
	Document <b>Appendix B for the BlackBerry® Smartphone Model RCY71UW</b>			Page <b>1(22)</b>
	Author Data <b>Hang Wang</b>	Dates of Test <b>Nov 25 - 29, 2010</b>	Test Report No <b>RTS-2337-1012-25</b>	FCC ID: <b>L6ARCY70UW</b>

**APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION**

	Document			Page
	Appendix B for the BlackBerry® Smartphone Model RCY71UW			2(22)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Hang Wang	Nov 25 - 29, 2010	RTS-2337-1012-25	L6ARCY70UW	2503A-RCY70UW

Date/Time: 11/29/2010 6:17:53 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_802.11b\_low\_chan\_Amb\_Tem\_23.8\_Liq\_Tem\_22.5\_C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.79$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- 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

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.266 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.79 V/m; Power Drift = 0.053 dB

Peak SAR (extrapolated) = 0.532 W/kg

**SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.122 mW/g**

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

Maximum value of SAR (measured) = 0.282 mW/g

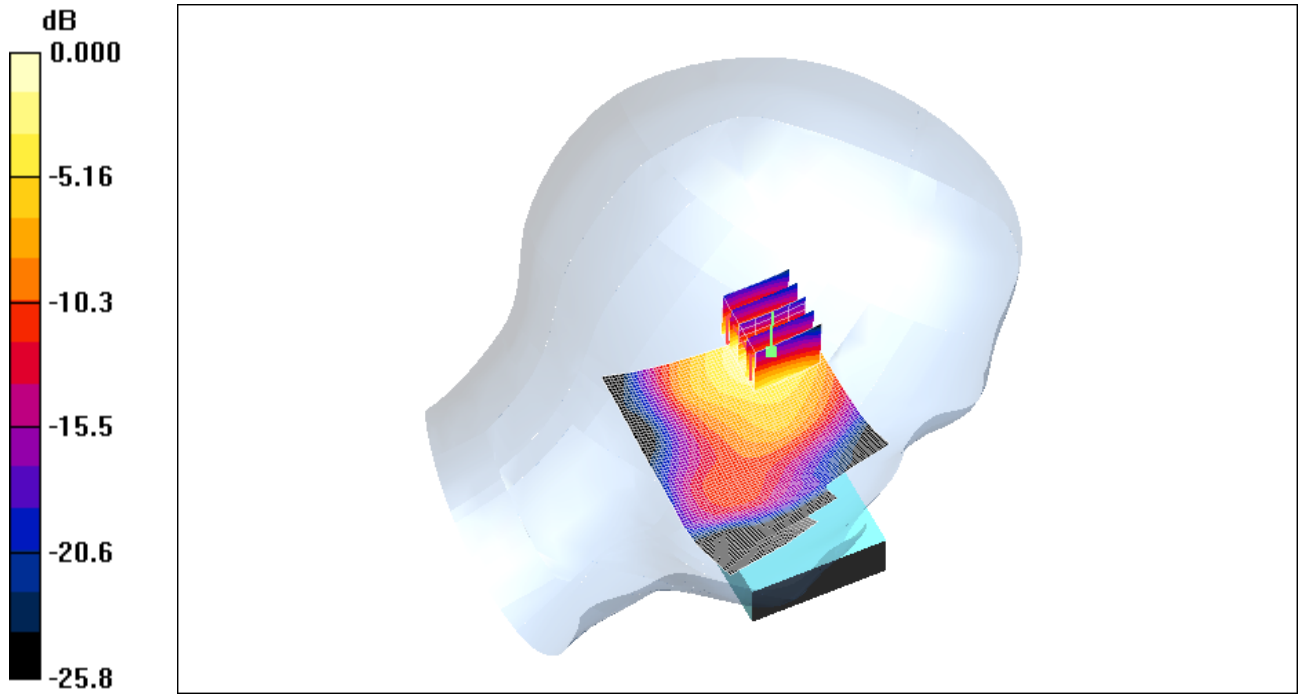
Author Data  
**Hang Wang**

Dates of Test  
**Nov 25 - 29, 2010**


Test Report No  
**RTS-2337-1012-25**

FCC ID:  
**L6ARCY70UW**

IC ID  
**2503A-RCY70UW**



0 dB = 0.282mW/g

	Document			Page
	Appendix B for the BlackBerry® Smartphone Model RCY71UW			4(22)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Hang Wang	Nov 25 - 29, 2010	RTS-2337-1012-25	L6ARCY70UW	2503A-RCY70UW

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Test Laboratory: RIM Testing Services

## LeftHandSide\_802.11b\_mid\_chan\_Amb\_Tem\_23.8\_Liq\_Tem\_22.5\_C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.8$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- 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

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.386 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.02 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 0.758 W/kg

**SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.171 mW/g**

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

Maximum value of SAR (measured) = 0.402 mW/g

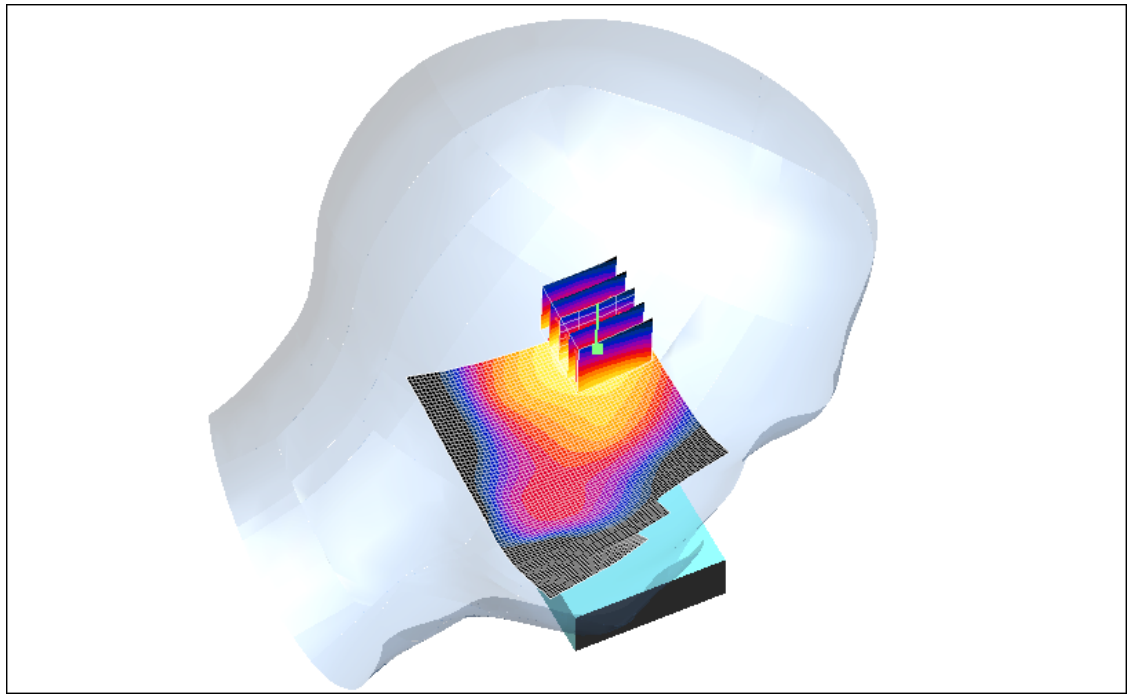
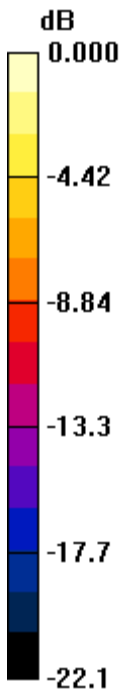
Author Data  
**Hang Wang**

Dates of Test  
**Nov 25 - 29, 2010**


Test Report No  
**RTS-2337-1012-25**

FCC ID:  
**L6ARCY70UW**

IC ID  
**2503A-RCY70UW**



0 dB = 0.402mW/g

	Document			Page
	Appendix B for the BlackBerry® Smartphone Model RCY71UW			6(22)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Hang Wang	Nov 25 - 29, 2010	RTS-2337-1012-25	L6ARCY70UW	2503A-RCY70UW

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Test Laboratory: RIM Testing Services

## LeftHandSide\_802.11b\_Slide\_Open\_mid\_chan\_Amb\_Tem\_23.9\_Liq\_Tem\_22.6\_C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.8$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- 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

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.105 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 2.77 V/m; Power Drift = 0.355 dB

Peak SAR (extrapolated) = 0.234 W/kg

**SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.047 mW/g**

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

Maximum value of SAR (measured) = 0.112 mW/g

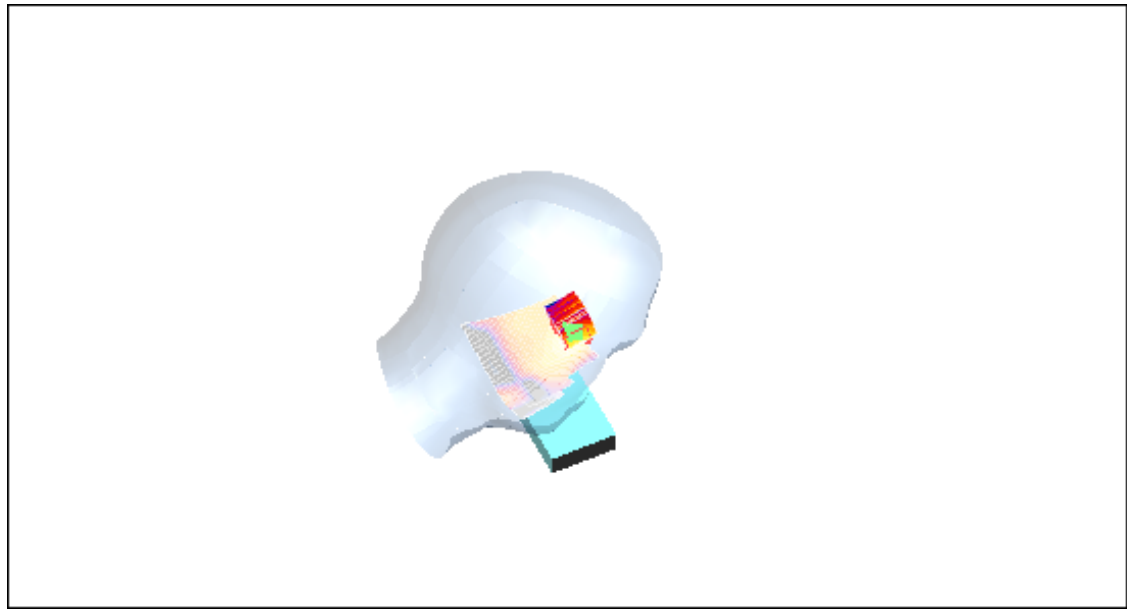
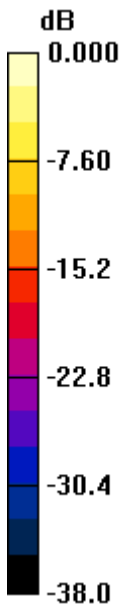
Author Data  
**Hang Wang**

Dates of Test  
**Nov 25 - 29, 2010**


Test Report No  
**RTS-2337-1012-25**

FCC ID:  
**L6ARCY70UW**

IC ID  
**2503A-RCY70UW**



0 dB = 0.112mW/g

	Document			Page
	Appendix B for the BlackBerry® Smartphone Model RCY71UW			8(22)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Hang Wang	Nov 25 - 29, 2010	RTS-2337-1012-25	L6ARCY70UW	2503A-RCY70UW

Date/Time: 11/29/2010 6:34:20 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_802.11b\_high\_chan\_Amb\_Tem\_23.8\_Liq\_Tem\_22.5\_C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.83$  mho/m;  $\epsilon_r = 38.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- 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

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.367 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.21 V/m; Power Drift = -0.213 dB

Peak SAR (extrapolated) = 0.770 W/kg

**SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.170 mW/g**

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

Maximum value of SAR (measured) = 0.405 mW/g



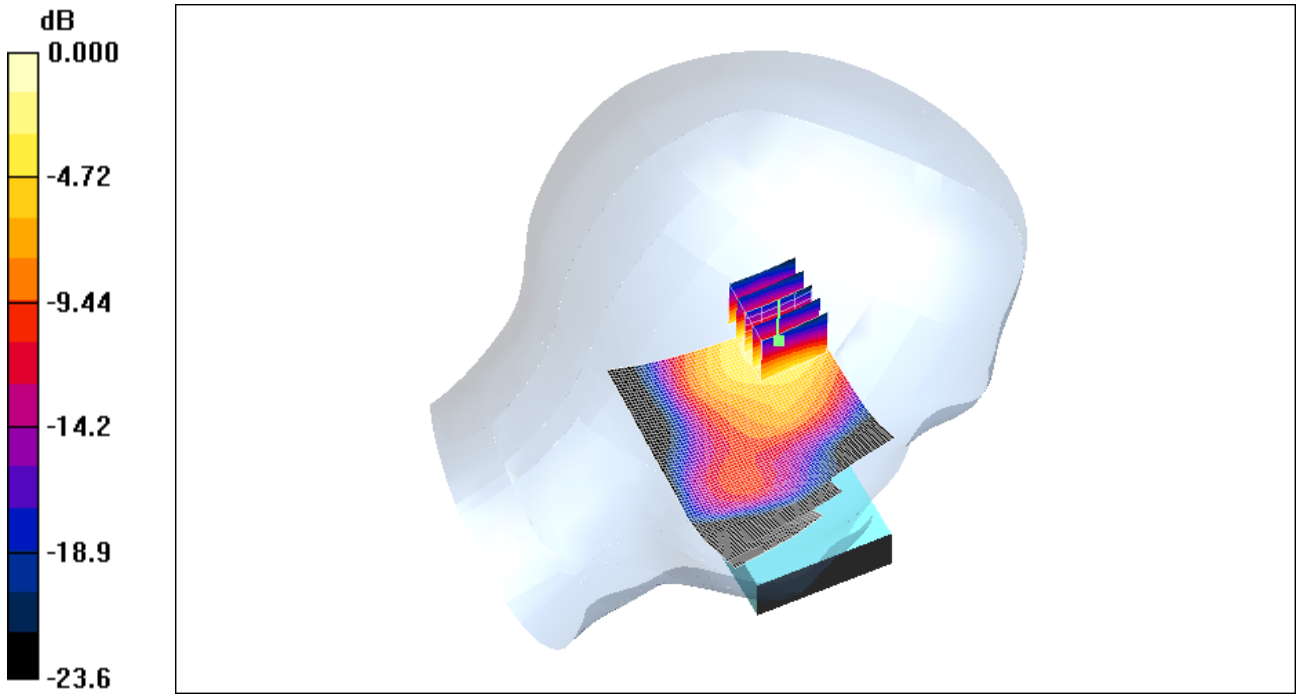
Author Data  
**Hang Wang**

Dates of Test  
**Nov 25 - 29, 2010**


Test Report No  
**RTS-2337-1012-25**

FCC ID:  
**L6ARCY70UW**

IC ID  
**2503A-RCY70UW**



0 dB = 0.405mW/g

	Document <b>Appendix B for the BlackBerry® Smartphone Model RCY71UW</b>			Page <b>10(22)</b>
	Author Data <b>Hang Wang</b>	Dates of Test <b>Nov 25 - 29, 2010</b>	Test Report No <b>RTS-2337-1012-25</b>	FCC ID: <b>L6ARCY70UW</b>

Date/Time: 11/29/2010 6:52:47 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_Tilt\_802.11b\_high\_chan\_Amb\_Tem\_23.9\_Liq\_Tem\_22.6\_C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.83$  mho/m;  $\epsilon_r = 38.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- 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

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.440 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.6 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 0.896 W/kg

**SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.183 mW/g**

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

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

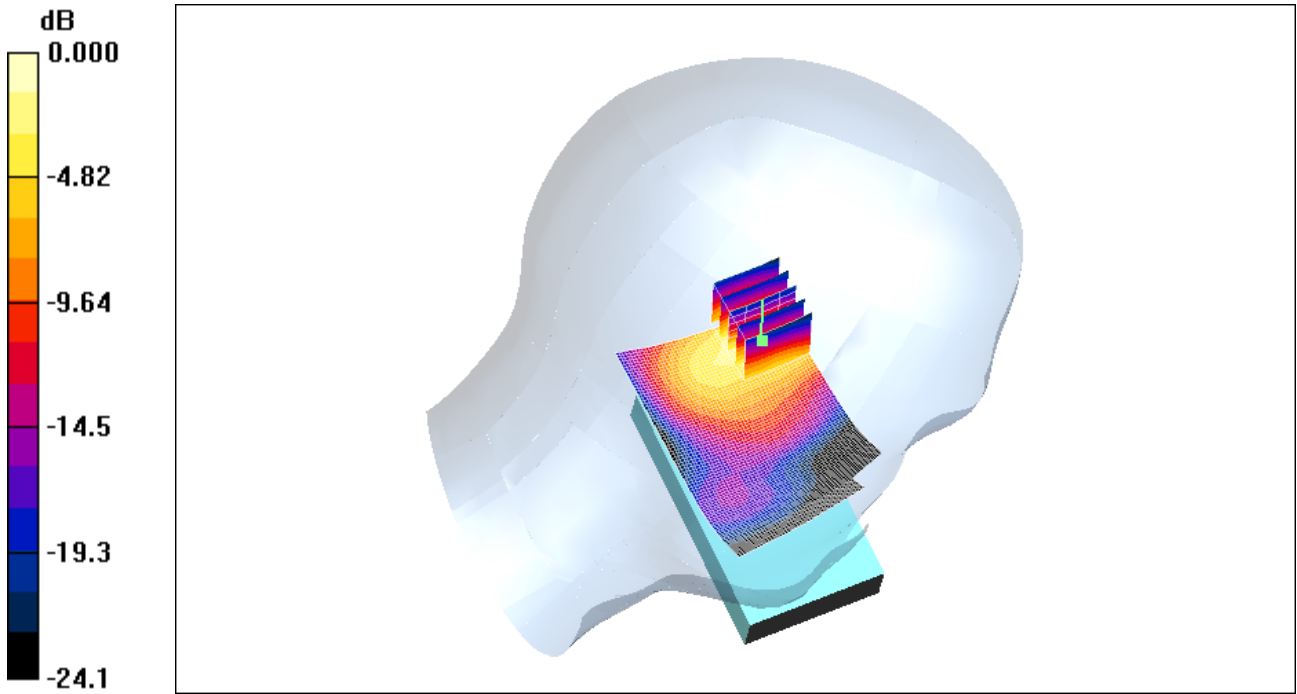
Author Data  
**Hang Wang**

Dates of Test  
**Nov 25 - 29, 2010**


Test Report No  
**RTS-2337-1012-25**

FCC ID:  
**L6ARCY70UW**

IC ID  
**2503A-RCY70UW**



0 dB = 0.439mW/g

	Document			Page
	Appendix B for the BlackBerry® Smartphone Model RCY71UW			12(22)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Hang Wang	Nov 25 - 29, 2010	RTS-2337-1012-25	L6ARCY70UW	2503A-RCY70UW

Date/Time: 11/25/2010 1:42:52 AM

Test Laboratory: RIM Testing Services

## RightHandSide\_802.11b\_low\_chan\_Amb\_Tem\_23.6\_Liq\_Tem\_22.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.78$  mho/m;  $\epsilon_r = 38.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- 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

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.140 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.66 V/m; Power Drift = -0.067 dB

Peak SAR (extrapolated) = 0.219 W/kg

**SAR(1 g) = 0.125 mW/g; SAR(10 g) = 0.071 mW/g**

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

Maximum value of SAR (measured) = 0.135 mW/g

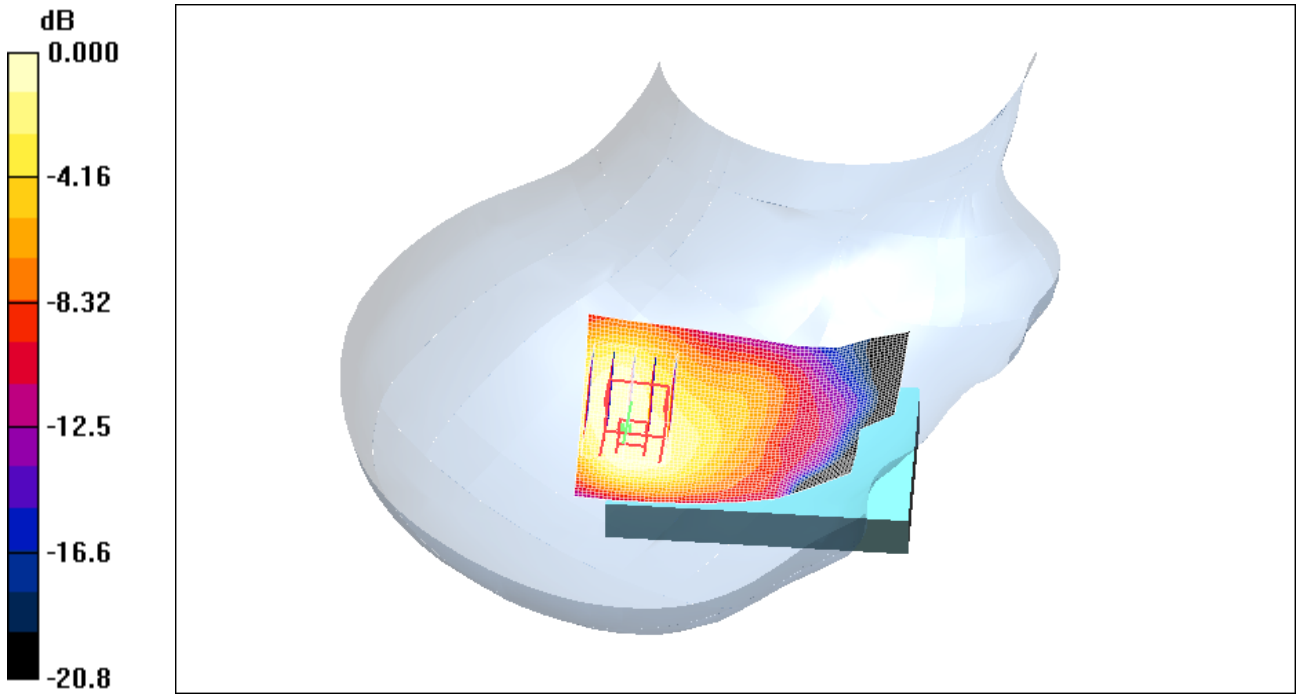
Author Data  
**Hang Wang**

Dates of Test  
**Nov 25 - 29, 2010**


Test Report No  
**RTS-2337-1012-25**

FCC ID:  
**L6ARCY70UW**

IC ID  
**2503A-RCY70UW**



0 dB = 0.135mW/g

	Document			Page
	Appendix B for the BlackBerry® Smartphone Model RCY71UW			14(22)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Hang Wang	Nov 25 - 29, 2010	RTS-2337-1012-25	L6ARCY70UW	2503A-RCY70UW

Date/Time: 11/25/2010 1:12:59 AM

Test Laboratory: RIM Testing Services

## RightHandSide\_802.11b\_mid\_chan\_Amb\_Tem\_23.9\_Liq\_Tem\_22.4C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.82$  mho/m;  $\epsilon_r = 38.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- 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

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.210 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.7 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 0.340 W/kg

**SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.107 mW/g**

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

Maximum value of SAR (measured) = 0.211 mW/g

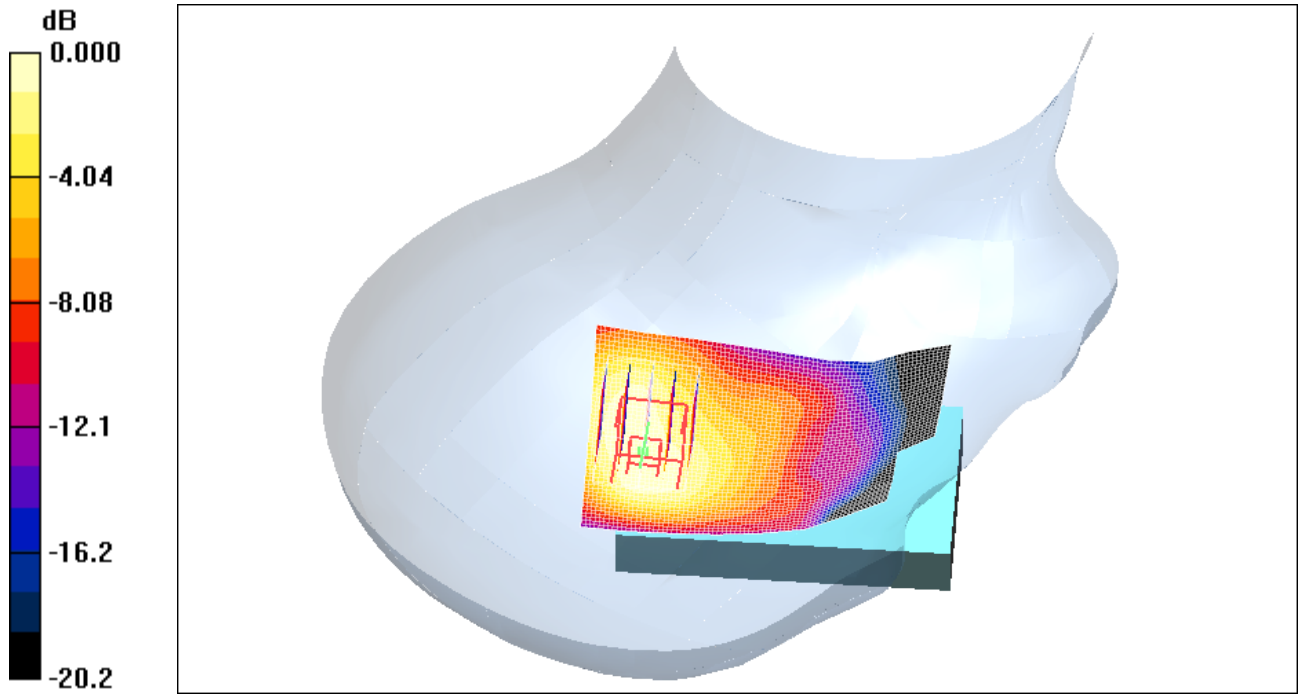
Author Data  
**Hang Wang**

Dates of Test  
**Nov 25 - 29, 2010**


Test Report No  
**RTS-2337-1012-25**

FCC ID:  
**L6ARCY70UW**

IC ID  
**2503A-RCY70UW**



0 dB = 0.211mW/g

	Document			Page
	Appendix B for the BlackBerry® Smartphone Model RCY71UW			16(22)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Hang Wang	Nov 25 - 29, 2010	RTS-2337-1012-25	L6ARCY70UW	2503A-RCY70UW

Date/Time: 11/25/2010 1:27:18 AM

Test Laboratory: RIM Testing Services

## RightHandSide\_802.11b\_Slide\_Open\_mid\_chan\_Amb\_Tem\_23.7\_Liq\_Tem\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.82$  mho/m;  $\epsilon_r = 38.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- 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

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.062 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.87 V/m; Power Drift = 0.205 dB

Peak SAR (extrapolated) = 0.120 W/kg

**SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.029 mW/g**

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

Maximum value of SAR (measured) = 0.066 mW/g



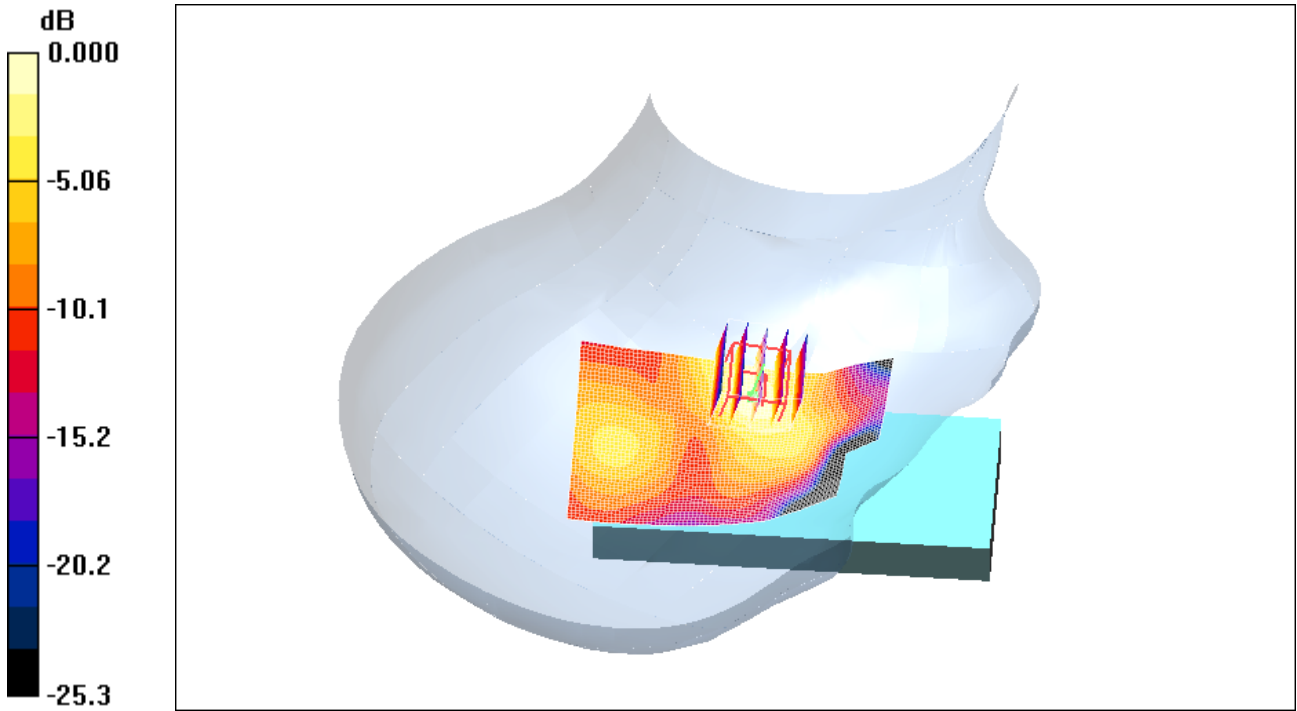
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**Hang Wang**

Dates of Test  
**Nov 25 - 29, 2010**


Test Report No  
**RTS-2337-1012-25**

FCC ID:  
**L6ARCY70UW**

IC ID  
**2503A-RCY70UW**



0 dB = 0.066mW/g

	Document			Page
	Appendix B for the BlackBerry® Smartphone Model RCY71UW			18(22)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Hang Wang	Nov 25 - 29, 2010	RTS-2337-1012-25	L6ARCY70UW	2503A-RCY70UW

Date/Time: 11/29/2010 5:14:55 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_802.11b\_high\_chan\_Amb\_Tem\_23.8\_Liq\_Tem\_22.5C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.83$  mho/m;  $\epsilon_r = 38.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- 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

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.211 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.3 V/m; Power Drift = 0.108 dB

Peak SAR (extrapolated) = 0.352 W/kg

**SAR(1 g) = 0.191 mW/g; SAR(10 g) = 0.109 mW/g**

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

Maximum value of SAR (measured) = 0.205 mW/g

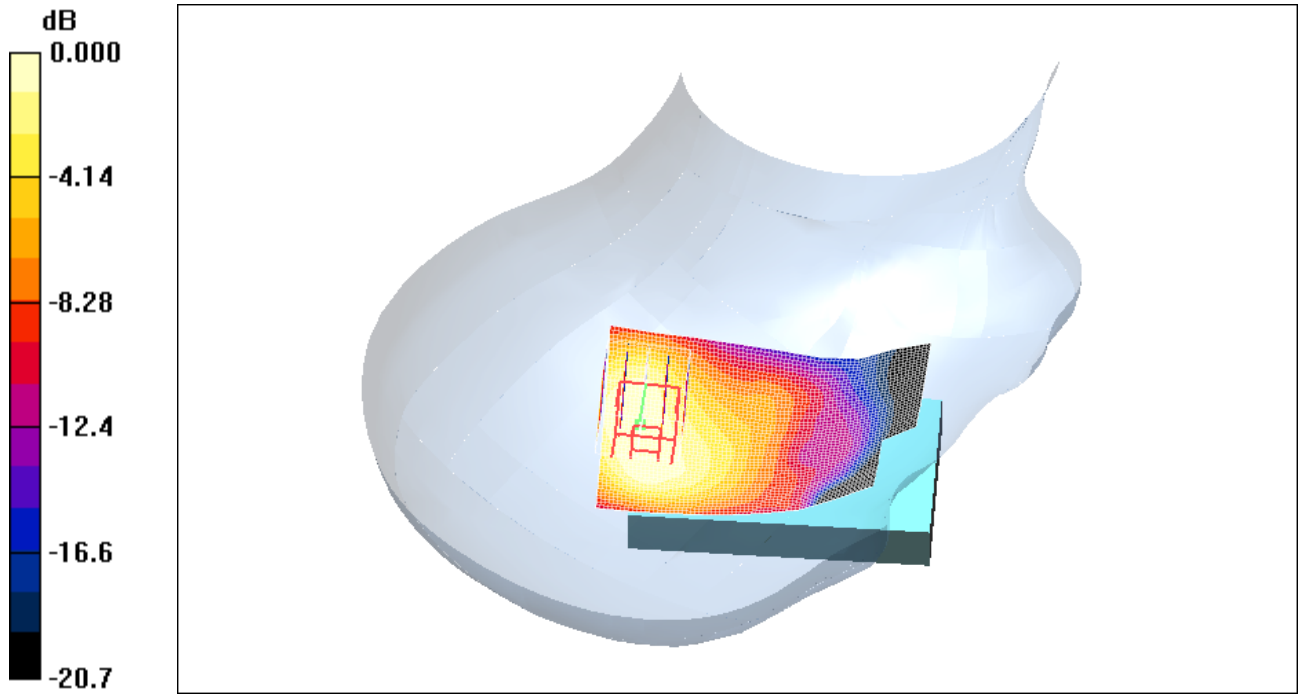
Author Data  
**Hang Wang**

Dates of Test  
**Nov 25 - 29, 2010**


Test Report No  
**RTS-2337-1012-25**

FCC ID:  
**L6ARCY70UW**

IC ID  
**2503A-RCY70UW**



0 dB = 0.205mW/g

	Document			Page
	Appendix B for the BlackBerry® Smartphone Model RCY71UW			20(22)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Hang Wang	Nov 25 - 29, 2010	RTS-2337-1012-25	L6ARCY70UW	2503A-RCY70UW

Date/Time: 11/29/2010 5:30:37 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_Tilt\_802.11b\_mid\_chan\_Amb\_Tem\_23.8\_Liq\_Tem\_22.5**

**C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.8$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- 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

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.277 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.3 V/m; Power Drift = -0.106 dB

Peak SAR (extrapolated) = 0.449 W/kg

**SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.129 mW/g**

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

Maximum value of SAR (measured) = 0.275 mW/g

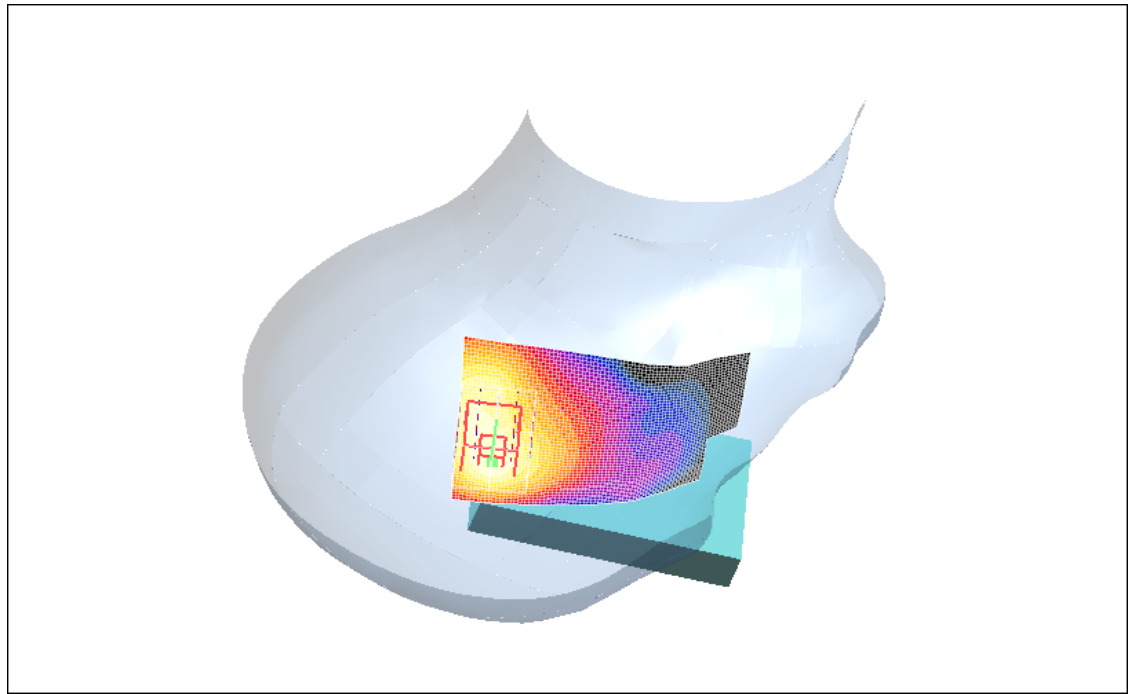
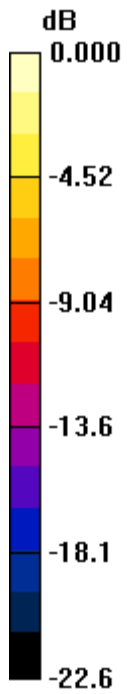
Author Data  
**Hang Wang**

Dates of Test  
**Nov 25 - 29, 2010**

Test Report No  
**RTS-2337-1012-25**

FCC ID:  
**L6ARCY70UW**

IC ID  
**2503A-RCY70UW**



0 dB = 0.275mW/g

Author Data  
**Hang Wang**

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### Worst Case Head SAR

