

	Document Appendix A for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 1(9)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW

APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

	Document Appendix A for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 2(9)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW

Date/Time: 3/16/2010 1:41:57 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[DipoleValidation_835MHz_Amb_Tem_22.7_Liq_Tem_22.0_C_03_16_10.da4](#)

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

Program Name: System Performance Check at 835 MHz

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.856 \text{ mho/m}$; $\epsilon_r = 43.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(6.08, 6.08, 6.08); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 111.2 V/m ; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 13.0 W/kg

SAR(1 g) = 9.05 mW/g ; SAR(10 g) = 5.97 mW/g

Maximum value of SAR (measured) = 9.77 mW/g

d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement grid: $dx=15\text{mm}$,

$dy=15\text{mm}$

Maximum value of SAR (interpolated) = 9.74 mW/g

Author Data

Andrew Becker

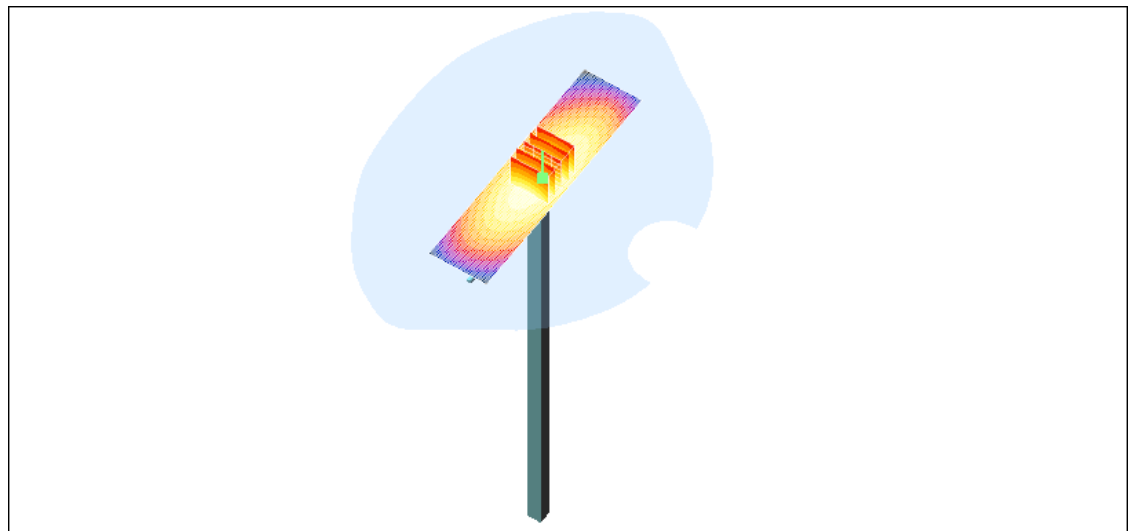
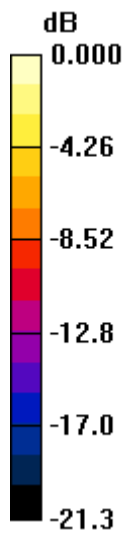
Dates of Test

March 15 – March 16, 2010

Test Report No

RTS-2474-1003-25

FCC ID:

L6ARCX70UW


0 dB = 9.74mW/g

	Document Appendix A for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 4(9)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW

Date/Time: 3/16/2010 6:49:32 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[DipoleValidation 1800MHz Amb Tem 22.6 Liq Tem 21.2C 03 16 10.da4](#)

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d020

Program Name: System Performance Check at 1800 MHz

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 40.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.17, 5.17, 5.17); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement

grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 175.3 V/m ; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 61.4 W/kg

SAR(1 g) = 36 mW/g ; SAR(10 g) = 19.2 mW/g

Maximum value of SAR (measured) = 40.3 mW/g

d=10mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: $dx=15\text{mm}$,

$dy=15\text{mm}$

Maximum value of SAR (interpolated) = 41.2 mW/g

Author Data

Andrew Becker

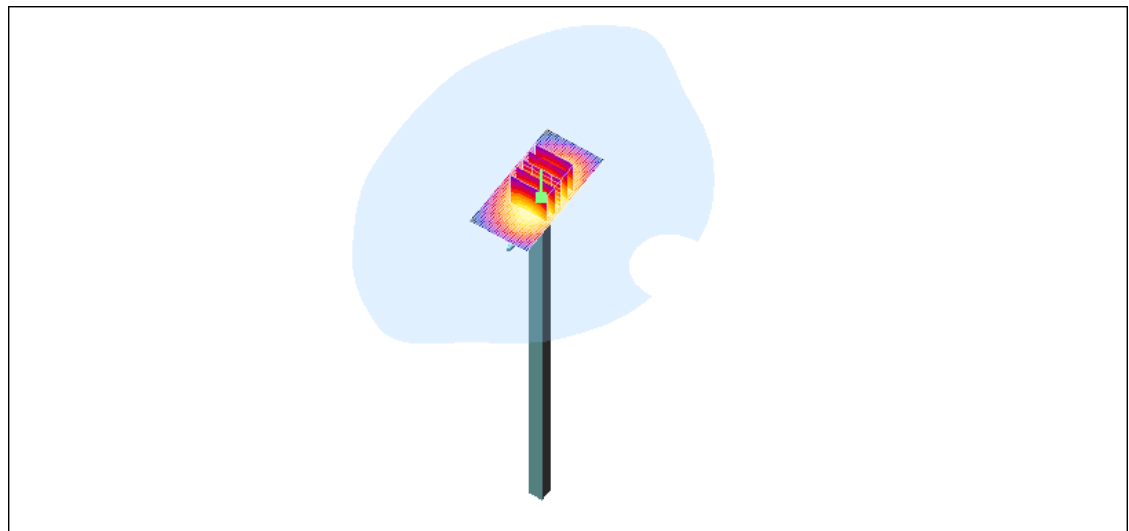
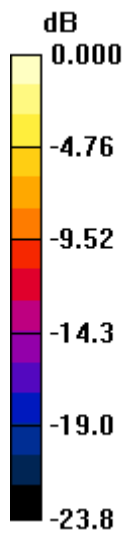
Dates of Test

March 15 – March 16, 2010

Test Report No

RTS-2474-1003-25

FCC ID:

L6ARCX70UW


0 dB = 41.2mW/g

	Document Appendix A for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 6(9)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW

Date/Time: 3/16/2010 7:11:04 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[DipoleValidation_1900MHz_Amb_Tem_22.6_Liq_Tem_21.2_C_03_16_10.da4](#)

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

Program Name: System Performance Check at 1900 MHz

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

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.17, 5.17, 5.17); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement

grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 176.1 V/m ; Power Drift = 0.026 dB

Peak SAR (extrapolated) = 64.9 W/kg

SAR(1 g) = 36.9 mW/g ; SAR(10 g) = 19.2 mW/g

Maximum value of SAR (measured) = 41.6 mW/g

d=10mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: $dx=15\text{mm}$,

$dy=15\text{mm}$

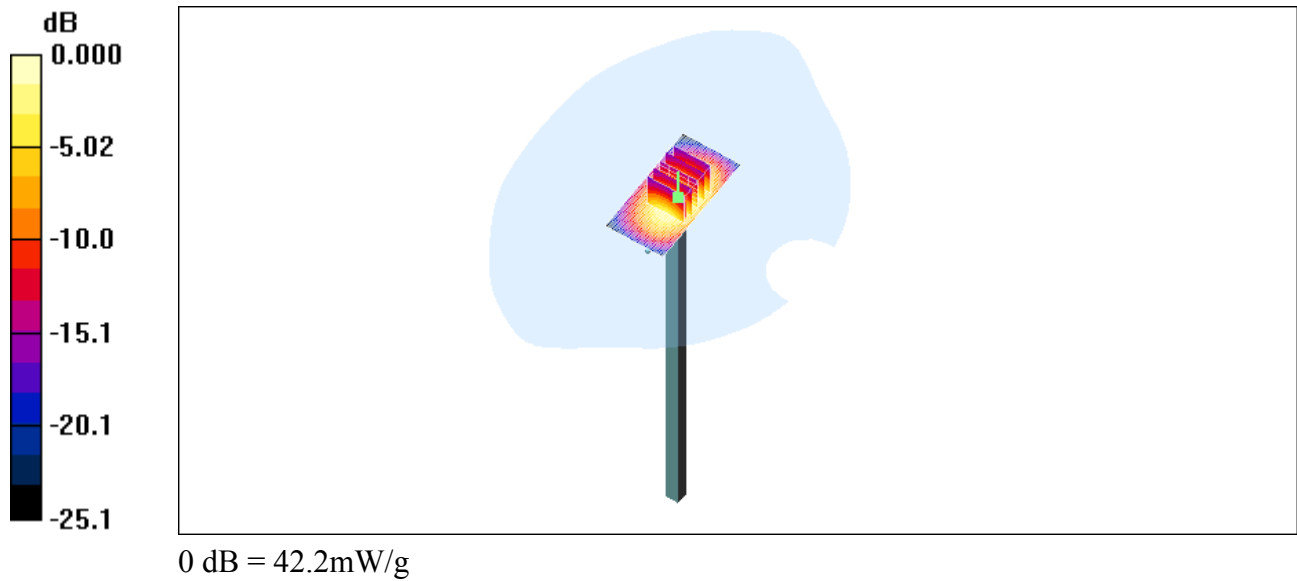
Maximum value of SAR (interpolated) = 42.2 mW/g

Author Data
Andrew Becker

Dates of Test
March 15 – March 16, 2010

Test Report No
RTS-2474-1003-25

FCC ID:
L6ARCX70UW



	Document Appendix A for the BlackBerry® Smartphone Model RCX72UW SAR Report		Page 8(9)
Author Data Andrew Becker	Dates of Test March 15 – March 16, 2010	Test Report No RTS-2474-1003-25	FCC ID: L6ARCX70UW

Date/Time: 3/15/2010 11:55:17 AM

File Name: [DipoleValidation_2450MHz_Amb_Tem_23.0_Liq_Tem_21.2C.da4](#)

DUT: Dipole 2450 MHz; Type: D2450V2; - SN:747
Program Name: System Performance Check at 2450 MHz

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.88 \text{ mho/m}$; $\epsilon_r = 37.9$; $\rho = 1000 \text{ kg/m}^3$
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 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 185.2 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 130.5 W/kg
SAR(1 g) = 57.2 mW/g; SAR(10 g) = 26.1 mW/g
Maximum value of SAR (measured) = 63.7 mW/g

d=10mm, Pin=1000mW/Area Scan (31x41x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 64.2 mW/g

Author Data

Andrew Becker

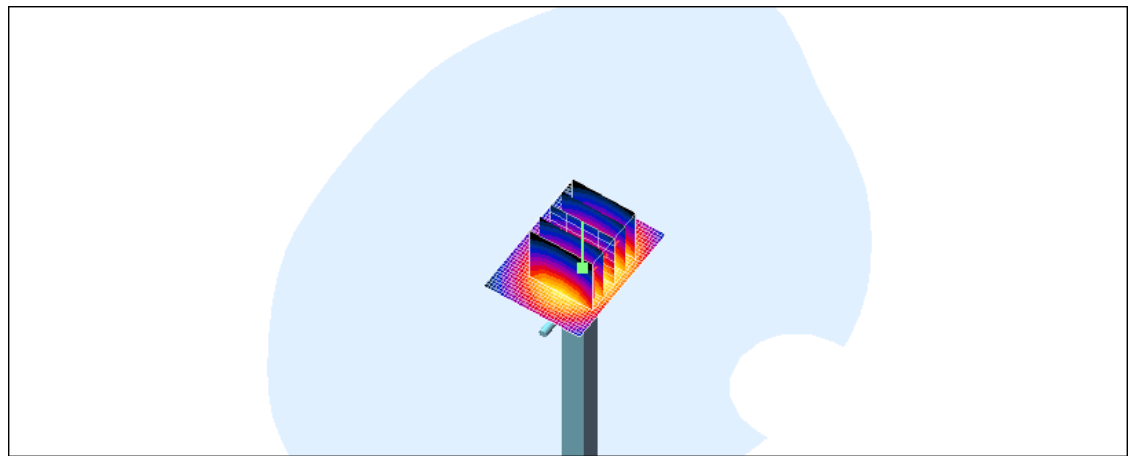
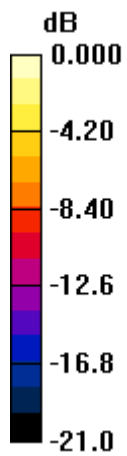
Dates of Test

March 15 – March 16, 2010

Test Report No

RTS-2474-1003-25

FCC ID:

L6ARCX70UW


0 dB = 64.2mW/g