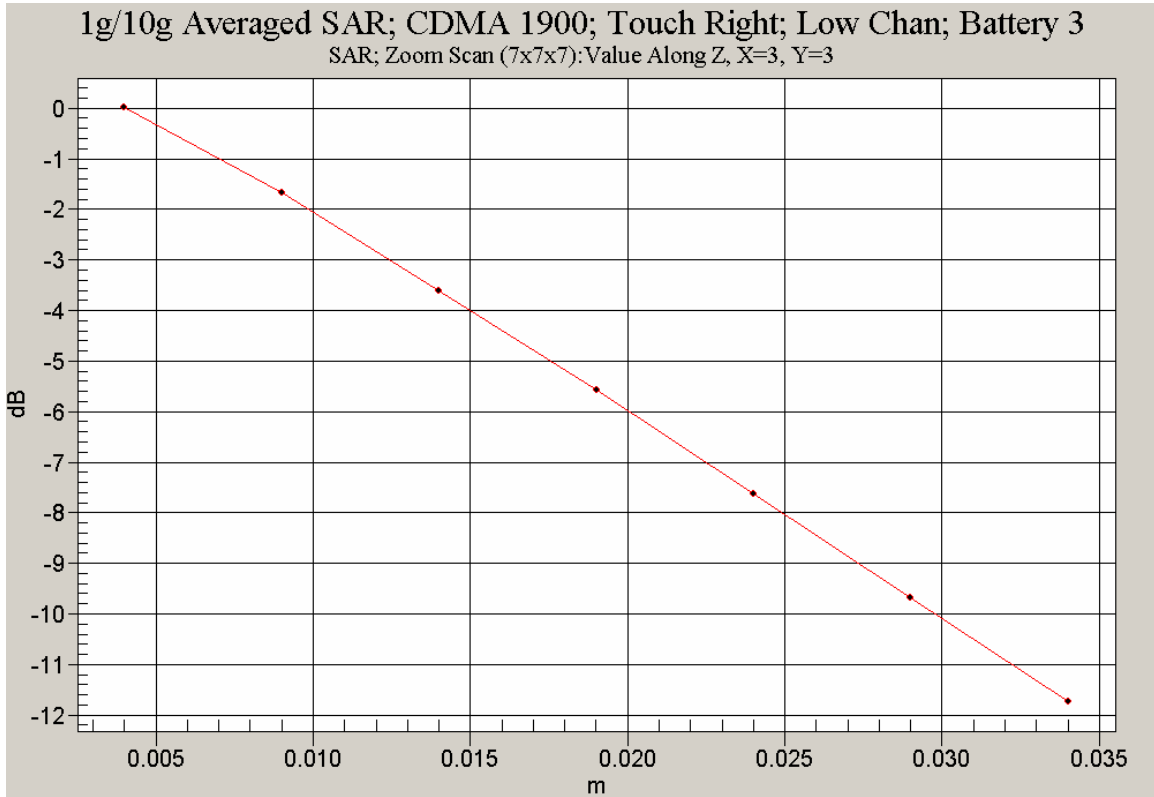
Maximum value of SAR (measured) = 1.46 mW/g



0 dB = 1.46mW/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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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 29/06/2006 11:00:43 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster1_Front_LowChan_Amb_temp_23.2_Liq_temp_21.5.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 824.7$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 32.2 V/m; Power Drift = -0.071 dB
Peak SAR (extrapolated) = 1.24 W/kg
SAR(1 g) = 0.958 mW/g; SAR(10 g) = 0.705 mW/g

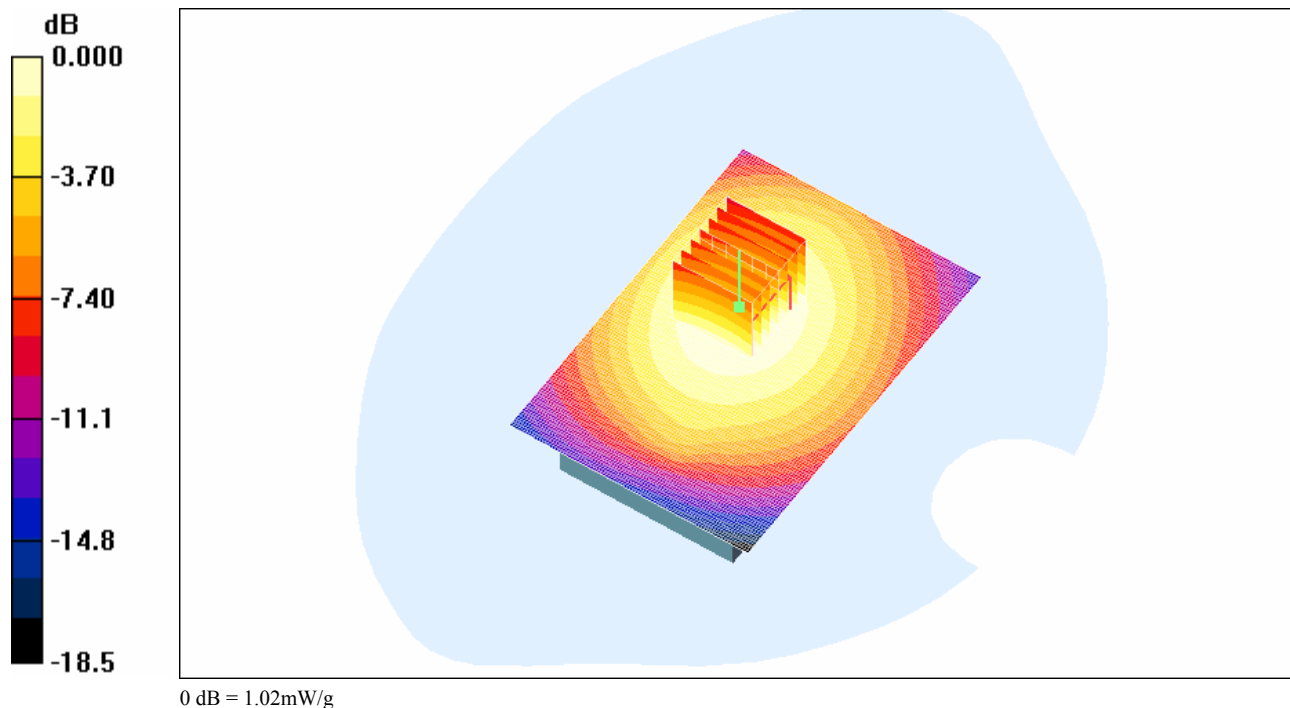
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.02 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) = 1.02 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 29/06/2006 10:29:12 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster1_Front_MidChan_Amb_temp_23.3_Liq_temp_21.8.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 33.2 V/m; Power Drift = -0.137 dB

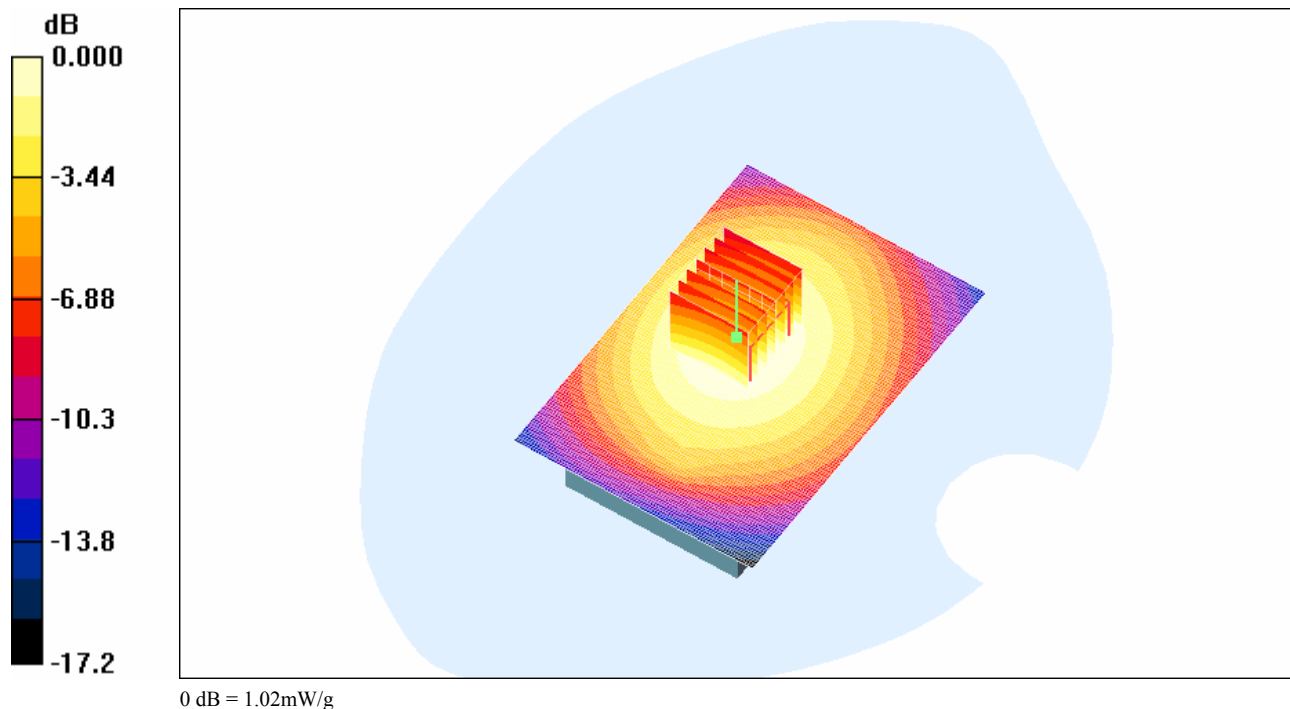
Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.951 mW/g; SAR(10 g) = 0.704 mW/g

Maximum value of SAR (measured) = 1.00 mW/g

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

Maximum value of SAR (interpolated) = 1.02 mW/g



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Date/Time: 29/06/2006 11:30:49 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster1_Front_HighChan_Amb_temp_23.4_Liq_temp_21.6.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 54.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 32.9 V/m; Power Drift = -0.155 dB

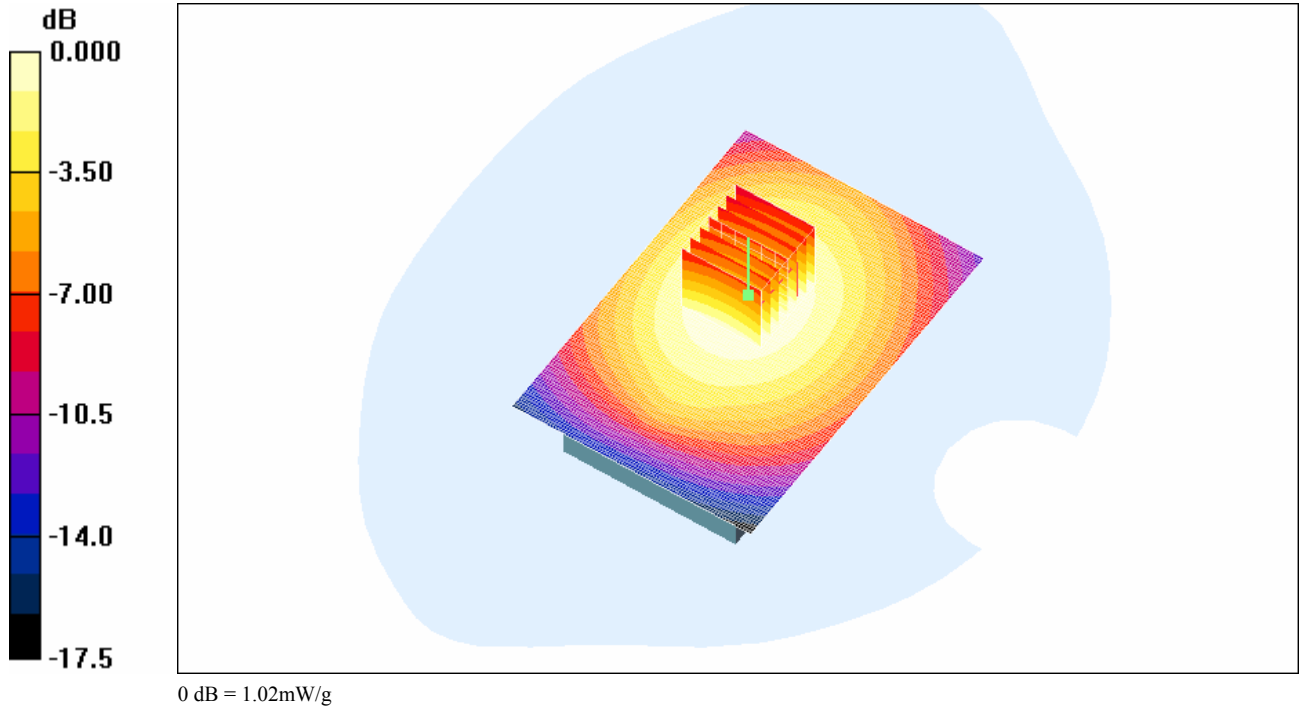
Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.953 mW/g; SAR(10 g) = 0.701 mW/g

Maximum value of SAR (measured) = 1.01 mW/g

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

Maximum value of SAR (interpolated) = 1.02 mW/g



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Date/Time: 30/06/2006 12:06:54 AM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster2_Front_MidChan_Amb_temp_23.4_Liq_temp_21.5.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 29.7 V/m; Power Drift = -0.283 dB

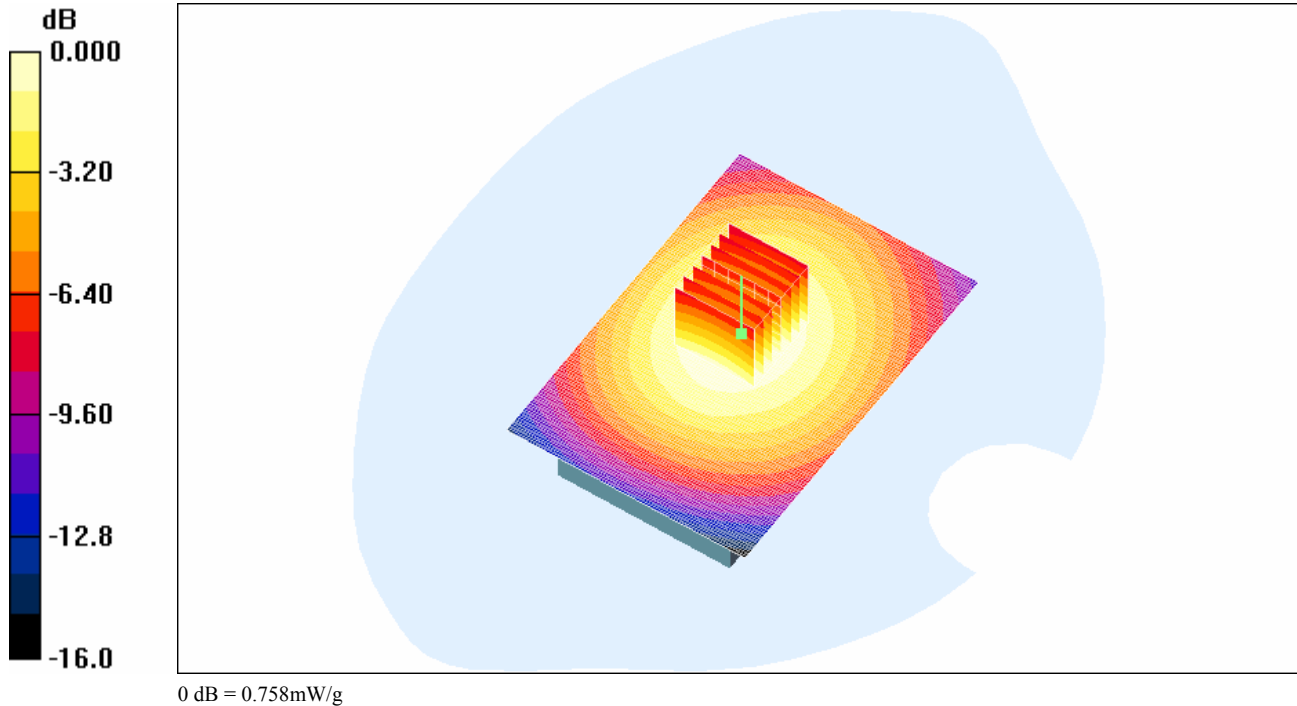
Peak SAR (extrapolated) = 0.914 W/kg

SAR(1 g) = 0.715 mW/g; SAR(10 g) = 0.529 mW/g

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

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

Maximum value of SAR (interpolated) = 0.758 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 30/06/2006 5:47:01 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster2_Back_LowChan_Amb_temp_23.3_Liq_temp_21.7.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 824.7$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 31.2 V/m; Power Drift = -0.056 dB
Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.858 mW/g; SAR(10 g) = 0.633 mW/g

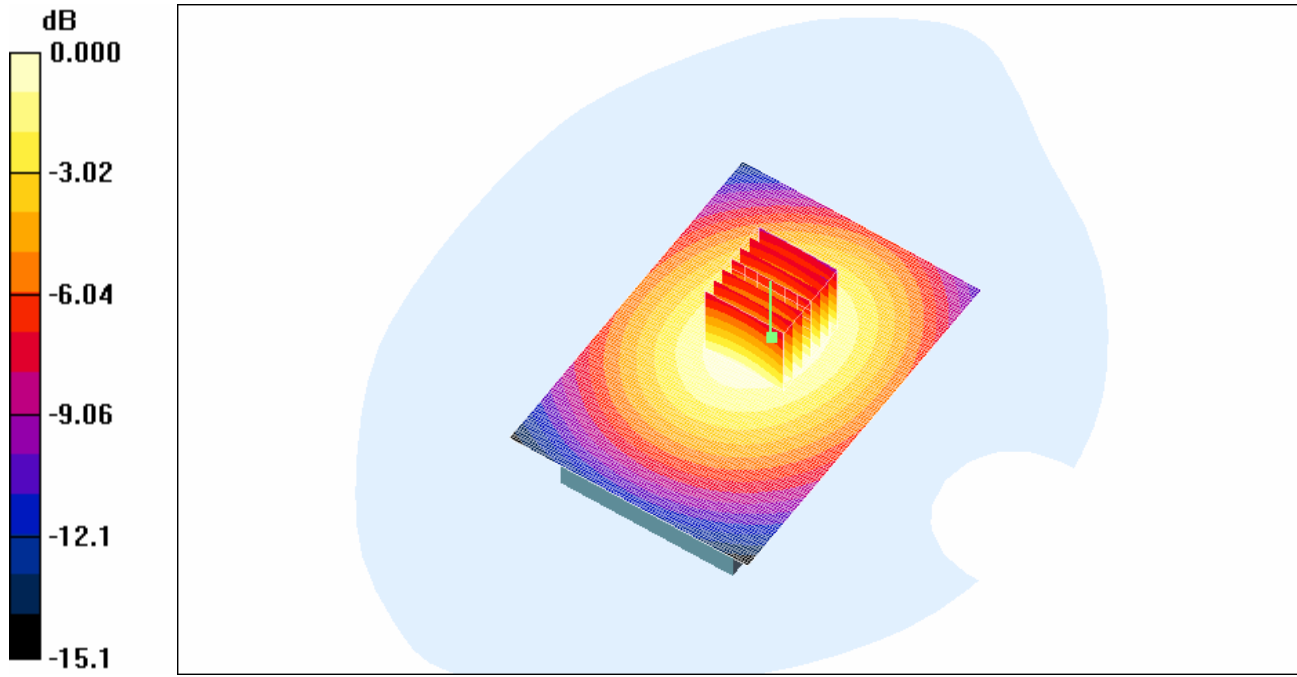
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.912 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) = 0.919 mW/g



0 dB = 0.919mW/g

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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 30/06/2006 5:19:17 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster2_Back_MidChan_Amb_temp_23.2_Liq_temp_21.8.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

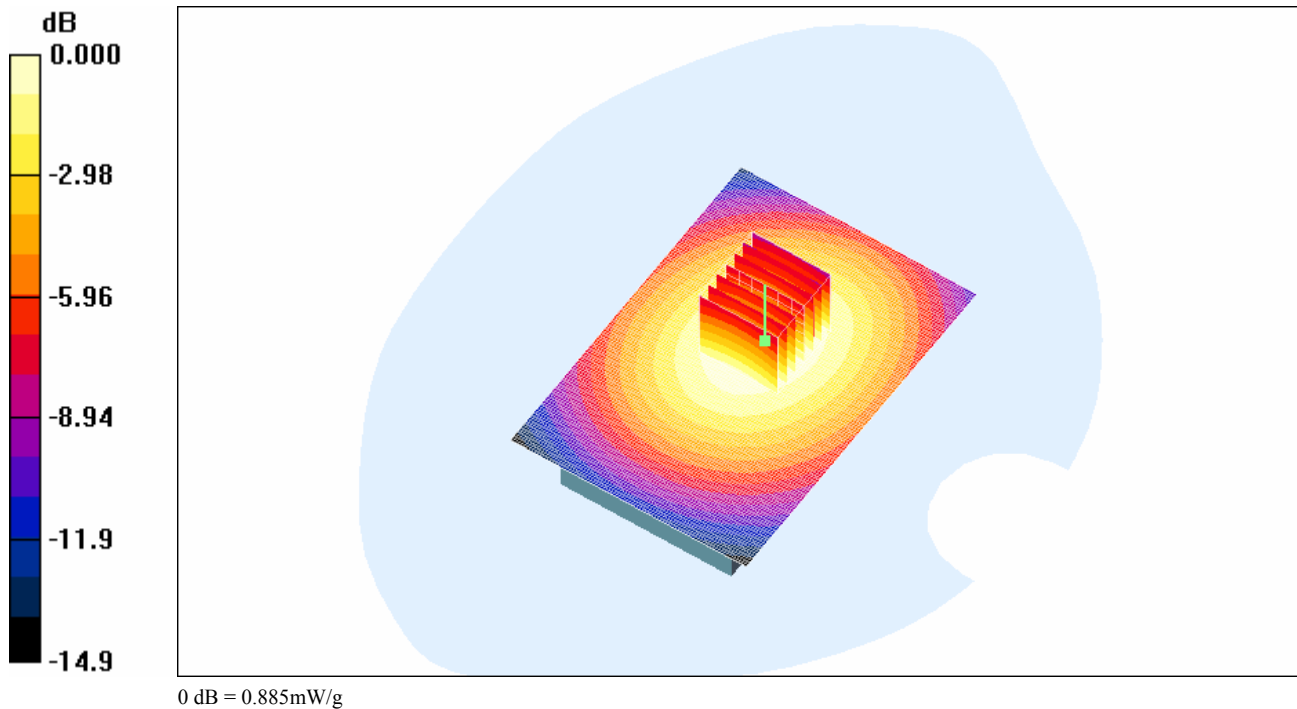
Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 31.3 V/m; Power Drift = -0.289 dB
Peak SAR (extrapolated) = 1.01 W/kg
SAR(1 g) = 0.813 mW/g; SAR(10 g) = 0.602 mW/g
Maximum value of SAR (measured) = 0.859 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.885 mW/g



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Date/Time: 30/06/2006 6:15:48 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster2_Back_HighChan_Amb_temp_23.2_Liq_temp_21.9.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

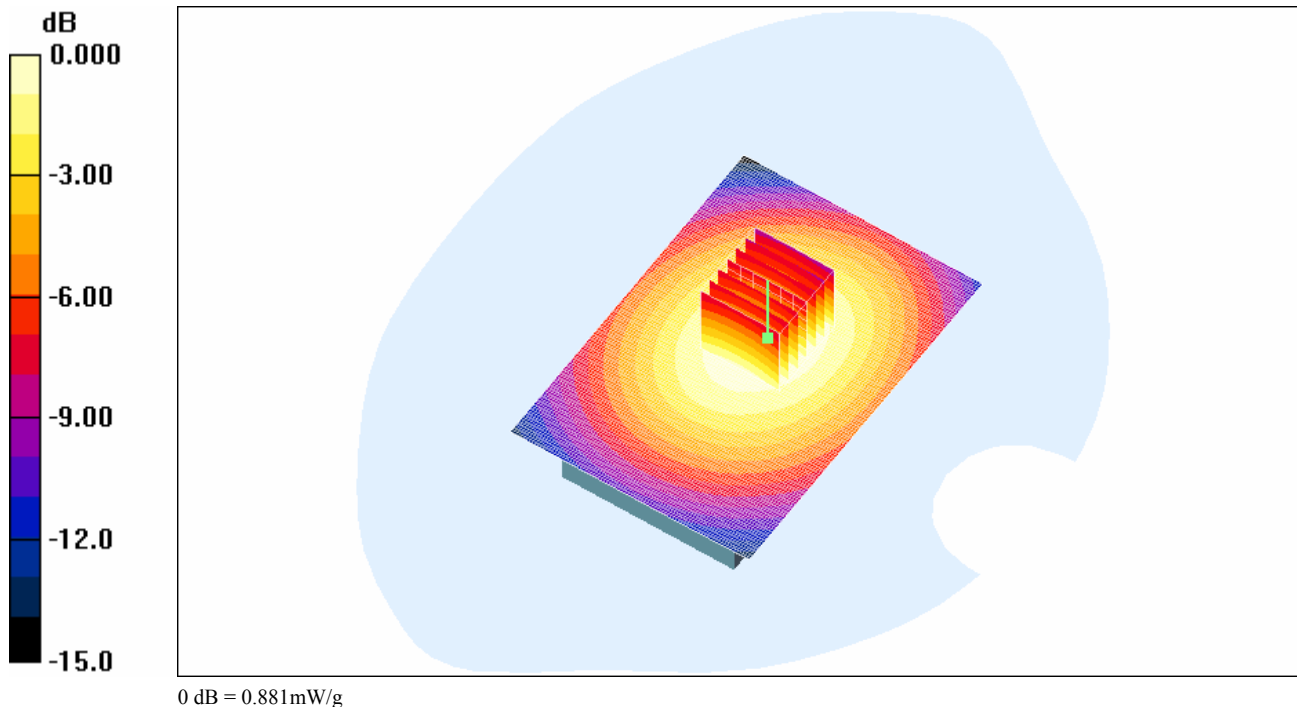
Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 32.4 V/m; Power Drift = -0.231 dB
Peak SAR (extrapolated) = 1.02 W/kg
SAR(1 g) = 0.815 mW/g; SAR(10 g) = 0.601 mW/g
Maximum value of SAR (measured) = 0.860 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.881 mW/g



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Date/Time: 30/06/2006 2:06:41 AM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster4_Front_MidChan_Amb_temp_23.8_Liq_temp_22.0.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 54.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 17.2 V/m; Power Drift = -0.088 dB

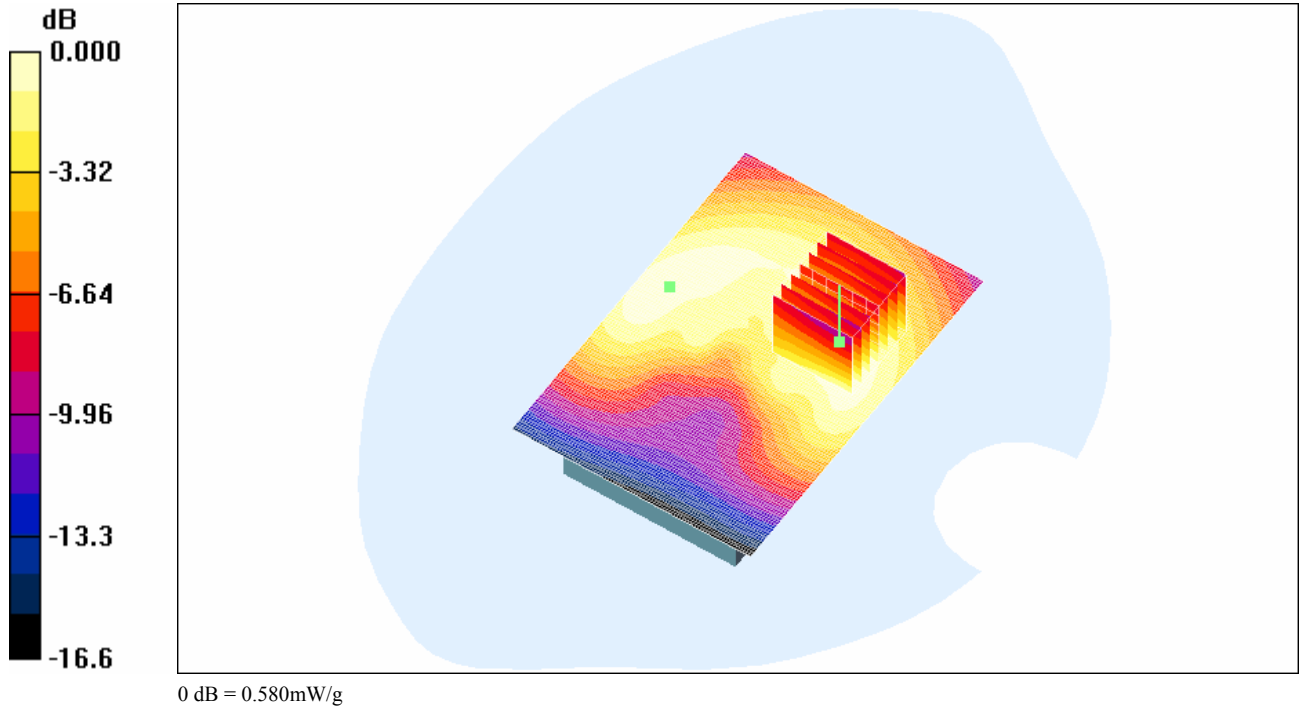
Peak SAR (extrapolated) = 0.798 W/kg

SAR(1 g) = 0.544 mW/g; SAR(10 g) = 0.372 mW/g

Maximum value of SAR (measured) = 0.586 mW/g

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

Maximum value of SAR (interpolated) = 0.580 mW/g



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Date/Time: 30/06/2006 6:45:41 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster4_Back_MidChan_Amb_temp_23.8_Liq_temp_22.1.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

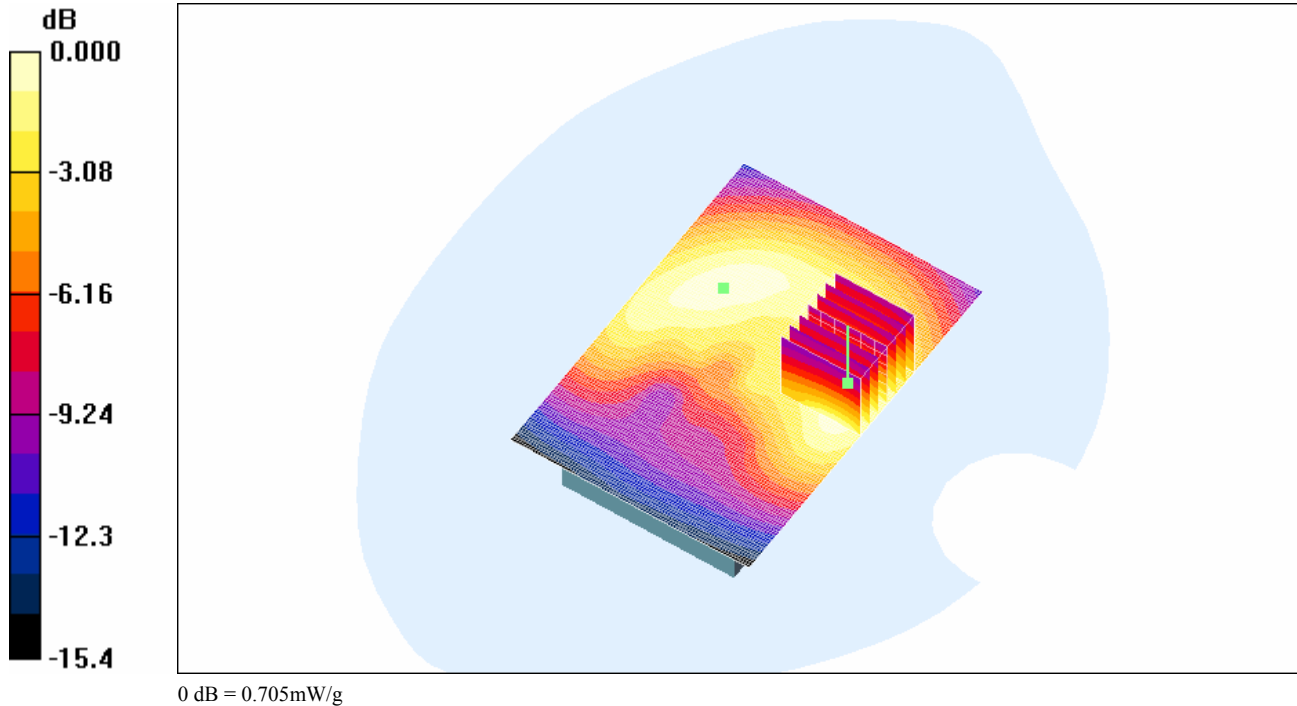
Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.2 V/m; Power Drift = -0.026 dB
Peak SAR (extrapolated) = 1.01 W/kg
SAR(1 g) = 0.647 mW/g; SAR(10 g) = 0.423 mW/g
Maximum value of SAR (measured) = 0.702 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.705 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 30/06/2006 11:10:29 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_15mm_away_Back_LowChan_Amb_temp_23.5_Liq_temp_21.6.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 824.7$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.4 V/m; Power Drift = -0.023 dB
Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.847 mW/g; SAR(10 g) = 0.621 mW/g

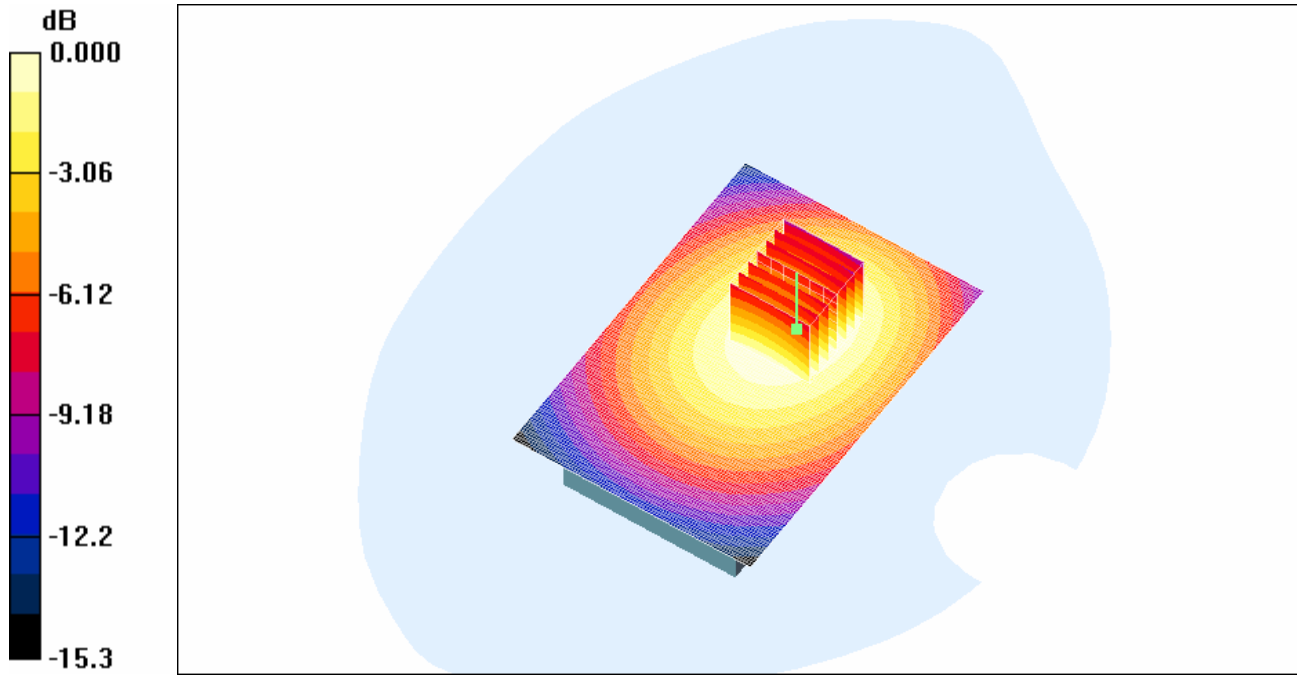
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.892 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) = 0.891 mW/g



0 dB = 0.891mW/g

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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 30/06/2006 10:43:11 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_15mm_away_Back_MidChan_Amb_temp_23.7_Liq_temp_21.9.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 30.9 V/m; Power Drift = -0.033 dB

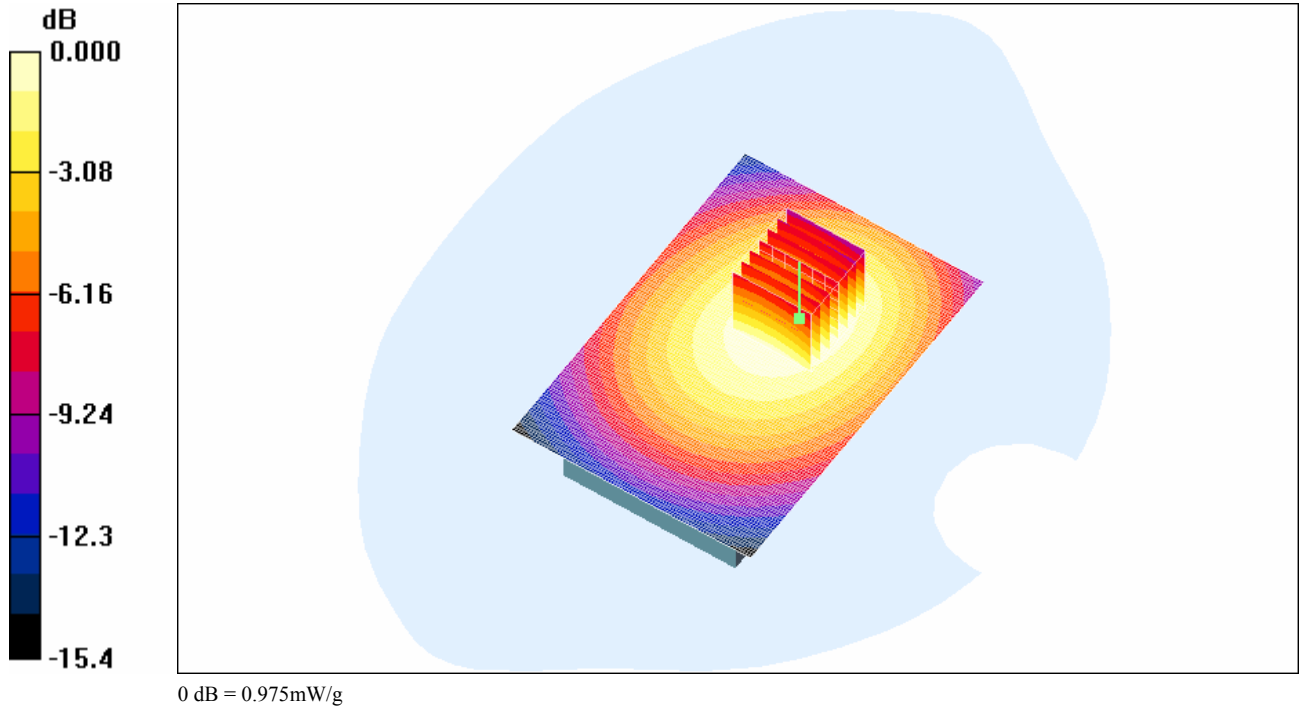
Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.914 mW/g; SAR(10 g) = 0.671 mW/g

Maximum value of SAR (measured) = 0.966 mW/g

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

Maximum value of SAR (interpolated) = 0.975 mW/g



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Date/Time: 30/06/2006 11:38:05 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_15mm_away_Back_HighChan_Amb_temp_23.7_Liq_temp_21.3.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

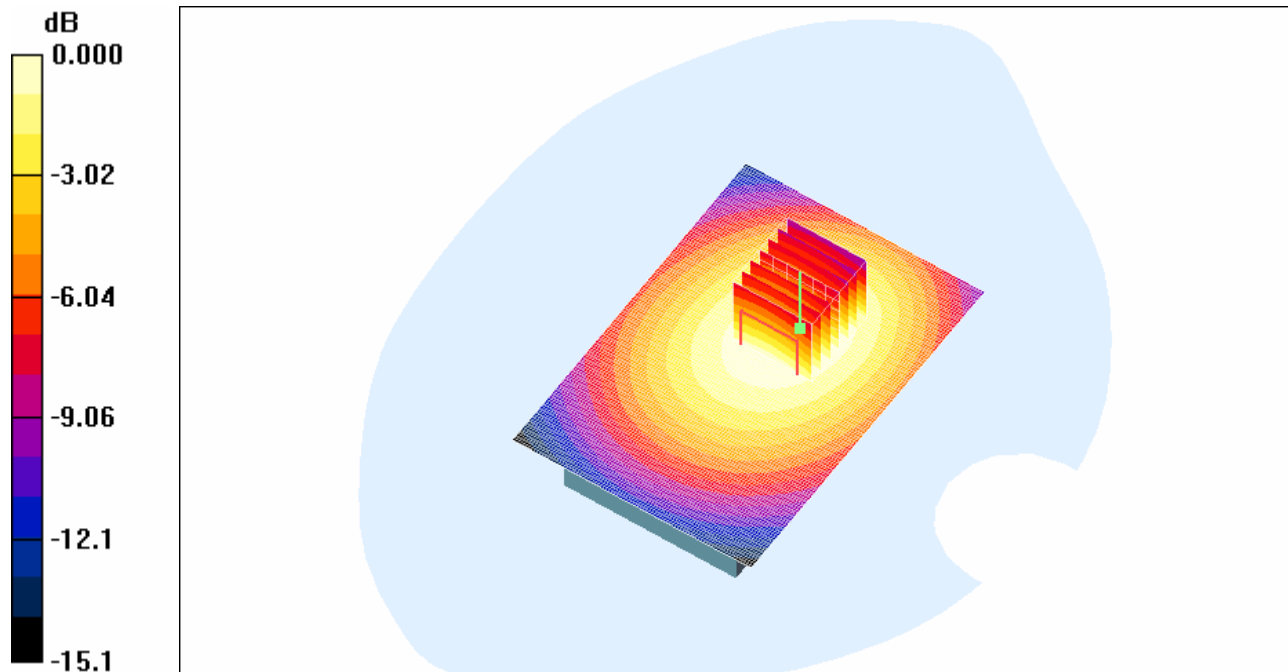
DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 31.4 V/m; Power Drift = -0.003 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.937 mW/g; SAR(10 g) = 0.688 mW/g

Maximum value of SAR (measured) = 0.987 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.990 mW/g



0 dB = 0.990mW/g

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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 30/06/2006 7:16:25 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster1_Front_LowChan_withHeadset_Amb_temp_23.5_Liq_temp_22.3.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 824.7$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 27.0 V/m; Power Drift = -0.512 dB

Peak SAR (extrapolated) = 0.796 W/kg

SAR(1 g) = 0.611 mW/g; SAR(10 g) = 0.451 mW/g

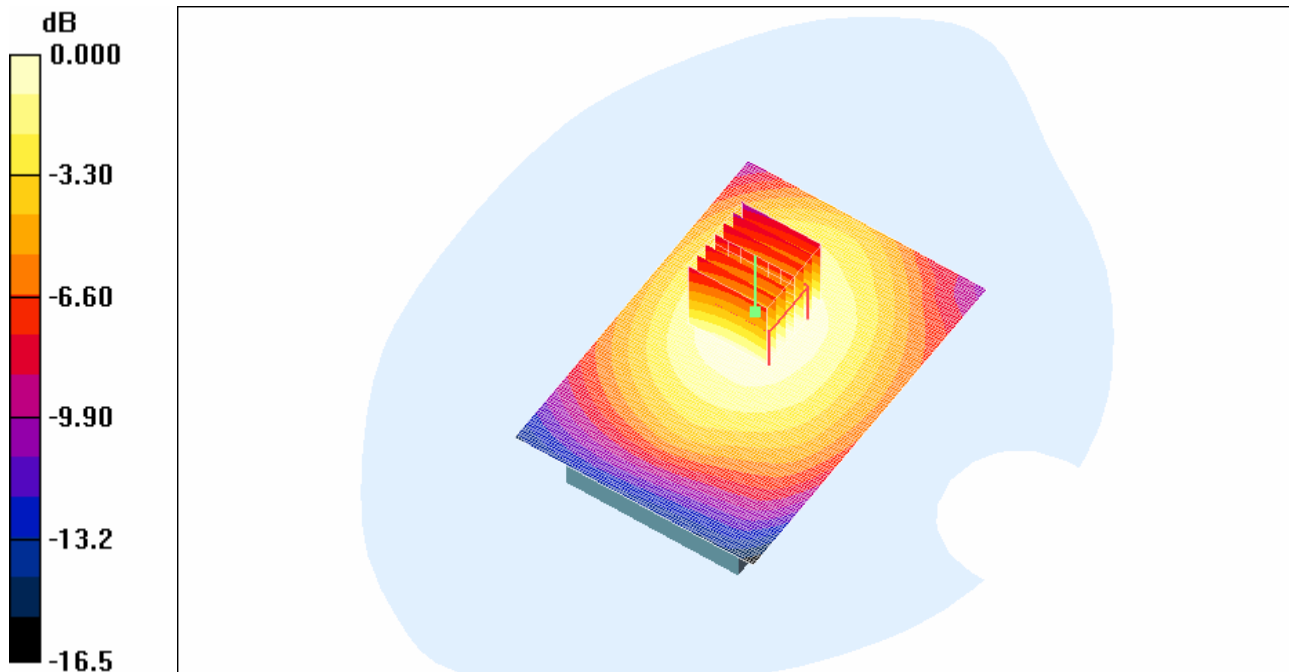
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.644 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) = 0.649 mW/g



0 dB = 0.649mW/g

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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 30/06/2006 8:19:39 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster1_Front_LowChan_withBT_Amb_temp_24.0_Liq_temp_22.5.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 824.7$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 32.1 V/m; Power Drift = -0.049 dB
Peak SAR (extrapolated) = 1.32 W/kg
SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.748 mW/g

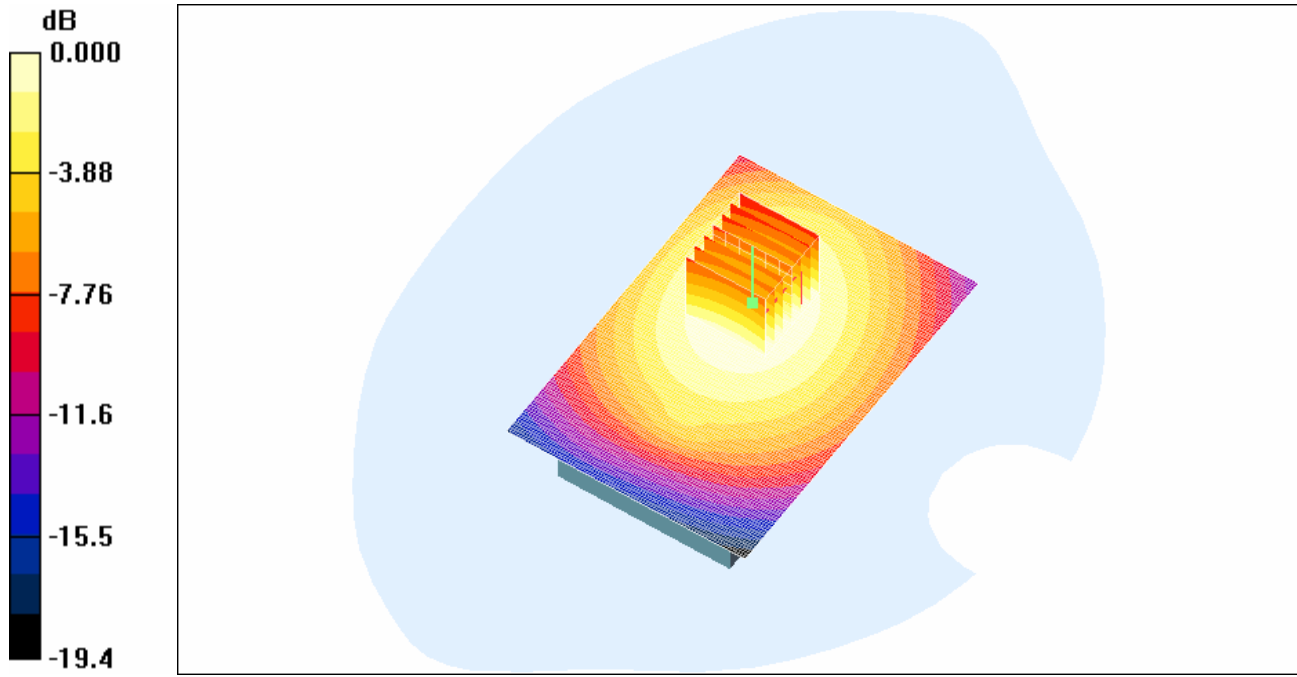
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.08 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) = 1.08 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 27/06/2006 7:16:36 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster1_Front_MidChan_Amb_temp_24.2_Liq_temp_22.3.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 6.08 V/m; Power Drift = -0.319 dB

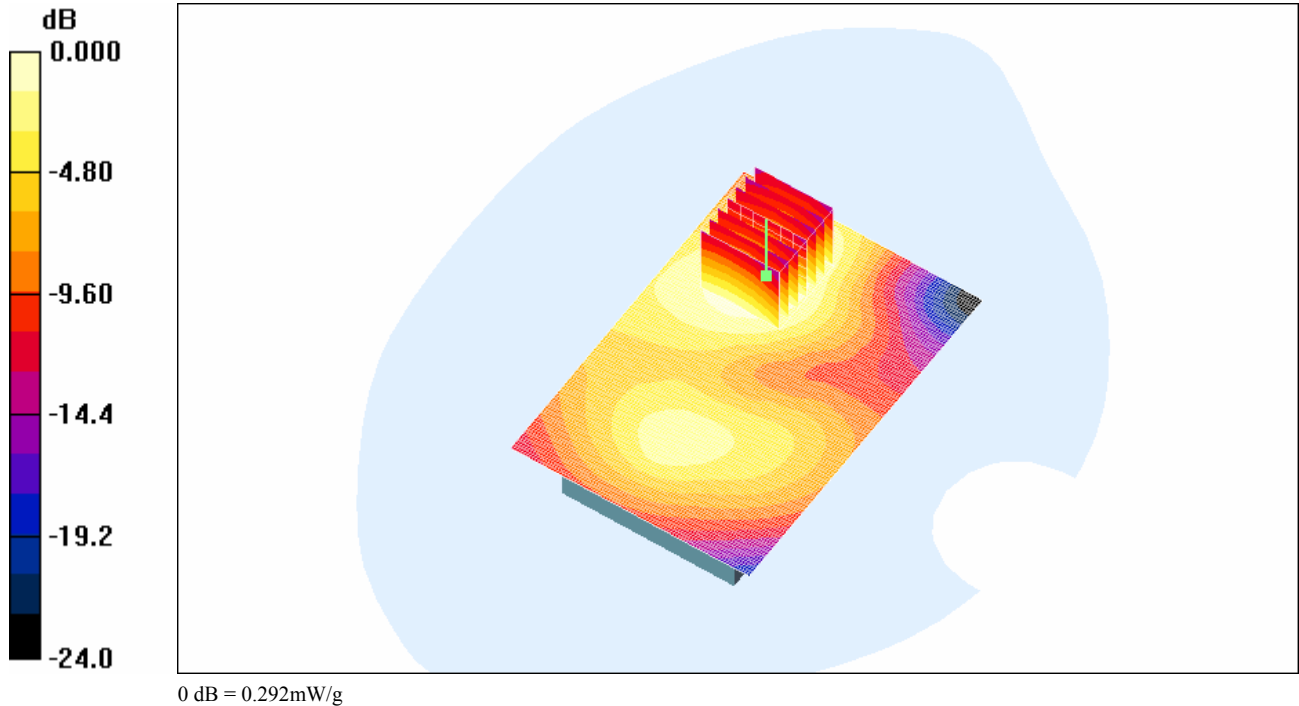
Peak SAR (extrapolated) = 0.401 W/kg

SAR(1 g) = 0.263 mW/g; SAR(10 g) = 0.162 mW/g

Maximum value of SAR (measured) = 0.288 mW/g

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

Maximum value of SAR (interpolated) = 0.292 mW/g



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Date/Time: 27/06/2006 11:05:24 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster2_Front_MidChan_Amb_temp_24.0_Liq_temp_22.1.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 5.81 V/m; Power Drift = -0.093 dB

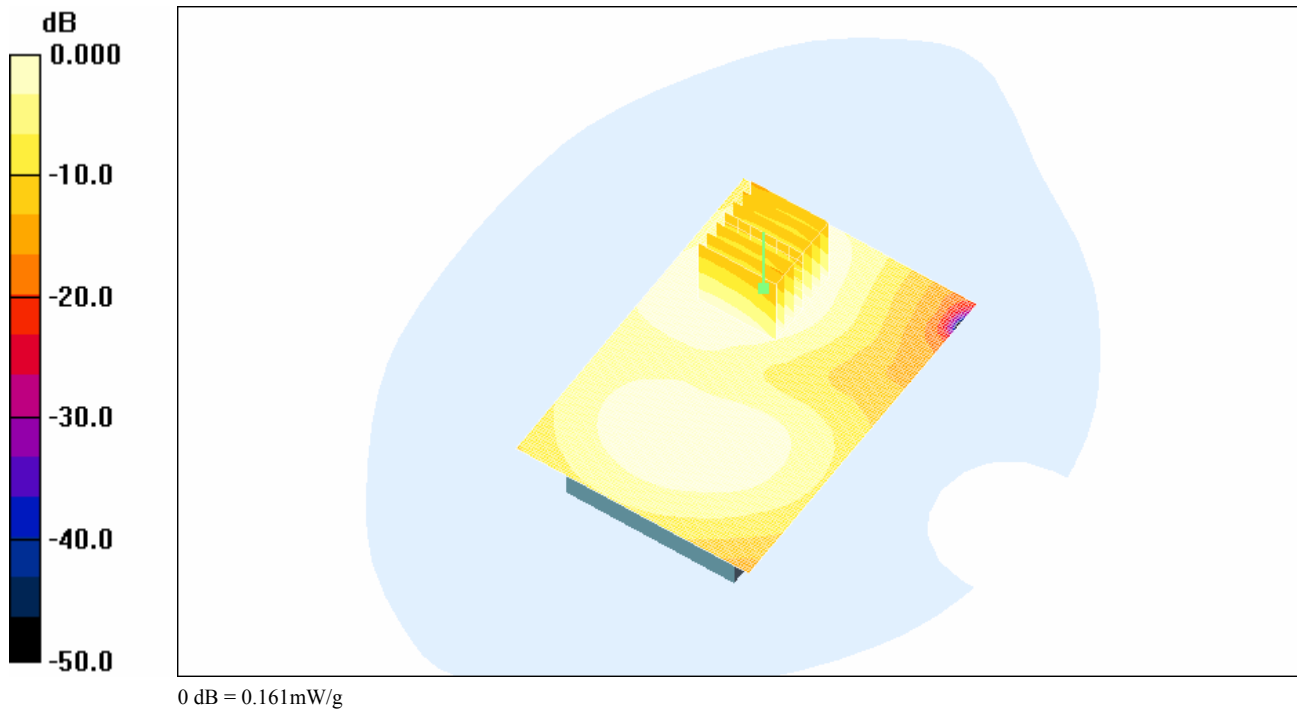
Peak SAR (extrapolated) = 0.221 W/kg

SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.093 mW/g

Maximum value of SAR (measured) = 0.158 mW/g

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

Maximum value of SAR (interpolated) = 0.161 mW/g



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Date/Time: 27/06/2006 10:34:16 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster2_Back_LowChan_Amb_temp_24.0_Liq_temp_22.0.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.5 V/m; Power Drift = -0.219 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.792 mW/g; SAR(10 g) = 0.477 mW/g

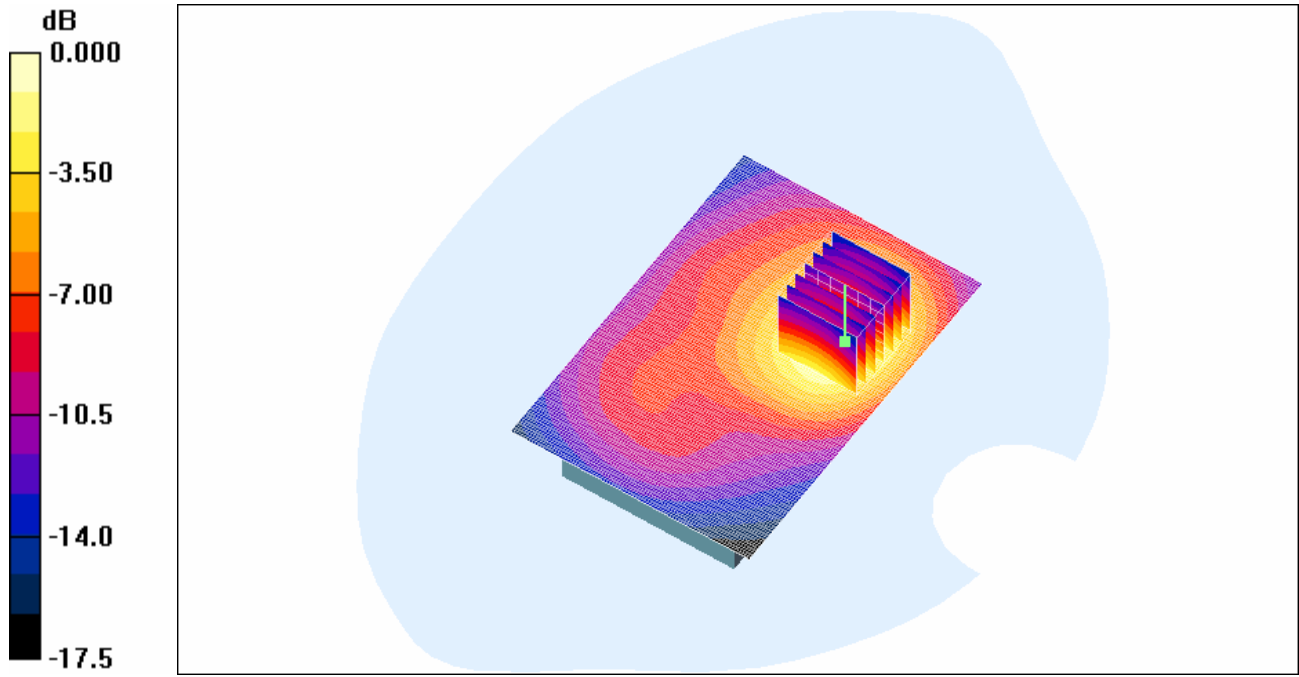
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.866 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) = 0.902 mW/g



0 dB = 0.902mW/g

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Date/Time: 27/06/2006 10:05:18 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster2_Back_MidChan_Amb_temp_23.9_Liq_temp_22.1.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

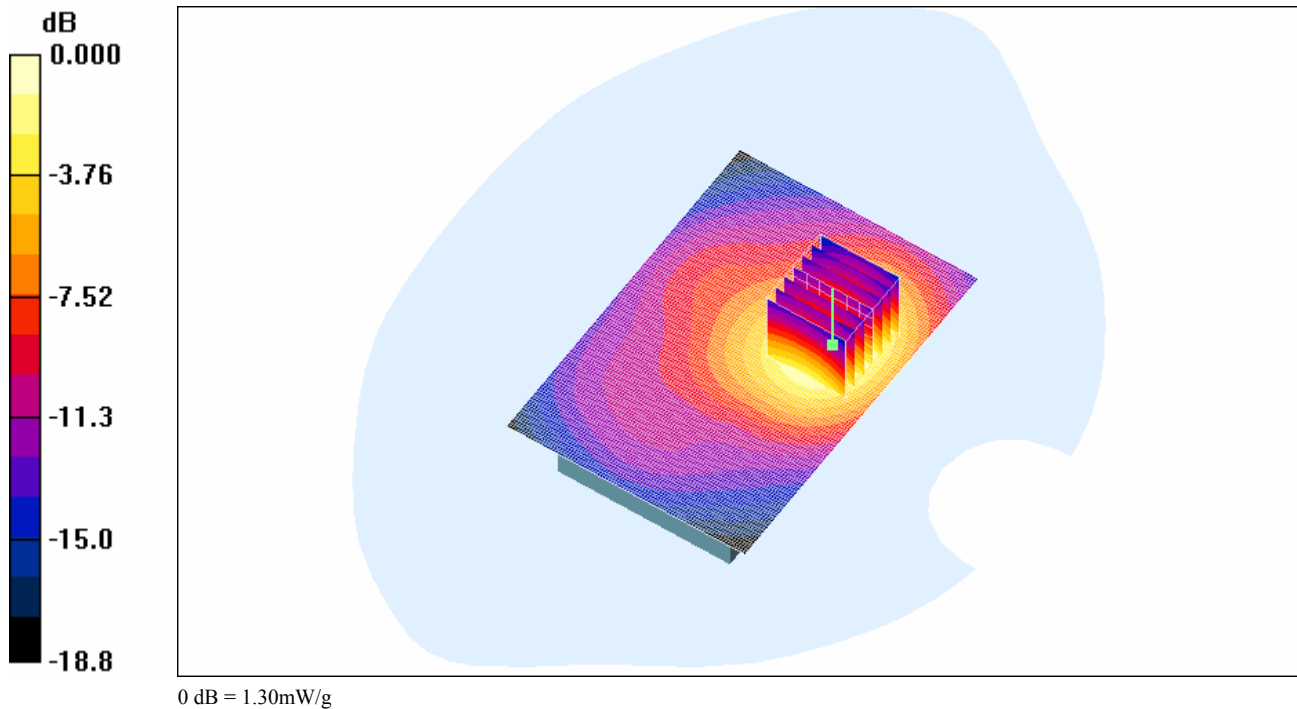
Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.5 V/m; Power Drift = -0.038 dB
Peak SAR (extrapolated) = 1.81 W/kg
SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.689 mW/g
Maximum value of SAR (measured) = 1.28 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.30 mW/g



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Date/Time: 27/06/2006 9:33:56 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster2_Back_HighChan_Amb_temp_23.8_Liq_temp_22.0.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.1 V/m; Power Drift = -0.216 dB
Peak SAR (extrapolated) = 1.84 W/kg
SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.678 mW/g

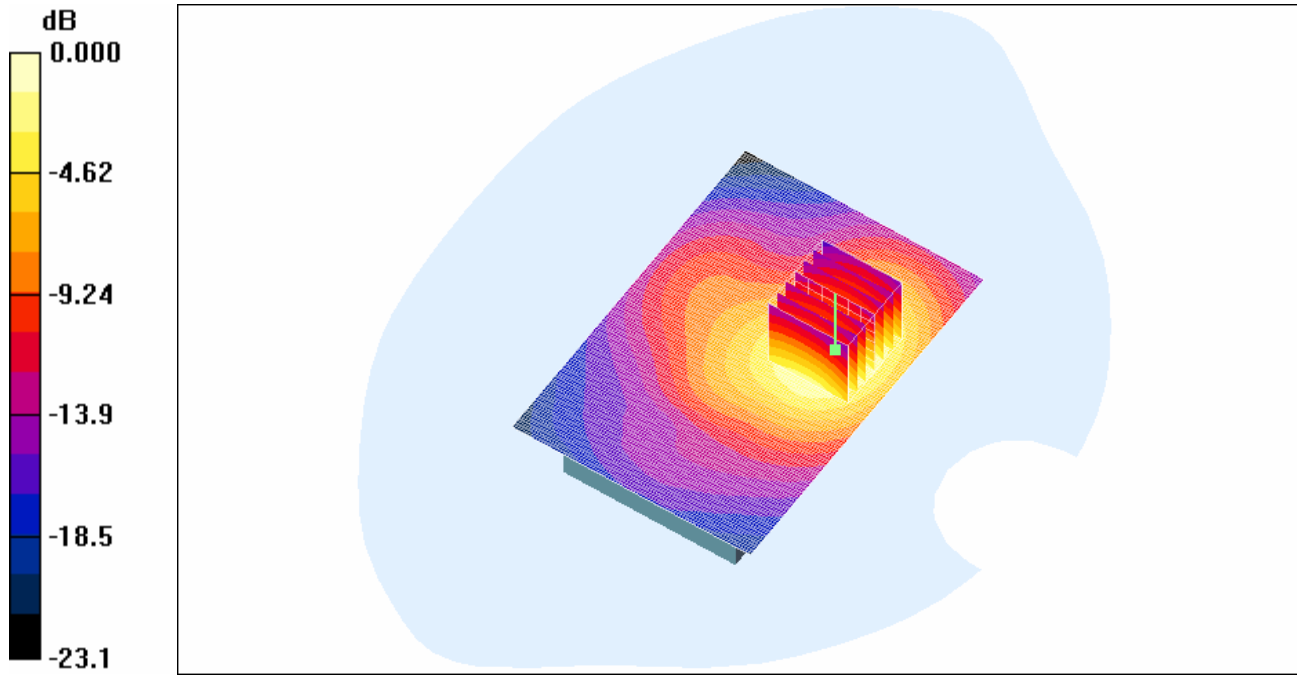
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.29 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) = 1.32 mW/g



0 dB = 1.32mW/g

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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09
		FCC ID: L6ARBF20CW	

Date/Time: 28/06/2006 7:55:58 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster4_Front_MidChan_Amb_temp_24.0_Liq_temp_22.3.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

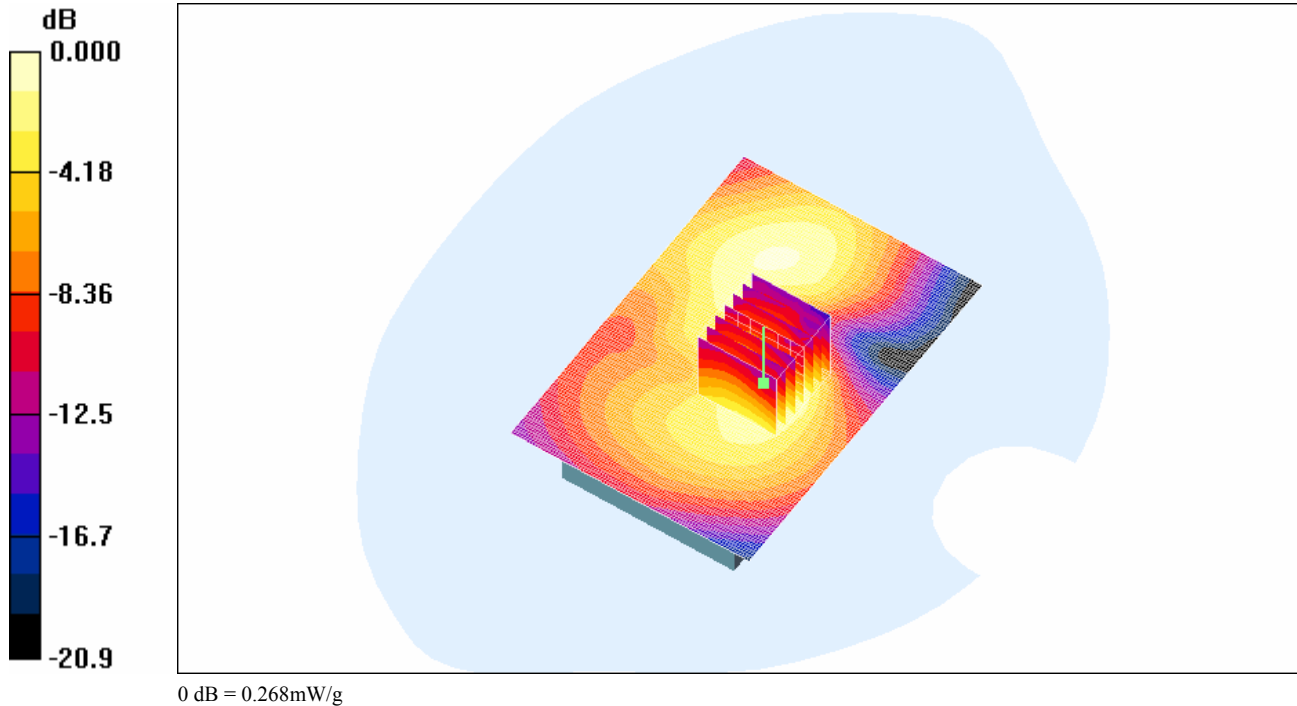
Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.7 V/m; Power Drift = -0.243 dB
Peak SAR (extrapolated) = 0.360 W/kg
SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.137 mW/g
Maximum value of SAR (measured) = 0.252 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.268 mW/g



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Date/Time: 28/06/2006 9:26:02 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster4_Back_LowChan_Amb_temp_24.0_Liq_temp_22.2.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.0 V/m; Power Drift = -0.137 dB
Peak SAR (extrapolated) = 1.58 W/kg
SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.597 mW/g

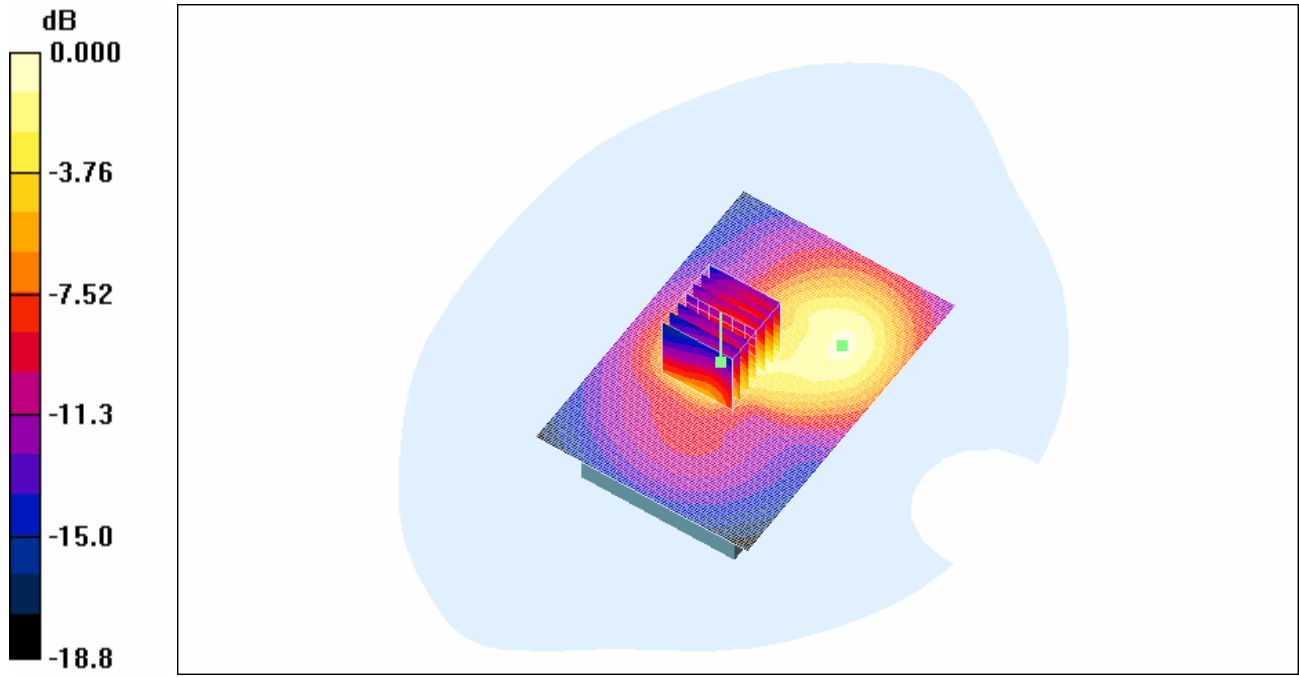
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.13 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) = 1.20 mW/g



0 dB = 1.20mW/g

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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 28/06/2006 8:56:49 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster4_Back_MidChan_Amb_temp_23.8_Liq_temp_22.1.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

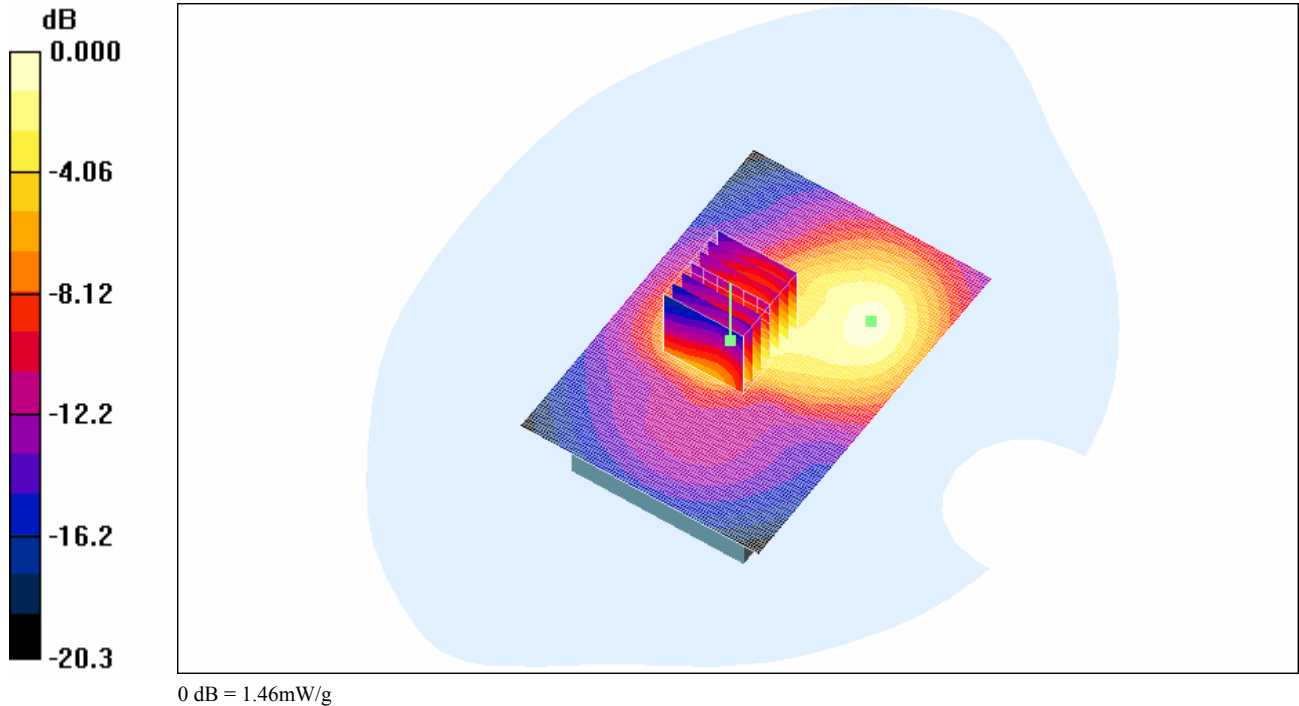
Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.1 V/m; Power Drift = 0.008 dB
Peak SAR (extrapolated) = 1.99 W/kg
SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.729 mW/g
Maximum value of SAR (measured) = 1.38 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.46 mW/g



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Date/Time: 28/06/2006 8:26:57 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster4_Back_HighChan_Amb_temp_23.9_Liq_temp_22.0.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.3 V/m; Power Drift = -0.387 dB
Peak SAR (extrapolated) = 2.05 W/kg
SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.749 mW/g

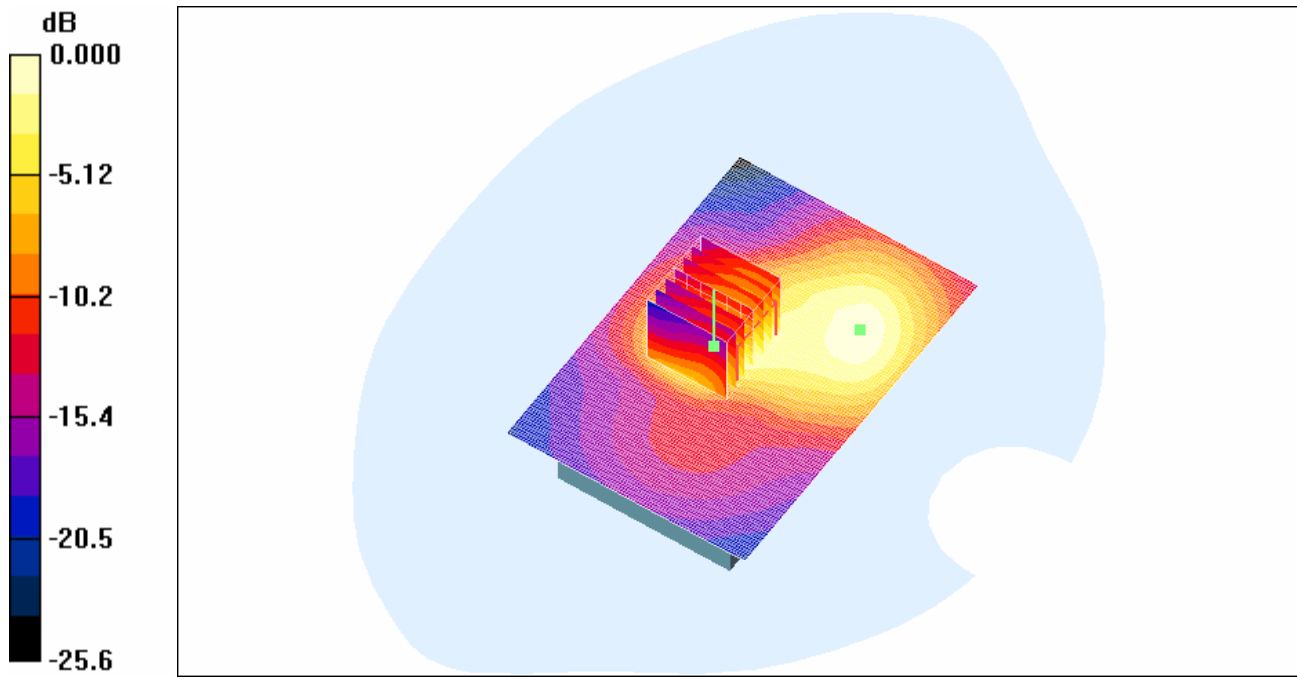
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.42 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) = 1.54 mW/g



0 dB = 1.54mW/g

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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 29/06/2006 4:24:32 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_15mm_away_Back_LowChan_Amb_temp_23.7_Liq_temp_22.0.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.2 V/m; Power Drift = -0.382 dB
Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.929 mW/g; SAR(10 g) = 0.545 mW/g

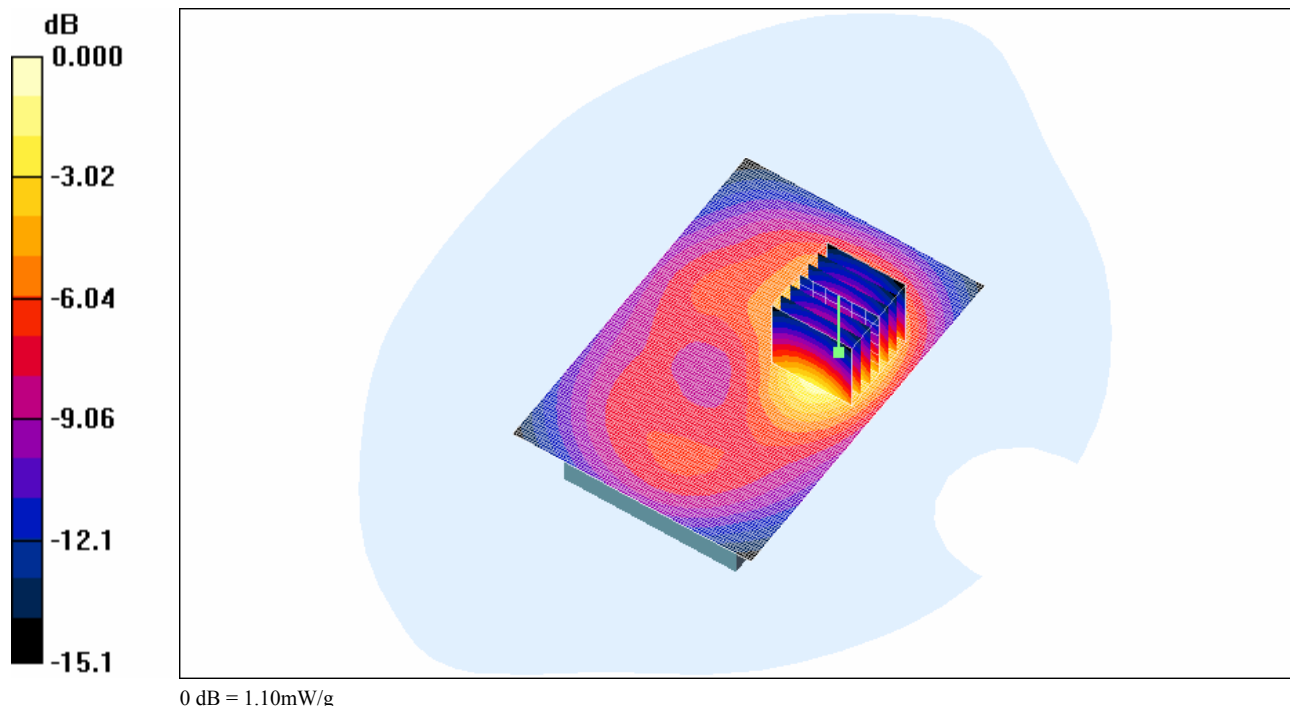
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.02 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) = 1.10 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09
		FCC ID: L6ARBF20CW	

Date/Time: 28/06/2006 10:58:16 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_15mm_away_Back_MidChan_Amb_temp_24.0_Liq_temp_22.2.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

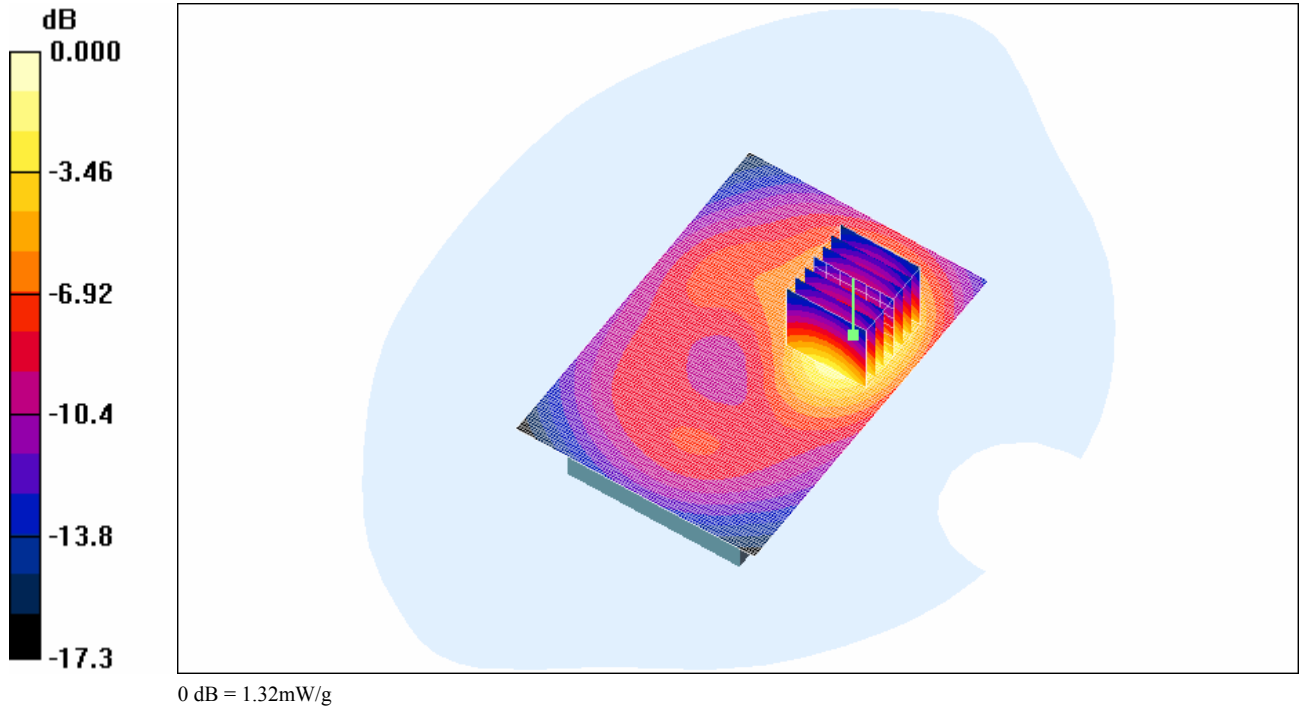
Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.4 V/m; Power Drift = 0.043 dB
Peak SAR (extrapolated) = 1.85 W/kg
SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.678 mW/g
Maximum value of SAR (measured) = 1.29 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.32 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 29/06/2006 4:52:33 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_15mm_away_Back_HighChan_Amb_temp_23.5_Liq_temp_21.8.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.8 V/m; Power Drift = -0.078 dB
Peak SAR (extrapolated) = 2.51 W/kg
SAR(1 g) = 1.55 mW/g; SAR(10 g) = 0.870 mW/g

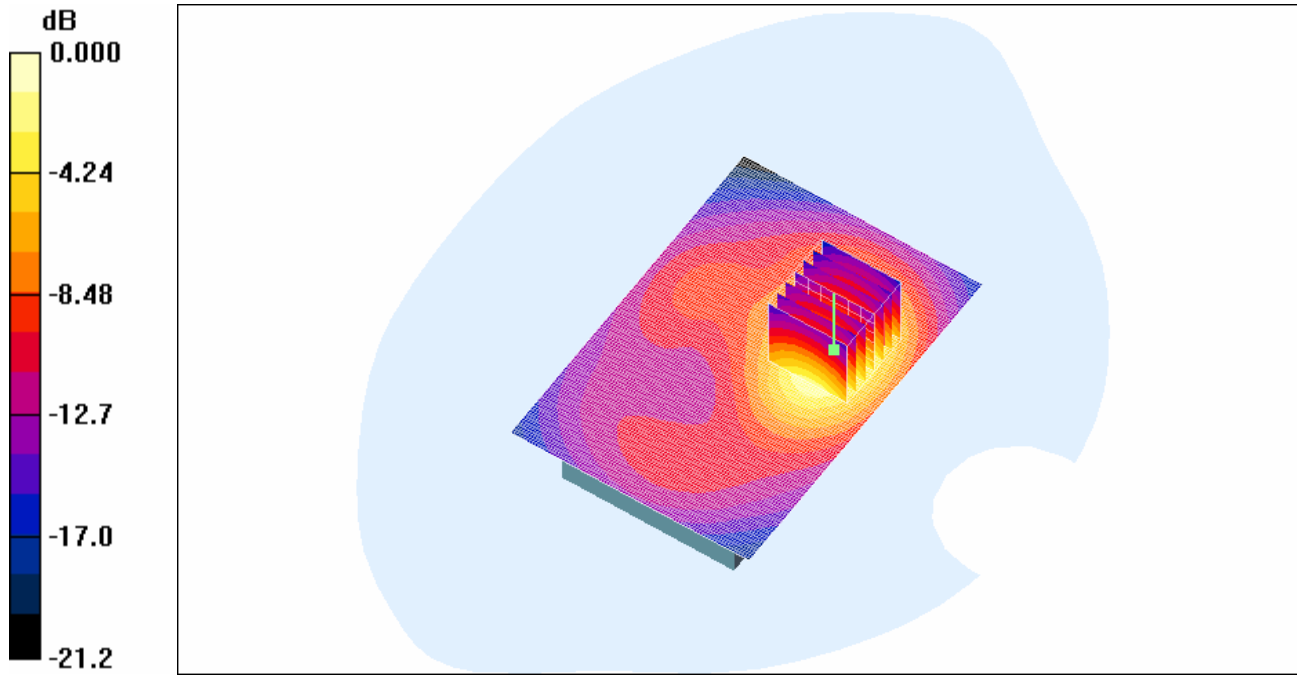
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.72 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) = 1.77 mW/g



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Date/Time: 04/07/2006 6:26:14 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster4_Back_HighChan_withHeadset_Amb_temp_23.8_Liq_temp_22.1.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.1 V/m; Power Drift = -0.210 dB
Peak SAR (extrapolated) = 2.04 W/kg
SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.780 mW/g

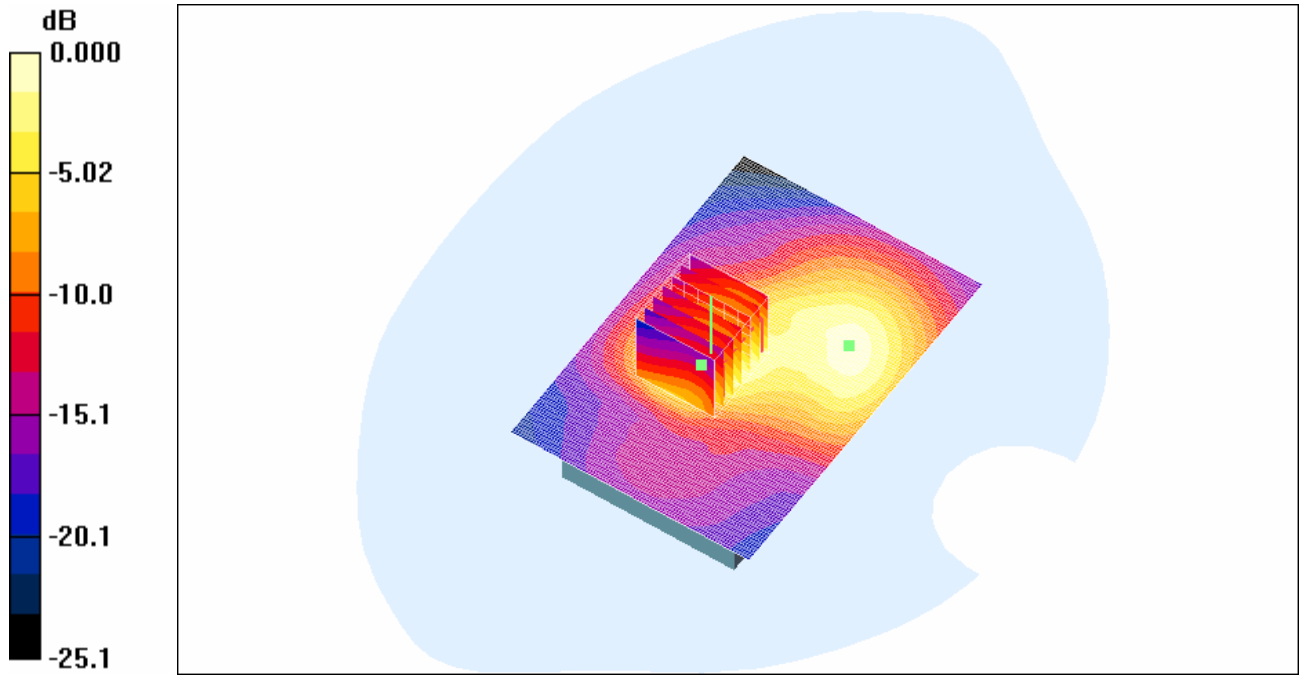
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.48 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) = 1.60 mW/g



0 dB = 1.60mW/g

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Date/Time: 04/07/2006 6:59:45 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster4_Back_HighChan_withBT_Amb_temp_23.2_Liq_temp_21.9.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.2 V/m; Power Drift = -0.312 dB
Peak SAR (extrapolated) = 1.71 W/kg
SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.677 mW/g

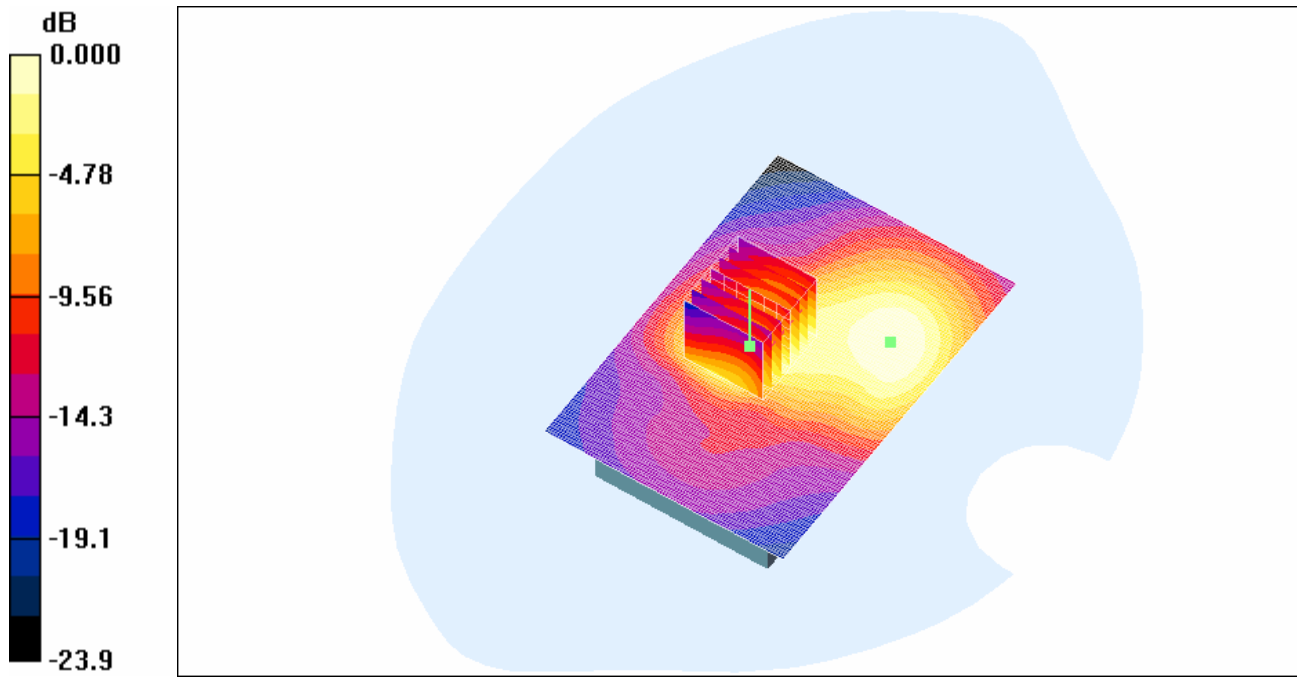
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.29 mW/g

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

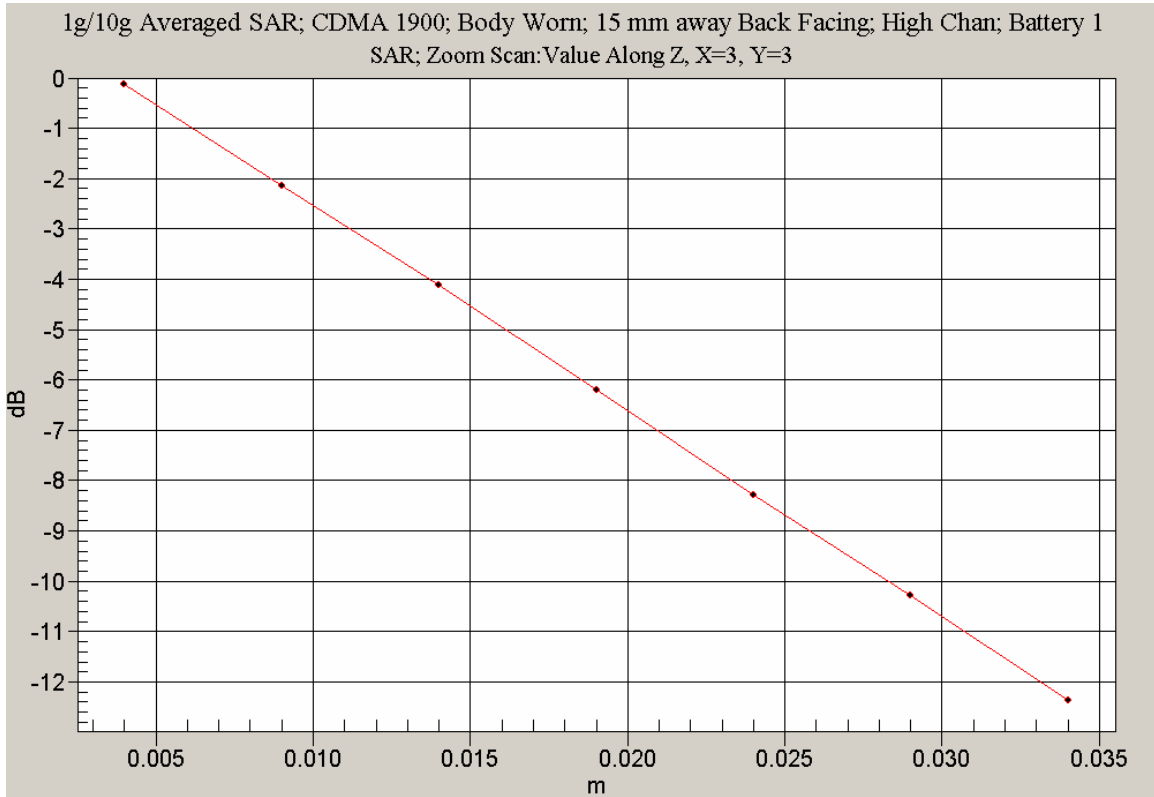
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.34 mW/g



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Z axis plot for the worst case body worn configuration:



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APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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Date/Time: 29/06/2006 11:00:43 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster1_Front_LowChan_Amb_temp_23.2_Liq_temp_21.5.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 824.7 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 54.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 32.2 V/m; Power Drift = -0.071 dB
Peak SAR (extrapolated) = 1.24 W/kg
SAR(1 g) = 0.958 mW/g; SAR(10 g) = 0.705 mW/g

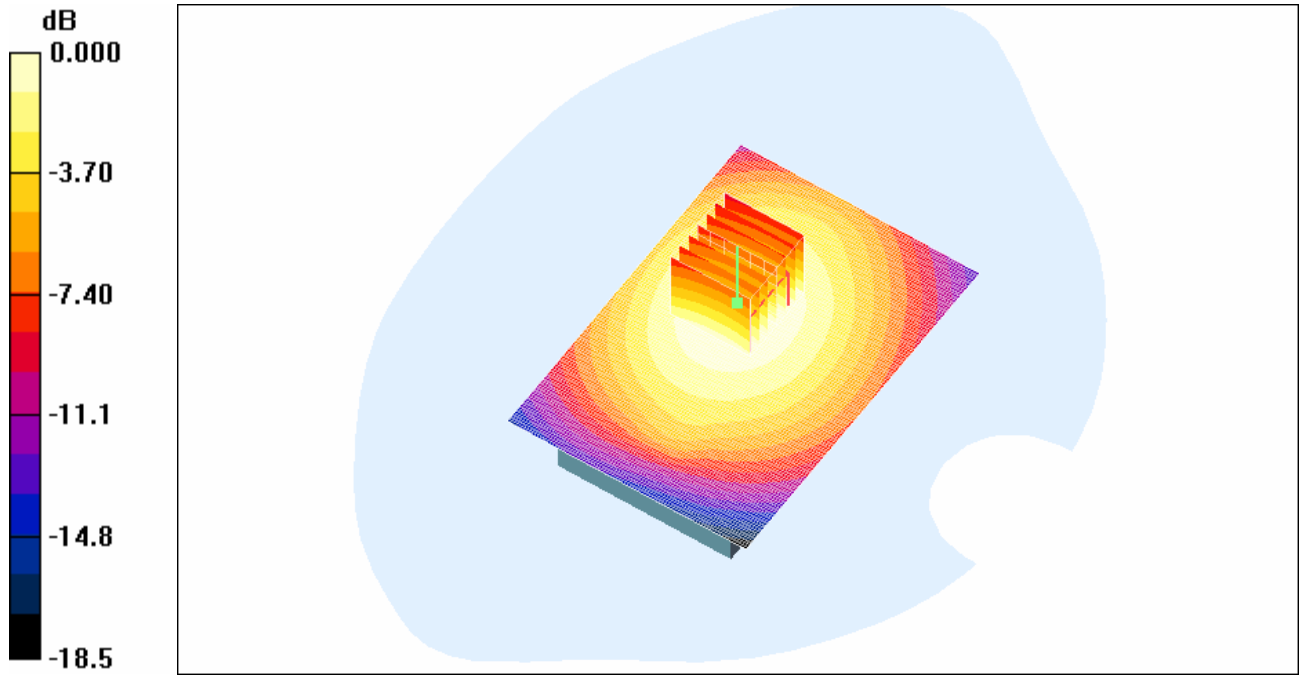
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.02 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) = 1.02 mW/g



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Date/Time: 29/06/2006 10:29:12 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster1_Front_MidChan_Amb_temp_23.3_Liq_temp_21.8.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 33.2 V/m; Power Drift = -0.137 dB

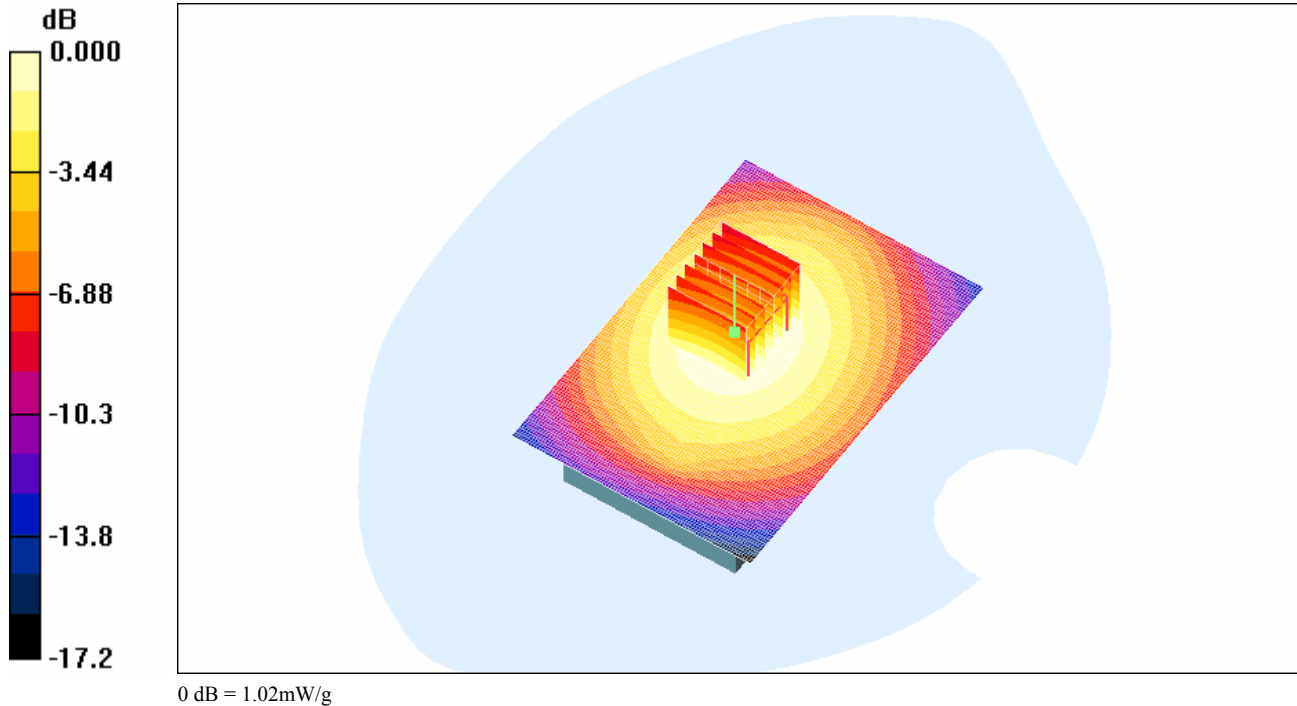
Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.951 mW/g; SAR(10 g) = 0.704 mW/g

Maximum value of SAR (measured) = 1.00 mW/g

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

Maximum value of SAR (interpolated) = 1.02 mW/g



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Date/Time: 29/06/2006 11:30:49 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster1_Front_HighChan_Amb_temp_23.4_Liq_temp_21.6.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 54.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 32.9 V/m; Power Drift = -0.155 dB

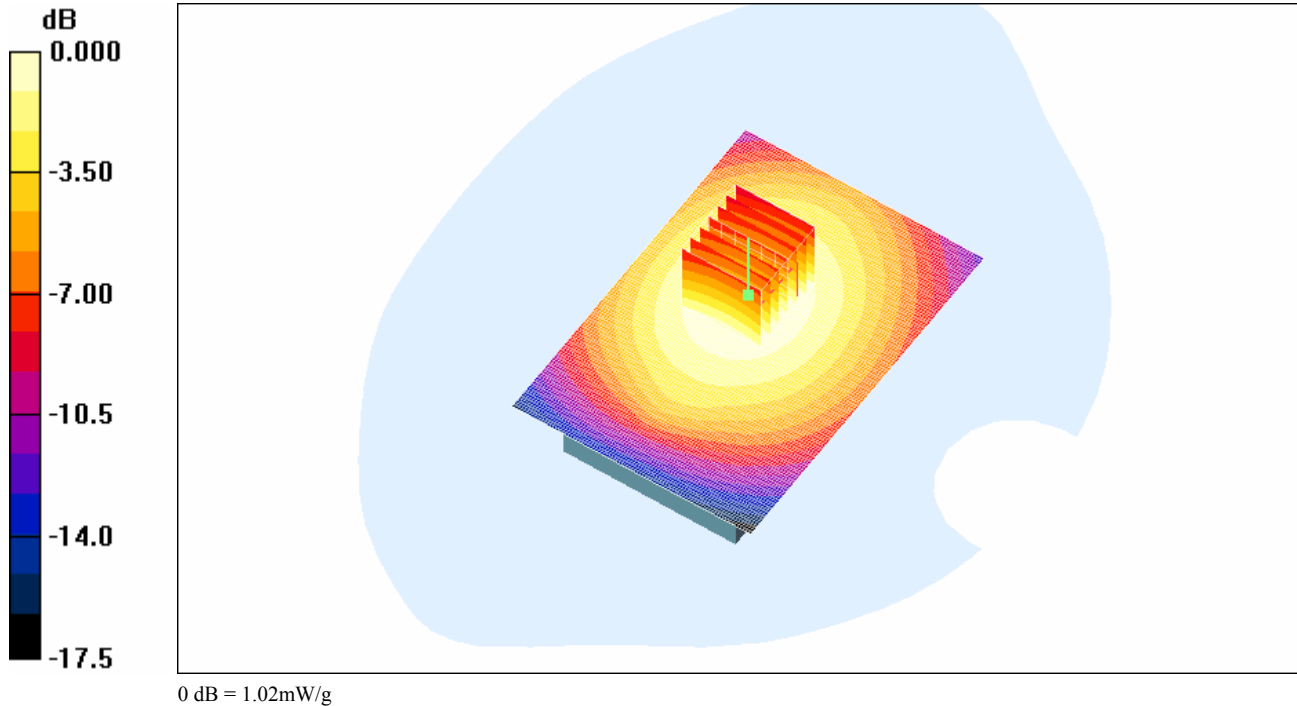
Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.953 mW/g; SAR(10 g) = 0.701 mW/g

Maximum value of SAR (measured) = 1.01 mW/g

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

Maximum value of SAR (interpolated) = 1.02 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 30/06/2006 12:06:54 AM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster2_Front_MidChan_Amb_temp_23.4_Liq_temp_21.5.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

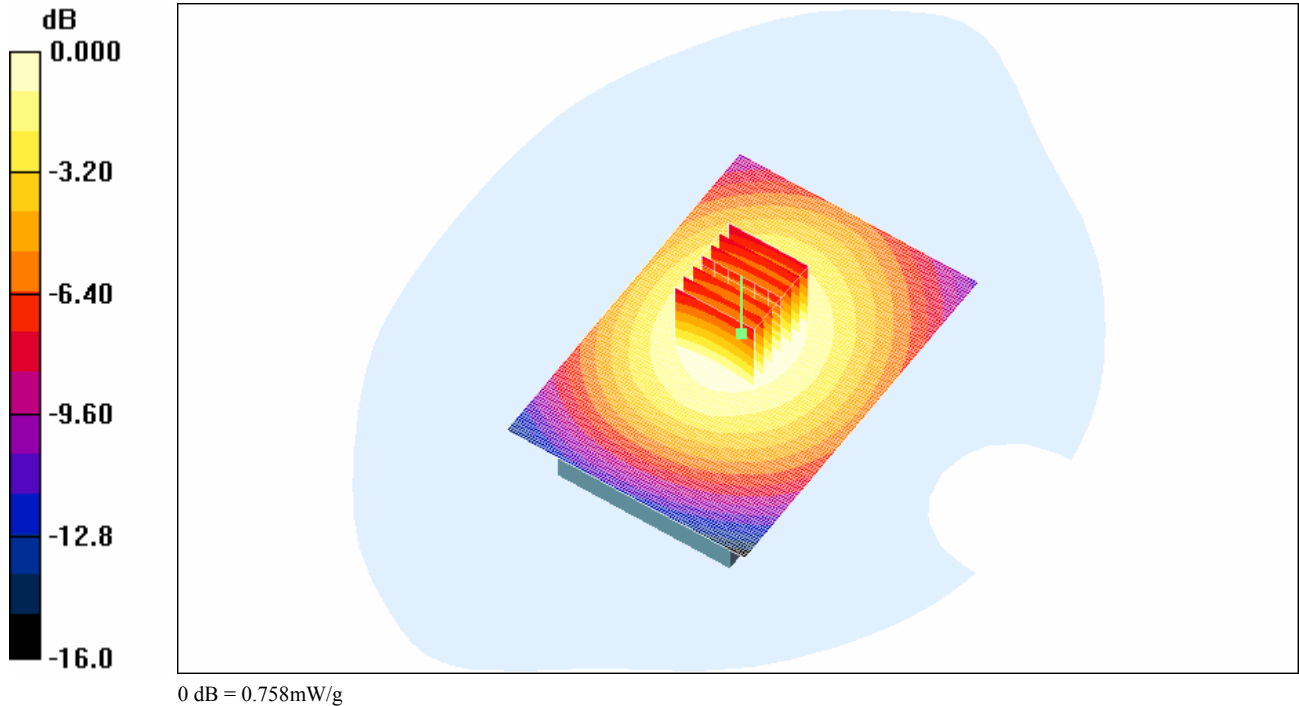
Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 54.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.7 V/m; Power Drift = -0.283 dB
Peak SAR (extrapolated) = 0.914 W/kg
SAR(1 g) = 0.715 mW/g; SAR(10 g) = 0.529 mW/g
Maximum value of SAR (measured) = 0.753 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.758 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 30/06/2006 5:47:01 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster2_Back_LowChan_Amb_temp_23.3_Liq_temp_21.7.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 824.7 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 54.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 31.2 V/m; Power Drift = -0.056 dB
Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.858 mW/g; SAR(10 g) = 0.633 mW/g

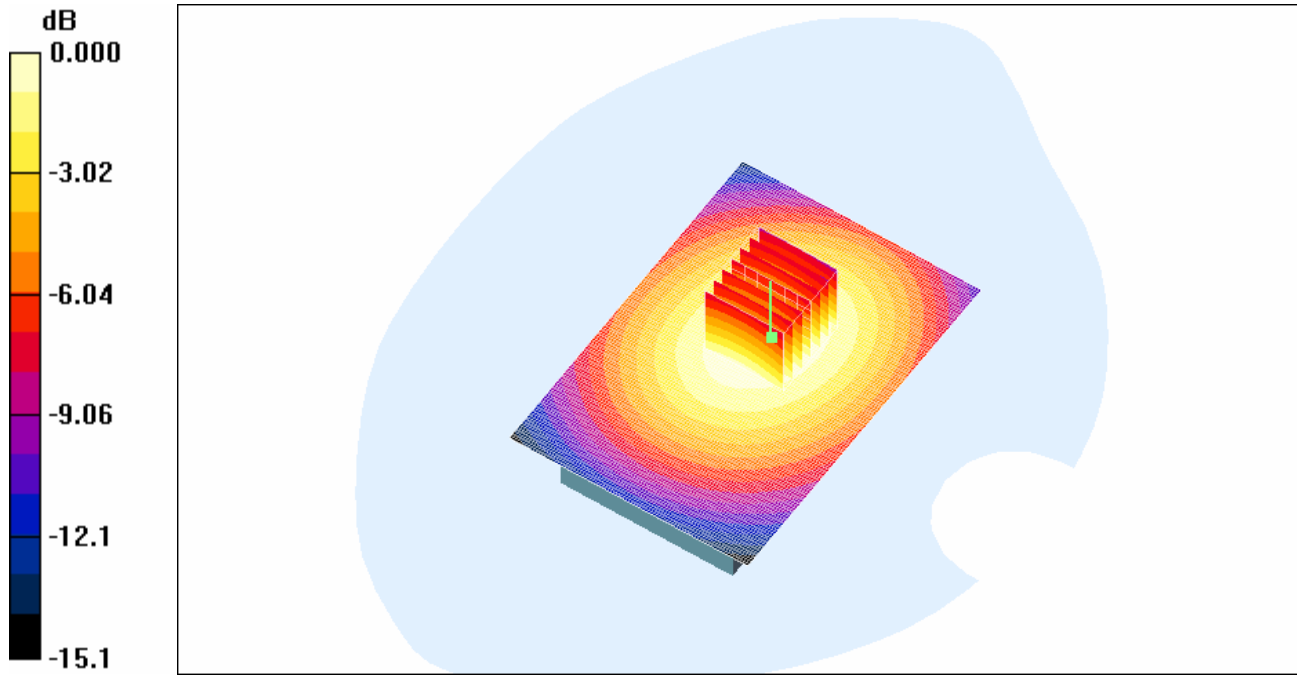
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.912 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



0 dB = 0.919mW/g

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Date/Time: 30/06/2006 5:19:17 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster2_Back_MidChan_Amb_temp_23.2_Liq_temp_21.8.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

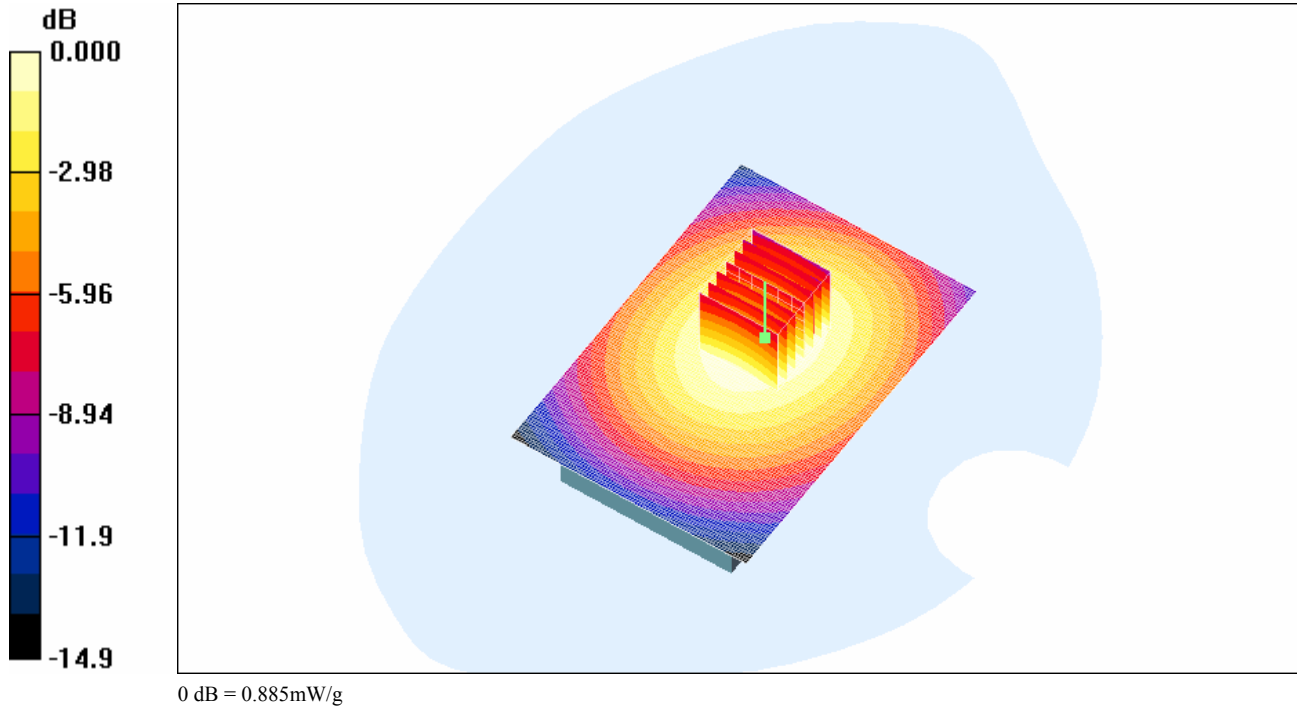
Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 31.3 V/m; Power Drift = -0.289 dB
Peak SAR (extrapolated) = 1.01 W/kg
SAR(1 g) = 0.813 mW/g; SAR(10 g) = 0.602 mW/g
Maximum value of SAR (measured) = 0.859 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.885 mW/g



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Date/Time: 30/06/2006 6:15:48 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster2_Back_HighChan_Amb_temp_23.2_Liq_temp_21.9.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 32.4 V/m; Power Drift = -0.231 dB

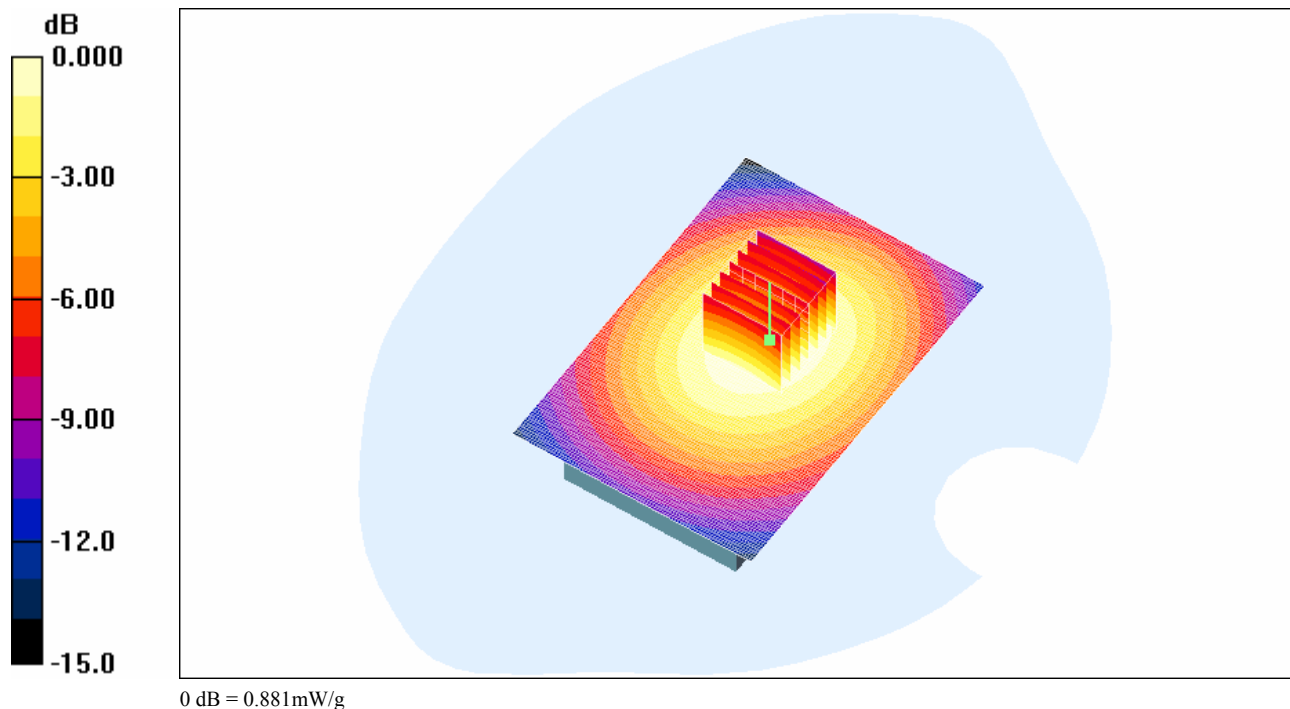
Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.815 mW/g; SAR(10 g) = 0.601 mW/g

Maximum value of SAR (measured) = 0.860 mW/g

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

Maximum value of SAR (interpolated) = 0.881 mW/g



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Date/Time: 30/06/2006 2:06:41 AM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster4_Front_MidChan_Amb_temp_23.8_Liq_temp_22.0.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

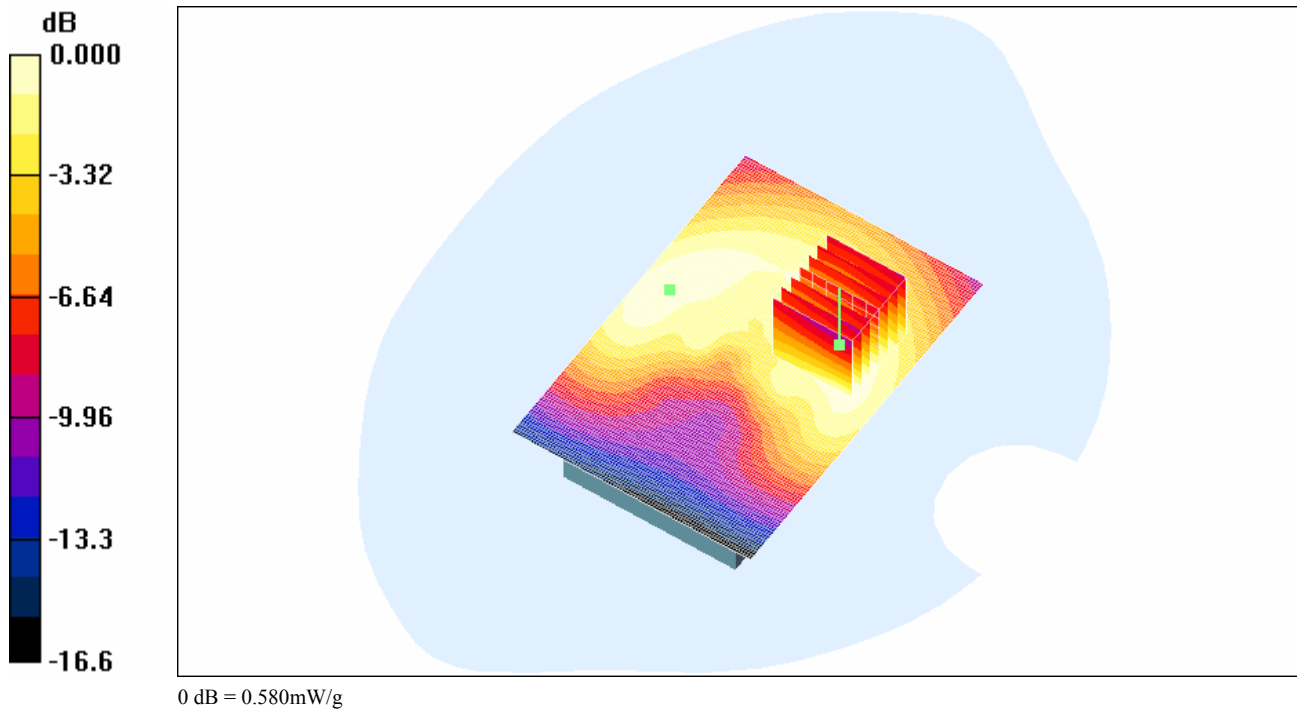
Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.2 V/m; Power Drift = -0.088 dB
Peak SAR (extrapolated) = 0.798 W/kg
SAR(1 g) = 0.544 mW/g; SAR(10 g) = 0.372 mW/g
Maximum value of SAR (measured) = 0.586 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.580 mW/g



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Date/Time: 30/06/2006 6:45:41 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster4_Back_MidChan_Amb_temp_23.8_Liq_temp_22.1.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 19.2 V/m; Power Drift = -0.026 dB

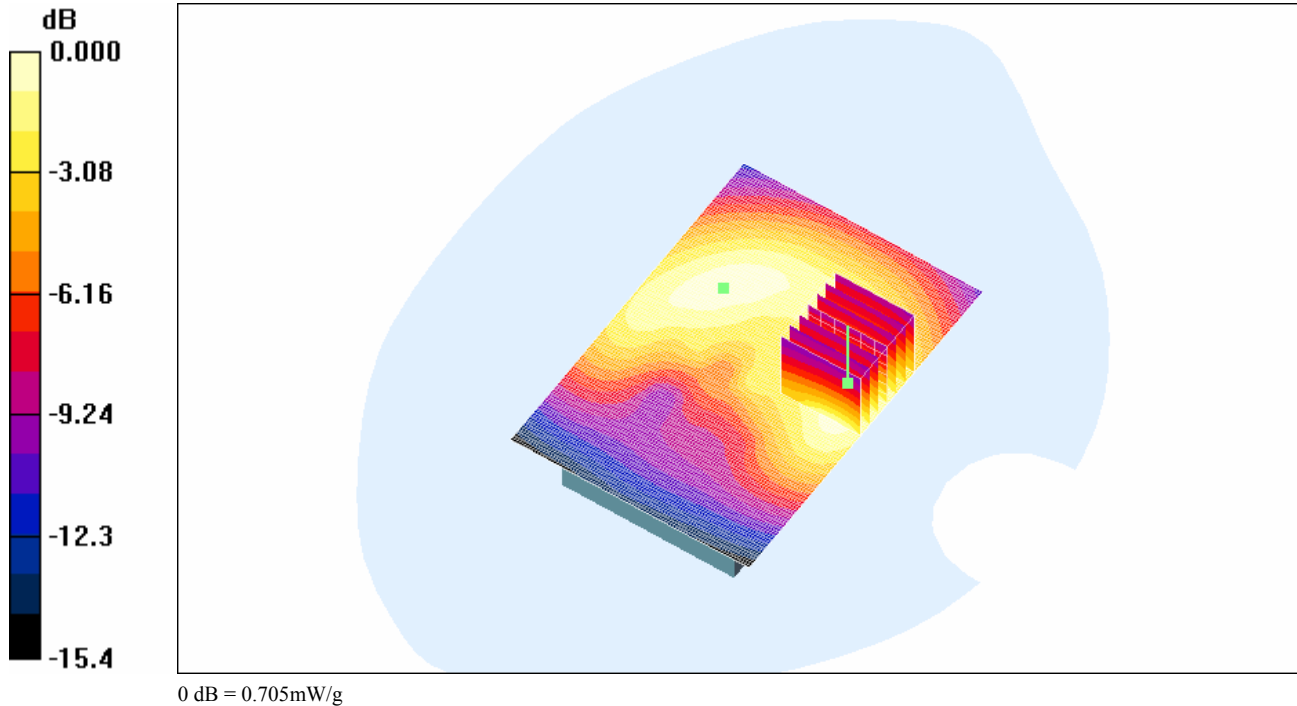
Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.647 mW/g; SAR(10 g) = 0.423 mW/g

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

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

Maximum value of SAR (interpolated) = 0.705 mW/g



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Date/Time: 30/06/2006 11:10:29 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_15mm_away_Back_LowChan_Amb_temp_23.5_Liq_temp_21.6.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 824.7 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 54.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 29.4 V/m; Power Drift = -0.023 dB
Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.847 mW/g; SAR(10 g) = 0.621 mW/g

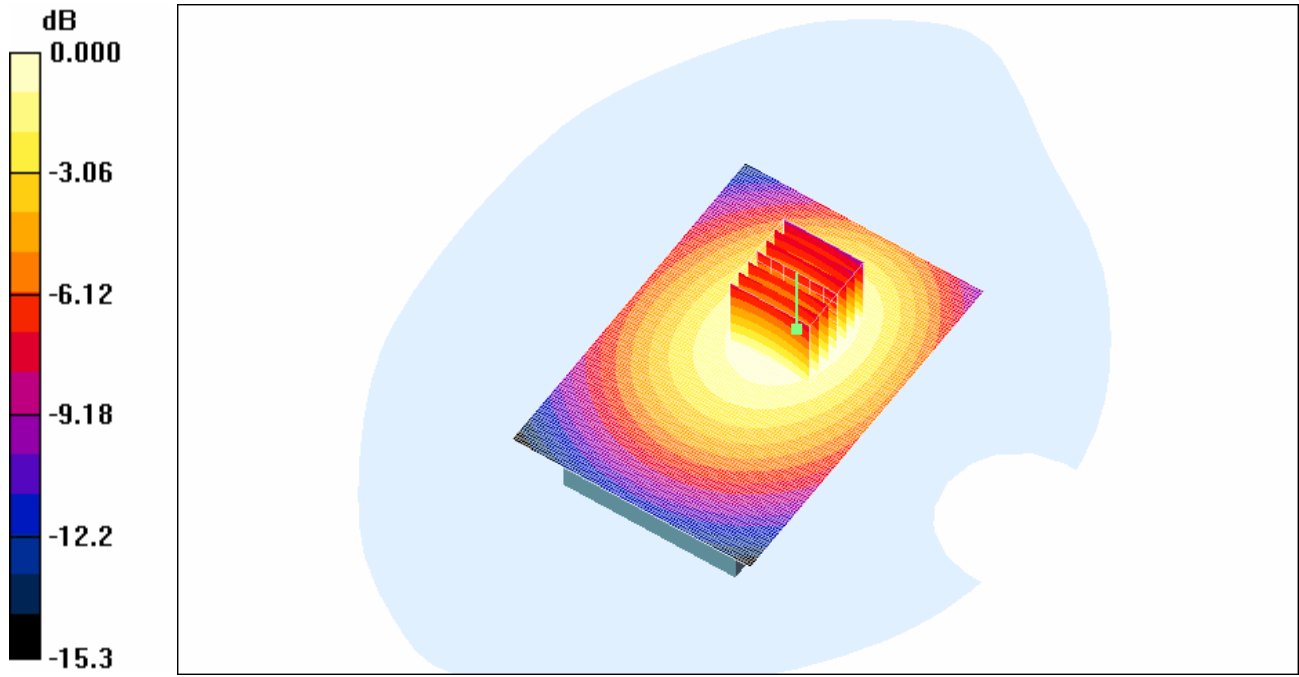
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.892 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) = 0.891 mW/g



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Date/Time: 30/06/2006 10:43:11 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_15mm_away_Back_MidChan_Amb_temp_23.7_Liq_temp_21.9.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.8$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 30.9 V/m; Power Drift = -0.033 dB

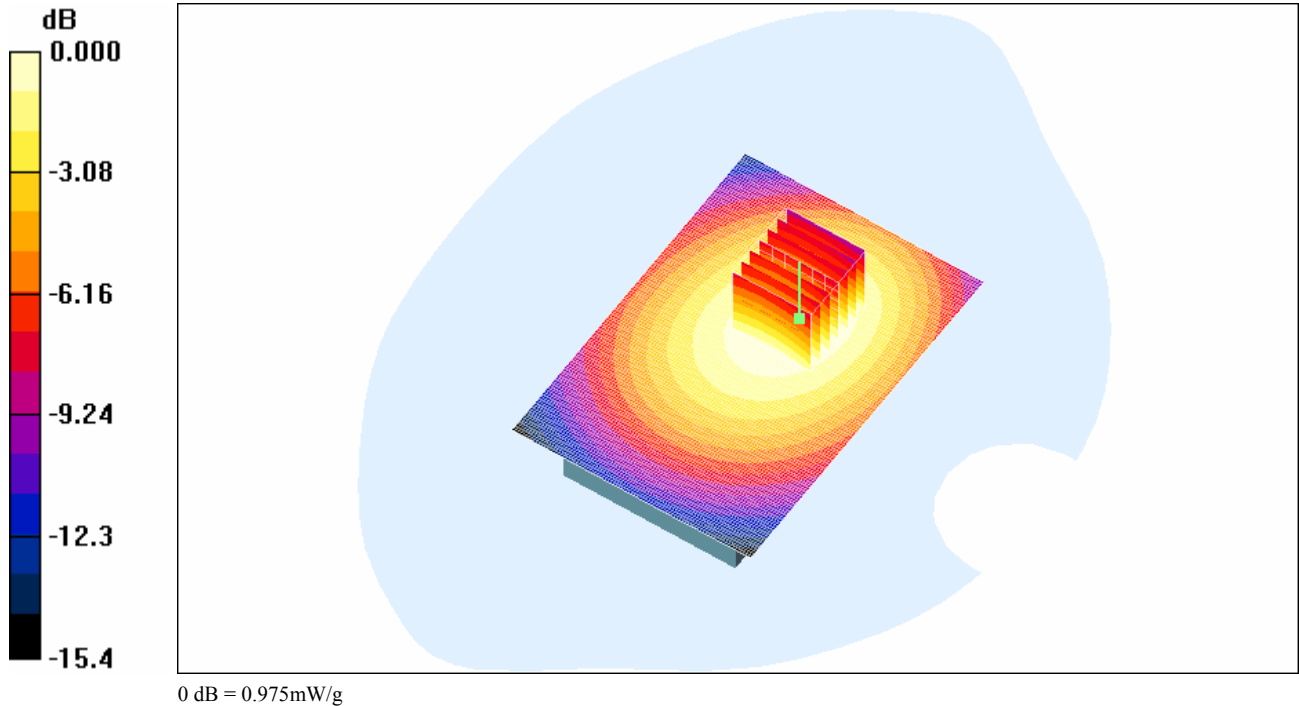
Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.914 mW/g; SAR(10 g) = 0.671 mW/g

Maximum value of SAR (measured) = 0.966 mW/g

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

Maximum value of SAR (interpolated) = 0.975 mW/g



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		FCC ID: L6ARBF20CW	

Date/Time: 30/06/2006 11:38:05 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_15mm_away_Back_HighChan_Amb_temp_23.7_Liq_temp_21.3.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

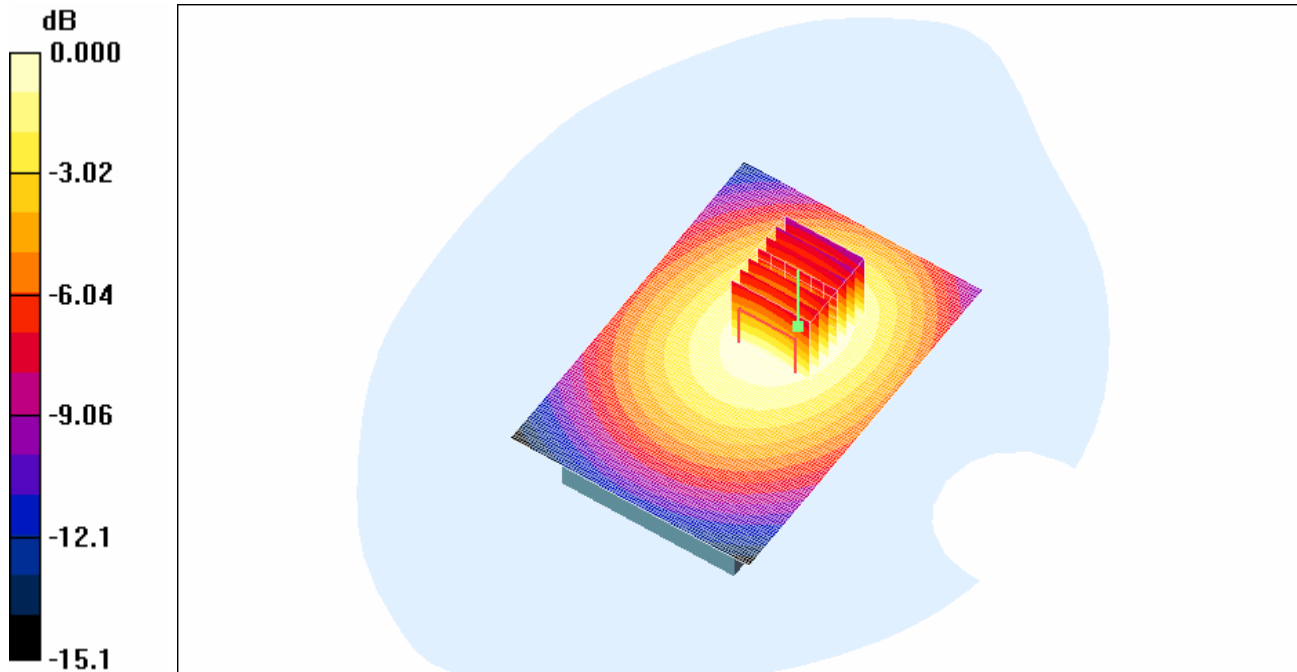
DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 31.4 V/m; Power Drift = -0.003 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.937 mW/g; SAR(10 g) = 0.688 mW/g

Maximum value of SAR (measured) = 0.987 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.990 mW/g



0 dB = 0.990mW/g

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Date/Time: 30/06/2006 7:16:25 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster1_Front_LowChan_withHeadset_Amb_temp_23.5_Liq_temp_22.3.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

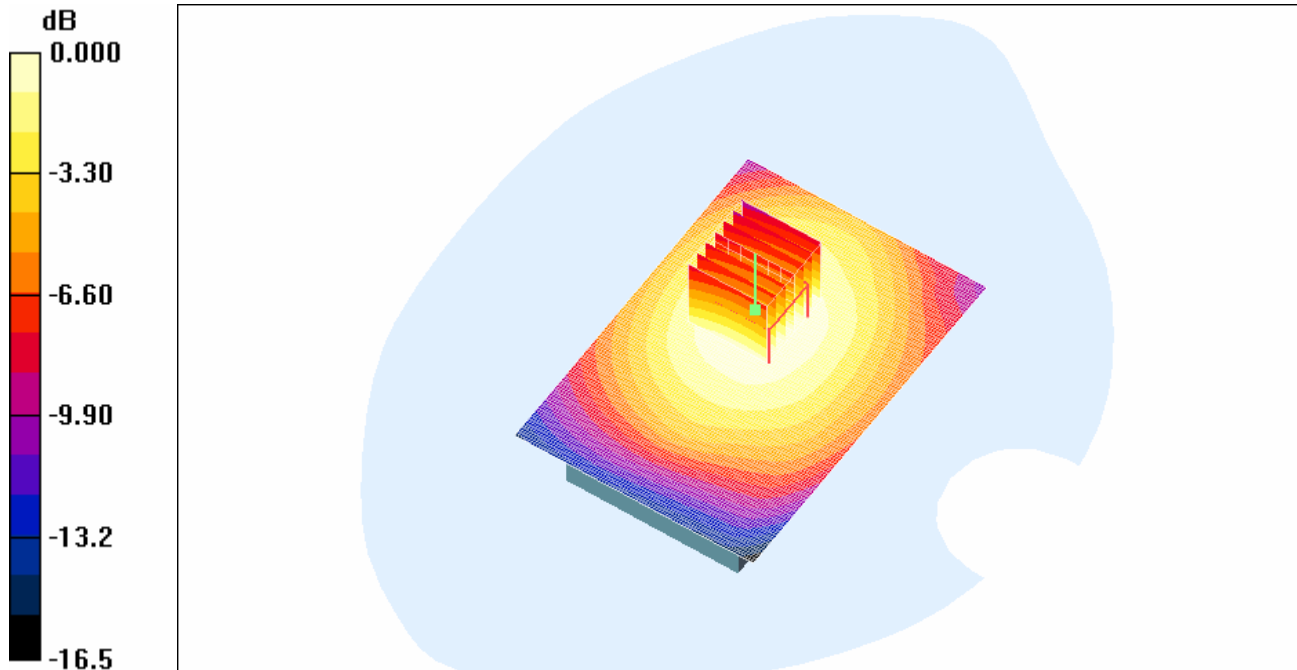
Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 824.7$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.0 V/m; Power Drift = -0.512 dB
Peak SAR (extrapolated) = 0.796 W/kg
SAR(1 g) = 0.611 mW/g; SAR(10 g) = 0.451 mW/g
[Info: Interpolated medium parameters used for SAR evaluation.](#)
Maximum value of SAR (measured) = 0.644 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) = 0.649 mW/g



0 dB = 0.649mW/g

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Date/Time: 30/06/2006 8:19:39 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA800_Battery1_Holster1_Front_LowChan_withBT_Amb_temp_24.0_Liq_temp_22.5.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 824.7$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 32.1 V/m; Power Drift = -0.049 dB
Peak SAR (extrapolated) = 1.32 W/kg
SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.748 mW/g

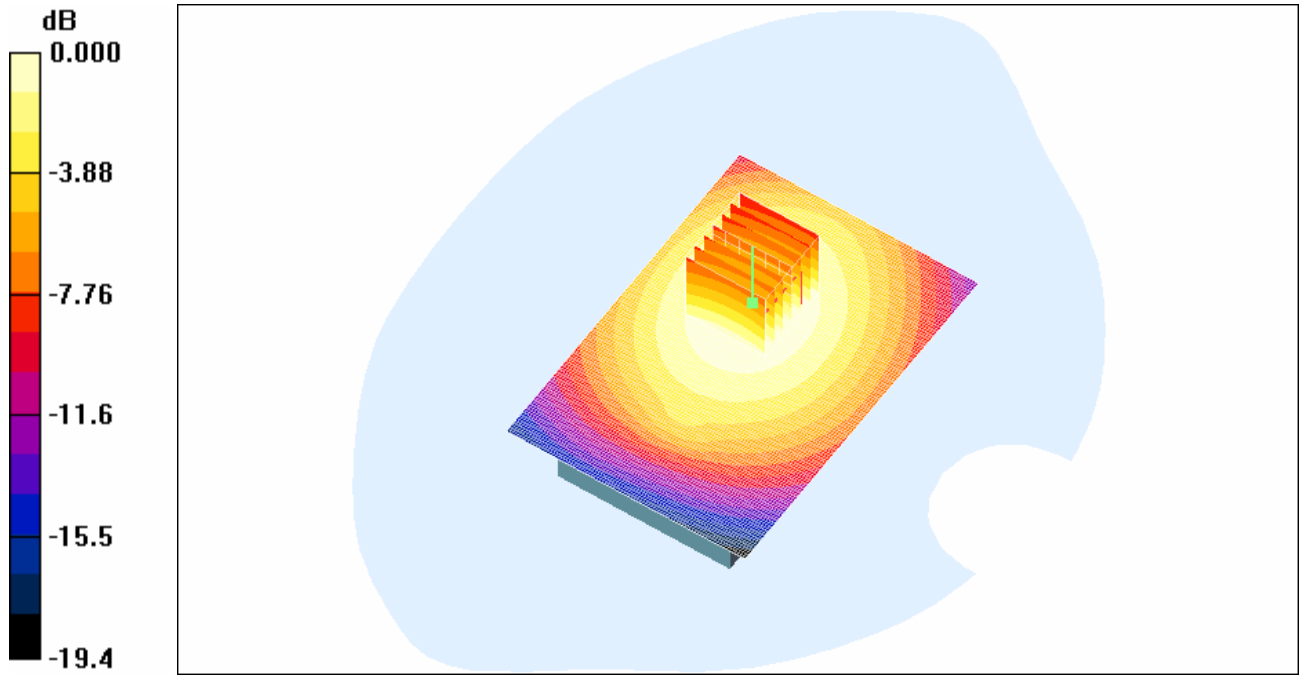
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.08 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) = 1.08 mW/g



0 dB = 1.08mW/g

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Date/Time: 27/06/2006 7:16:36 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster1_Front_MidChan_Amb_temp_24.2_Liq_temp_22.3.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

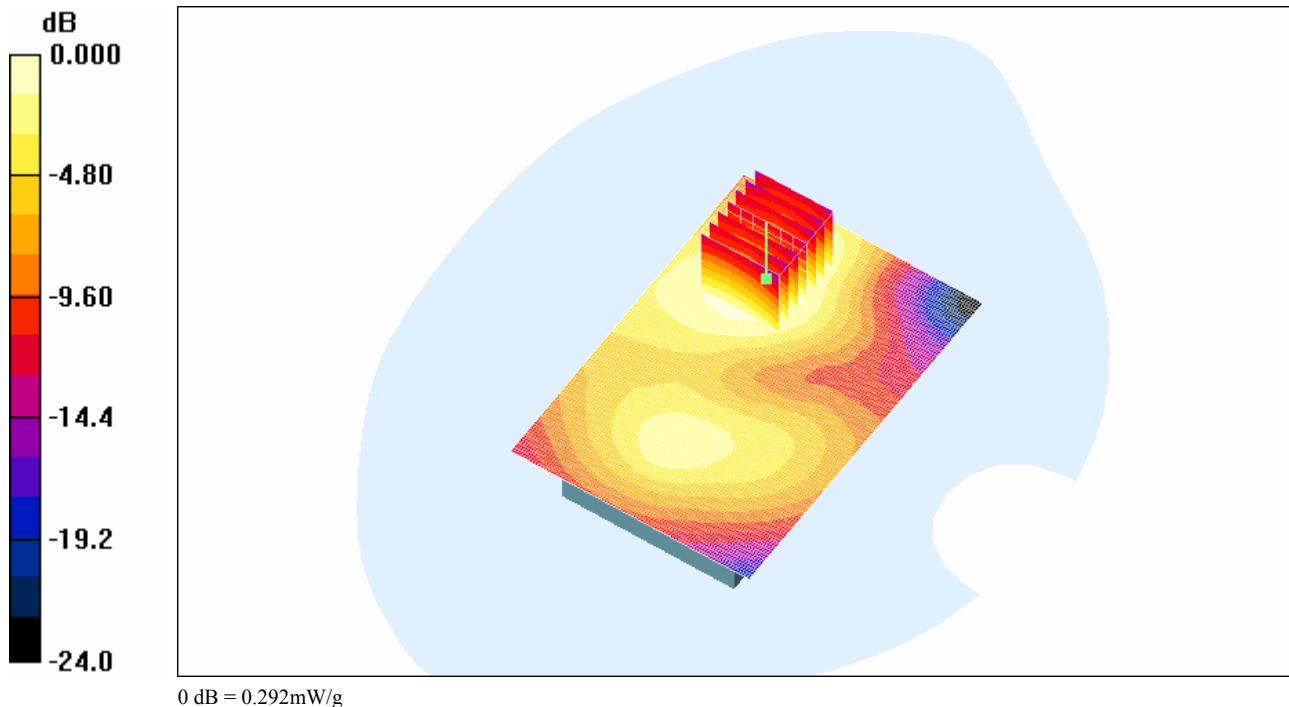
Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.08 V/m; Power Drift = -0.319 dB
Peak SAR (extrapolated) = 0.401 W/kg
SAR(1 g) = 0.263 mW/g; SAR(10 g) = 0.162 mW/g
Maximum value of SAR (measured) = 0.288 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.292 mW/g



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Date/Time: 27/06/2006 11:05:24 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster2_Front_MidChan_Amb_temp_24.0_Liq_temp_22.1.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

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

Reference Value = 5.81 V/m; Power Drift = -0.093 dB

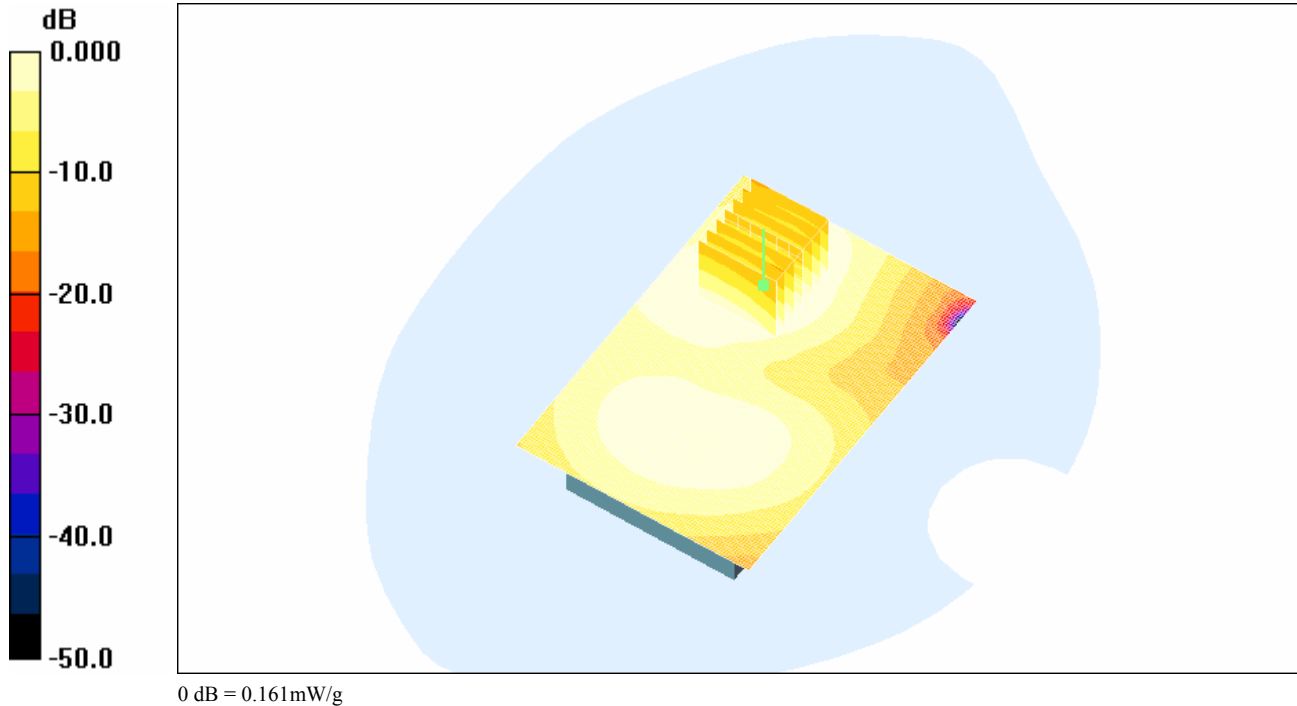
Peak SAR (extrapolated) = 0.221 W/kg

SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.093 mW/g

Maximum value of SAR (measured) = 0.158 mW/g

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

Maximum value of SAR (interpolated) = 0.161 mW/g



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Date/Time: 27/06/2006 10:34:16 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster2_Back_LowChan_Amb_temp_24.0_Liq_temp_22.0.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.5 V/m; Power Drift = -0.219 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.792 mW/g; SAR(10 g) = 0.477 mW/g

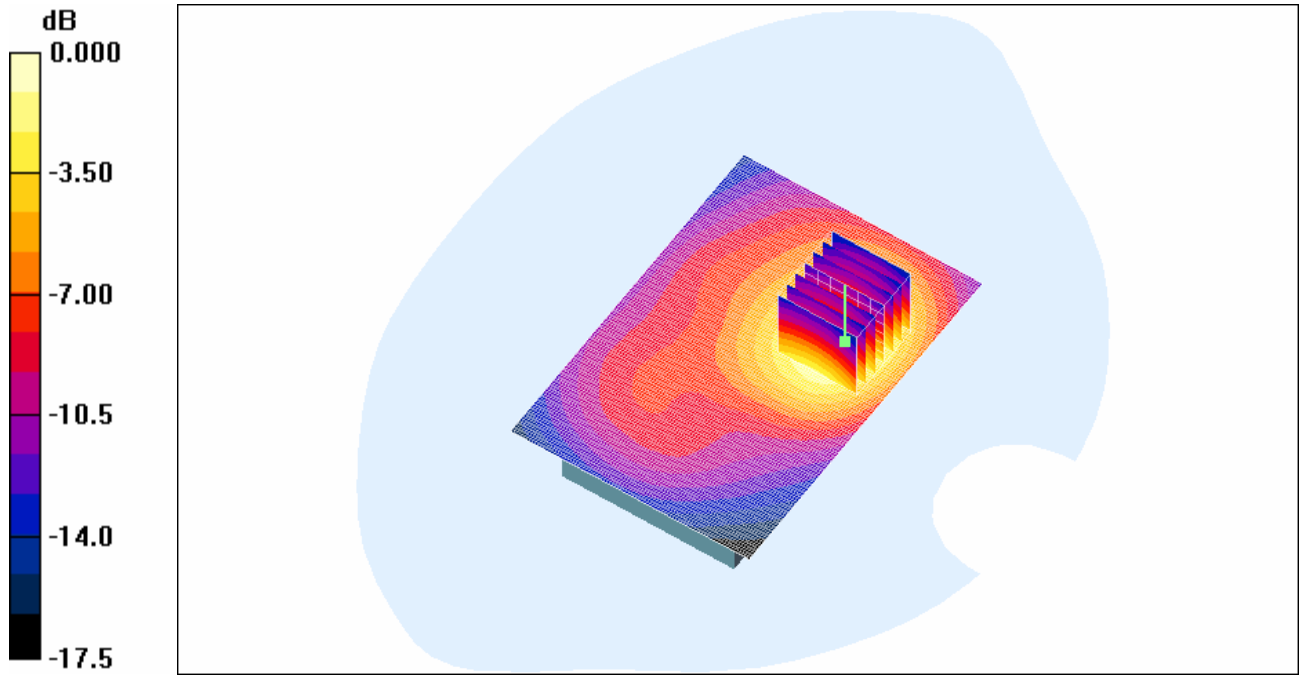
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.866 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) = 0.902 mW/g



0 dB = 0.902mW/g

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Date/Time: 27/06/2006 10:05:18 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster2_Back_MidChan_Amb_temp_23.9_Liq_temp_22.1.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

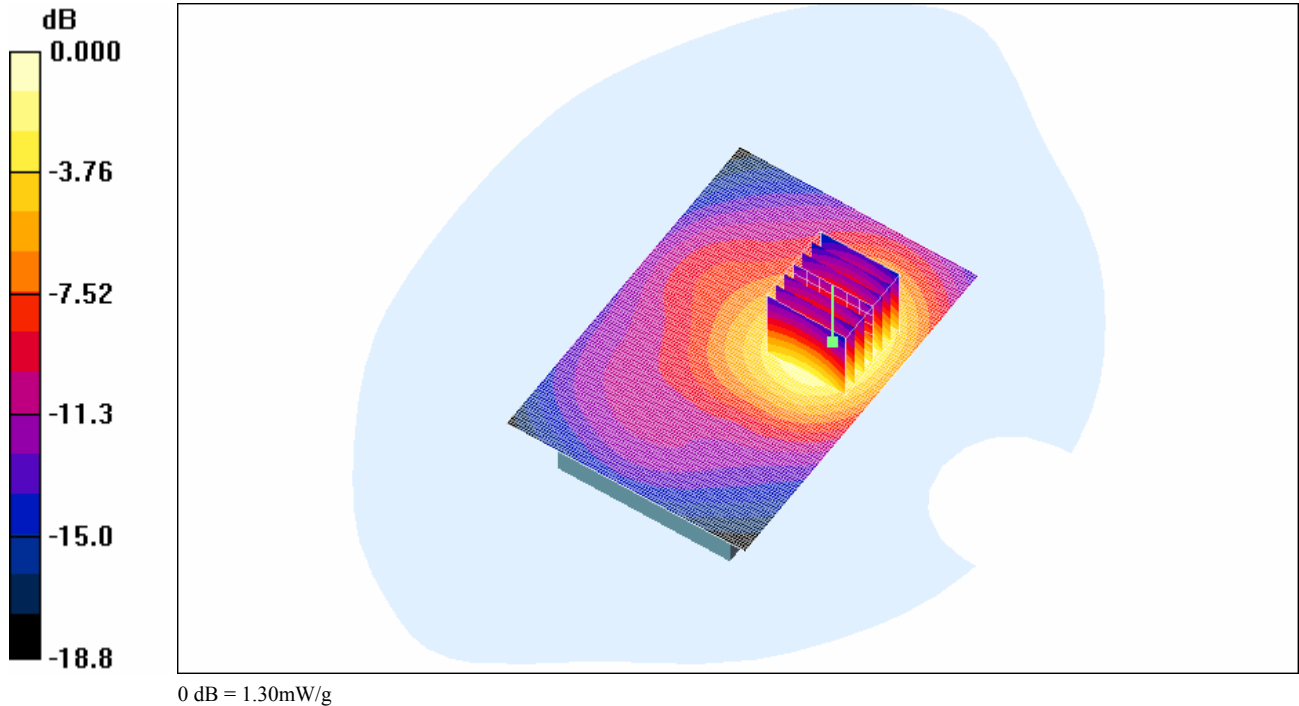
Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.5 V/m; Power Drift = -0.038 dB
Peak SAR (extrapolated) = 1.81 W/kg
SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.689 mW/g
Maximum value of SAR (measured) = 1.28 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.30 mW/g



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Date/Time: 27/06/2006 9:33:56 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster2_Back_HighChan_Amb_temp_23.8_Liq_temp_22.0.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.1 V/m; Power Drift = -0.216 dB
Peak SAR (extrapolated) = 1.84 W/kg
SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.678 mW/g

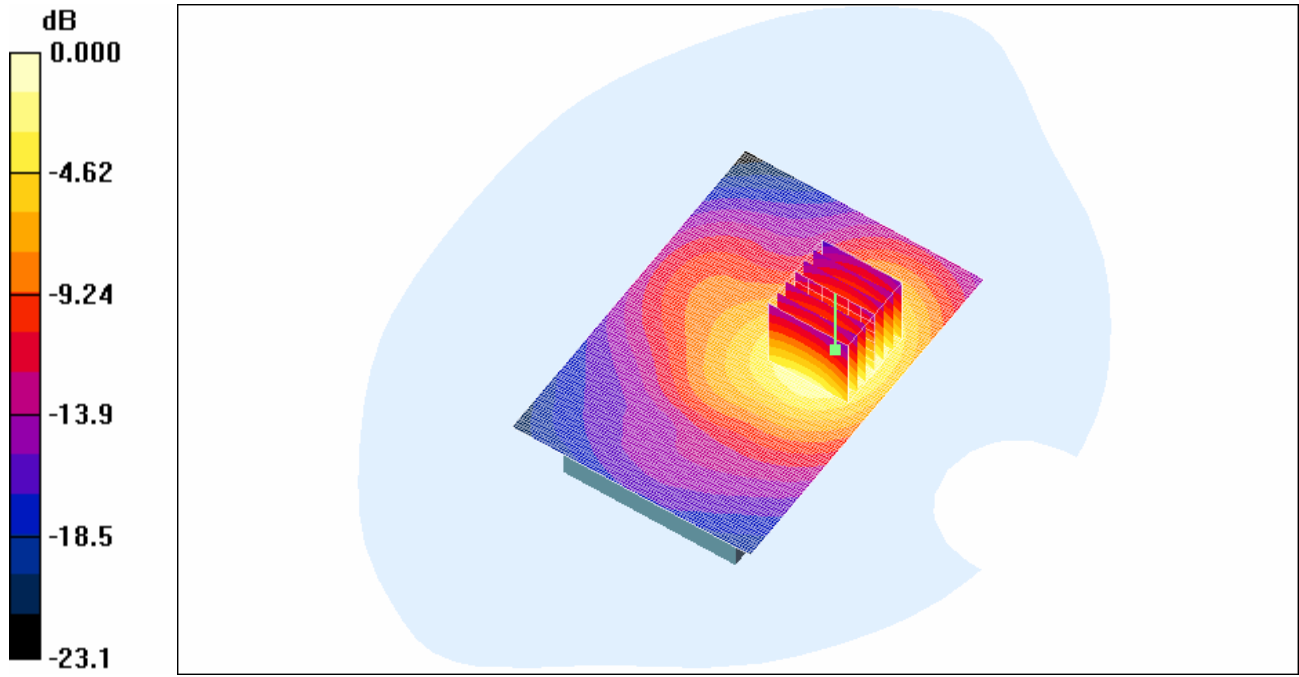
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.29 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) = 1.32 mW/g



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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Date/Time: 28/06/2006 7:55:58 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster4_Front_MidChan_Amb_temp_24.0_Liq_temp_22.3.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

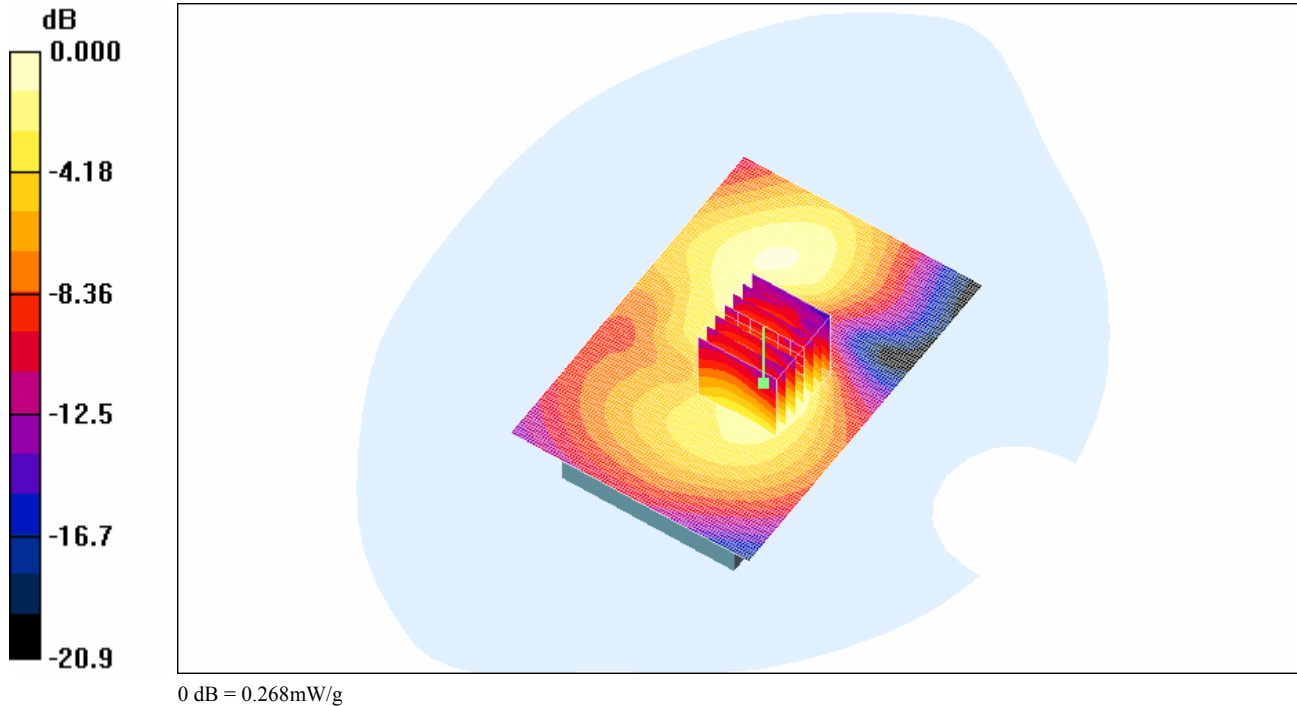
Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.7 V/m; Power Drift = -0.243 dB
Peak SAR (extrapolated) = 0.360 W/kg
SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.137 mW/g
Maximum value of SAR (measured) = 0.252 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.268 mW/g



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Date/Time: 28/06/2006 9:26:02 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster4_Back_LowChan_Amb_temp_24.0_Liq_temp_22.2.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.0 V/m; Power Drift = -0.137 dB
Peak SAR (extrapolated) = 1.58 W/kg
SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.597 mW/g

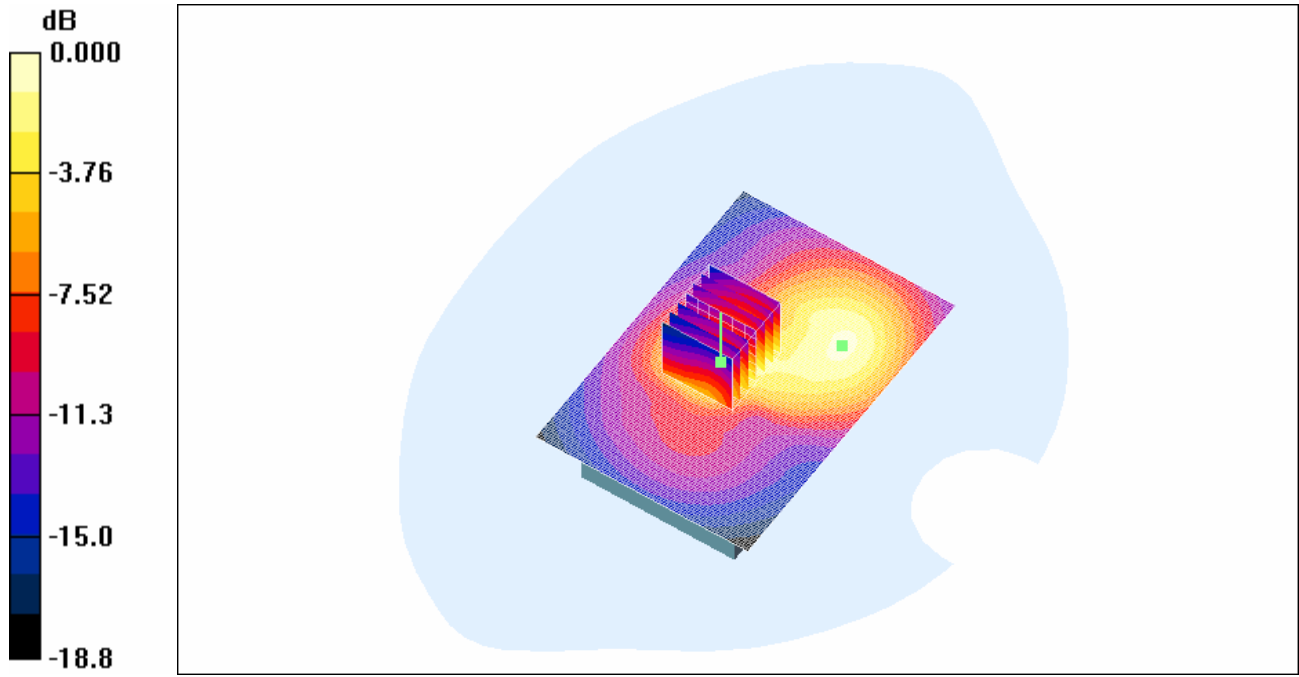
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.13 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) = 1.20 mW/g



0 dB = 1.20mW/g

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Date/Time: 28/06/2006 8:56:49 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster4_Back_MidChan_Amb_temp_23.8_Liq_temp_22.1.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

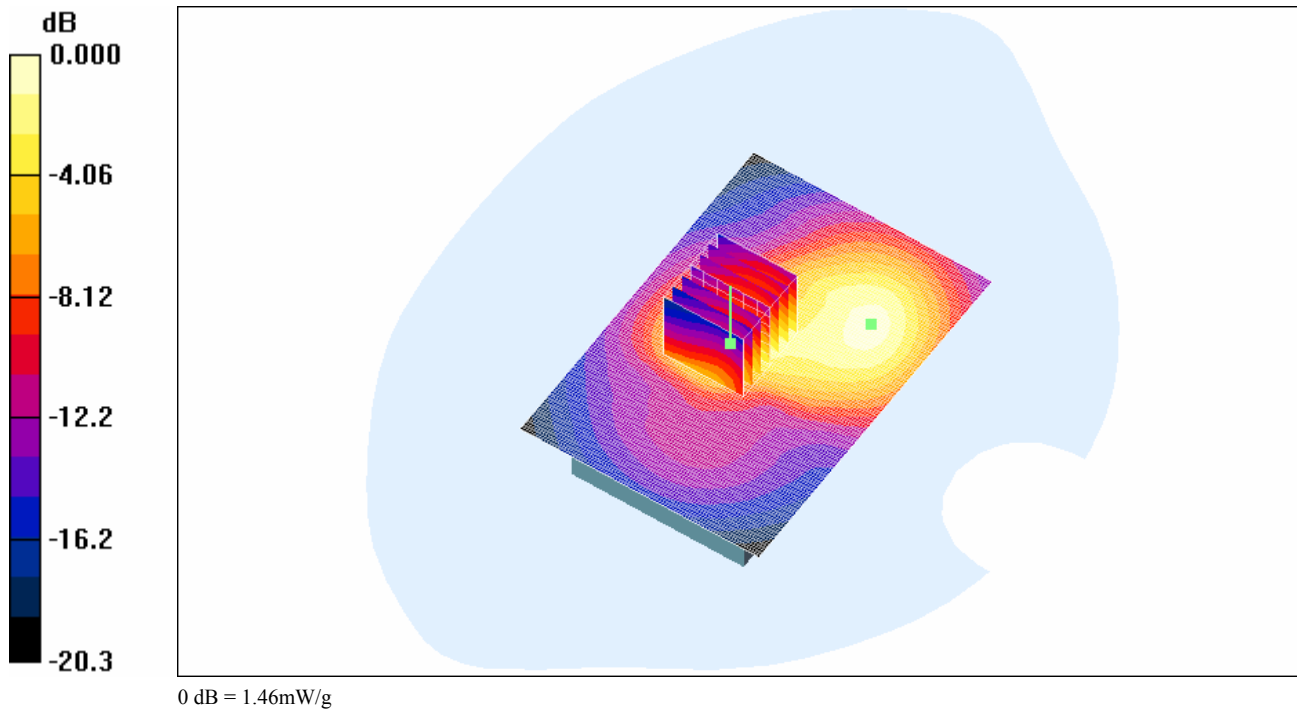
Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.1 V/m; Power Drift = 0.008 dB
Peak SAR (extrapolated) = 1.99 W/kg
SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.729 mW/g
Maximum value of SAR (measured) = 1.38 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.46 mW/g



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Date/Time: 28/06/2006 8:26:57 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster4_Back_HighChan_Amb_temp_23.9_Liq_temp_22.0.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.3 V/m; Power Drift = -0.387 dB
Peak SAR (extrapolated) = 2.05 W/kg
SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.749 mW/g

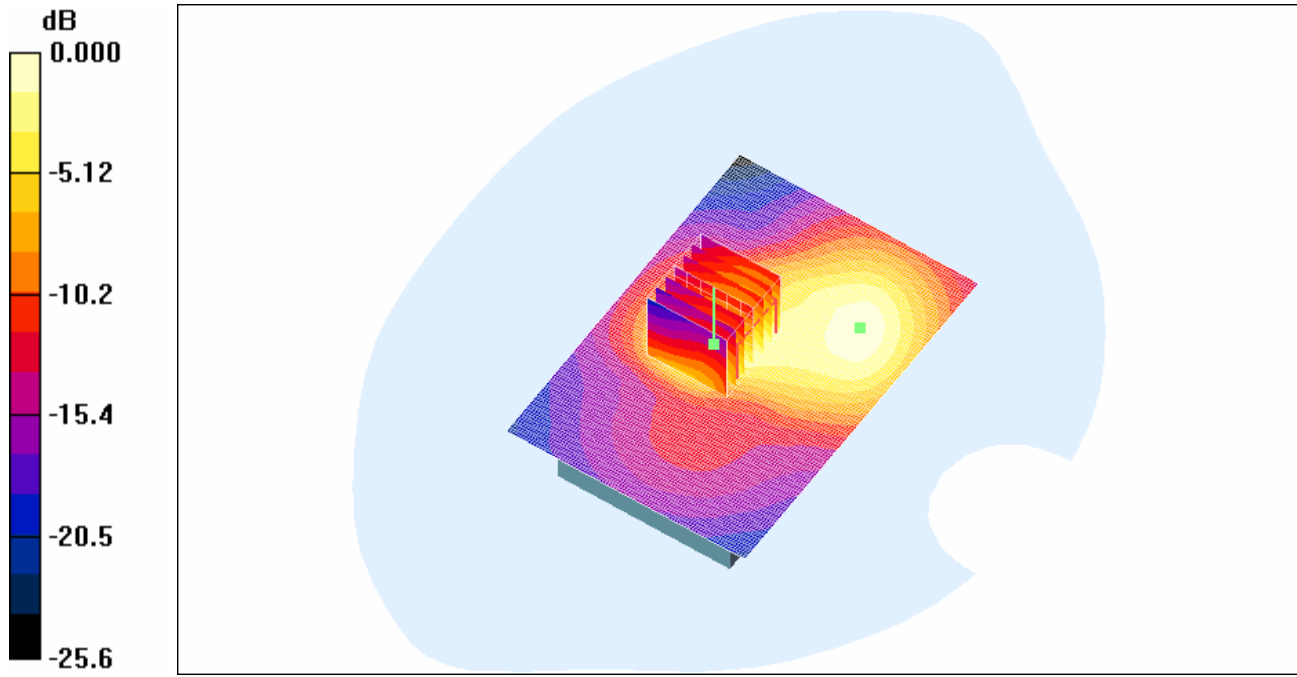
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.42 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) = 1.54 mW/g



0 dB = 1.54mW/g

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Date/Time: 29/06/2006 4:24:32 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_15mm_away_Back_LowChan_Amb_temp_23.7_Liq_temp_22.0.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.2 V/m; Power Drift = -0.382 dB
Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.929 mW/g; SAR(10 g) = 0.545 mW/g

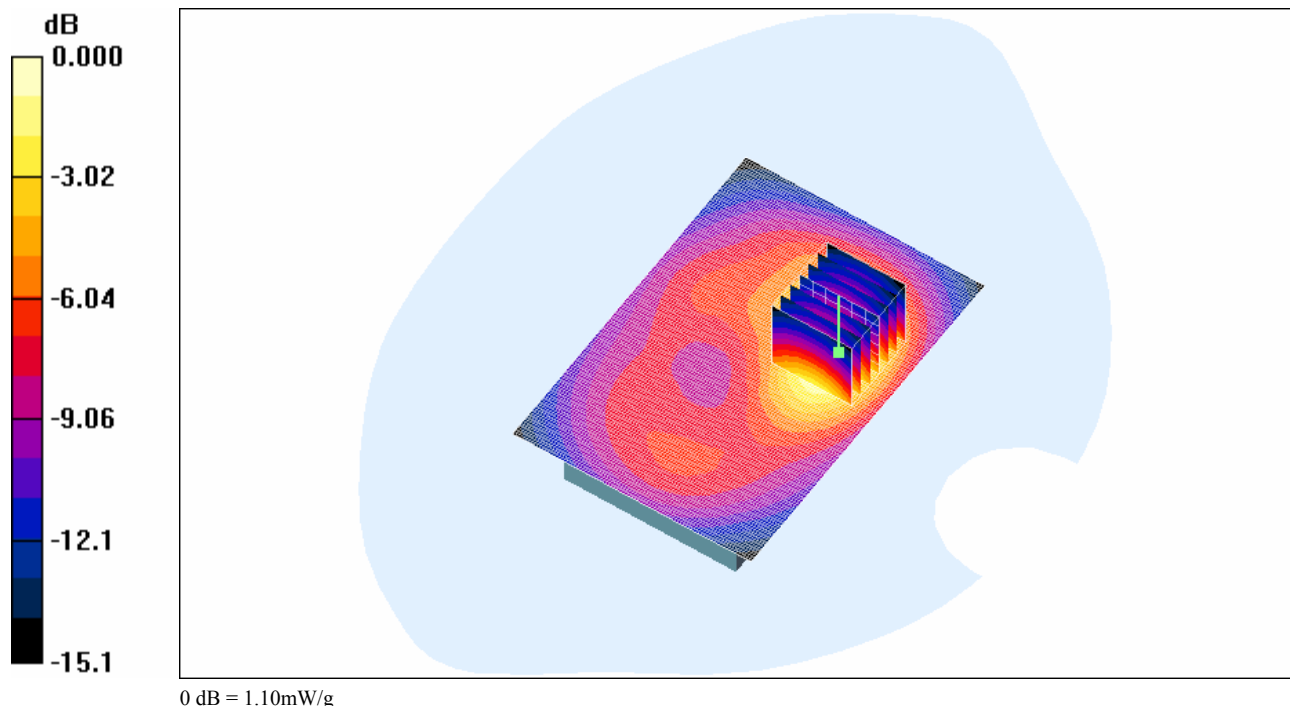
Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.02 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) = 1.10 mW/g



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Date/Time: 28/06/2006 10:58:16 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_15mm_away_Back_MidChan_Amb_temp_24.0_Liq_temp_22.2.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

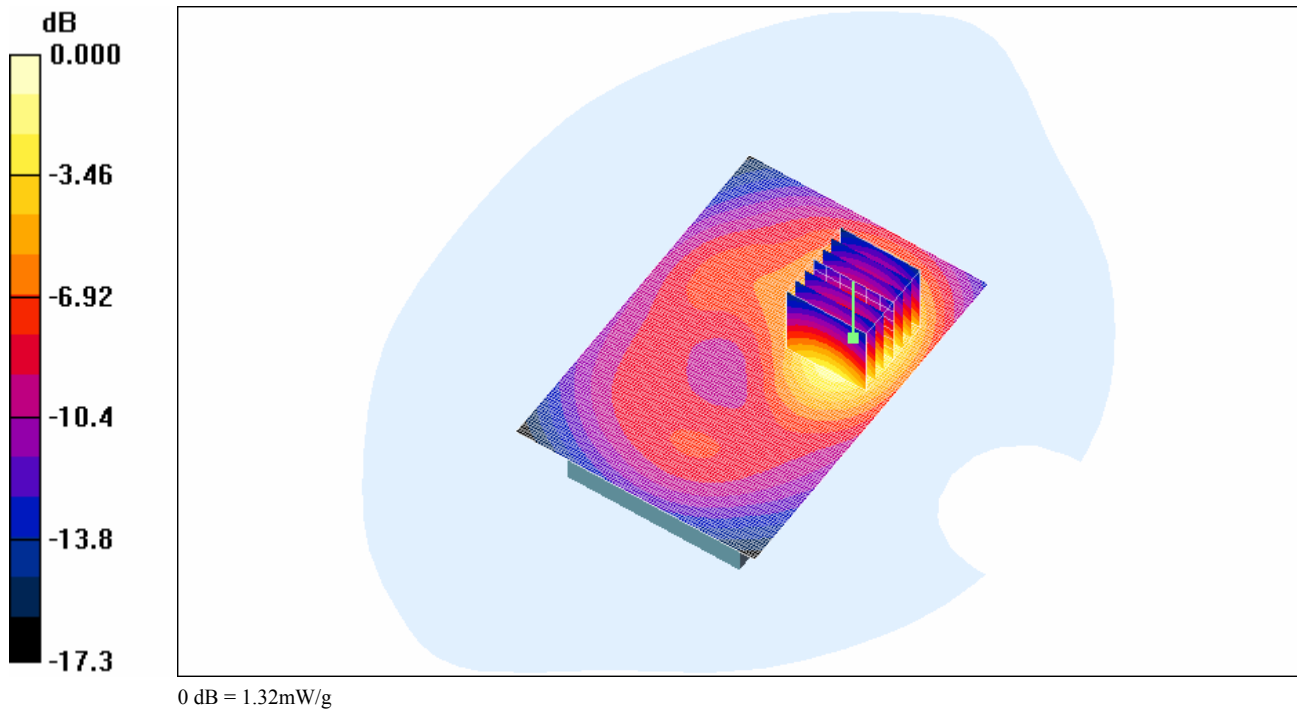
Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.4 V/m; Power Drift = 0.043 dB
Peak SAR (extrapolated) = 1.85 W/kg
SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.678 mW/g
Maximum value of SAR (measured) = 1.29 mW/g

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.32 mW/g



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Date/Time: 29/06/2006 4:52:33 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_15mm_away_Back_HighChan_Amb_temp_23.5_Liq_temp_21.8.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.8 V/m; Power Drift = -0.078 dB
Peak SAR (extrapolated) = 2.51 W/kg
SAR(1 g) = 1.55 mW/g; SAR(10 g) = 0.870 mW/g

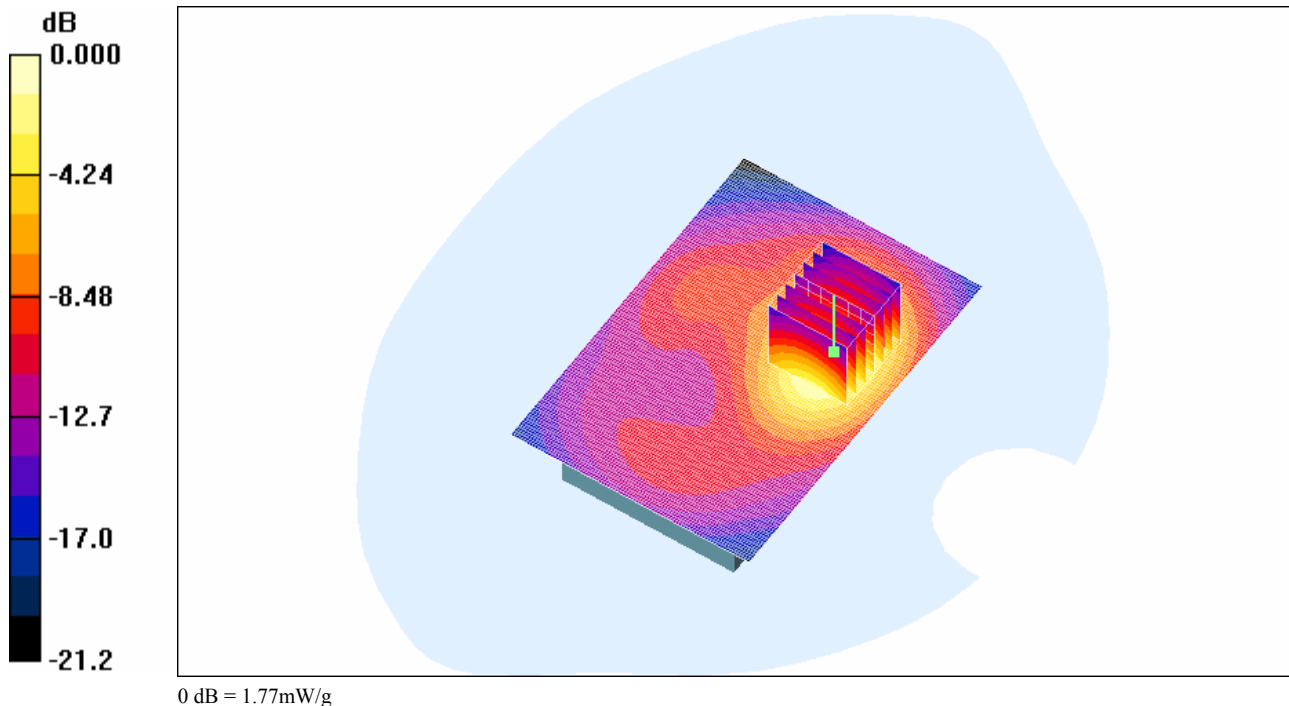
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.72 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) = 1.77 mW/g



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Date/Time: 04/07/2006 6:26:14 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster4_Back_HighChan_withHeadset_Amb_temp_23.8_Liq_temp_22.1.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.1 V/m; Power Drift = -0.210 dB
Peak SAR (extrapolated) = 2.04 W/kg
SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.780 mW/g

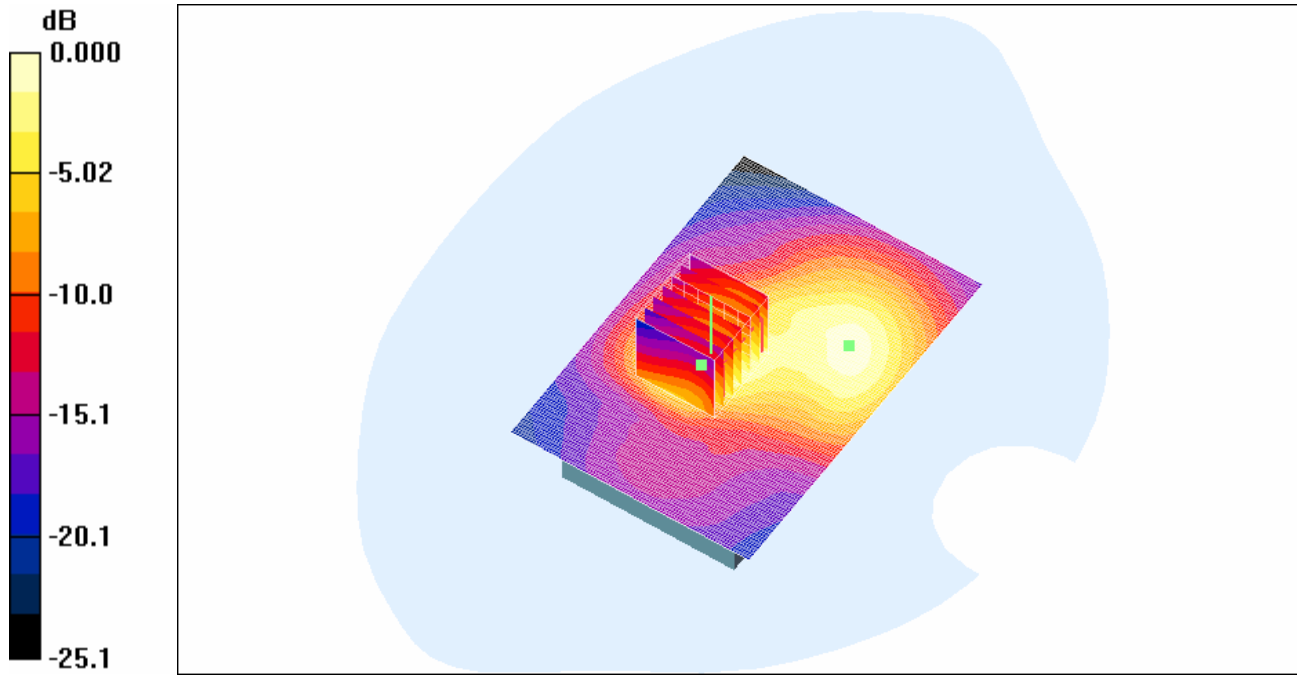
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.48 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) = 1.60 mW/g



0 dB = 1.60mW/g

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Date/Time: 04/07/2006 6:59:45 PM

Test Laboratory: RTS

File Name: [Body_Worn_CDMA1900_Battery1_Holster4_Back_HighChan_withBT_Amb_temp_23.2_Liq_temp_21.9.da4](#)

DUT: BlackBerry Wireless Handheld ; Type: Sample ; Serial: Not Specified
Program Name: Compliance Testing: Body-worn with holster

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.72, 4.72, 4.72); Calibrated: 19/01/2006
- 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.2 V/m; Power Drift = -0.312 dB
Peak SAR (extrapolated) = 1.71 W/kg
SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.677 mW/g

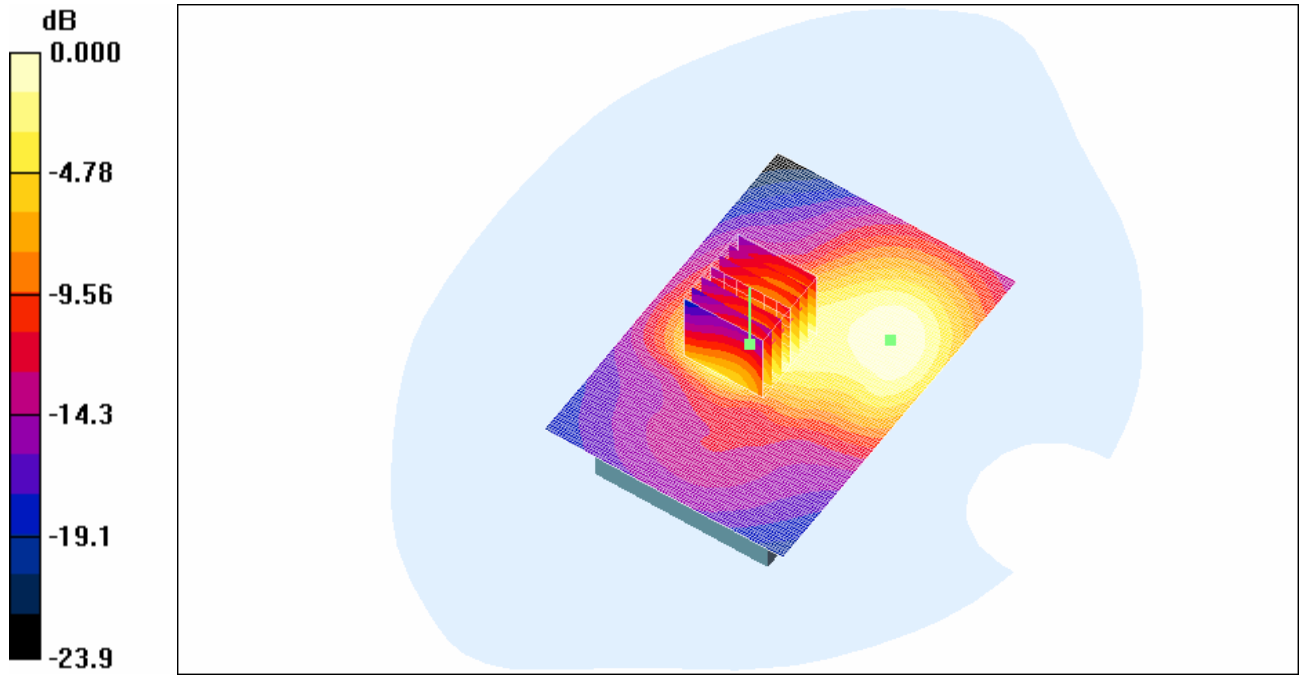
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.29 mW/g

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

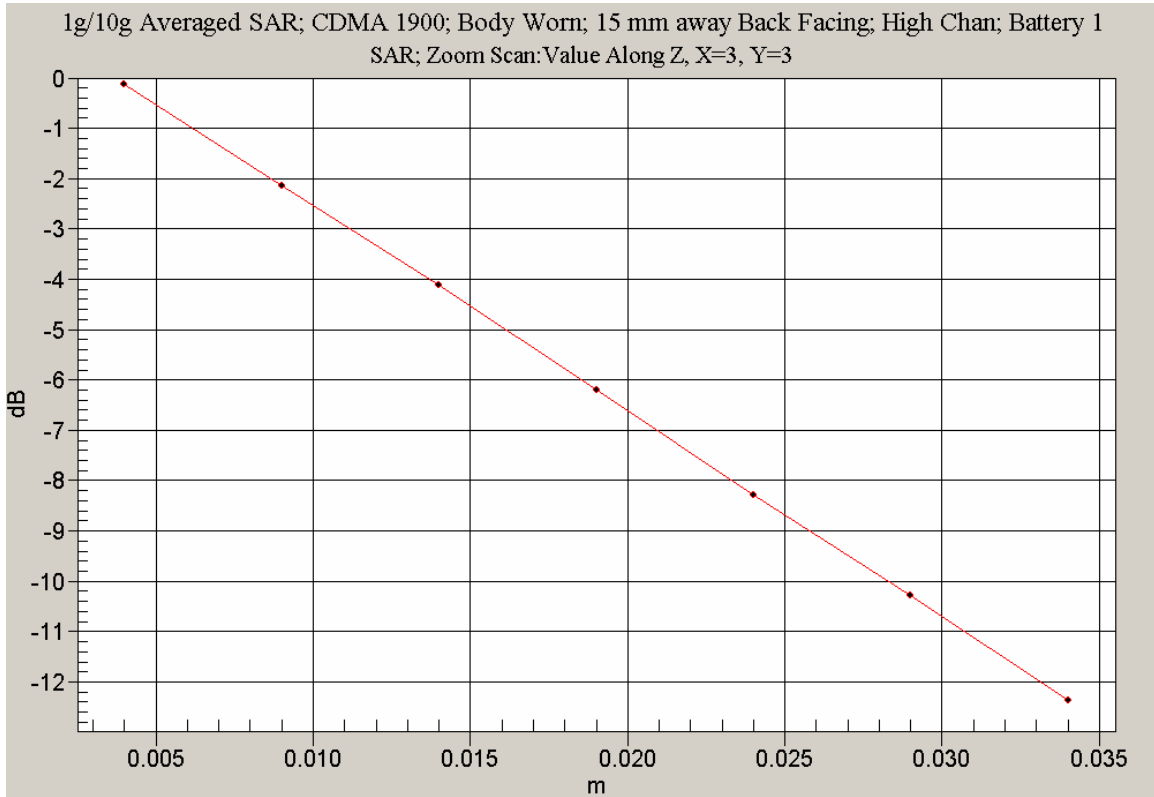
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.34 mW/g



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Z axis plot for the worst case body worn configuration:



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APPENDIX D: PROBE & DIPOLE CALIBRATION DATA

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Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

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 **RIM**

Certificate No: **ET3-1642_Jan06**

CALIBRATION CERTIFICATE

Object: **ET3DV6 - SN:1642**

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

Calibration date: **January 19, 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	3-May-05 (METAS, No. 251-00466)	May-06
Power sensor E4412A	MY41495277	3-May-05 (METAS, No. 251-00466)	May-06
Power sensor E4412A	MY41498067	3-May-05 (METAS, No. 251-00466)	May-06
Reference 3 dB Attenuator	SN: S5054 (3c)	11-Aug-05 (METAS, No. 251-00499)	Aug-06
Reference 20 dB Attenuator	SN: S5086 (20b)	3-May-05 (METAS, No. 251-00467)	May-06
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	27-Oct-05 (SPEAG, No. DAE4-654_Oct05)	Oct-06

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	<i>Katja Pokovic</i>
Approved by:	Fin Bomholt	R&D Director	<i>F. Bomholt</i>

Issued: January 20, 2006

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

Certificate No: ET3-1642_Jan06

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**Calibration Laboratory of
 Schmid & Partner
 Engineering AG**
 Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
S Service suisse d'étalonnage
C Servizio svizzero di taratura
S Swiss Calibration Service

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., $\theta = 0$ is normal to probe axis

Calibration is Performed According to the Following Standards:

- a) 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
- b) 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 $\theta = 0$ ($f \leq 900$ 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 E²-field uncertainty inside TSL (see below ConF).
- **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 ConF.
- **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.
- **ConF 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} * ConF whereby the uncertainty corresponds to that given for ConF. A frequency dependent ConF 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.

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ET3DV6 SN:1642

January 19, 2006

Probe ET3DV6

SN:1642

Manufactured:	November 7, 2001
Last calibrated:	January 7, 2005
Recalibrated:	January 19, 2006

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

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ET3DV6 SN:1642

January 19, 2006

DASY - Parameters of Probe: ET3DV6 SN:1642

Sensitivity in Free Space^A

NormX	1.66 ± 10.1%	$\mu V/(V/m)^2$
NormY	1.91 ± 10.1%	$\mu V/(V/m)^2$
NormZ	1.64 ± 10.1%	$\mu V/(V/m)^2$

Diode Compression^B

DCP X	94 mV
DCP Y	94 mV
DCP Z	94 mV

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL 900 MHz Typical SAR gradient: 5 % per mm

Sensor Center to Phantom Surface Distance	3.7 mm	4.7 mm
SAR ₉₀ [%] Without Correction Algorithm	8.5	4.6
SAR ₉₀ [%] With Correction Algorithm	0.1	0.1

TSL 1510 MHz Typical SAR gradient: 10 % per mm

Sensor Center to Phantom Surface Distance	3.7 mm	4.7 mm
SAR ₉₀ [%] Without Correction Algorithm	12.3	8.1
SAR ₉₀ [%] With Correction Algorithm	0.6	0.3

Sensor Offset

Probe Tip to Sensor Center 2.7 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.

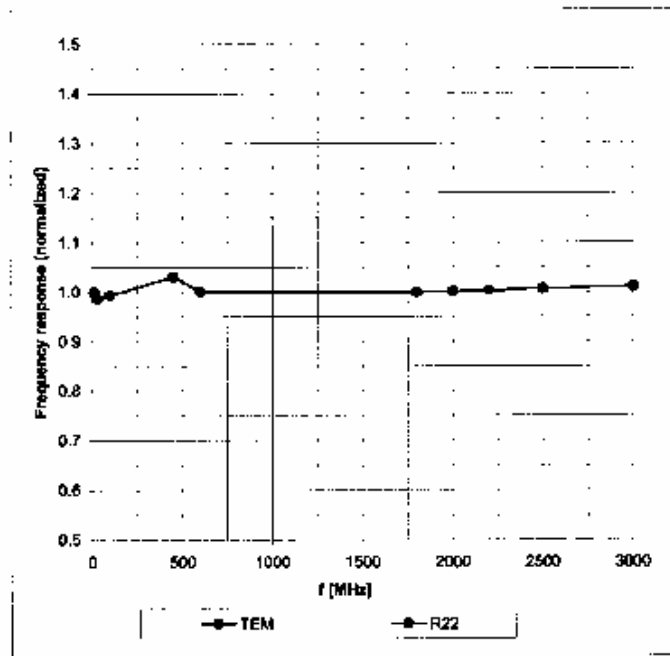
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ET3DV6 SN:1642

January 19, 2006

Frequency Response of E-Field

(TEM-Cell: if1110 EXX, Waveguide: R22)



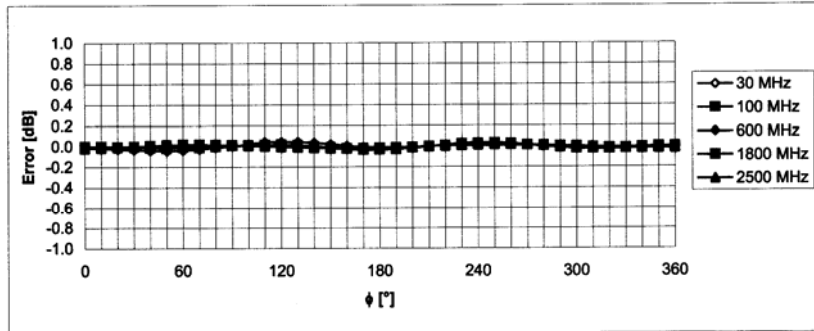
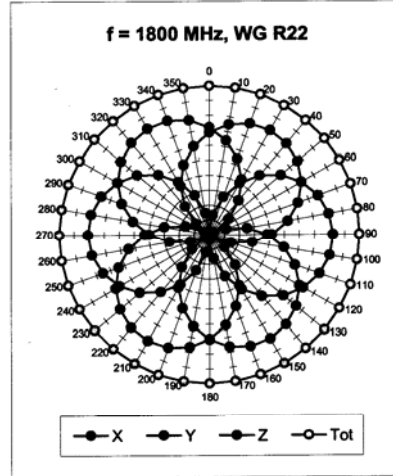
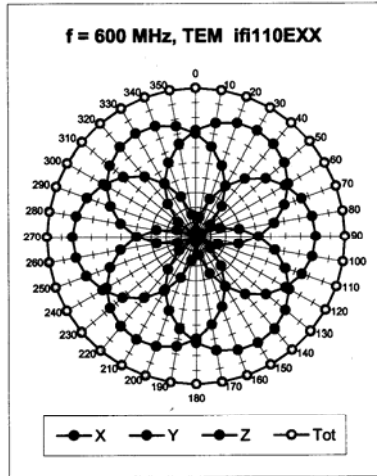
Uncertainty of Frequency Response of E-field: $\pm 8.3\%$ ($k=2$)

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ET3DV6 SN:1642

January 19, 2006

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



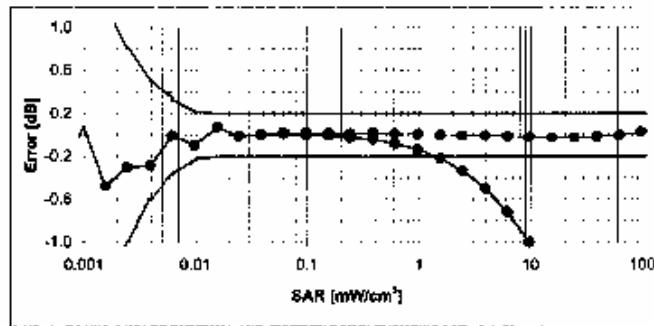
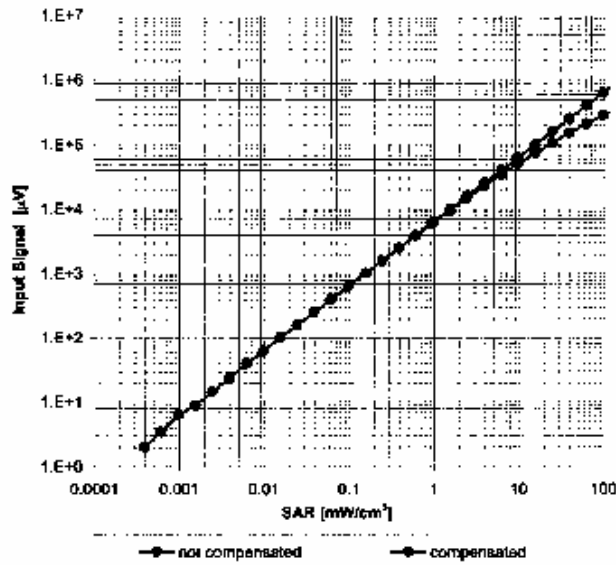
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

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ET3DVB SN:1642

January 19, 2006

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

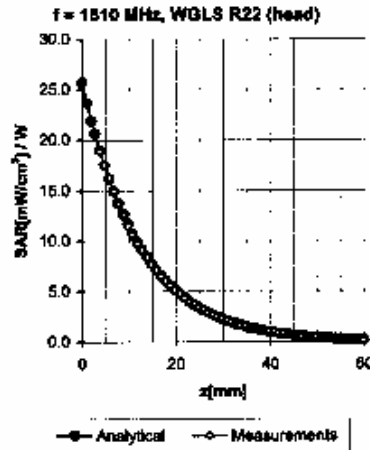
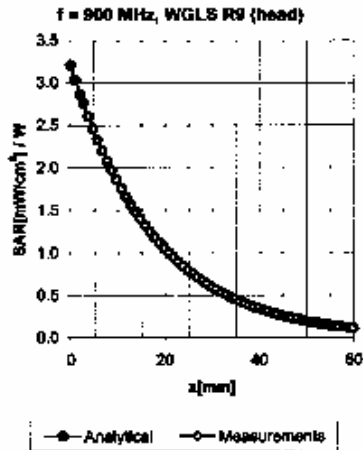


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

ET3DV6 SN:1642

January 19, 2006

Conversion Factor Assessment



f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.57	1.68	6.38 ± 11.0% (k=2)
1810	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.66	2.12	5.18 ± 11.0% (k=2)
1850	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.73	1.55	5.02 ± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.50	2.06	6.13 ± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.67	2.05	4.72 ± 11.0% (k=2)
1950	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.64	2.44	4.38 ± 11.0% (k=2)

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

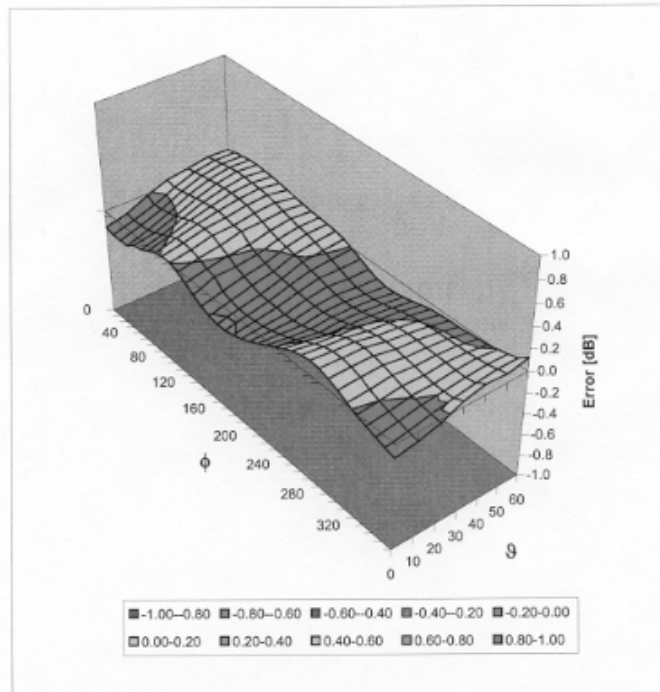
RTS RIM Testing Services	Document Appendices for the BlackBerry 8703e Wireless Handheld Model RBF20CW SAR Report		Page 100(11 2)
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ET3DV6 SN:1642

January 19, 2006

Deviation from Isotropy in HSL

Error (ϕ, θ), $f = 900$ MHz



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

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Kevin Chow	June 26 - July 04, 2006	RTS-0373-0607-09	L6ARBF20CW	

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Engineering AG**
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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 **RIM**

Certificate No: **D835V2-446_Jan05**

CALIBRATION CERTIFICATE			
Object	D835V2 - SN: 446		
Calibration procedure(s)	QA CAL-05.v6 Calibration procedure for dipole validation kits		
Calibration date:	January 7, 2005		
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 EPM E442	GB37480704	12-Oct-04 (METAS, No. 251-00412)	Oct-05
Power sensor HP 8481A	US37292783	12-Oct-04 (METAS, No. 251-00412)	Oct-05
Reference 20 dB Attenuator	SN: 5086 (20g)	10-Aug-04 (METAS, No 251-00402)	Aug-05
Reference 10 dB Attenuator	SN: 5047.2 (10r)	10-Aug-04 (METAS, No 251-00402)	Aug-05
Reference Probe ET3DV6	SN 1507	26-Oct-04 (SPEAG, No. ET3-1507_Oct04)	Oct-05
DAE4	SN 907	03-May-04 (SPEAG, No. DAE4-907_May04)	May-05
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (SPEAG, in house check Oct-03)	In house check: Oct-05
RF generator R&S SML-03	100698	27-Mar-02 (SPEAG, in house check Dec-03)	In house check: Dec-05
Network Analyzer HP 8753E	US37390585 S4206	Oct-01 (SPEAG, in house check Nov-04)	In house check: Nov-05
Calibrated by:	Name Judith Müller	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Function Technical Manager	Signature
			Issued: January 13, 2005
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			

Certificate No: D835V2-446_Jan05

Page 1 of 6

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Kevin Chow	June 26 - July 04, 2006	RTS-0373-0607-09	L6ARBF20CW		

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Zeughausstrasse 43, 8004 Zurich, Switzerland



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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
ConvF sensitivity in TSL / NORM x,y,z
N/A not applicable or not measured

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
- Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Supplement C (Edition 01-01) to Bulletin 65

Additional Documentation:

- DASY4 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY4	V4.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V4.9	
Distance Dipole Center - TSL	15 mm	with Spacer
Area Scan resolution	dx, dy = 15 mm	
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.2 ± 6 %	0.91 mho/m ± 6 %
Head TSL temperature during test	(22.0 ± 0.2) °C	---	---

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	condition	
SAR measured	250 mW input power	2.27 mW / g
SAR normalized	normalized to 1W	9.08 mW / g
SAR for nominal Head TSL parameters ¹	normalized to 1W	9.10 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.48 mW / g
SAR normalized	normalized to 1W	5.92 mW / g
SAR for nominal Head TSL parameters ¹	normalized to 1W	5.93 mW / g ± 16.5 % (k=2)

¹ Correction to nominal TSL parameters according to d), chapter "SAR Sensitivities"

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Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.1 Ω - 7.1 j Ω
Return Loss	- 22.9 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.385 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	October 24, 2001

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DASY4 Validation Report for Head TSL

Date/Time: 01/07/05 15:08:43

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN446

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

Medium: HSL 900 MHz;

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507; ConvF(6.24, 6.24, 6.24); Calibrated: 26.10.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn907; Calibrated: 03.05.2004
- Phantom: Flat Phantom 4.9L; Type: QD000P50AA; Serial: SN:1001;
- Measurement SW: DASY4, V4.4 Build 10; Postprocessing SW: SEMCAD, V1.8 Build 133

Pin = 250 mW; d = 15 mm/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.44 mW/g

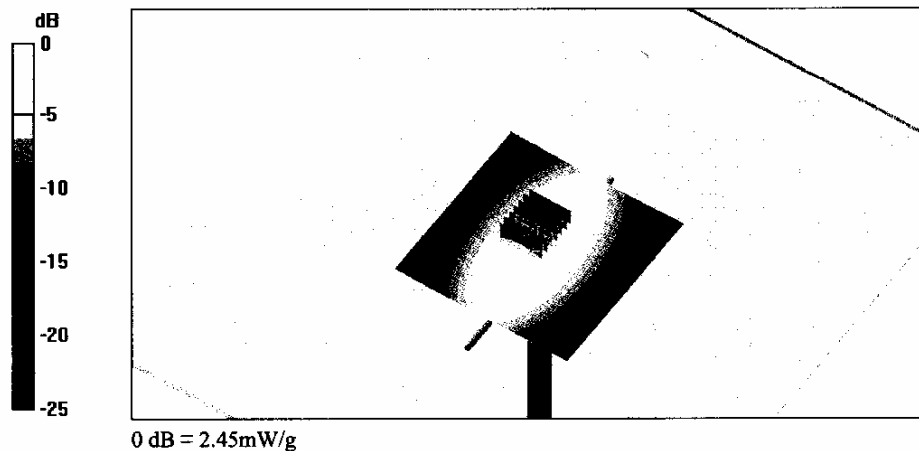
Pin = 250 mW; d = 15 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.2 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 3.36 W/kg

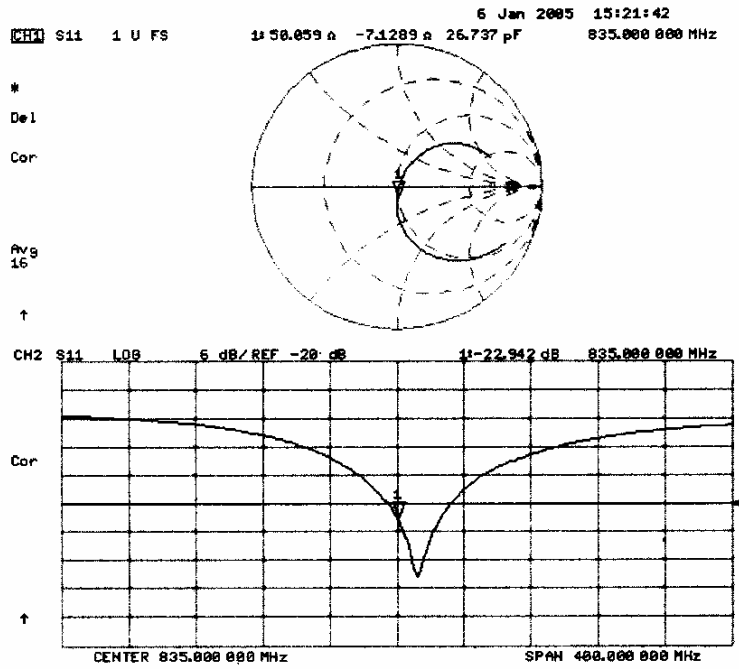
SAR(1 g) = 2.27 mW/g; SAR(10 g) = 1.48 mW/g

Maximum value of SAR (measured) = 2.45 mW/g



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Impedance Measurement Plot for Head TSL



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Accreditation No.: **SCS 108**

Client **RIM**

Certificate No: **D1900V2-545_Jan05**

CALIBRATION CERTIFICATE

Object **D1900V2 - SN: 545**

Calibration procedure(s) **QA CAL-05.v6
Calibration procedure for dipole validation kits**

Calibration date: **January 06, 2005**

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 EPM E442	GB37480704	12-Oct-04 (METAS, No. 251-00412)	Oct-05
Power sensor HP 8481A	US37292783	12-Oct-04 (METAS, No. 251-00412)	Oct-05
Reference 20 dB Attenuator	SN: 5086 (20g)	10-Aug-04 (METAS, No 251-00402)	Aug-05
Reference 10 dB Attenuator	SN: 5047.2 (10r)	10-Aug-04 (METAS, No 251-00402)	Aug-05
Reference Probe ET3DV6	SN 1507	26-Oct-04 (SPEAG, No. ET3-1507_Oct04)	Oct-05
DAE4	SN 907	03-May-04 (SPEAG, No. DAE4-907_May04)	May-05

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (SPEAG, in house check Oct-03)	In house check: Oct-05
RF generator R&S SML-03	100698	27-Mar-02 (SPEAG, in house check Dec-03)	In house check: Dec-05
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (SPEAG, in house check Nov-04)	In house check: Nov 05

Calibrated by:	Name Judith Müller	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Technical Manager	

Issued: January 13, 2005

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Kevin Chow	June 26 - July 04, 2006	RTS-0373-0607-09	L6ARBF20CW

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Accreditation No.: **SCS 108**

Glossary:

TSL tissue simulating liquid
 ConvF sensitivity in TSL / NORM x,y,z
 N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) 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
- b) 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
- c) Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Supplement C (Edition 01-01) to Bulletin 65

Additional Documentation:

- d) DASY4 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

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	Author Data Kevin Chow	Dates of Test June 26 - July 04, 2006	Test Report No RTS-0373-0607-09

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY4	V4.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V4.9	
Distance Dipole Center - TSL	10 mm	with Spacer
Area Scan resolution	dx, dy = 15 mm	
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.9 ± 6 %	1.45 mho/m ± 6 %
Head TSL temperature during test	(22.0 ± 0.2) °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	condition	
SAR measured	250 mW input power	10.2 mW / g
SAR normalized	normalized to 1W	40.8 mW / g
SAR for nominal Head TSL parameters ¹	normalized to 1W	39.5 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.34 mW / g
SAR normalized	normalized to 1W	21.4 mW / g
SAR for nominal Head TSL parameters ¹	normalized to 1W	20.7 mW / g ± 16.5 % (k=2)

¹ Correction to nominal TSL parameters according to d), chapter "SAR Sensitivities"

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Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.7 Ω + 2.1 j Ω
Return Loss	- 31.5 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.198 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	November 15, 2001

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DASY4 Validation Report for Head TSL

Date/Time: 01/06/05 18:30:23

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN545

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

Medium: HSL 1900 MHz;

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507; ConvF(4.96, 4.96, 4.96); Calibrated: 26.10.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn907; Calibrated: 03.05.2004
- Phantom: Flat Phantom quarter size; Type: QD000P50AA; Serial: SN:1001;
- Measurement SW: DASY4, V4.4 Build 10; Postprocessing SW: SEMCAD, V1.8 Build 133

Pin = 250 mW; d = 10 mm/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.6 mW/g

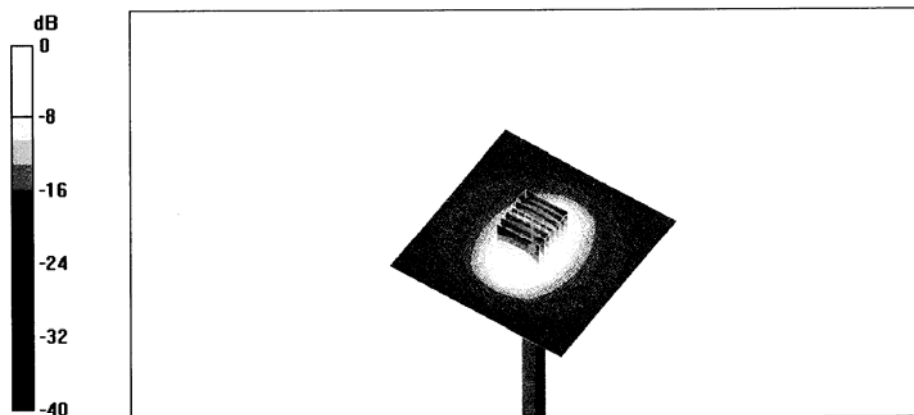
Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,
dz=5mm

Reference Value = 95.2 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 18 W/kg

SAR(1 g) = 10.2 mW/g; SAR(10 g) = 5.34 mW/g

Maximum value of SAR (measured) = 11.7 mW/g



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Impedance Measurement Plot for Head TSL

