

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 1(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 2(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/31/2010 10:06:42 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical_Holster_Back_CDMA800_mid_chan_amb_temp_22.5C_liq_temp_21.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.977 \text{ mho/m}$; $\epsilon_r = 53.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.574 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.2 V/m ; Power Drift = -0.193 dB

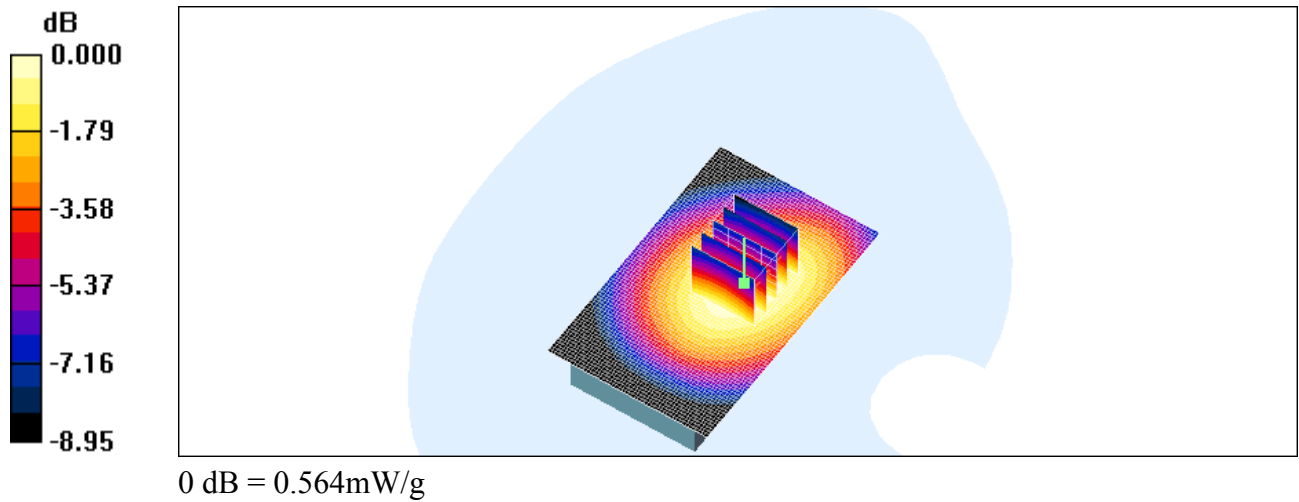
Peak SAR (extrapolated) = 0.681 W/kg

SAR(1 g) = 0.532 mW/g ; SAR(10 g) = 0.391 mW/g

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

Maximum value of SAR (measured) = 0.564 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report		Page 3(50)	
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 4(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/31/2010 10:28:06 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_CDMA800_mid_chan_amb_temp_22.4C_liq_temp_21.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.977 \text{ mho/m}$; $\epsilon_r = 53.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.697 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.5 V/m ; Power Drift = -0.012 dB

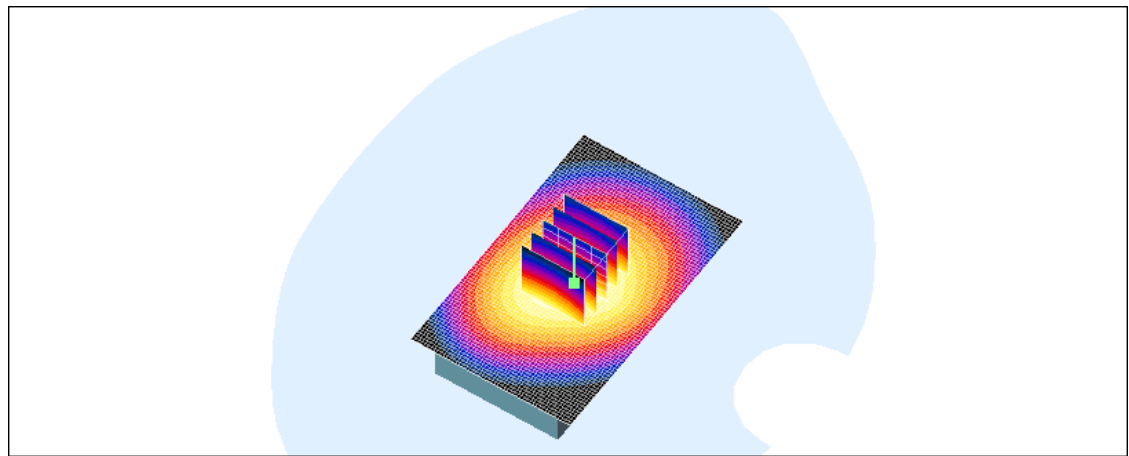
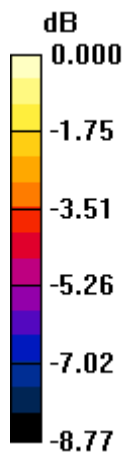
Peak SAR (extrapolated) = 0.880 W/kg

SAR(1 g) = 0.660 mW/g ; SAR(10 g) = 0.483 mW/g

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

Maximum value of SAR (measured) = 0.691 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 5(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.691mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 6(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/31/2010 12:18:00 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Front_CDMA800_mid_chan_amb_temp_23.1C_liq_temp_21.7C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.977 \text{ mho/m}$; $\epsilon_r = 53.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.669 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.4 V/m ; Power Drift = -0.167 dB

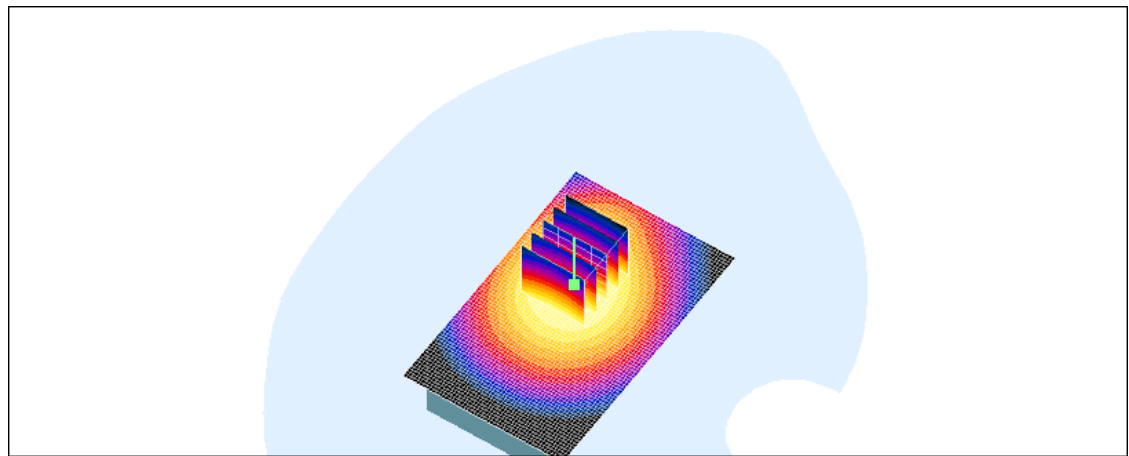
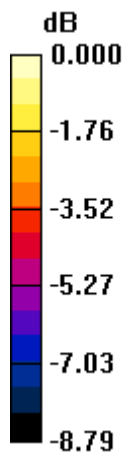
Peak SAR (extrapolated) = 0.829 W/kg

SAR(1 g) = 0.625 mW/g ; SAR(10 g) = 0.458 mW/g

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

Maximum value of SAR (measured) = 0.663 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 7(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.663mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 8(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/31/2010 10:45:46 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster HS#1 Back CDMA800 mid chan amb temp 22.6C liq temp 21.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.977 \text{ mho/m}$; $\epsilon_r = 53.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.553 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.6 V/m ; Power Drift = -0.033 dB

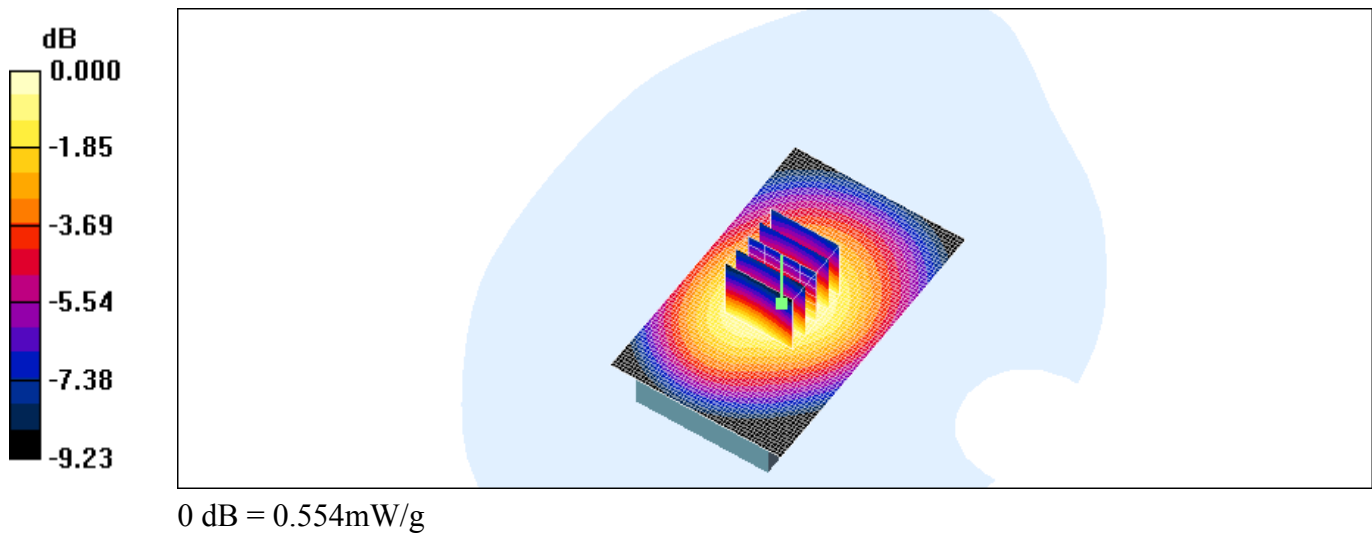
Peak SAR (extrapolated) = 0.668 W/kg

SAR(1 g) = 0.519 mW/g ; SAR(10 g) = 0.377 mW/g

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

Maximum value of SAR (measured) = 0.554 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 9(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 10(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/31/2010 11:18:35 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster HS#2 Back CDMA800 mid chan amb temp 22.7C liq temp 21.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.977 \text{ mho/m}$; $\epsilon_r = 53.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.516 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.0 V/m ; Power Drift = -0.011 dB

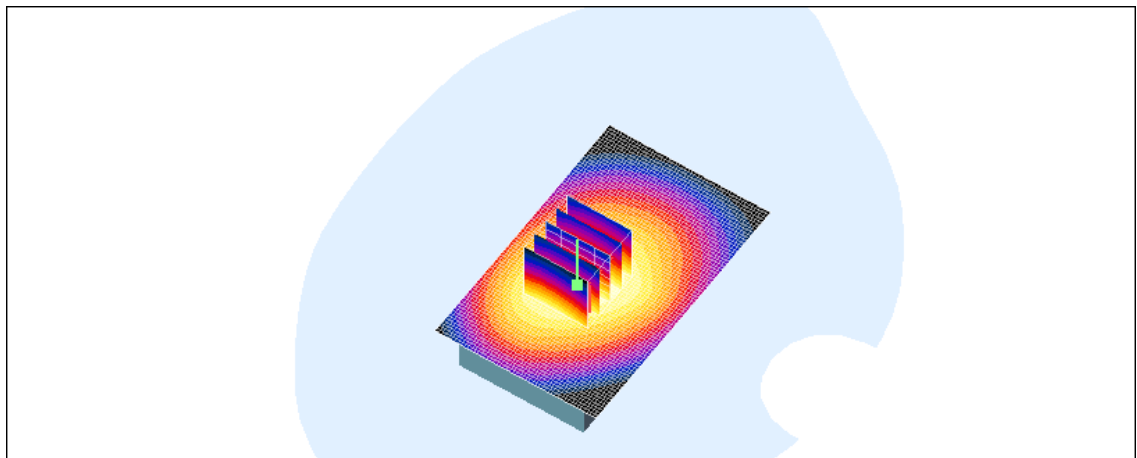
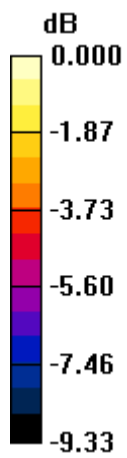
Peak SAR (extrapolated) = 0.639 W/kg

SAR(1 g) = 0.482 mW/g ; SAR(10 g) = 0.351 mW/g

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

Maximum value of SAR (measured) = 0.511 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 11(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.511mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 12(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/31/2010 11:34:27 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster HS#3 Back CDMA800 mid chan amb temp 22.8C liq temp 21.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.977 \text{ mho/m}$; $\epsilon_r = 53.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.422 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.9 V/m ; Power Drift = -0.026 dB

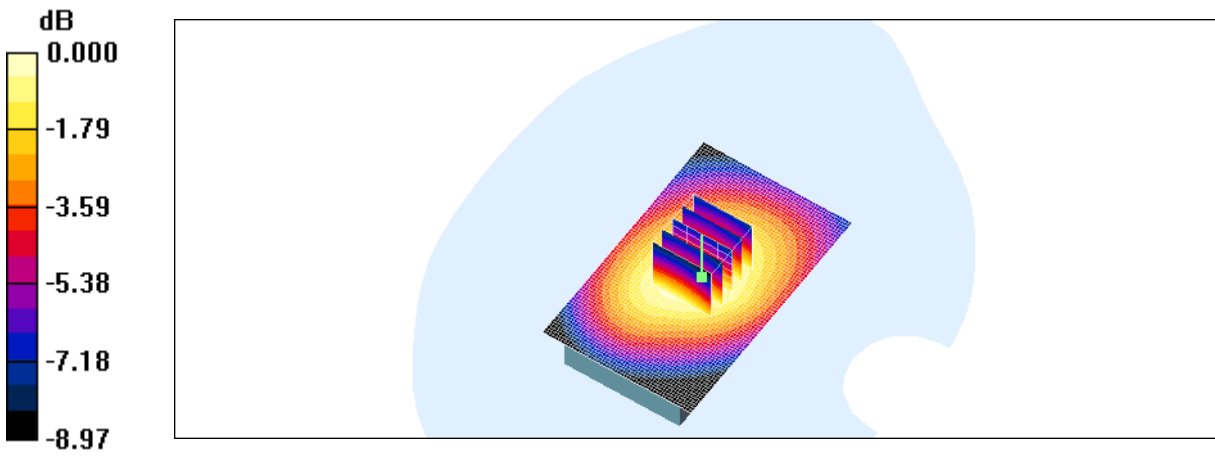
Peak SAR (extrapolated) = 0.524 W/kg

SAR(1 g) = 0.401 mW/g ; SAR(10 g) = 0.294 mW/g

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

Maximum value of SAR (measured) = 0.425 mW/g

	Document			Page
	Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			13(50)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
Andrew Becker	Mar 12 – Mar 30, 2010	RTS-2068-1004-37	L6ARCZ30CW	2503A-RCZ30CW



0 dB = 0.425mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 14(50)
	Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW
				IC ID: 2503A-RCZ30CW

Date/Time: 3/31/2010 12:33:07 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[25mm Spacer Back CDMA800 mid chan amb temp 23.2C liq temp 21.8C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.977 \text{ mho/m}$; $\epsilon_r = 53.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.550 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.3 V/m ; Power Drift = -0.056 dB

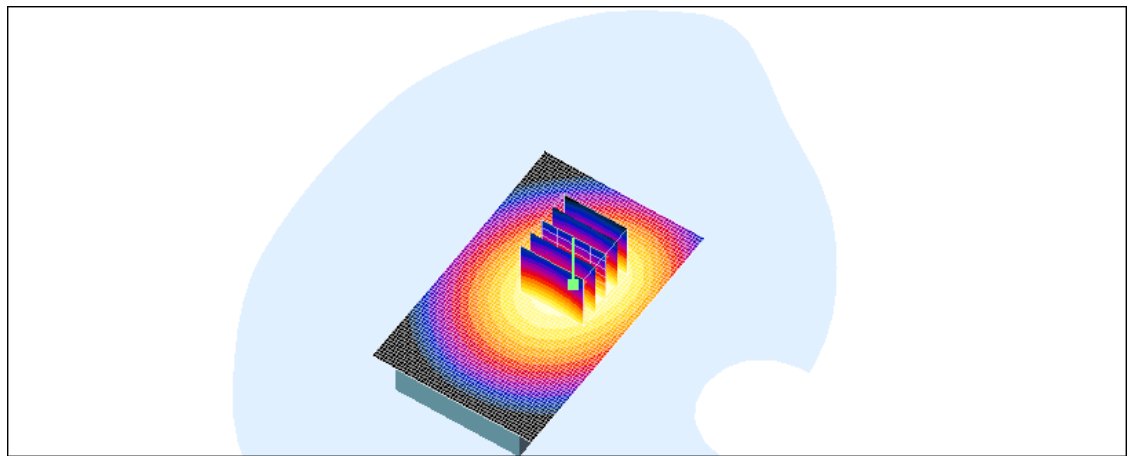
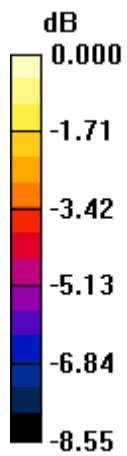
Peak SAR (extrapolated) = 0.671 W/kg

SAR(1 g) = 0.521 mW/g ; SAR(10 g) = 0.385 mW/g

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

Maximum value of SAR (measured) = 0.547 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 15(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.547mW/g

	Document			Page
	Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			16(50)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
Andrew Becker	Mar 12 – Mar 30, 2010	RTS-2068-1004-37	L6ARCZ30CW	2503A-RCZ30CW

Date/Time: 3/30/2010 1:36:50 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back CDMA1700 mid chan amb temp 22.1 liq temp 20.8C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.268 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.70 V/m ; Power Drift = 0.000 dB

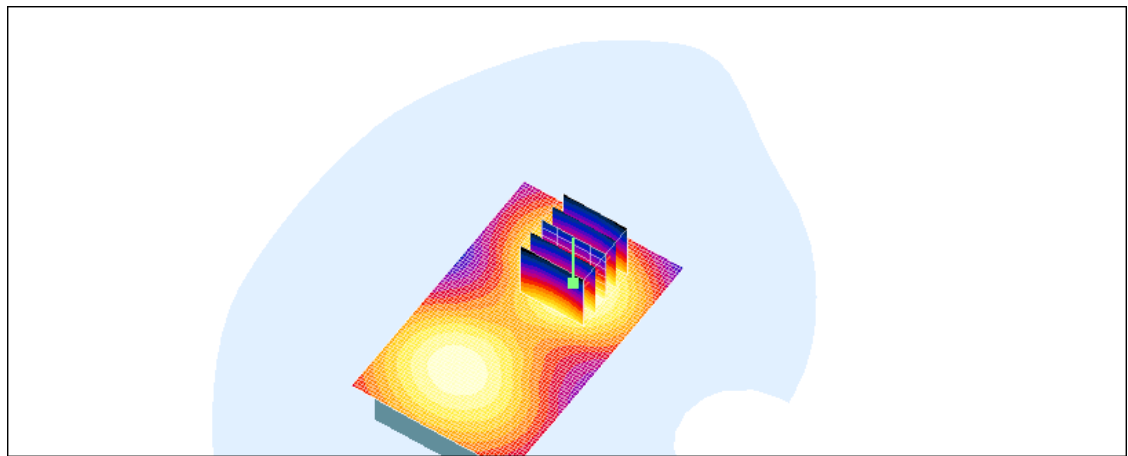
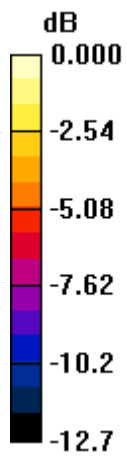
Peak SAR (extrapolated) = 0.361 W/kg

SAR(1 g) = 0.245 mW/g ; SAR(10 g) = 0.157 mW/g

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

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

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 17(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.266mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 18(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/30/2010 1:53:14 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_CDMA1700_mid_chan_amb_temp_23.0_liq_temp_20.9C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.310 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.2 V/m ; Power Drift = -0.081 dB

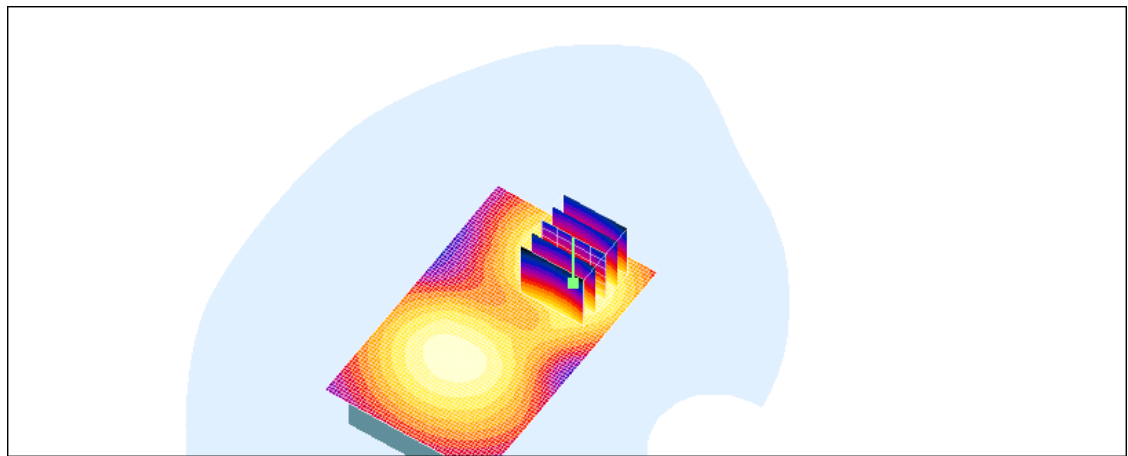
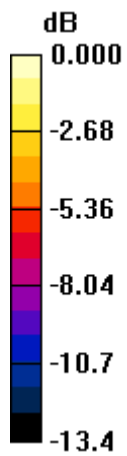
Peak SAR (extrapolated) = 0.426 W/kg

SAR(1 g) = 0.288 mW/g ; SAR(10 g) = 0.186 mW/g

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

Maximum value of SAR (measured) = 0.313 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 19(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.313mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 20(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/30/2010 2:09:46 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Front_CDMA1700_mid_chan_amb_temp_23.1_liq_temp_21.0C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.260 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.52 V/m ; Power Drift = 0.185 dB

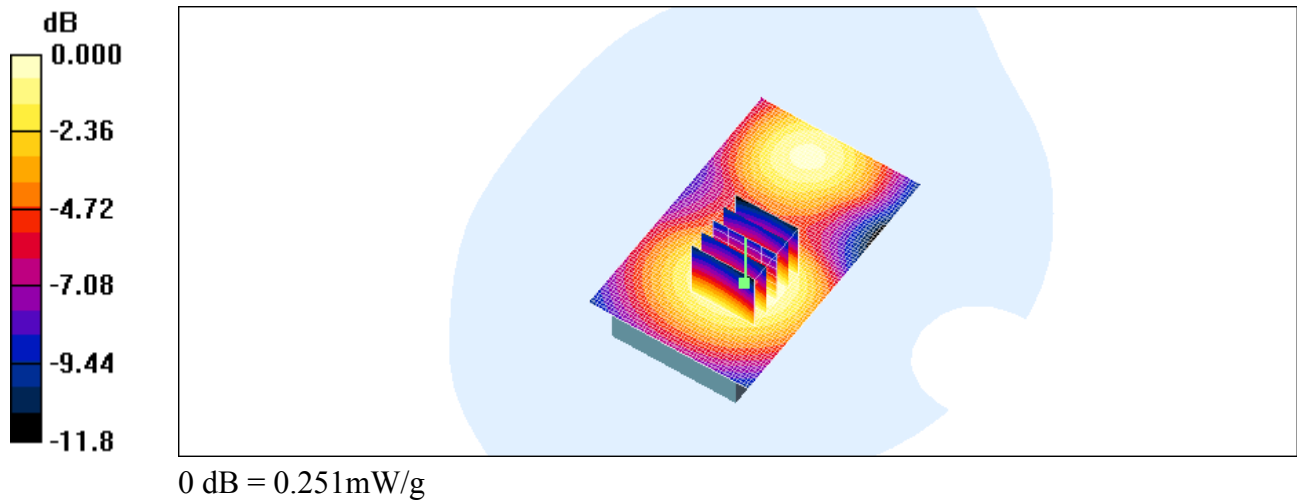
Peak SAR (extrapolated) = 0.336 W/kg

SAR(1 g) = 0.236 mW/g ; SAR(10 g) = 0.159 mW/g

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

Maximum value of SAR (measured) = 0.251 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 21(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 22(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/30/2010 2:26:20 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back HS#2 CDMA1700 mid chan amb temp 22.6 liq temp 21.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.293 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.9 V/m; Power Drift = 0.163 dB

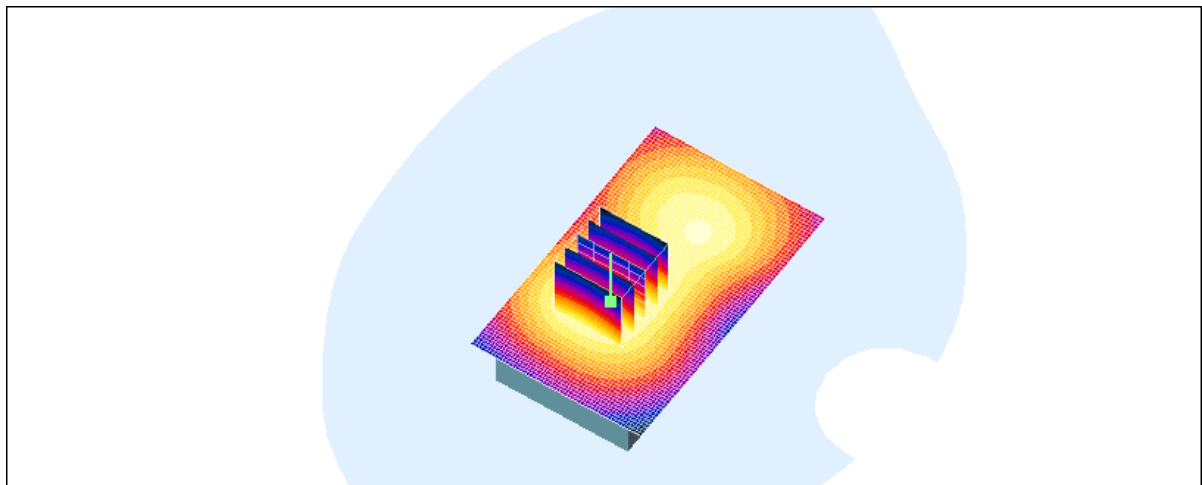
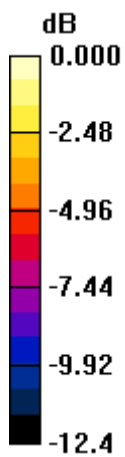
Peak SAR (extrapolated) = 0.401 W/kg

SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.186 mW/g

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

Maximum value of SAR (measured) = 0.301 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 23(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.301mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 24(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/30/2010 2:40:50 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[25mm Spacer Back CDMA1700 mid chan amb temp 22.5 liq temp 21.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.188 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.27 V/m ; Power Drift = -0.013 dB

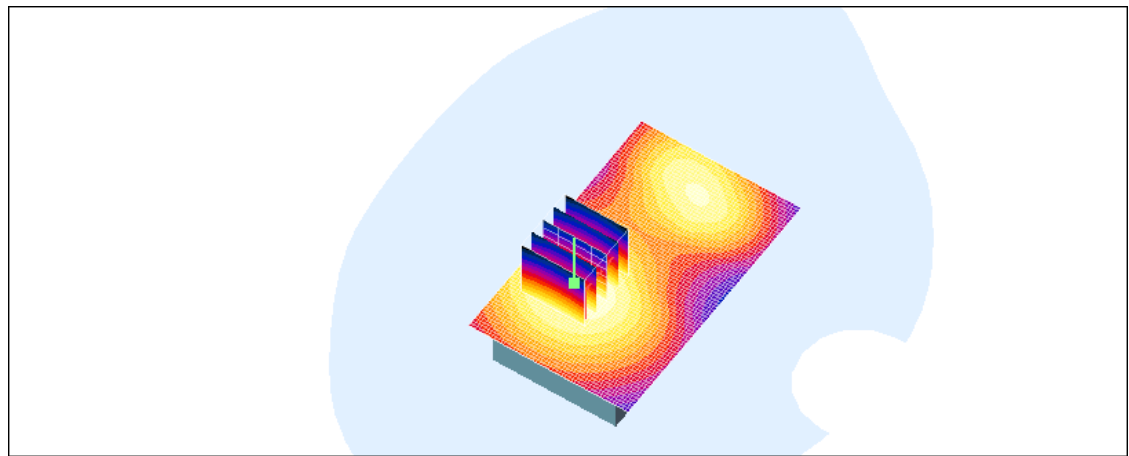
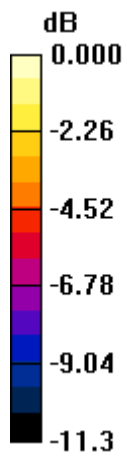
Peak SAR (extrapolated) = 0.248 W/kg

SAR(1 g) = 0.175 mW/g ; SAR(10 g) = 0.120 mW/g

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

Maximum value of SAR (measured) = 0.187 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 25(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.187mW/g

	Document			Page
	Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			26(50)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
Andrew Becker	Mar 12 – Mar 30, 2010	RTS-2068-1004-37	L6ARCZ30CW	2503A-RCZ30CW

Date/Time: 3/25/2010 2:35:31 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back CDMA1900 high chan amb temp 23.3C liq temp 21.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1908.5 \text{ MHz}$; $\sigma = 1.61 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.83, 4.83, 4.83); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.380 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.59 V/m ; Power Drift = -0.042 dB

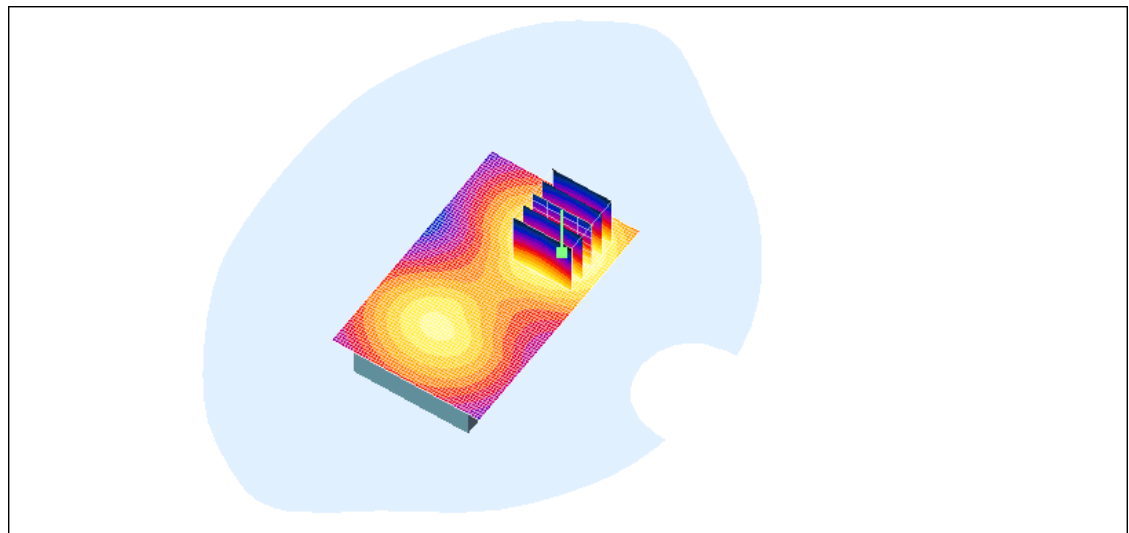
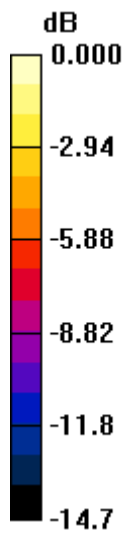
Peak SAR (extrapolated) = 0.558 W/kg

SAR(1 g) = 0.356 mW/g ; SAR(10 g) = 0.216 mW/g

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

Maximum value of SAR (measured) = 0.391 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 27(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.391mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 28(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/25/2010 3:07:58 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back CDMA1900 high chan amb temp 23.3C liq temp 21.4C.d a4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1908.5 \text{ MHz}$; $\sigma = 1.61 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.83, 4.83, 4.83); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.417 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.92 V/m ; Power Drift = 0.046 dB

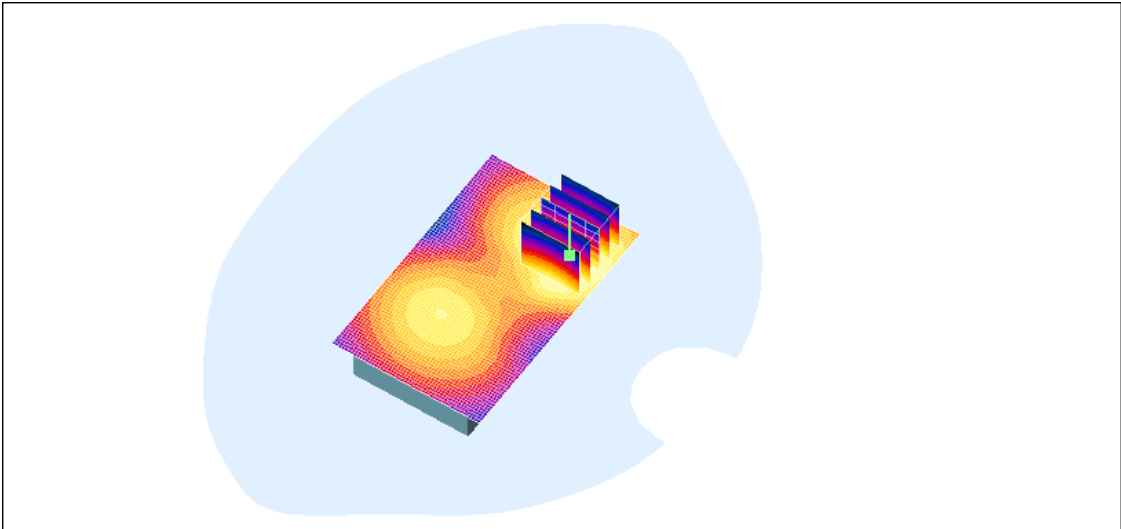
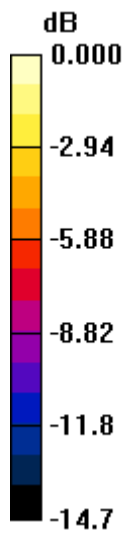
Peak SAR (extrapolated) = 0.594 W/kg

SAR(1 g) = 0.390 mW/g ; SAR(10 g) = 0.242 mW/g

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

Maximum value of SAR (measured) = 0.422 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 29(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.422mW/g

	Document			Page
	Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			30(50)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
Andrew Becker	Mar 12 – Mar 30, 2010	RTS-2068-1004-37	L6ARCZ30CW	2503A-RCZ30CW

Date/Time: 3/25/2010 3:21:29 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Front_CDMA1900_high_chan_amb_temp_23.5C_liq_temp_21.4C.d
a4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1908.5 \text{ MHz}$; $\sigma = 1.61 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.83, 4.83, 4.83); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.319 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

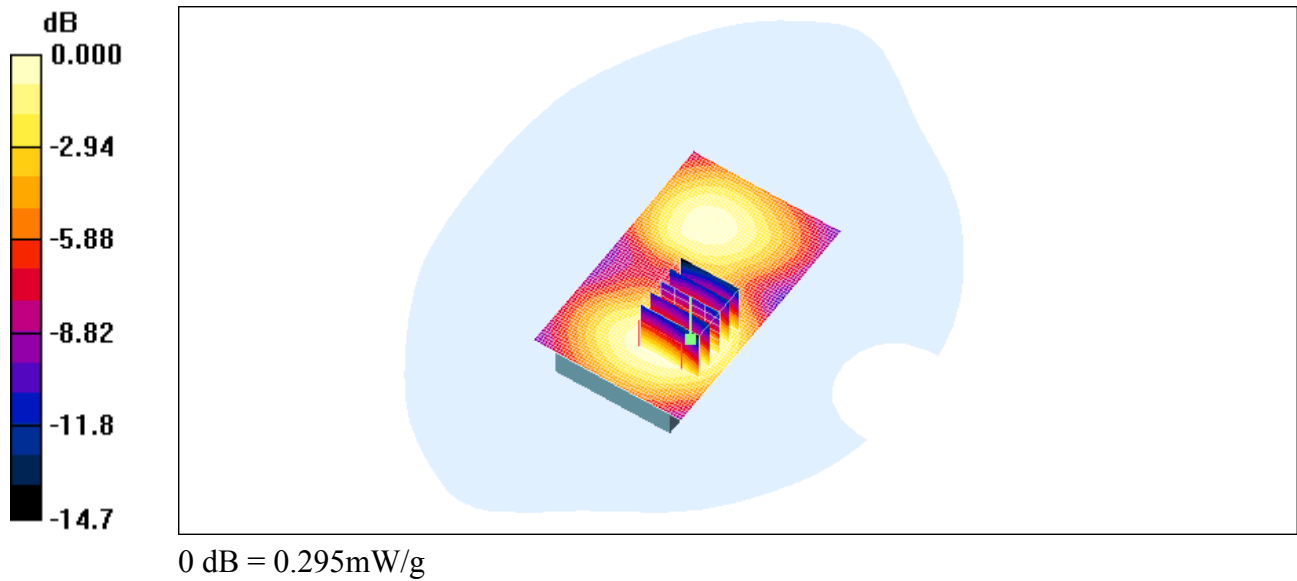
Reference Value = 6.96 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 0.401 W/kg

SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.182 mW/g

Maximum value of SAR (measured) = 0.295 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 31(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 32(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/25/2010 3:36:10 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back HS#1 CDMA1900 high_chan_amb_temp_23.4C_liq_temp_21.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1908.5 \text{ MHz}$; $\sigma = 1.61 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.83, 4.83, 4.83); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.384 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.9 V/m ; Power Drift = -0.019 dB

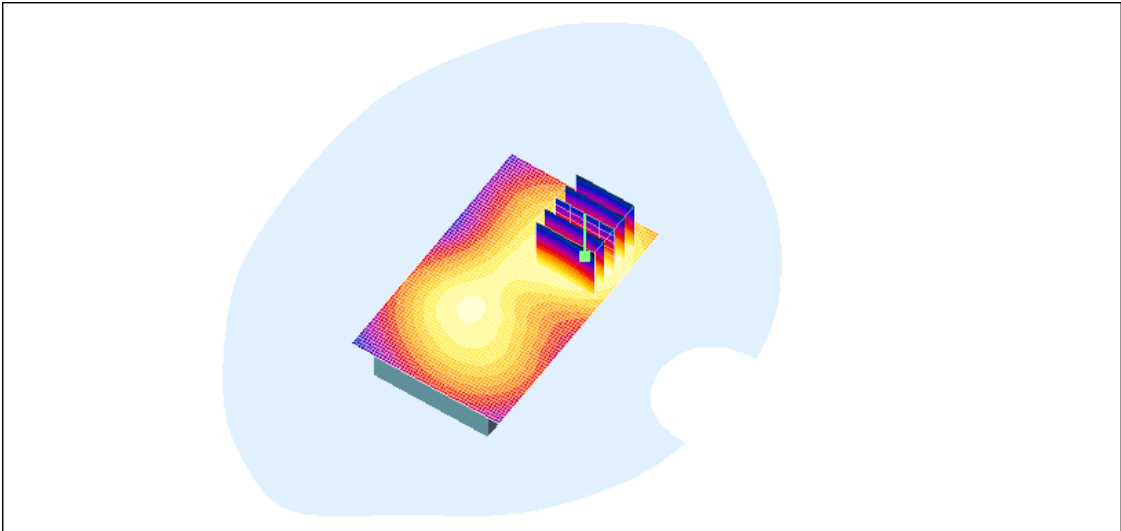
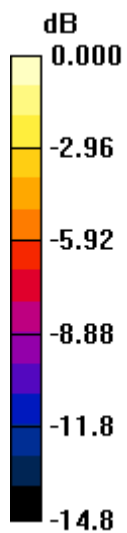
Peak SAR (extrapolated) = 0.529 W/kg

SAR(1 g) = 0.346 mW/g ; SAR(10 g) = 0.217 mW/g

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

Maximum value of SAR (measured) = 0.372 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 33(50)
	Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW



0 dB = 0.372mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 34(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/25/2010 3:53:57 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[25mm Spacer Back CDMA1900_high_chan_amb_temp_23.4C_liq_temp_21.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1908.5 \text{ MHz}$; $\sigma = 1.61 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.83, 4.83, 4.83); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.274 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.05 V/m ; Power Drift = 0.072 dB

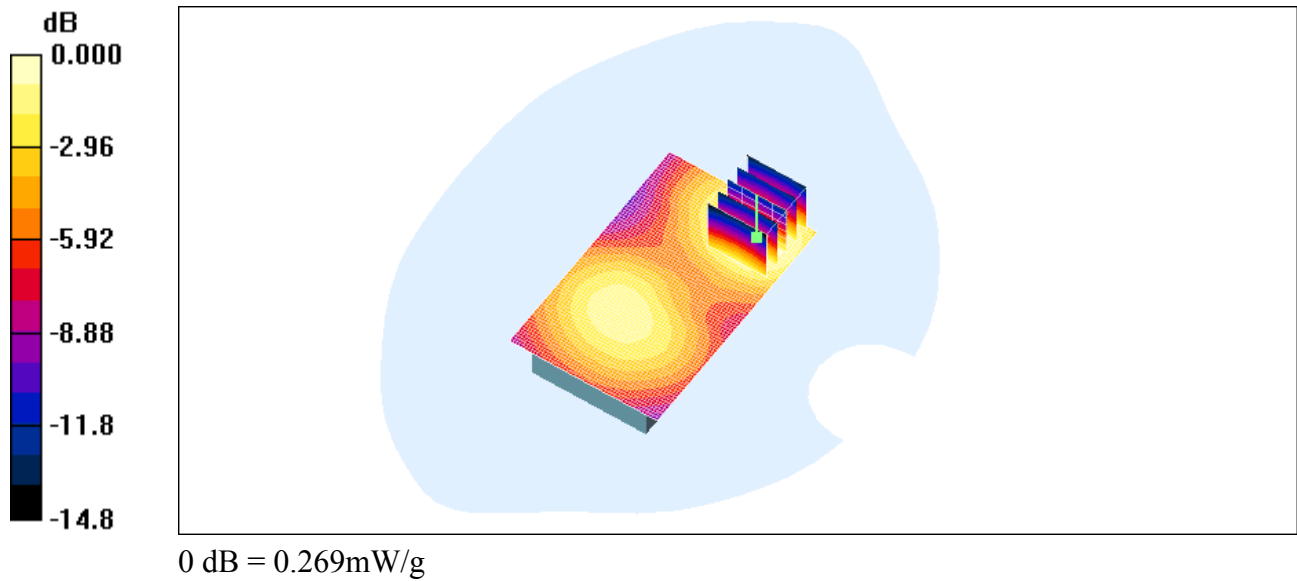
Peak SAR (extrapolated) = 0.381 W/kg

SAR(1 g) = 0.248 mW/g ; SAR(10 g) = 0.153 mW/g

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

Maximum value of SAR (measured) = 0.269 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 35(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



	Document			Page
	Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			36(50)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
Andrew Becker	Mar 12 – Mar 30, 2010	RTS-2068-1004-37	L6ARCZ30CW	2503A-RCZ30CW

Date/Time: 3/12/2010 3:39:17 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back 802.11b mid chan amb temp 22.4C liq temp 21.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.97 \text{ mho/m}$; $\epsilon_r = 50.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.108 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.04 V/m ; Power Drift = -0.027 dB

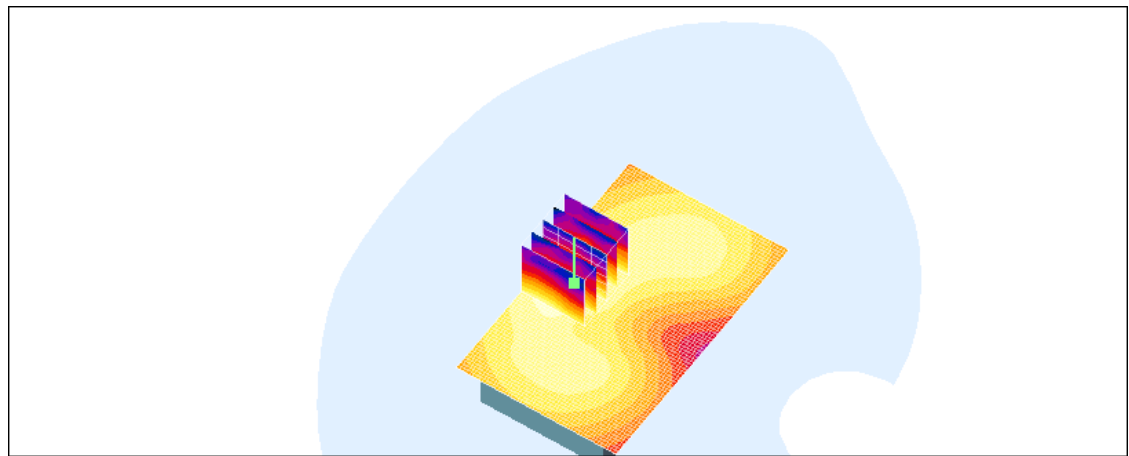
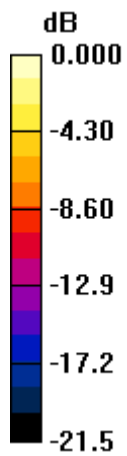
Peak SAR (extrapolated) = 0.239 W/kg

SAR(1 g) = 0.104 mW/g ; SAR(10 g) = 0.055 mW/g

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

Maximum value of SAR (measured) = 0.108 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 37(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.108mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report		Page 38(50)	
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/12/2010 2:55:57 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_802.11b_mid_chan_amb_temp_22.3C_liq_temp_21.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.97 \text{ mho/m}$; $\epsilon_r = 50.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.317 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.41 V/m ; Power Drift = -0.127 dB

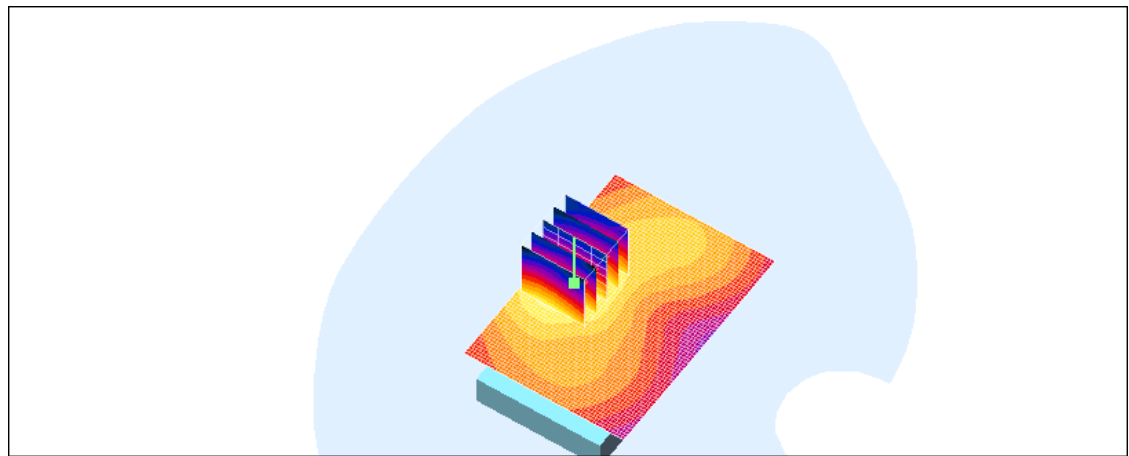
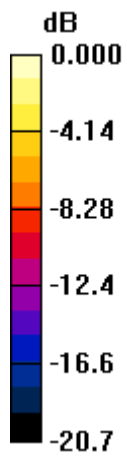
Peak SAR (extrapolated) = 0.782 W/kg

SAR(1 g) = 0.314 mW/g ; SAR(10 g) = 0.152 mW/g

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

Maximum value of SAR (measured) = 0.354 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 39(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.354mW/g

	Document			Page
	Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			40(50)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
Andrew Becker	Mar 12 – Mar 30, 2010	RTS-2068-1004-37	L6ARCZ30CW	2503A-RCZ30CW

Date/Time: 3/12/2010 3:17:08 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Front_802.11b_mid_chan_amb_temp_23.1C_liq_temp_21.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.97 \text{ mho/m}$; $\epsilon_r = 50.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.035 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.95 V/m ; Power Drift = -0.298 dB

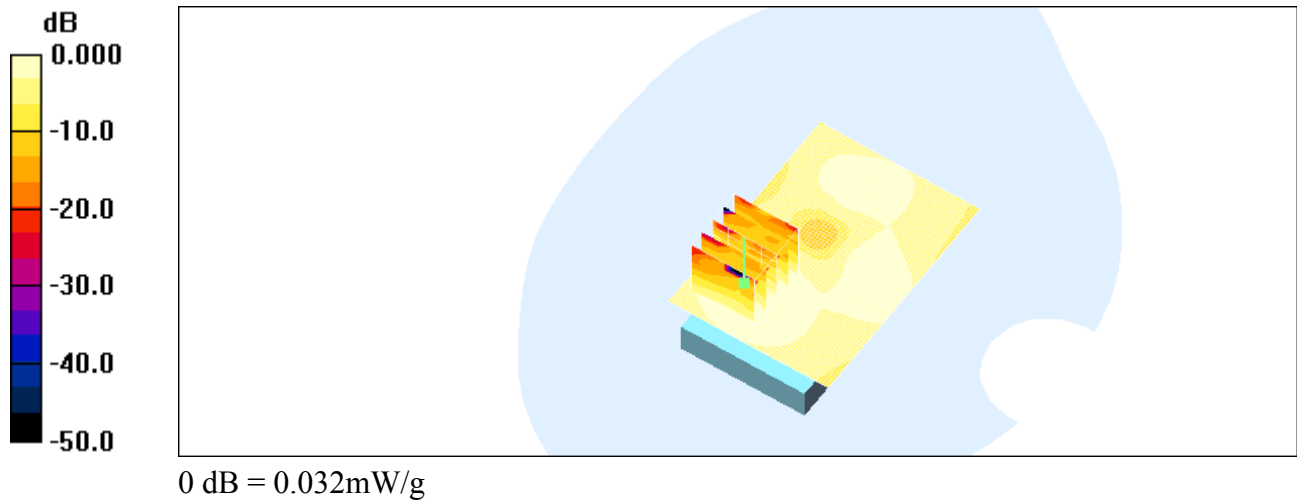
Peak SAR (extrapolated) = 0.078 W/kg

SAR(1 g) = 0.032 mW/g ; SAR(10 g) = 0.017 mW/g

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

Maximum value of SAR (measured) = 0.032 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 41(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 42(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/12/2010 2:04:44 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back HS#1 802.11b mid chan amb temp 22.0C liq temp 21.2C da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.97 \text{ mho/m}$; $\epsilon_r = 50.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.359 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.00 V/m ; Power Drift = -0.425 dB

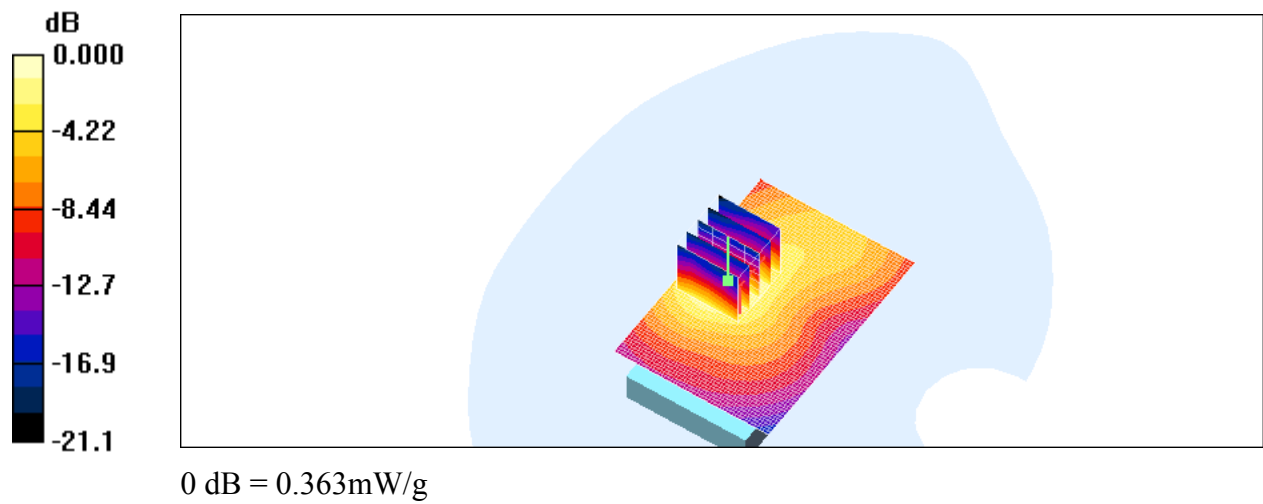
Peak SAR (extrapolated) = 0.811 W/kg

SAR(1 g) = 0.326 mW/g ; SAR(10 g) = 0.160 mW/g

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

Maximum value of SAR (measured) = 0.363 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 43(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 44(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/12/2010 2:19:25 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back HS#2 802.11b mid chan amb temp 22.5C liq temp 21.3C da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.97 \text{ mho/m}$; $\epsilon_r = 50.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.338 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.53 V/m ; Power Drift = -0.345 dB

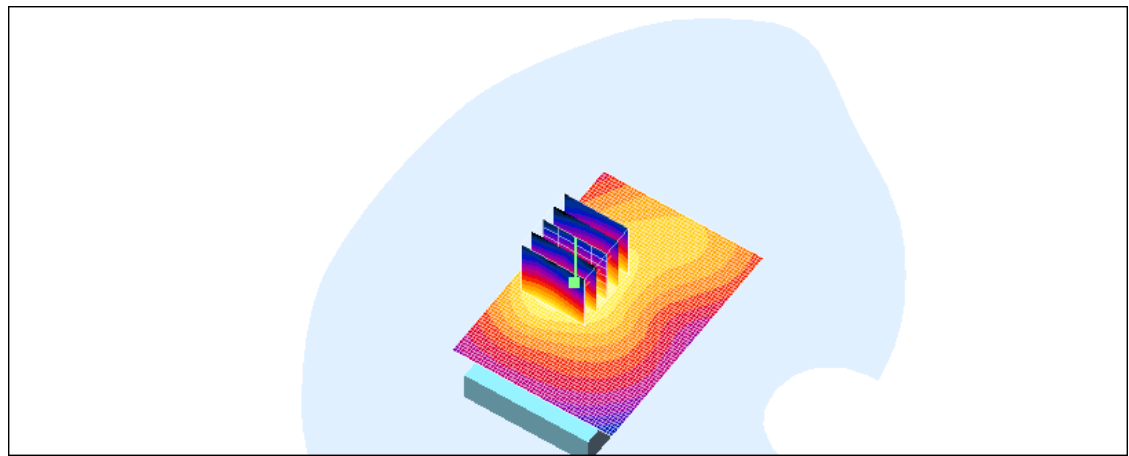
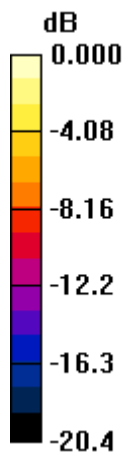
Peak SAR (extrapolated) = 0.832 W/kg

SAR(1 g) = 0.333 mW/g ; SAR(10 g) = 0.163 mW/g

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

Maximum value of SAR (measured) = 0.364 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 45(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.364mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 46(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/12/2010 2:42:42 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back HS#3 802.11b mid chan amb temp 22.4C liq temp 21.5C da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.97 \text{ mho/m}$; $\epsilon_r = 50.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.327 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.90 V/m ; Power Drift = -0.065 dB

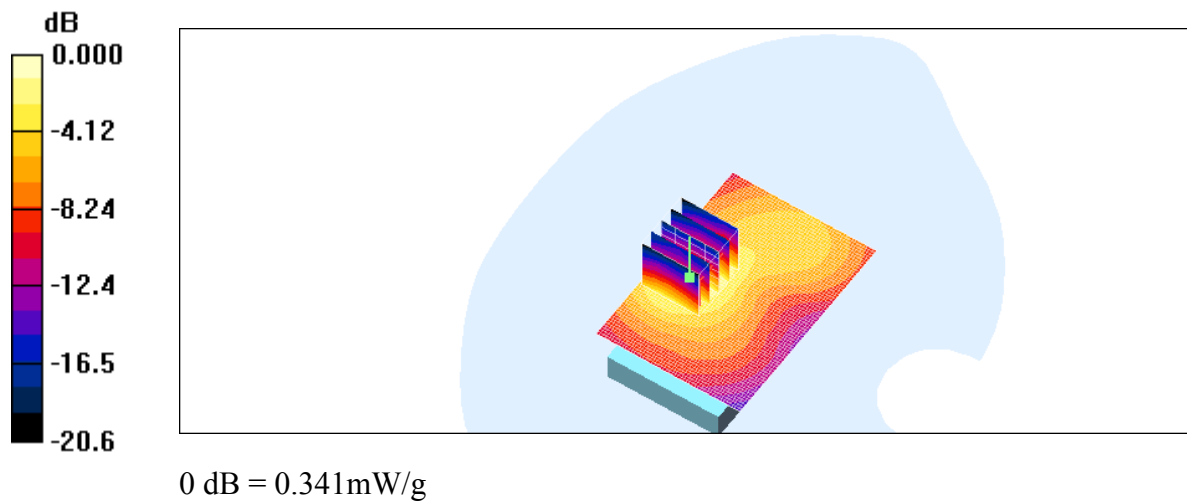
Peak SAR (extrapolated) = 0.792 W/kg

SAR(1 g) = 0.320 mW/g ; SAR(10 g) = 0.157 mW/g

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

Maximum value of SAR (measured) = 0.341 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 47(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 48(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/12/2010 4:00:47 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[25mm Space Body SAR Back 802.11b mid chan amb temp 22.5C liq temp 21.4C da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.97 \text{ mho/m}$; $\epsilon_r = 50.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.107 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.37 V/m ; Power Drift = -0.016 dB

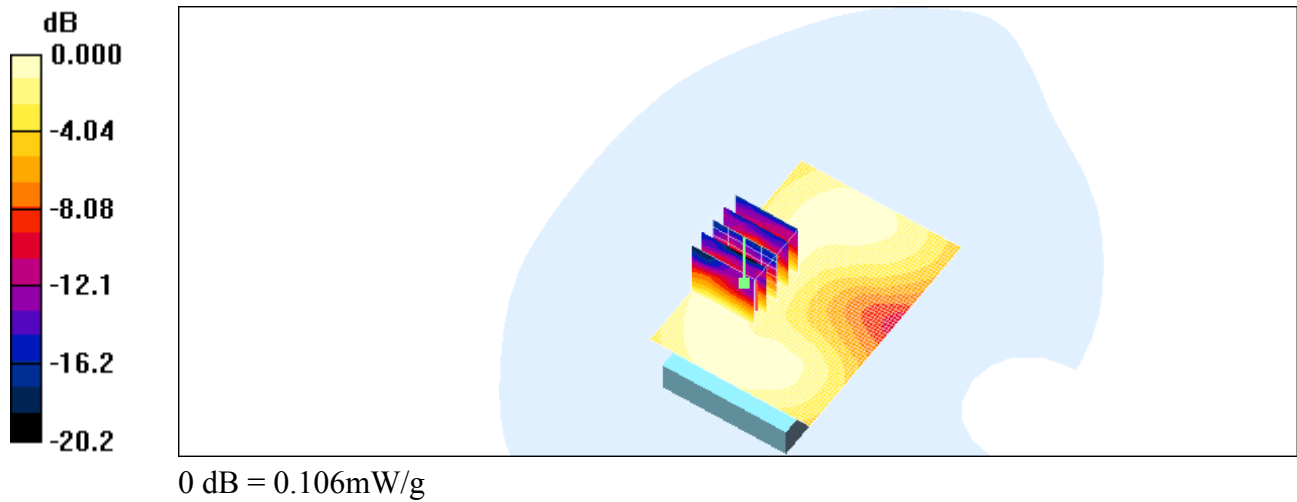
Peak SAR (extrapolated) = 0.227 W/kg

SAR(1 g) = 0.103 mW/g ; SAR(10 g) = 0.057 mW/g

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

Maximum value of SAR (measured) = 0.106 mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 49(50)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



	Document Appendix C for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 50(50)
	Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW
				IC ID: 2503A-RCZ30CW

Z axis plot for the worst case body configuration:

