

 <p>Document Appendix A for the BlackBerry® Smartphone Model RDM71UW/RDN71UW SAR Report</p>				Page 1(7)
Author Data Hang Wang	Dates of Test Jan 11 – Feb 15, 2011	Test Report No RTS-3640-1102-04a	FCC ID: L6ARDM70UW L6ARDN70UW	IC ID 2503A-RDM70UW 2503A-RDN70UW

APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

 <p>Document Appendix A for the BlackBerry® Smartphone Model RDM71UW/RDN71UW SAR Report</p>		<p>Page 2(7)</p>
Author Data Hang Wang	Dates of Test Jan 11 – Feb 15, 2011	Test Report No RTS-3640-1102-04a

Date/Time: 2/9/2011 11:52:25 AM

Test Laboratory: RIM Testing Services

DipoleValidation_835MHz_Amb_Tem_23.5_Liq_Tem_22.4C_02_09_11

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

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.922$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.01, 6.01, 6.01); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 110.0 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 13.9 W/kg

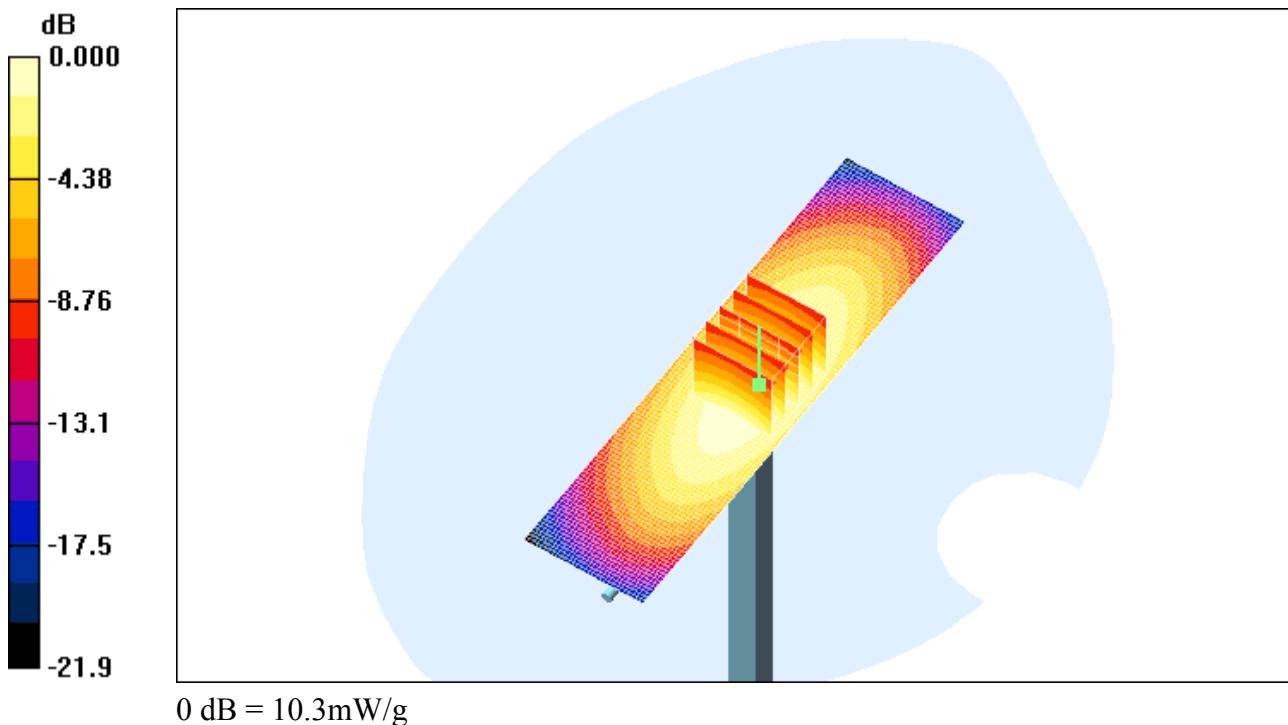
SAR(1 g) = 9.59 mW/g; SAR(10 g) = 6.29 mW/g

Maximum value of SAR (measured) = 10.4 mW/g

d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 10.3 mW/g

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 <p>Document Appendix A for the BlackBerry® Smartphone Model RDM71UW/RDN71UW SAR Report</p>				Page 4(7)
Author Data Hang Wang	Dates of Test Jan 11 – Feb 15, 2011	Test Report No RTS-3640-1102-04a	FCC ID: L6ARDM70UW L6ARDN70UW	IC ID 2503A-RDM70UW 2503A-RDN70UW

Date/Time: 2/14/2011 5:48:17 PM

Test Laboratory: RIM Testing Services

DipoleValidation_1900MHz_Amb_Tem_23.5_Liq_Tem_22.1_02_14_11

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

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(4.99, 4.99, 4.99); Calibrated: 3/9/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 187.0 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 65.6 W/kg

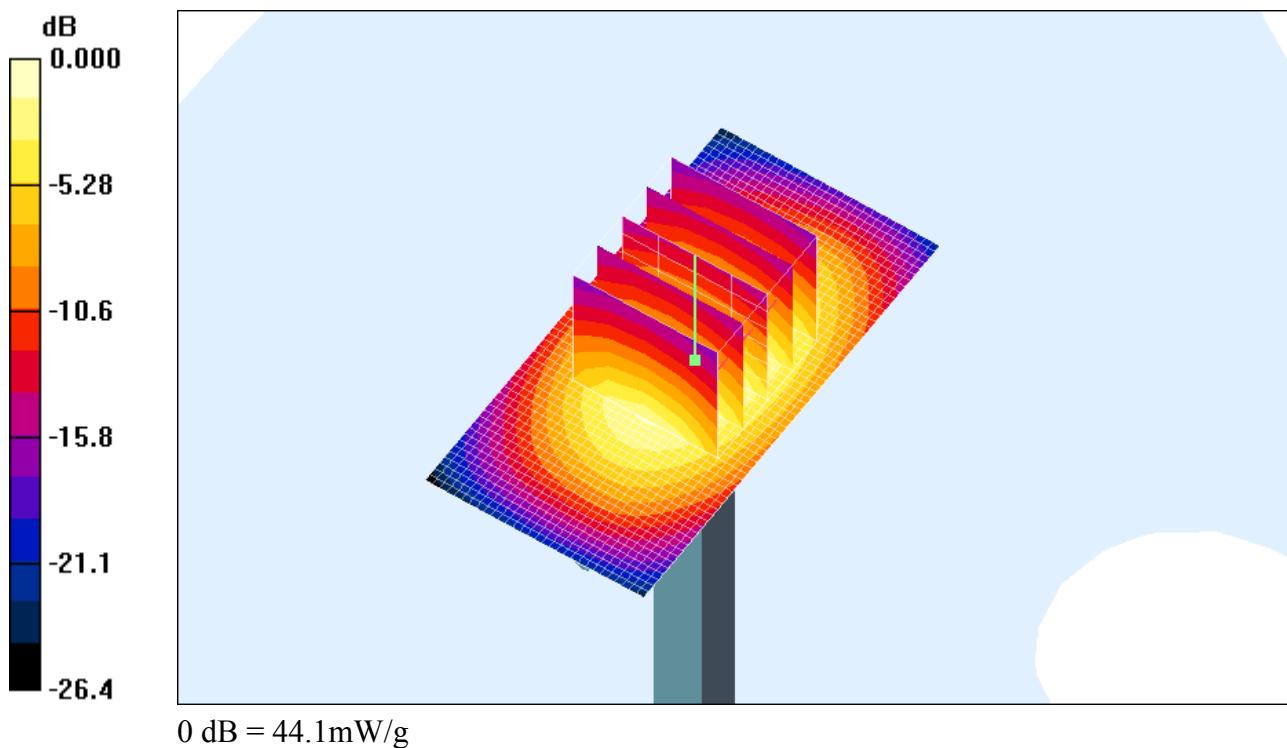
SAR(1 g) = 38.3 mW/g; SAR(10 g) = 20.2 mW/g

Maximum value of SAR (measured) = 43.2 mW/g

d=15mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 44.1 mW/g

Author Data Hang Wang	Dates of Test Jan 11 – Feb 15, 2011	Test Report No RTS-3640-1102-04a	FCC ID: L6ARDM70UW L6ARDN70UW	IC ID 2503A-RDM70UW 2503A-RDN70UW
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 <p>Document Appendix A for the BlackBerry® Smartphone Model RDM71UW/RDN71UW SAR Report</p>				Page 6(7)
Author Data Hang Wang	Dates of Test Jan 11 – Feb 15, 2011	Test Report No RTS-3640-1102-04a	FCC ID: L6ARDM70UW L6ARDN70UW	IC ID 2503A-RDM70UW 2503A-RDN70UW

Date/Time: 1/11/2011 6:30:20 PM

Test Laboratory: RIM Testing Services

DipoleValidation_2450MHz_Amb_Tem_23.7_Liq_Tem_22.4C

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:747

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 37.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.5, 4.5, 4.5); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 190.3 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 128.3 W/kg

SAR(1 g) = 56.1 mW/g; SAR(10 g) = 25.7 mW/g

Maximum value of SAR (measured) = 62.0 mW/g

d=15mm, Pin=1000mW/Area Scan (31x41x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 63.8 mW/g

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