RTS RIM Testing Services	Appendix for the BlackBerry® Smartphone Model RCG41GW SAR Report		Page 1(13)	
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	April 01-07, April 30-May 07,May 20, 2009	RTS-1615-0905-02	L6AF	RCG40GW

APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smart Report	bhone Model RCG41GW	SAR	Page 2(13)
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	April 01-07, April 30-May 07, May 20, 2009	RTS-1615-0905-02	L6AF	RCG40GW

Date/Time: 30/04/2009 11:32:38 PM

Test Laboratory: RTS File Name: <u>DipoleValidation 835MHz Amb Tem 23.8 Liq Tem 23.22C.da4</u>

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 MHz; $\sigma = 0.872$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn472; Calibrated: 03/03/2009

- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

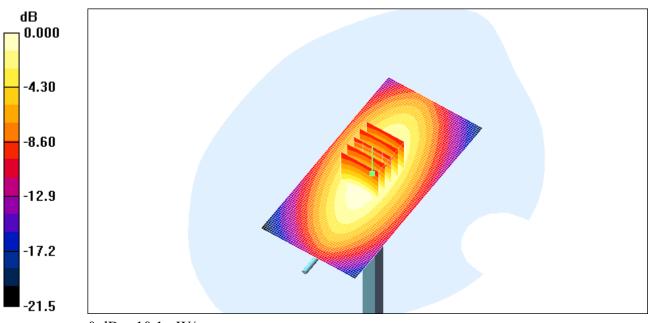
d=15mm, Pin=1000mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement

grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 111.8 V/m; Power Drift = -0.050 dB Peak SAR (extrapolated) = 13.7 W/kg SAR(1 g) = 9.33 mW/g; SAR(10 g) = 6.12 mW/g Maximum value of SAR (measured) = 10.1 mW/g

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

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

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCG41GW SAR Report			Page 3(13)
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	April 01-07, April 30-May 07, May 20, 2009	RTS-1615-0905-02	L6AI	RCG40GW



0 dB = 10.1 mW/g

RTS RIM Testing Services	Appendix for the BlackBerry® Smartphone Model RCG41GW SAR Report		Page 4(13)	
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	April 01-07, April 30-May 07, May 20, 2009	RTS-1615-0905-02	L6AR	CG40GW

Date/Time: 04/05/2009 4:06:31 PM

Test Laboratory: RTS File Name: DipoleValidation 835MHz Amb Tem 23.2 Liq Tem 22.12C 05 04 09.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 MHz; $\sigma = 0.879$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn472; Calibrated: 03/03/2009

- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

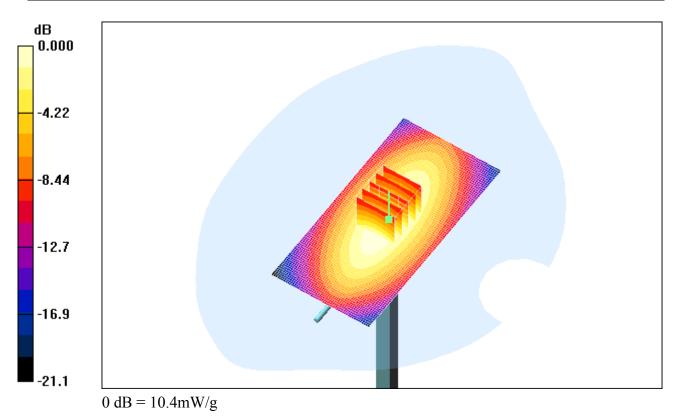
d=15mm, Pin=1000mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement

grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 111.5 V/m; Power Drift = -0.018 dB Peak SAR (extrapolated) = 14.0 W/kg SAR(1 g) = 9.52 mW/g; SAR(10 g) = 6.25 mW/gMaximum value of SAR (measured) = 10.3 mW/g

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

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

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCG41GW SAR Report			Page 5(13)
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	April 01-07, April 30-May 07, May 20, 2009	RTS-1615-0905-02	L6AI	RCG40GW



RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCG41GW SAR Report			Page 6(13)
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	April 01-07, April 30-May 07, May 20, 2009	RTS-1615-0905-02	L6AF	RCG40GW

Date/Time: 06/05/2009 11:43:05 AM

Test Laboratory: RTS File Name: <u>DipoleValidation 1900MHz Amb Tem 22.8 Liq Tem 22.1 C.da4</u>

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 MHz; σ = 1.43 mho/m; ϵ_r = 38.3; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn472; Calibrated: 03/03/2009

- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076

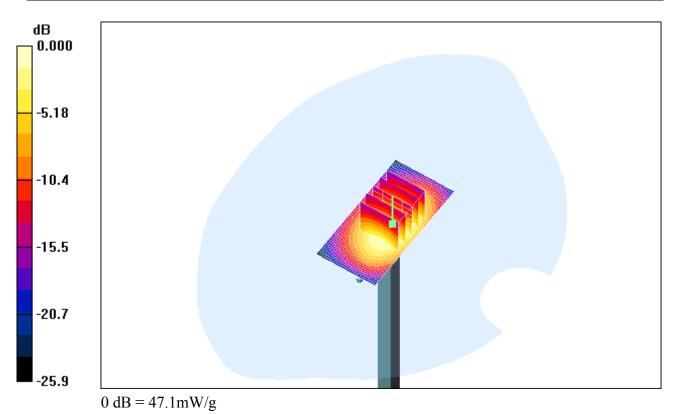
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

Reference Value = 186.9 V/m; Power Drift = 0.091 dBPeak SAR (extrapolated) = 71.1 W/kgSAR(1 g) = 41.3 mW/g; SAR(10 g) = 21.7 mW/gMaximum value of SAR (measured) = 46.9 mW/g

d=15mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 47.1 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCG41GW SAR Report			Page 7(13)
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	April 01-07, April 30-May 07, May 20, 2009	RTS-1615-0905-02	L6AF	RCG40GW



RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCG41GW SAR Report			Page 8(13)
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	April 01-07, April 30-May 07, May 20, 2009	RTS-1615-0905-02	L6AF	RCG40GW

Date/Time: 01/04/2009 6:38:39 PM

Test Laboratory: RTS File Name: <u>DipoleValidation 2450MHz Amb Tem 23.4 Liq Tem 23.0C.da4</u>

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

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; $\sigma = 1.82$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn472; Calibrated: 03/03/2009

- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076

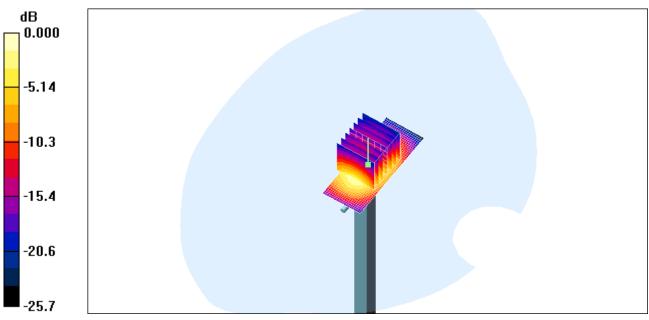
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 195.1 V/m; Power Drift = -0.051 dB Peak SAR (extrapolated) = 125.8 W/kg SAR(1 g) = 56.8 mW/g; SAR(10 g) = 26.3 mW/g Maximum value of SAR (measured) = 63.1 mW/g

d=15mm, Pin=1000mW/Area Scan (21x51x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 65.2 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCG41GW SAR Report			Page 9(13)
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	April 01-07, April 30-May 07, May 20, 2009	RTS-1615-0905-02	L6AF	RCG40GW



0 dB = 65.2 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCG41GW SAR Report			Page 10(13)
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	April 01-07, April 30-May 07, May 20, 2009	RTS-1615-0905-02	L6AF	RCG40GW

Date/Time: 07/04/2009 6:39:17 PM

Test Laboratory: RTS File Name: <u>DipoleValidation 2450MHz Amb Tem 23.4 Liq Tem 22.6C.da4</u>

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

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 37.5$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn473; Calibrated: 09/01/2009

- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076

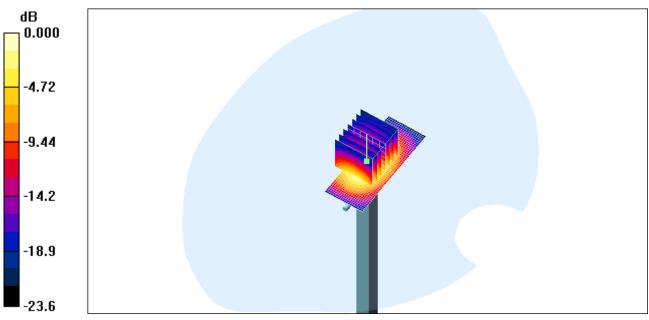
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 196.5 V/m; Power Drift = -0.004 dBPeak SAR (extrapolated) = 128.3 W/kg SAR(1 g) = 57.3 mW/g; SAR(10 g) = 26.4 mW/g Maximum value of SAR (measured) = 64.5 mW/g

d=15mm, Pin=1000mW/Area Scan (21x51x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 66.7 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCG41GW SAR Report			Page 11(13)
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	April 01-07, April 30-May 07, May 20, 2009	RTS-1615-0905-02	L6AI	RCG40GW



0 dB = 66.7 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCG41GW SAR Report			Page 12(13)
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	April 01-07, April 30-May 07, May 20, 2009	RTS-1615-0905-02	L6AF	RCG40GW

Date/Time: 20/05/2009 7:46:00 PM

Test Laboratory: RTS File Name: <u>DipoleValidation 2450MHz Amb Tem 22.2 Liq Tem 21.7C.da4</u>

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

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 37.5$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn472; Calibrated: 03/03/2009

- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076

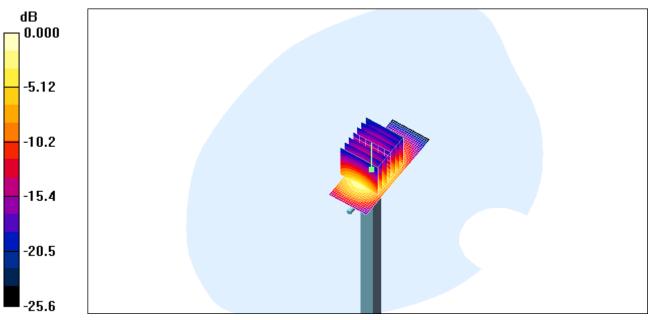
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 190.9 V/m; Power Drift = -0.009 dB Peak SAR (extrapolated) = 128.8 W/kg SAR(1 g) = 56.9 mW/g; SAR(10 g) = 26.1 mW/gMaximum value of SAR (measured) = 64.1 mW/g

d=15mm, Pin=1000mW/Area Scan (21x51x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 64.5 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCG41GW SAR Report			Page 13(13)
Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	April 01-07, April 30-May 07, May 20, 2009	RTS-1615-0905-02	L6AI	RCG40GW



0 dB = 64.5 mW/g

Copyright 2005-2009, RIM Testing Services (RTS), a division of Research In Motion Limited This report shall <u>NOT</u> be reproduced except in full without the written consent of RTS