
	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>1(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

**APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION**

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>2(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/2/2011 1:19:15 AM, Date/Time: 6/2/2011 1:26:26 AM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_GPRS850\_mid\_chan\_amb\_temp\_23.7\_liq\_temp\_22.3C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**

Communication System: GPRS 850; Communication System Band: GPRS 850;  
Frequency: 836.8 MHz; Communication System PAR: 6.232 dB  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 1.008$  mho/m;  $\epsilon_r = 56.833$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.784 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 28.281 V/m; Power Drift = -0.24 dB  
Peak SAR (extrapolated) = 0.919 W/kg  
**SAR(1 g) = 0.725 mW/g; SAR(10 g) = 0.535 mW/g**

Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**

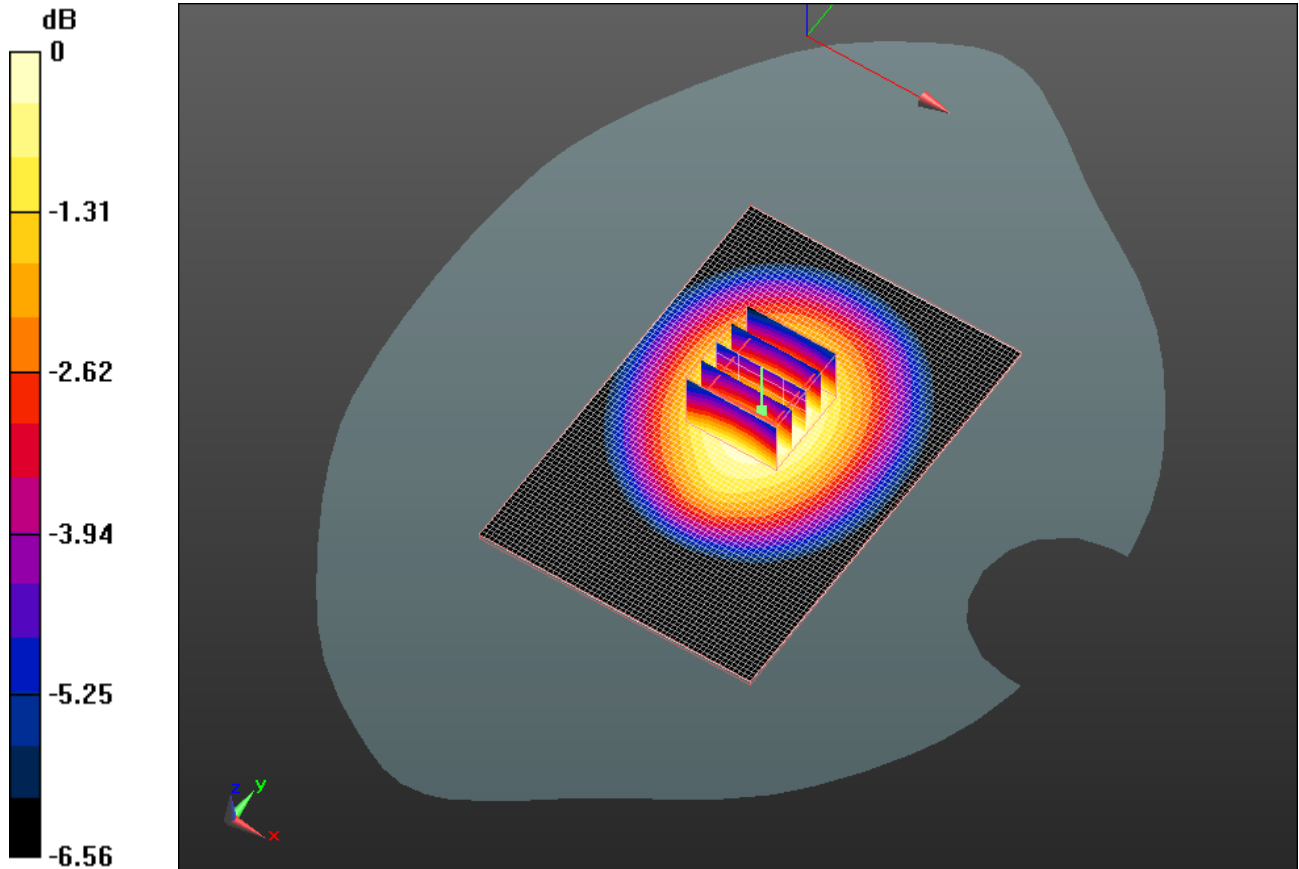
Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**


IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.765 mW/g



0 dB = 0.760mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>4(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/7/2011 1:58:07 PM, Date/Time: 6/7/2011 2:05:00 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_GPRS850\_4-slots\_low\_chan\_amb\_temp\_23.0\_liq\_  
temp\_21.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: GPRS 850 (4 slots); Communication System Band: GPRS (4 slots); Frequency: 824.2 MHz; Communication System PAR: 3.222 dB  
Medium parameters used:  $f = 825 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 53.791$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.809 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 27.698 V/m; Power Drift = -0.07 dB  
Peak SAR (extrapolated) = 1.005 W/kg  
**SAR(1 g) = 0.766 mW/g; SAR(10 g) = 0.561 mW/g**  
Maximum value of SAR (measured) = 0.808 mW/g

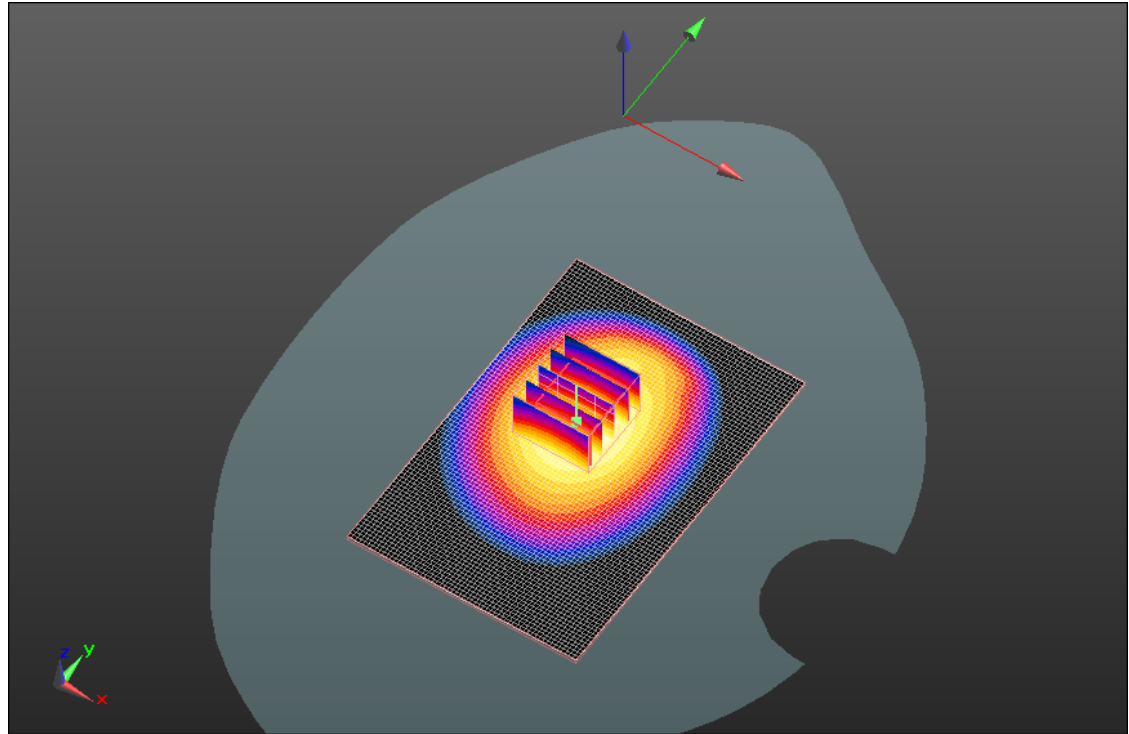
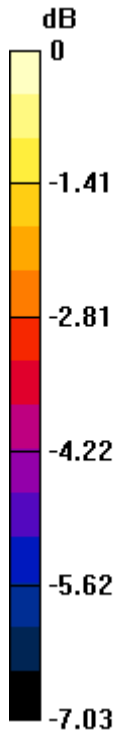
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.810mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>6(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/7/2011 1:43:22 PM, Date/Time: 6/7/2011 1:50:16 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_GPRS850\_3-slots\_low\_chan\_amb\_temp\_23.2\_liq\_**  
**temp\_22.1C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: GPRS 850 (3 slots); Communication System Band: GPRS 850 (3 slots); Frequency: 824.2 MHz; Communication System PAR: 4.472 dB  
Medium parameters used:  $f = 825 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 53.791$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.962 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 29.319 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 1.208 W/kg  
**SAR(1 g) = 0.908 mW/g; SAR(10 g) = 0.660 mW/g**  
Maximum value of SAR (measured) = 0.953 mW/g

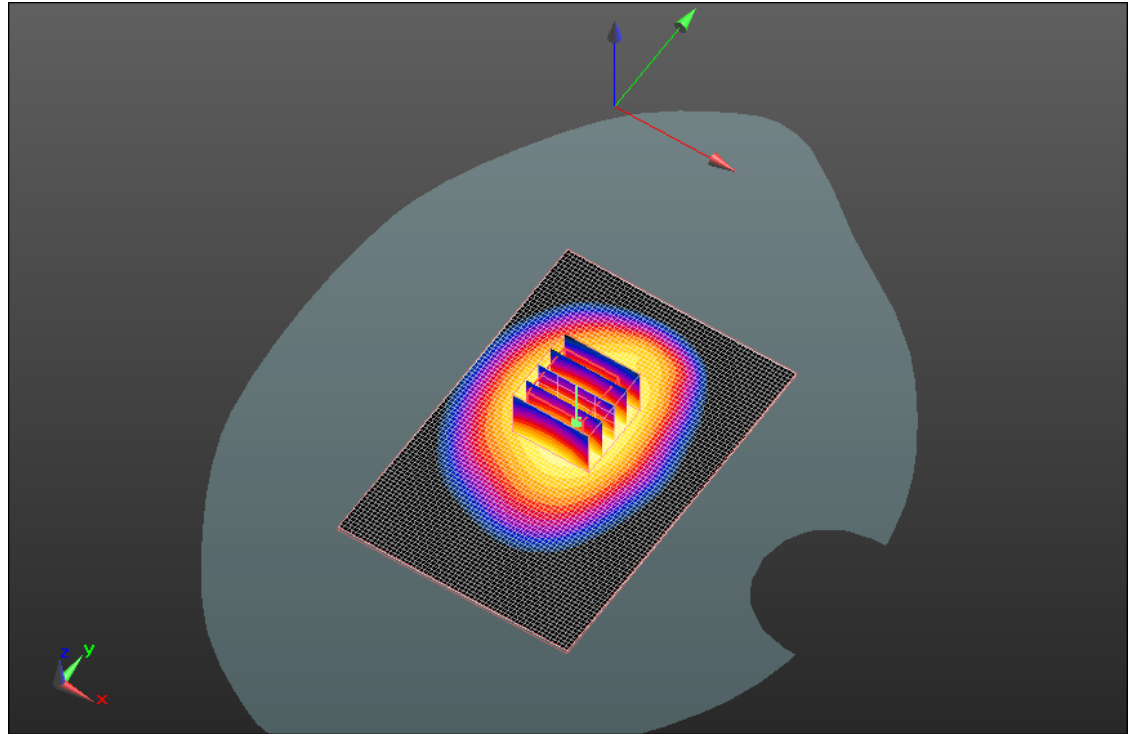
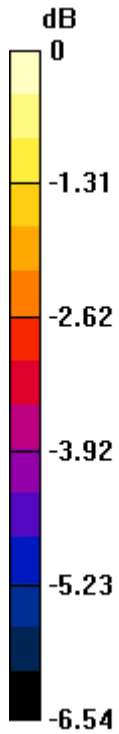
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.950mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>8(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/7/2011 12:27:16 PM, Date/Time: 6/7/2011 12:34:10 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_GPRS850\_low\_chan\_amb\_temp\_22.9\_liq\_temp\_2**

**2.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: GPRS 850; Communication System Band: GPRS 850;  
Frequency: 824.2 MHz; Communication System PAR: 6.232 dB  
Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 53.791$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.065 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 30.171 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.323 W/kg

**SAR(1 g) = 1 mW/g; SAR(10 g) = 0.724 mW/g**

Maximum value of SAR (measured) = 1.068 mW/g



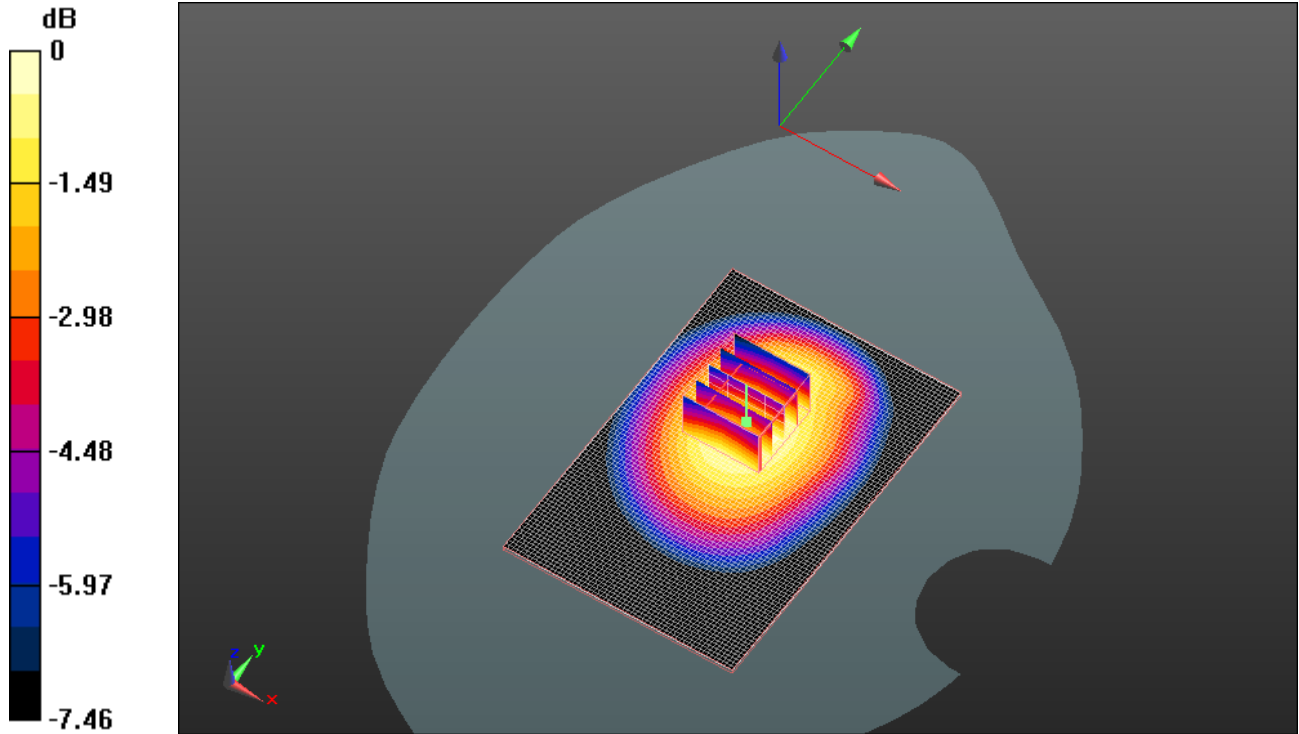
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 1.070mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>10(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/7/2011 12:41:53 PM, Date/Time: 6/7/2011 12:48:48 PM

Test Laboratory: RIM Testing Services

## 15mm\_Spacer\_Back\_GPRS850\_mid\_chan\_amb\_temp\_23.0\_liq\_temp\_2 2.3C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: GPRS 850; Communication System Band: GPRS 850;  
Frequency: 836.8 MHz; Communication System PAR: 6.232 dB  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.994$  mho/m;  $\epsilon_r = 53.676$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.839 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 27.607 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.053 W/kg

**SAR(1 g) = 0.804 mW/g; SAR(10 g) = 0.583 mW/g**

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

Maximum value of SAR (measured) = 0.851 mW/g

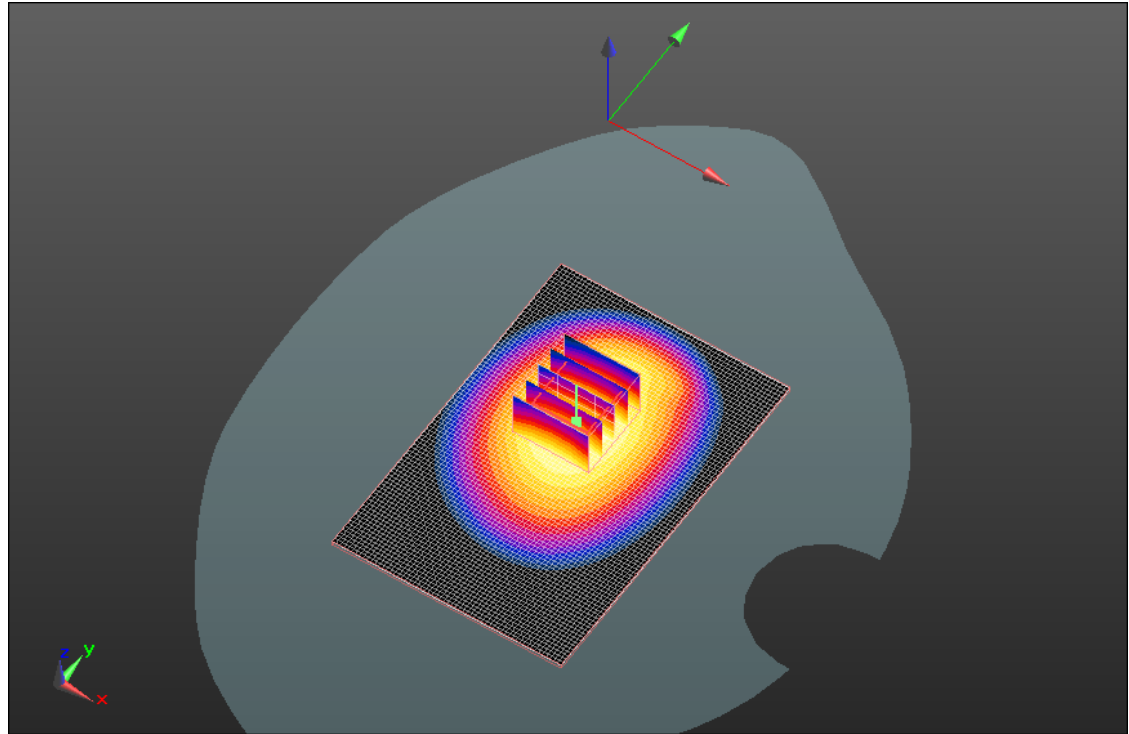
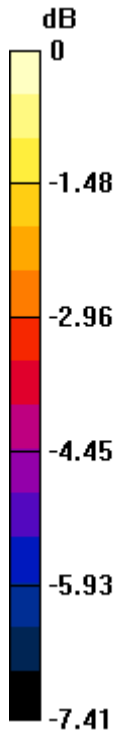
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.850mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>12(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/7/2011 12:56:55 PM, Date/Time: 6/7/2011 1:03:51 PM

Test Laboratory: RIM Testing Services

## 15mm\_Spacer\_Back\_GPRS850\_high\_chan\_amb\_temp\_23.4\_liq\_temp\_22.3C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: GPRS 850; Communication System Band: GPRS 850;  
Frequency: 848.8 MHz; Communication System PAR: 6.232 dB  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 1.004$  mho/m;  $\epsilon_r = 53.541$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.549 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 22.327 V/m; Power Drift = 0.13 dB  
Peak SAR (extrapolated) = 0.708 W/kg  
**SAR(1 g) = 0.534 mW/g; SAR(10 g) = 0.387 mW/g**

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

Maximum value of SAR (measured) = 0.567 mW/g

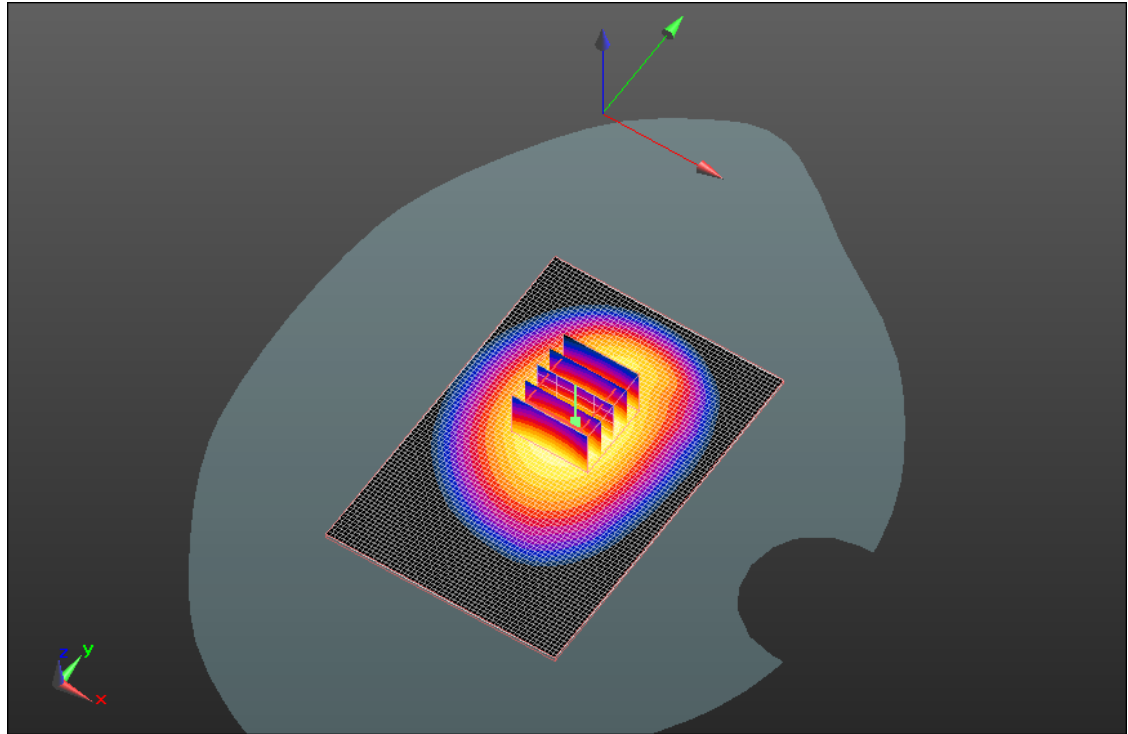
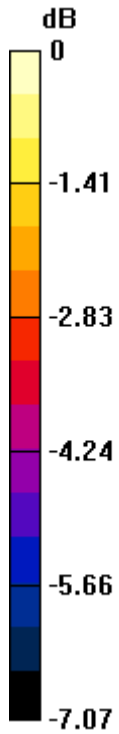
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.570mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>14(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/7/2011 2:45:50 PM, Date/Time: 6/7/2011 2:52:47 PM

Test Laboratory: RIM Testing Services

## 15mm\_Spacer\_Front\_GPRS850\_low\_chan\_amb\_temp\_22.7\_liq\_temp\_2 1.8C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: GPRS 850; Communication System Band: GPRS 850;  
Frequency: 824.2 MHz; Communication System PAR: 6.232 dB  
Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 53.791$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.500 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 20.509 V/m; Power Drift = -0.25 dB  
Peak SAR (extrapolated) = 0.570 W/kg  
**SAR(1 g) = 0.448 mW/g; SAR(10 g) = 0.330 mW/g**  
Maximum value of SAR (measured) = 0.470 mW/g

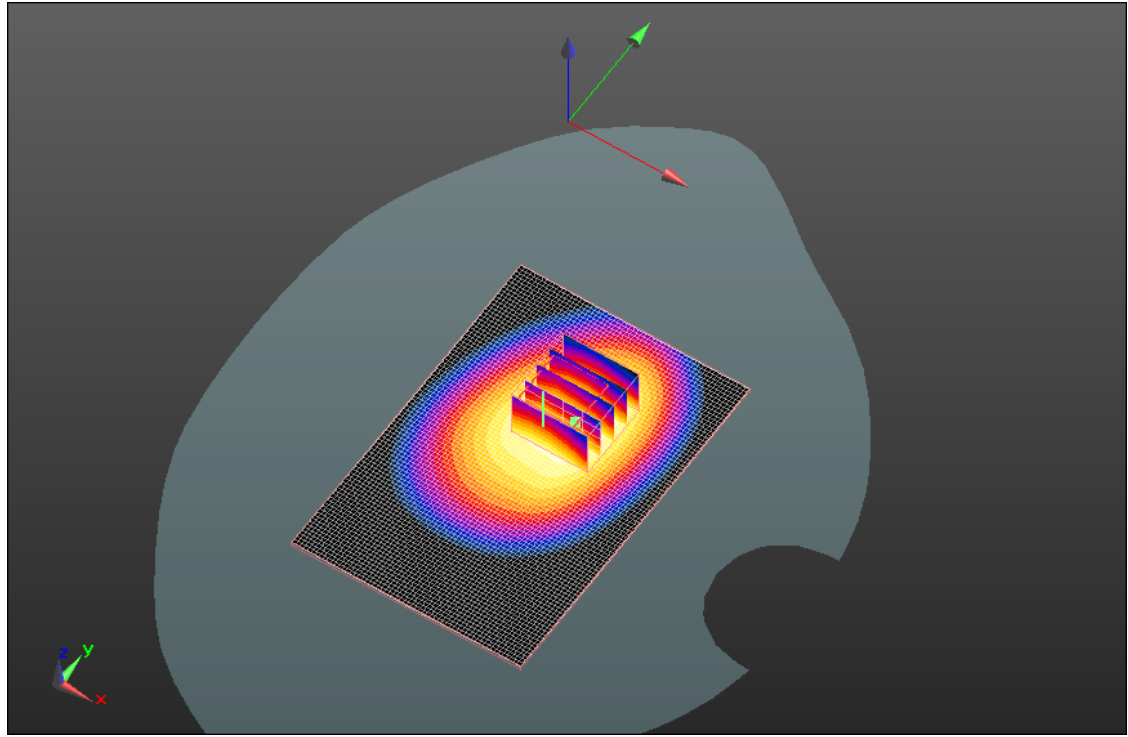
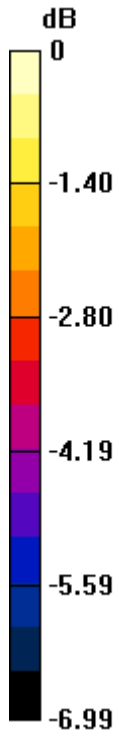
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.470mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>16(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/7/2011 2:16:15 PM, Date/Time: 6/7/2011 2:23:11 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_HS\_GPRS850\_low\_chan\_amb\_temp\_22.8\_liq\_temp\_21.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: GPRS 850; Communication System Band: GPRS 850;  
Frequency: 824.2 MHz; Communication System PAR: 6.232 dB  
Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 53.791$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)


DASY5 Configuration:

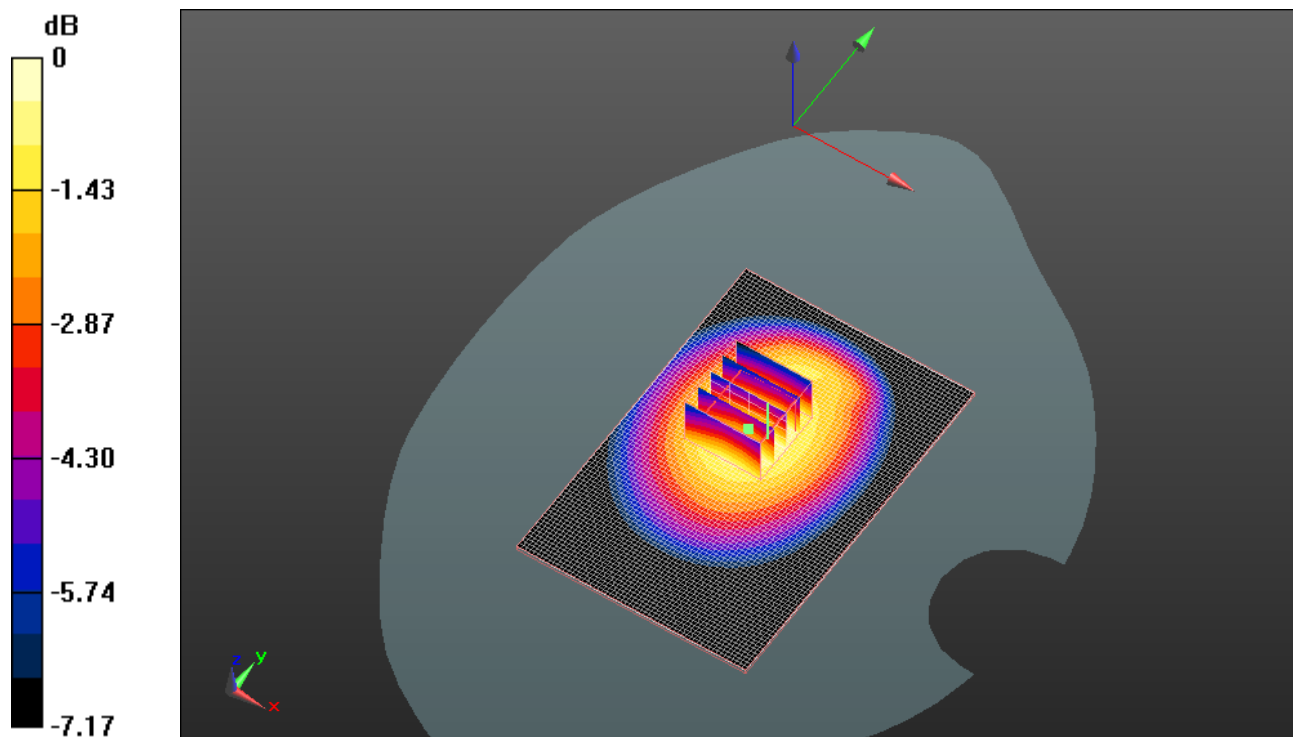
- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.526 mW/g


**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 21.732 V/m; Power Drift = 0.16 dB  
Peak SAR (extrapolated) = 0.670 W/kg  
**SAR(1 g) = 0.523 mW/g; SAR(10 g) = 0.383 mW/g**  
Maximum value of SAR (measured) = 0.555 mW/g



	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>17(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>



0 dB = 0.560mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>18(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/10/2011 8:06:24 PM, Date/Time: 6/10/2011 8:19:08 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_HS\_GPRS1900\_4\_Slots\_mid\_chan\_amb\_temp\_23**  
**.2\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**


Communication System: GPRS 1900 (4-slots); Communication System Band: GPRS 1900 ( 4 slots); Frequency: 1880 MHz; Communication System PAR: 3.222 dB  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.499 \text{ mho/m}$ ;  $\epsilon_r = 51.301$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

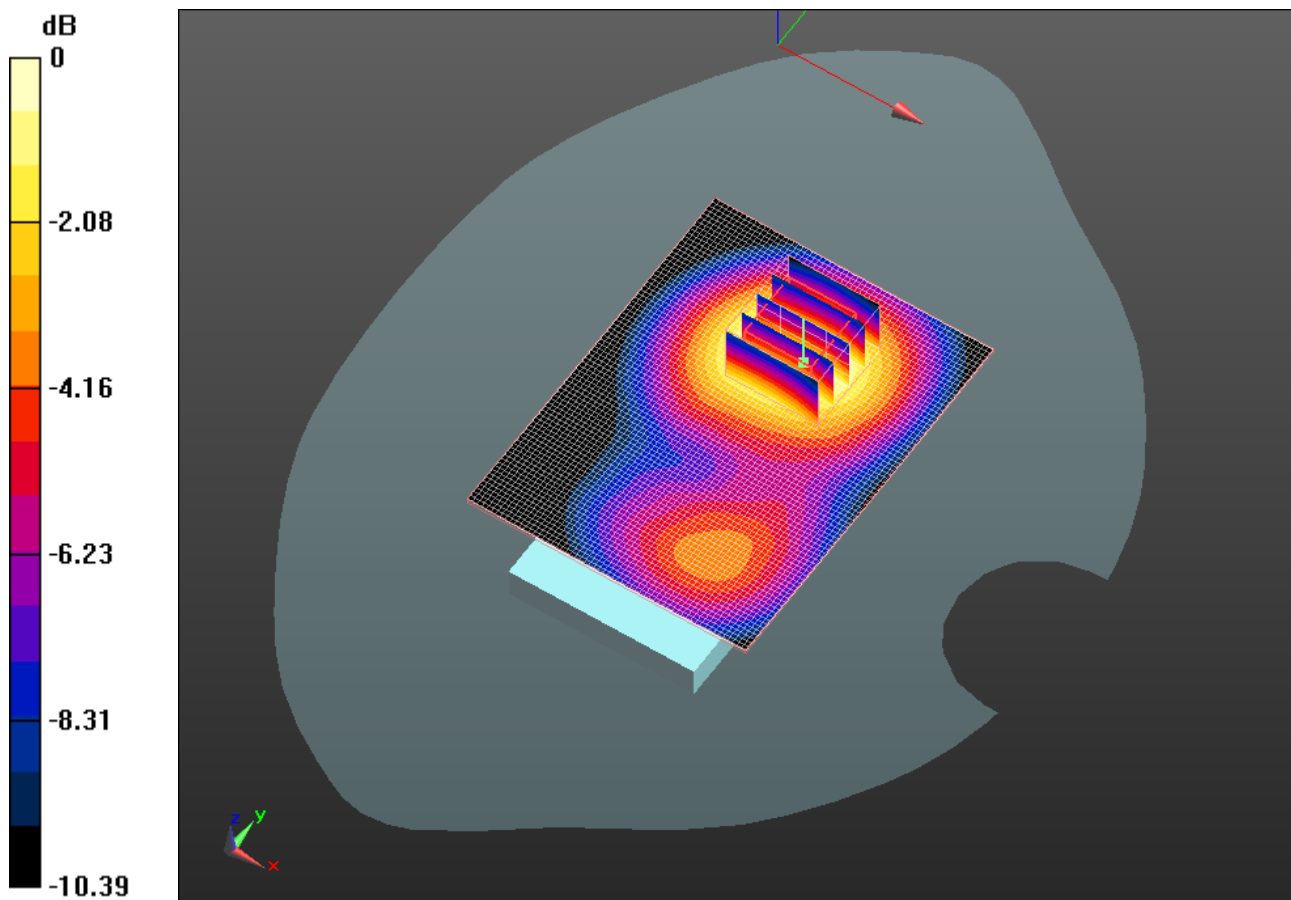
DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)


**Configuration/Touch position -/Area Scan (61x81x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.520 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 9.185 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 0.746 W/kg  
**SAR(1 g) = 0.502 mW/g; SAR(10 g) = 0.314 mW/g**  
Maximum value of SAR (measured) = 0.543 mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>19(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>



0 dB = 0.540mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>20(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 5/4/2011 11:59:11 AM, Date/Time: 5/4/2011 12:06:07 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_Headset\_GPRS1900\_3\_Slots\_mid\_chan\_amb\_t  
mp\_23.3\_liq\_temp\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**

Communication System: GPRS 1900 (3-slots); Frequency: 1880 MHz; Communication System PAR: 4.472 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.494$  mho/m;  $\epsilon_r = 51.549$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.360 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.703 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.473 W/kg

**SAR(1 g) = 0.324 mW/g; SAR(10 g) = 0.201 mW/g**

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

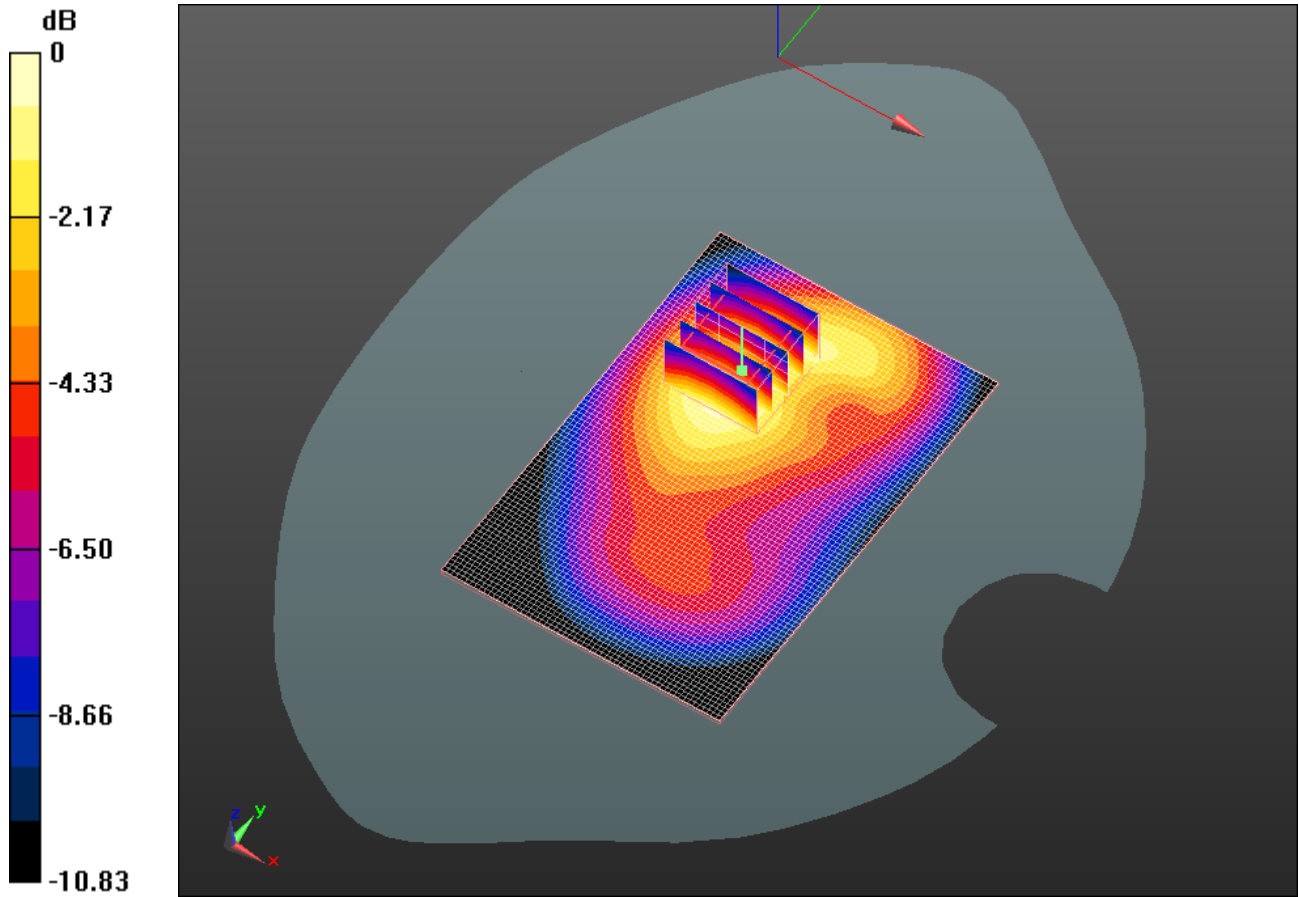
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.350mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>22(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 5/4/2011 10:56:46 AM, Date/Time: 5/4/2011 11:03:39 AM

Test Laboratory: RIM Testing Services

## 15mm\_Spacer\_Back\_GPRS1900\_mid\_chan\_amb\_temp\_23.2\_liq\_temp\_22.3C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**

Communication System: GPRS 1900; Frequency: 1880 MHz; Communication System  
PAR: 6.232 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.494$  mho/m;  $\epsilon_r = 51.549$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.368 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.988 V/m; Power Drift = -0.23 dB

Peak SAR (extrapolated) = 0.488 W/kg

**SAR(1 g) = 0.331 mW/g; SAR(10 g) = 0.208 mW/g**

Maximum value of SAR (measured) = 0.355 mW/g

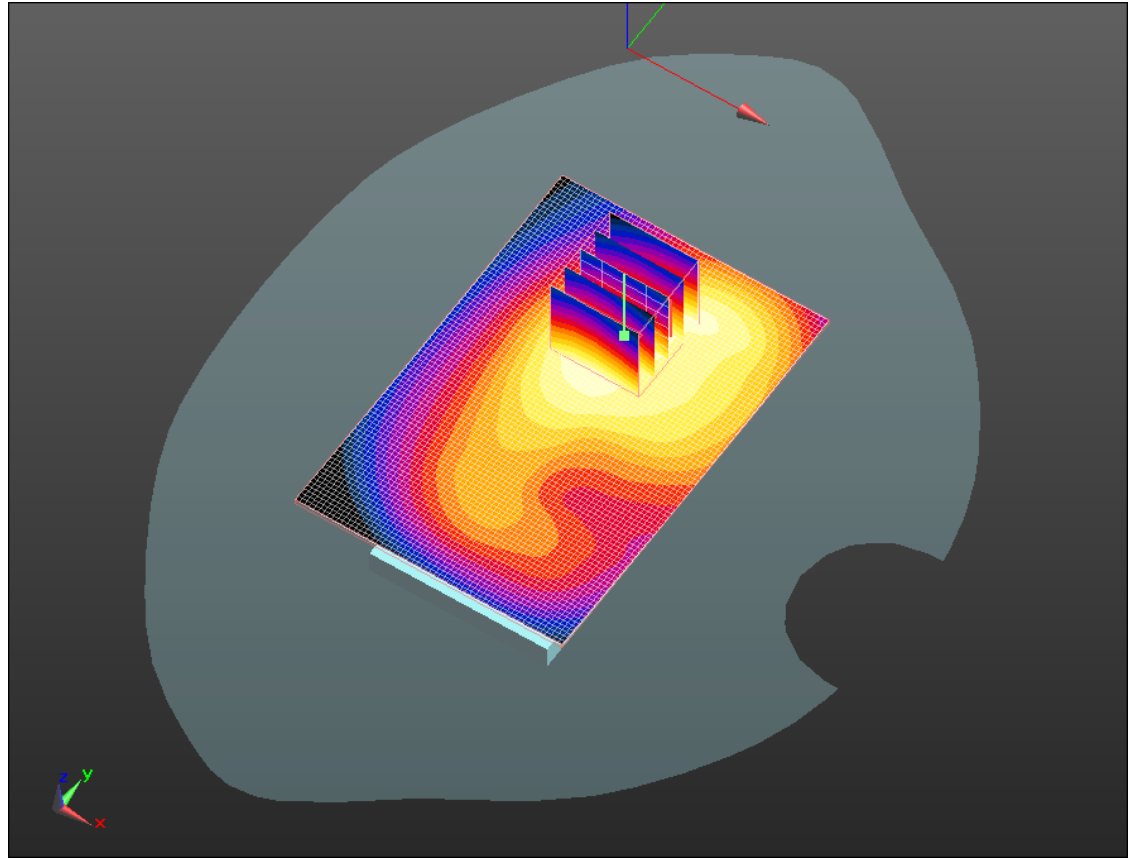
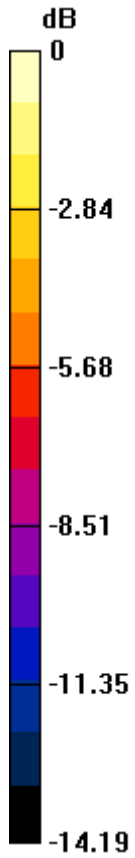
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.350mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>24(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 5/4/2011 11:14:00 AM, Date/Time: 5/4/2011 11:20:53 AM

Test Laboratory: RIM Testing Services

## 15mm\_Spacer\_Front\_GPRS1900\_mid\_chan\_amb\_temp\_23.2\_liq\_temp\_22.3C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**

Communication System: GPRS 1900; Frequency: 1880 MHz; Communication System  
PAR: 6.232 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.494$  mho/m;  $\epsilon_r = 51.549$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.343 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.165 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.462 W/kg

**SAR(1 g) = 0.306 mW/g; SAR(10 g) = 0.190 mW/g**

Maximum value of SAR (measured) = 0.336 mW/g



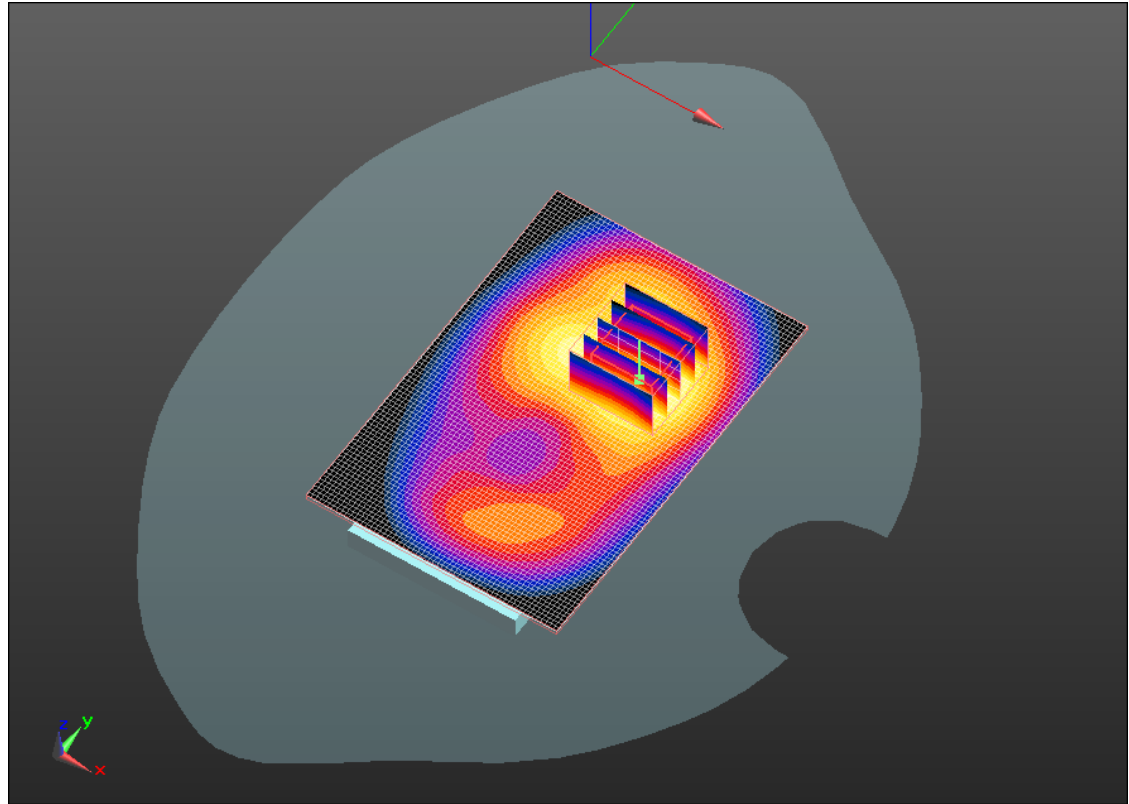
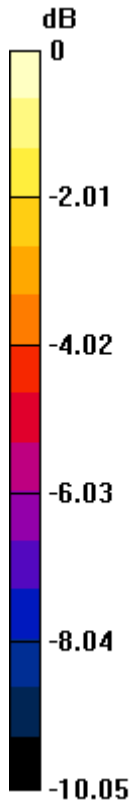
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.340mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>26(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 5/4/2011 11:29:03 AM, Date/Time: 5/4/2011 11:35:55 AM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_GPRS1900\_mid\_chan\_amb\_temp\_23.2\_liq\_temp \_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**

Communication System: GPRS 1900; Frequency: 1880 MHz; Communication System

PAR: 6.232 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.494$  mho/m;  $\epsilon_r = 51.549$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.239 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.053 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.321 W/kg

**SAR(1 g) = 0.220 mW/g; SAR(10 g) = 0.141 mW/g**

Maximum value of SAR (measured) = 0.239 mW/g

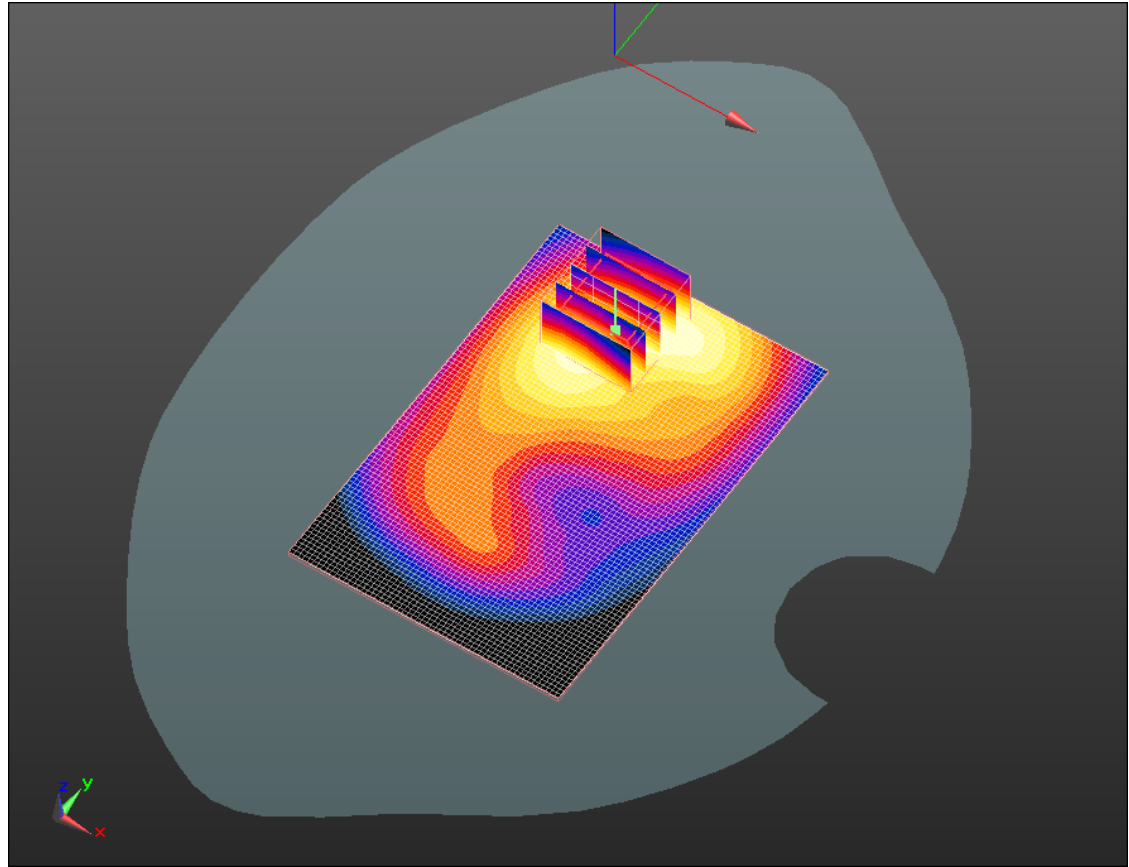
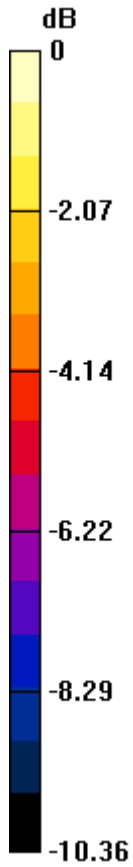
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.240mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>28(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 5/4/2011 11:46:21 AM, Date/Time: 5/4/2011 11:53:16 AM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_Headset\_GPRS1900\_mid\_chan\_amb\_temp\_23.2\_**  
**liq\_temp\_22.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**

Communication System: GPRS 1900; Frequency: 1880 MHz; Communication System

PAR: 6.232 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.494$  mho/m;  $\epsilon_r = 51.549$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:

dx=15mm, dy=15mm

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

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.974 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.528 W/kg

**SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.216 mW/g**

Maximum value of SAR (measured) = 0.378 mW/g

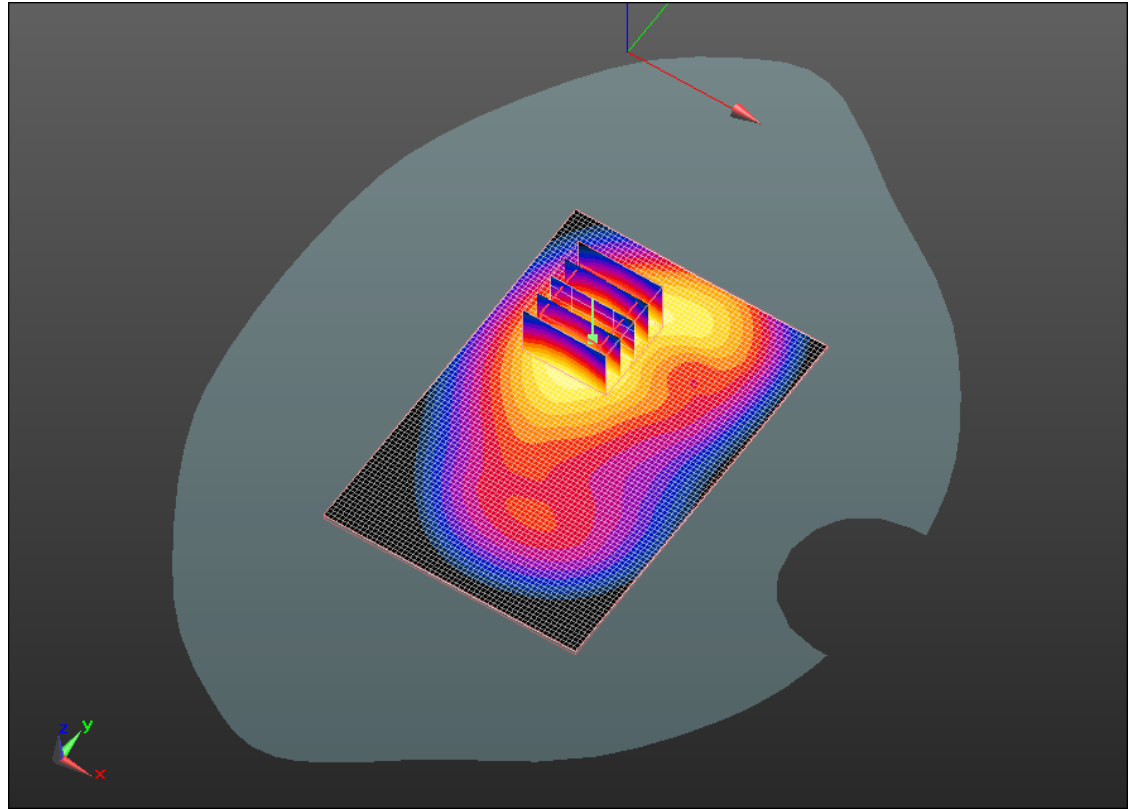
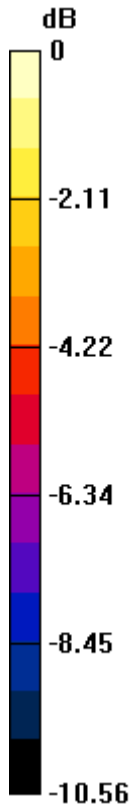
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.380mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>30(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/10/2011 8:25:55 PM, Date/Time: 6/10/2011 8:32:15 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_HS\_GPRS1900\_mid\_chan\_amb\_temp\_23.2\_liq\_tem  
mp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: GPRS 1900; Communication System Band: GPRS 1900;  
Frequency: 1880 MHz; Communication System PAR: 6.232 dB  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.499$  mho/m;  $\epsilon_r = 51.301$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x81x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.434 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 8.070 V/m; Power Drift = -0.05 dB  
Peak SAR (extrapolated) = 0.556 W/kg  
**SAR(1 g) = 0.379 mW/g; SAR(10 g) = 0.238 mW/g**  
Maximum value of SAR (measured) = 0.404 mW/g

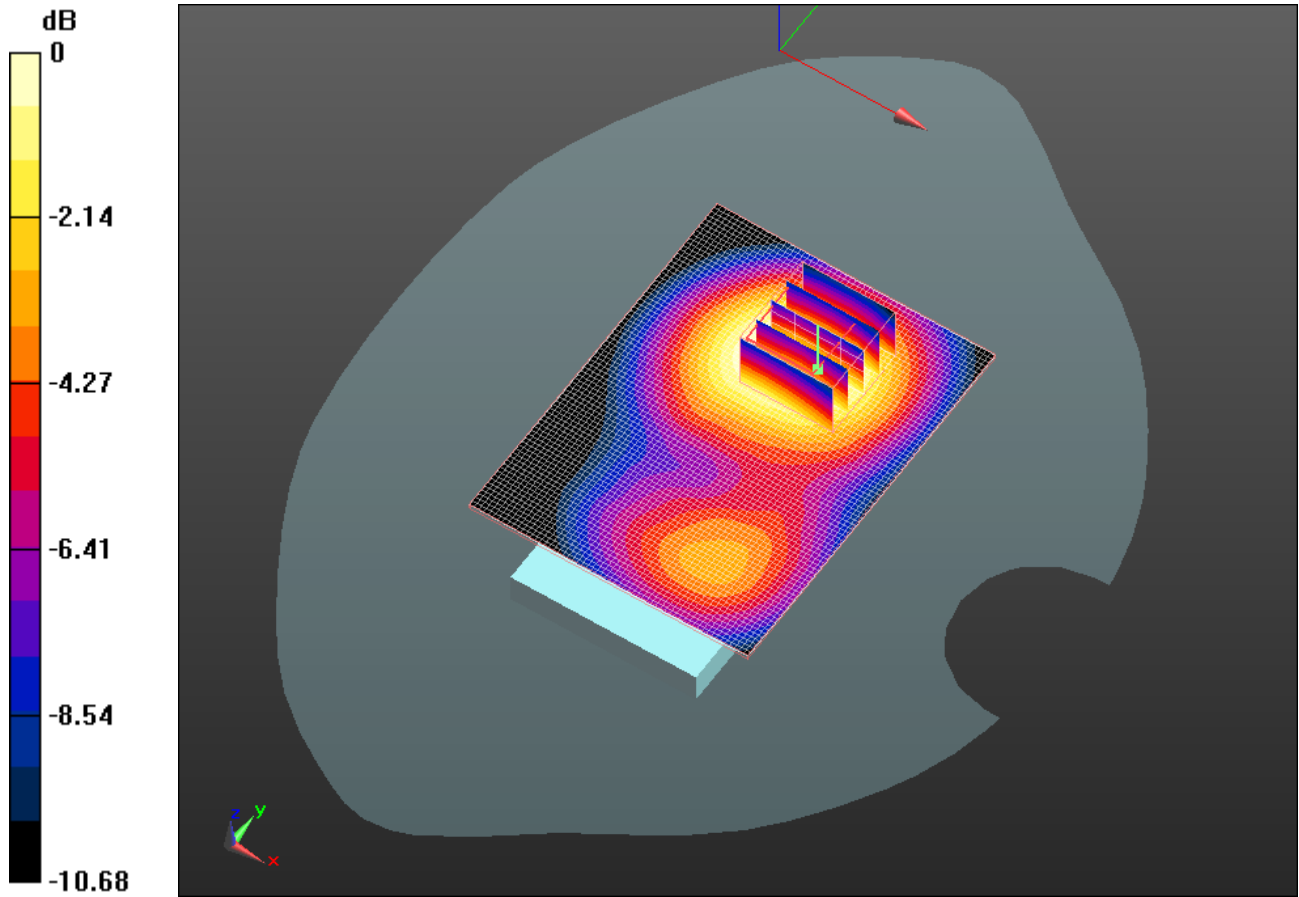
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.400mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>32(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 5/27/2011 9:45:38 PM, Date/Time: 5/27/2011 9:52:31 PM

Test Laboratory: RIM Testing Services

## 15mm\_Spacer\_Back\_CDMA850\_low\_chan\_amb\_temp\_23.5\_liq\_temp\_2 2.0C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**

Communication System: CDMA 850; Communication System Band: CDMA 2000  
Cellular; Frequency: 824.7 MHz; Communication System PAR: 0 dB  
Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.974$  mho/m;  $\epsilon_r = 53.235$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.980 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 30.494 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 1.241 W/kg  
**SAR(1 g) = 0.948 mW/g; SAR(10 g) = 0.689 mW/g**  
Maximum value of SAR (measured) = 1.003 mW/g



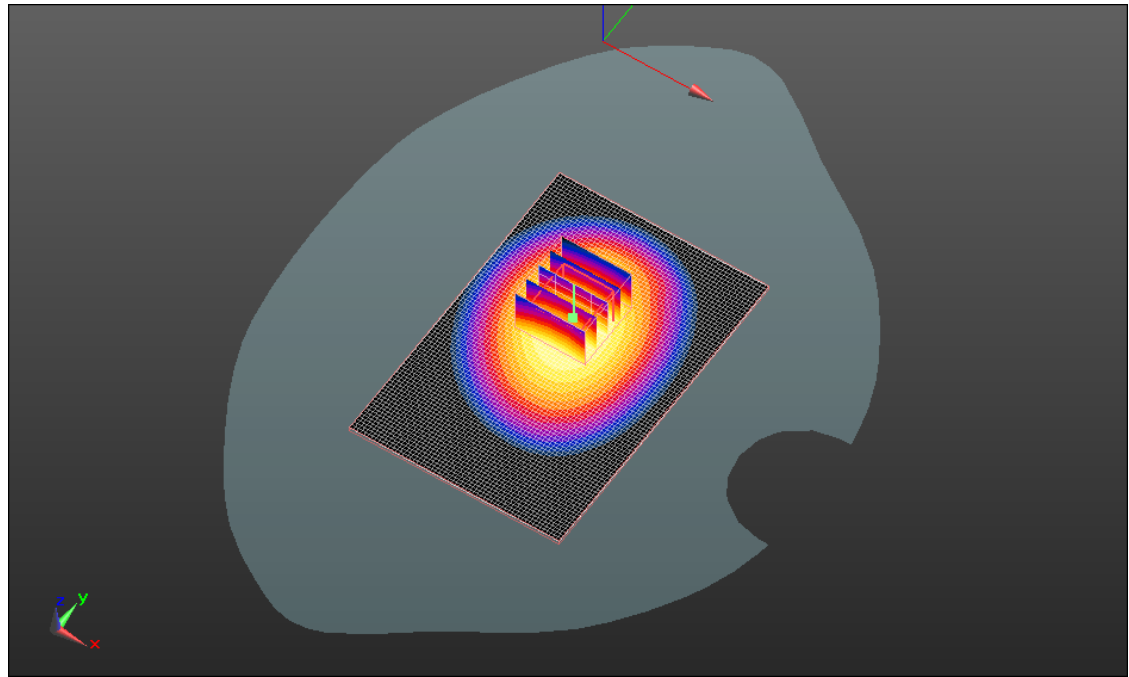
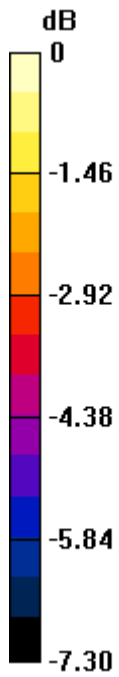
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 1.000mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>34(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 5/27/2011 9:31:29 PM, Date/Time: 5/27/2011 9:38:22 PM

Test Laboratory: RIM Testing Services

## 15mm\_Spacer\_Back\_CDMA850\_mid\_chan\_amb\_temp\_24.2\_liq\_temp\_2 2.7C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**

Communication System: CDMA 850; Communication System Band: CDMA 2000  
Cellular; Frequency: 836.52 MHz; Communication System PAR: 0 dB  
Medium parameters used (interpolated):  $f = 836.52$  MHz;  $\sigma = 0.986$  mho/m;  $\epsilon_r = 53.092$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)  
Maximum value of SAR (interpolated) = 0.848 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 28.444 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 1.034 W/kg  
**SAR(1 g) = 0.810 mW/g; SAR(10 g) = 0.590 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)  
Maximum value of SAR (measured) = 0.850 mW/g

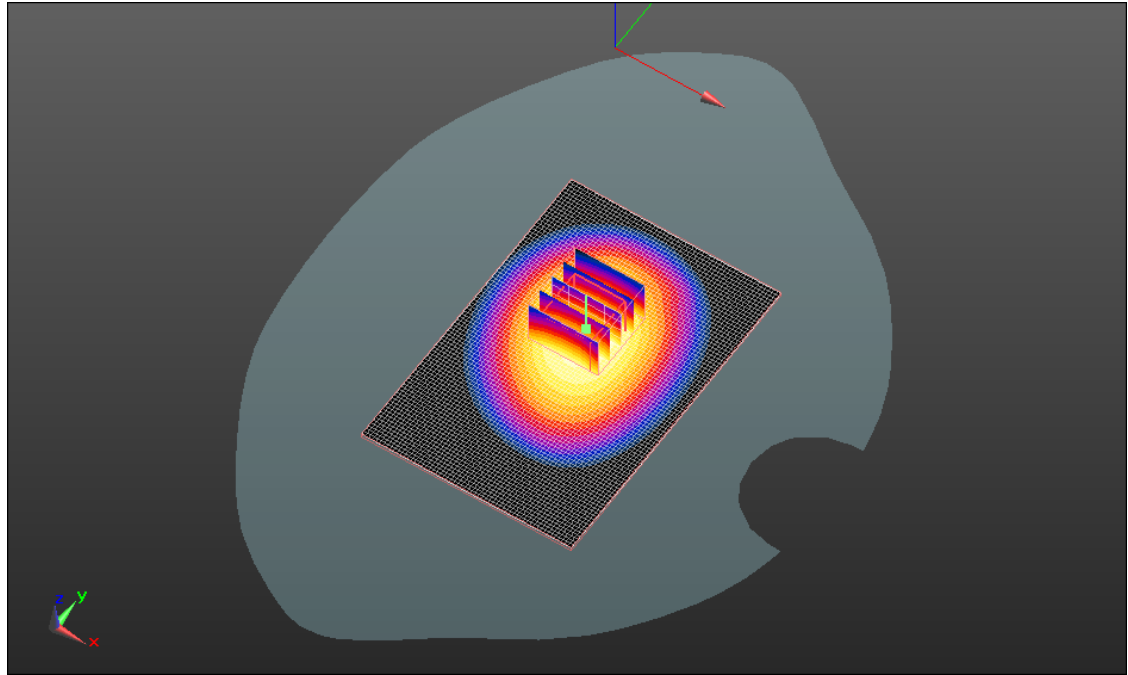
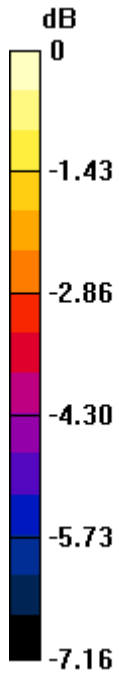
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.850mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>36(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 5/27/2011 9:58:45 PM, Date/Time: 5/27/2011 10:05:42 PM

Test Laboratory: RIM Testing Services

## 15mm\_Spacer\_Back\_CDMA850\_high\_chan\_amb\_temp\_23.6\_liq\_temp\_22.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**

Communication System: CDMA 850; Communication System Band: CDMA 2000  
Cellular; Frequency: 848.52 MHz; Communication System PAR: 0 dB  
Medium parameters used (interpolated):  $f = 848.52$  MHz;  $\sigma = 0.998$  mho/m;  $\epsilon_r = 52.981$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.750 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.938 V/m; Power Drift = 0.0097 dB

Peak SAR (extrapolated) = 0.914 W/kg

**SAR(1 g) = 0.706 mW/g; SAR(10 g) = 0.515 mW/g**

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

Maximum value of SAR (measured) = 0.750 mW/g

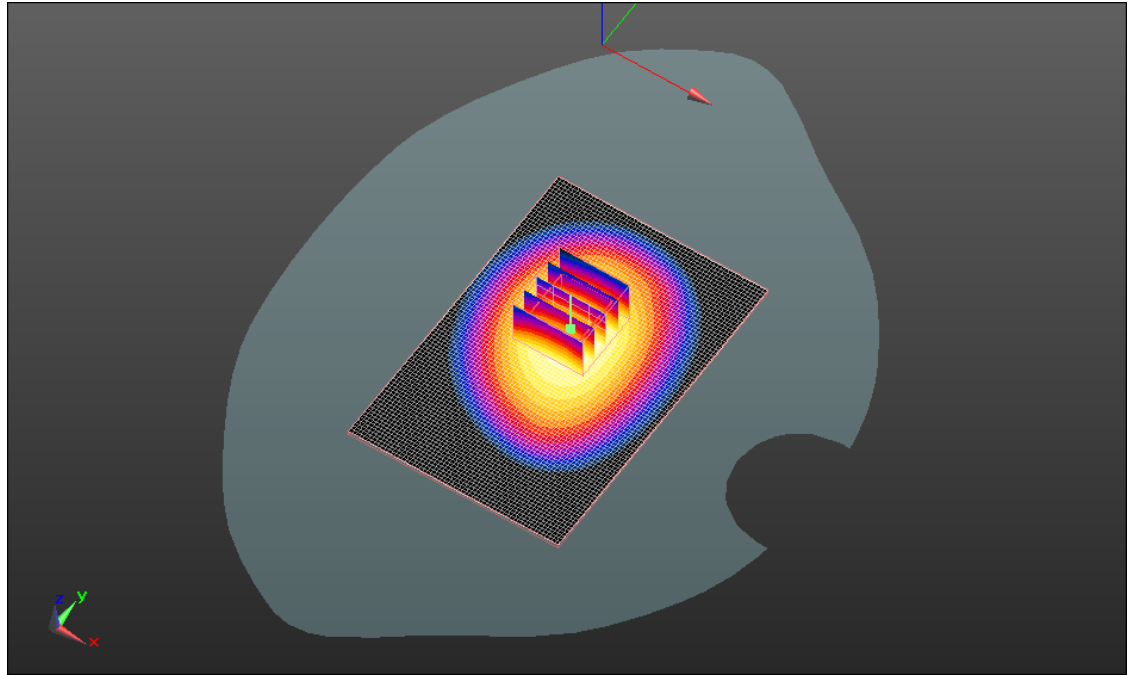
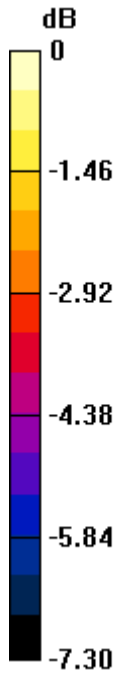
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.750mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>38(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 5/27/2011 10:27:41 PM, Date/Time: 5/27/2011 10:34:33 PM

Test Laboratory: RIM Testing Services

## 15mm\_Spacer\_Front\_CDMA850\_mid\_chan\_amb\_temp\_23.9\_liq\_temp\_22.4C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**

Communication System: CDMA 850; Communication System Band: CDMA 2000  
Cellular; Frequency: 836.52 MHz; Communication System PAR: 0 dB  
Medium parameters used (interpolated):  $f = 836.52$  MHz;  $\sigma = 0.986$  mho/m;  $\epsilon_r = 53.092$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.620 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 18.460 V/m; Power Drift = 2.04 dB  
Peak SAR (extrapolated) = 0.765 W/kg  
**SAR(1 g) = 0.590 mW/g; SAR(10 g) = 0.433 mW/g**

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

Maximum value of SAR (measured) = 0.618 mW/g

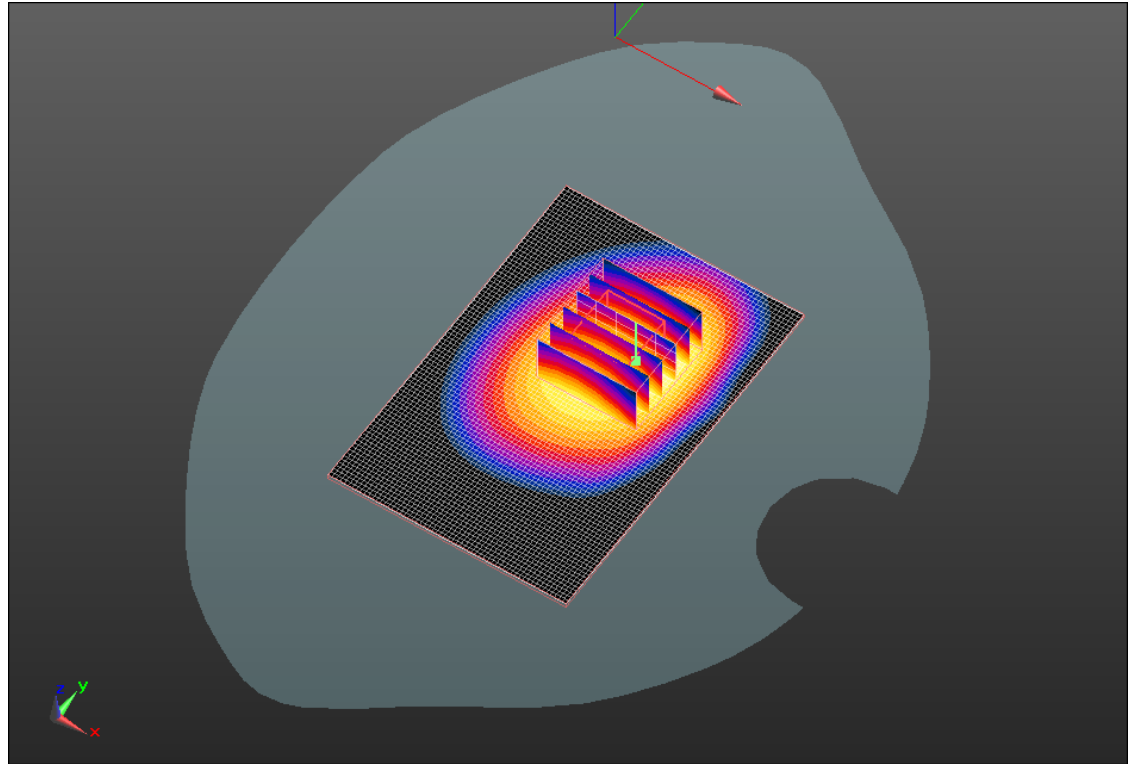
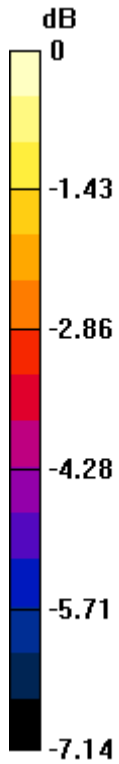
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.620mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>40(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 5/27/2011 10:14:07 PM, Date/Time: 5/27/2011 10:21:00 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_CDMA850\_mid\_chan\_amb\_temp\_23.7\_liq\_temp\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**

Communication System: CDMA 850; Communication System Band: CDMA 2000  
Cellular; Frequency: 836.52 MHz; Communication System PAR: 0 dB  
Medium parameters used (interpolated):  $f = 836.52$  MHz;  $\sigma = 0.986$  mho/m;  $\epsilon_r = 53.092$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.645 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 25.879 V/m; Power Drift = -0.13 dB  
Peak SAR (extrapolated) = 0.768 W/kg  
**SAR(1 g) = 0.603 mW/g; SAR(10 g) = 0.446 mW/g**

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

Maximum value of SAR (measured) = 0.643 mW/g



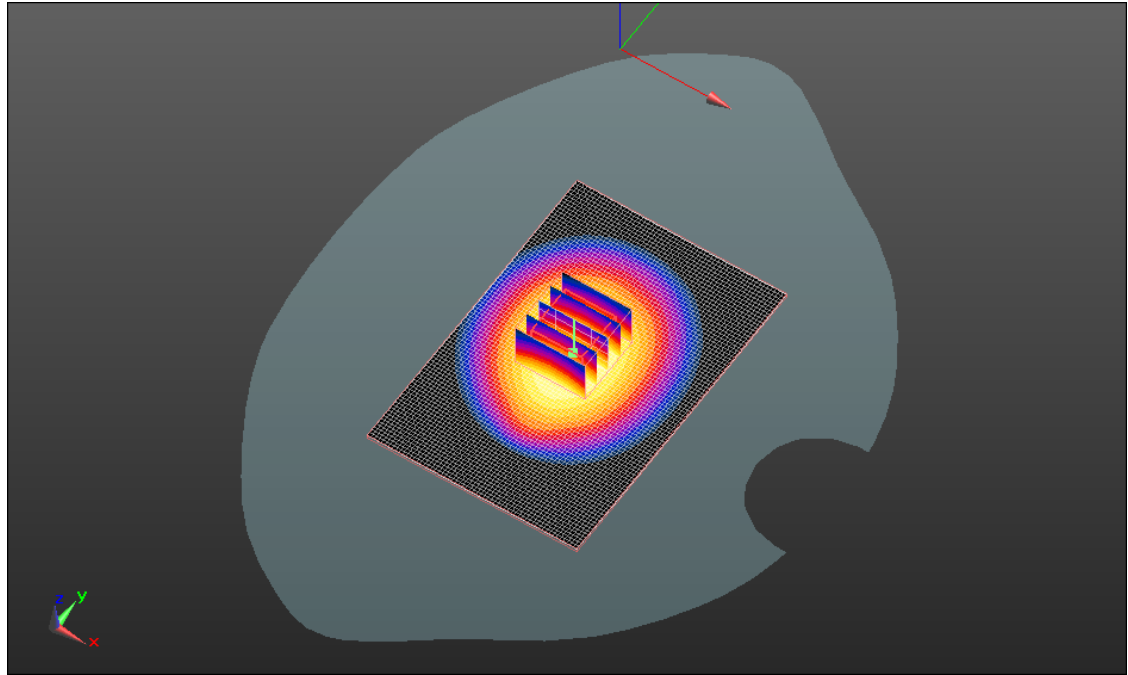
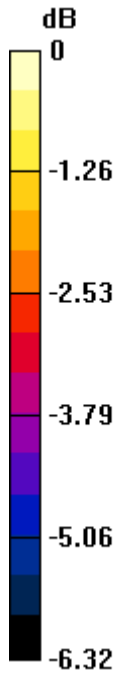
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.640mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>42(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 5/27/2011 10:45:11 PM, Date/Time: 5/27/2011 10:52:05 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_Headset\_CDMA850\_low\_chan\_amb\_temp\_24.1\_li  
q\_temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**


Communication System: CDMA 850; Communication System Band: CDMA 2000  
Cellular; Frequency: 824.7 MHz; Communication System PAR: 0 dB  
Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.974$  mho/m;  $\epsilon_r = 53.235$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

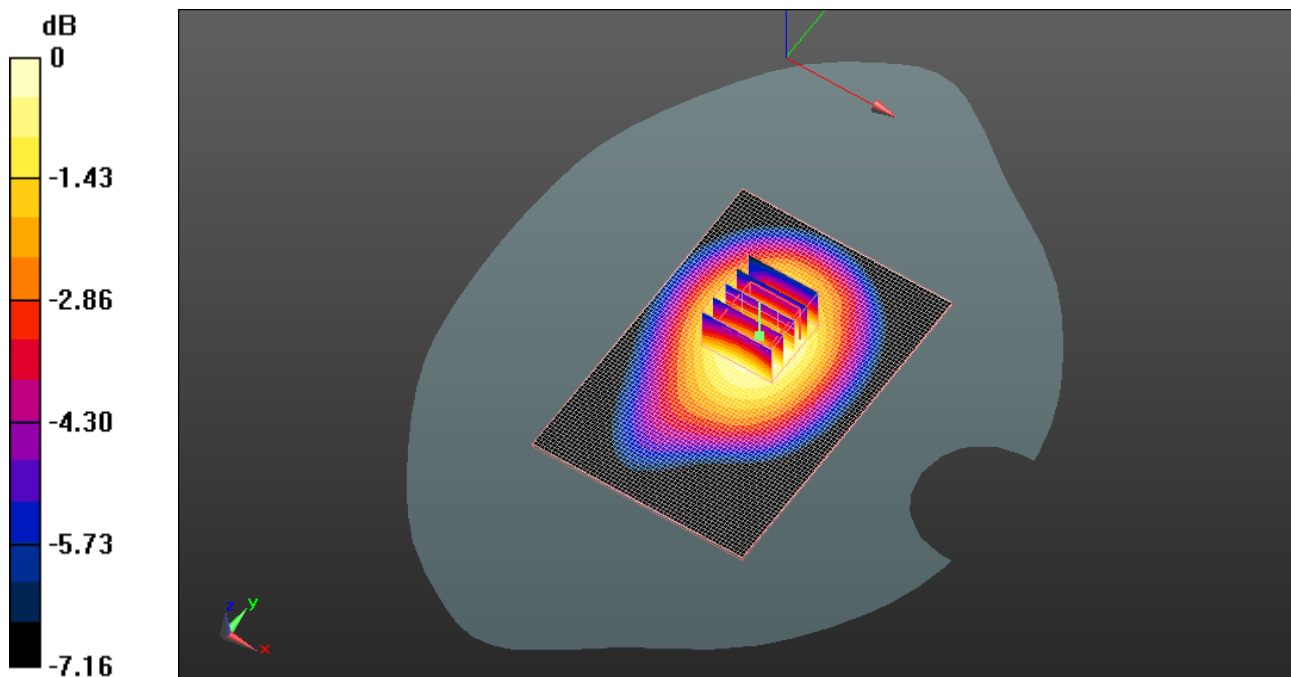
DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)


**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.570 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 23.139 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 1.897 W/kg  
**SAR(1 g) = 0.532 mW/g; SAR(10 g) = 0.388 mW/g**  
Maximum value of SAR (measured) = 0.565 mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>43(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>



0 dB = 0.560mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>44(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 5/5/2011 12:46:16 PM, Date/Time: 5/5/2011 12:53:12 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_CDMA1900\_mid\_chan\_amb\_temp\_23.6\_liq\_temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**

Communication System: CDMA 1900; Frequency: 1880 MHz; Communication System

PAR: 0 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.529$  mho/m;  $\epsilon_r = 51.114$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.578 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.264 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.786 W/kg

**SAR(1 g) = 0.525 mW/g; SAR(10 g) = 0.329 mW/g**

Maximum value of SAR (measured) = 0.569 mW/g

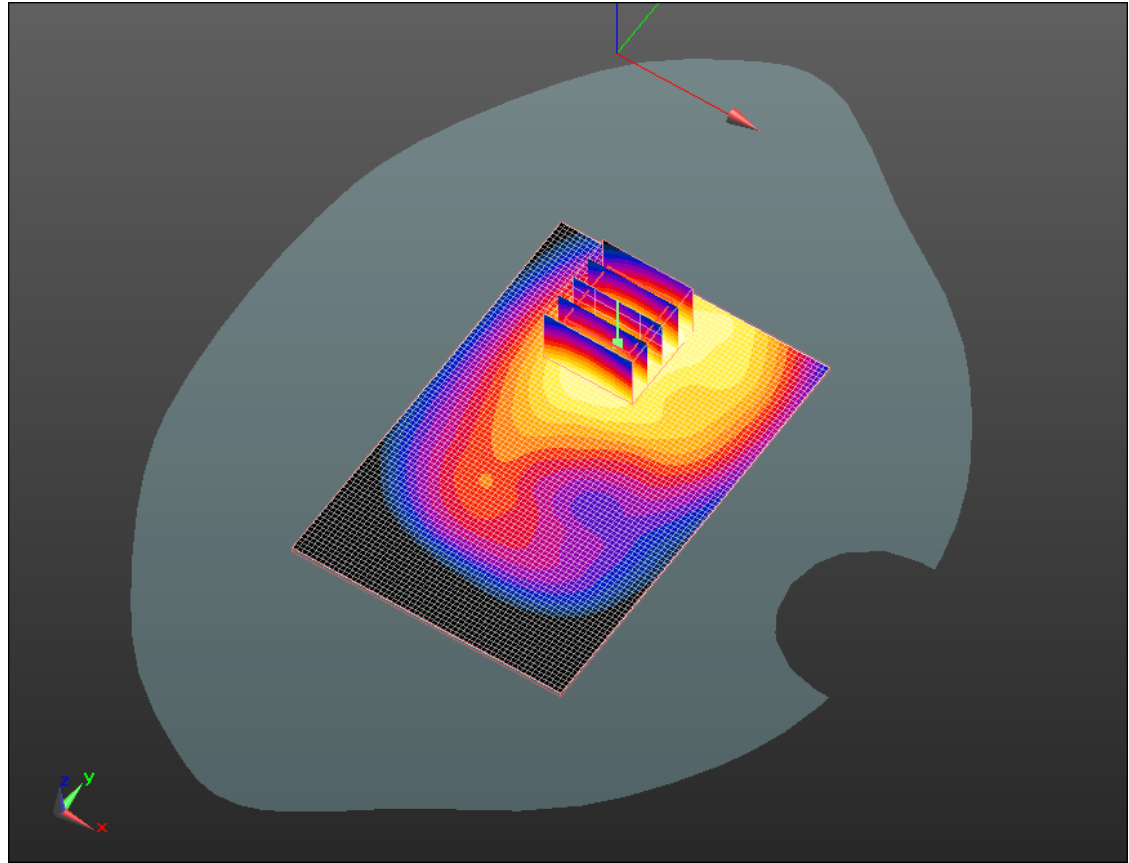
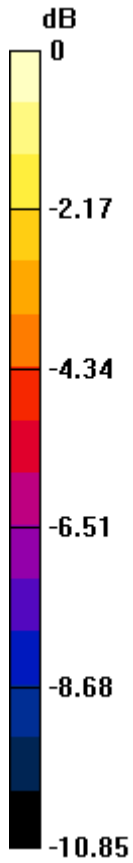
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.570mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>46(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 5/5/2011 1:14:20 PM, Date/Time: 5/5/2011 1:21:17 PM

Test Laboratory: RIM Testing Services

## 15mm\_Space\_Front\_CDMA1900\_mid\_chan\_amb\_temp\_23.5\_liq\_temp\_22.5C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**

Communication System: CDMA 1900; Frequency: 1880 MHz; Communication System  
PAR: 0 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.529$  mho/m;  $\epsilon_r = 51.114$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.578 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.712 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.794 W/kg

**SAR(1 g) = 0.522 mW/g; SAR(10 g) = 0.317 mW/g**

Maximum value of SAR (measured) = 0.573 mW/g

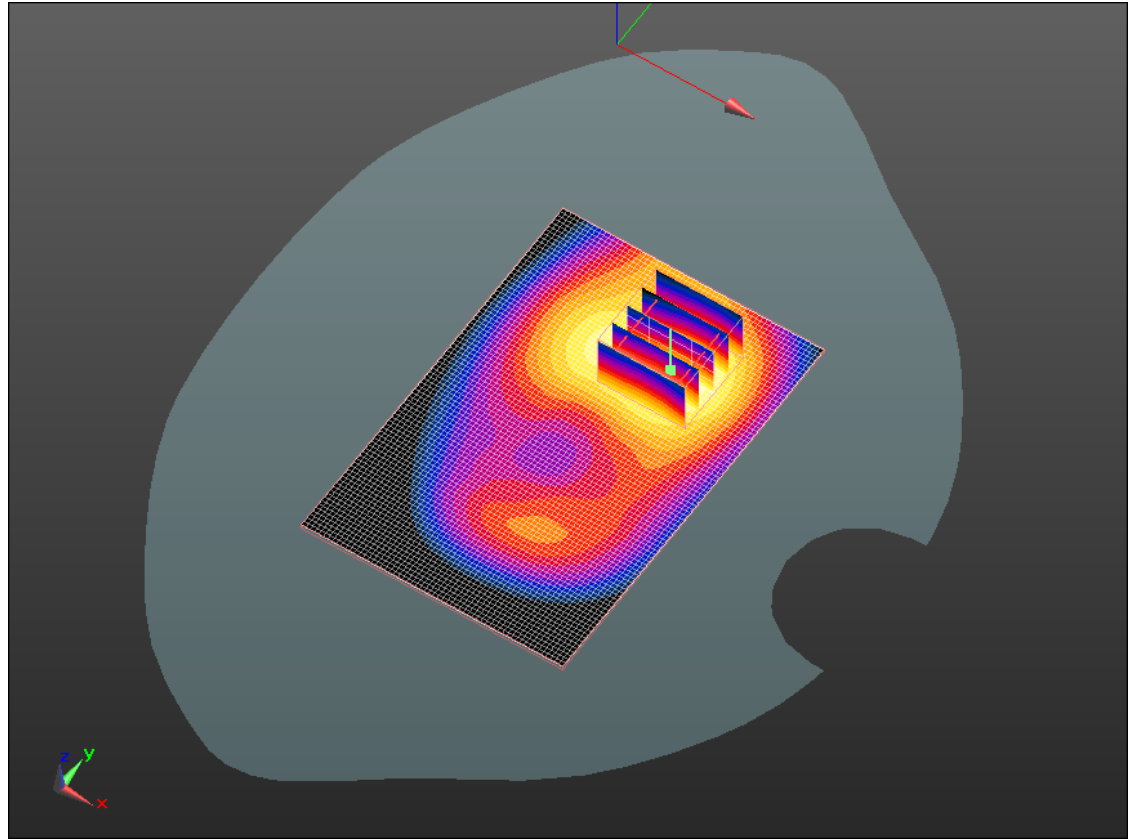
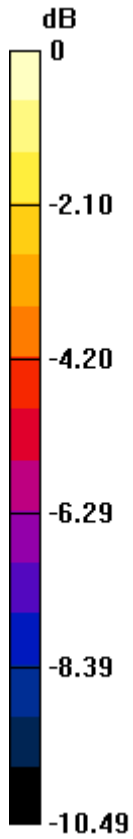
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.570mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>48(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 5/5/2011 1:29:03 PM, Date/Time: 5/5/2011 1:35:58 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_CDMA1900\_mid\_chan\_amb\_temp\_23.5\_liq\_tem p\_22.4C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**

Communication System: CDMA 1900; Frequency: 1880 MHz; Communication System  
PAR: 0 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.529$  mho/m;  $\epsilon_r = 51.114$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.388 mW/g

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

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 7.608 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.518 W/kg

**SAR(1 g) = 0.353 mW/g; SAR(10 g) = 0.224 mW/g**

Maximum value of SAR (measured) = 0.376 mW/g



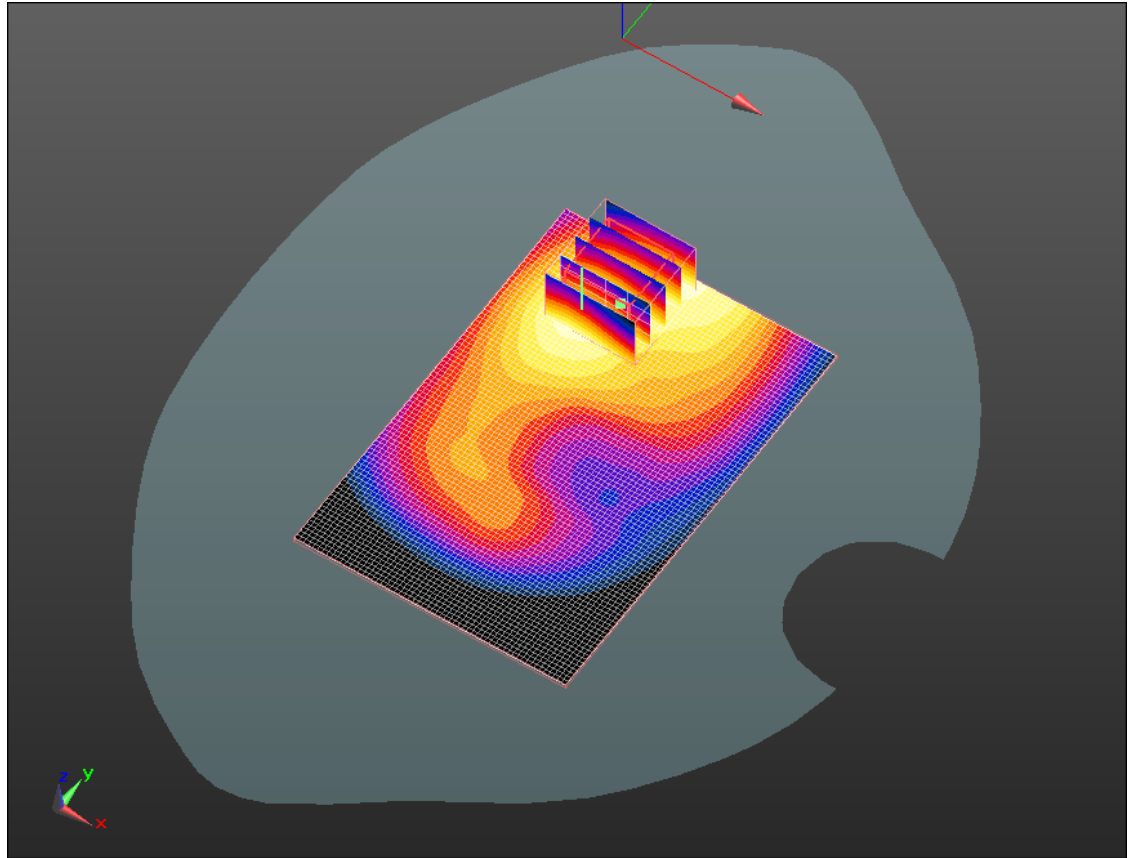
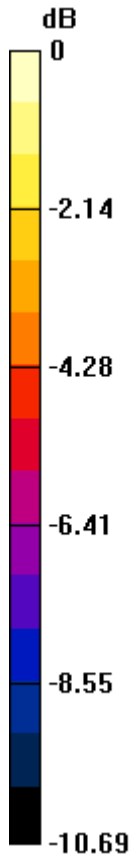
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.380mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>50(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 5/5/2011 2:12:05 PM, Date/Time: 5/5/2011 2:19:00 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_Headset\_CDMA1900\_mid\_chan\_amb\_temp\_23.5\_**  
**liq\_temp\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7**

Communication System: CDMA 1900; Frequency: 1880 MHz; Communication System  
PAR: 0 dB

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.529$  mho/m;  $\epsilon_r = 51.114$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.602 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.915 V/m; Power Drift = 0.41 dB

Peak SAR (extrapolated) = 0.855 W/kg

**SAR(1 g) = 0.567 mW/g; SAR(10 g) = 0.347 mW/g**

Maximum value of SAR (measured) = 0.611 mW/g

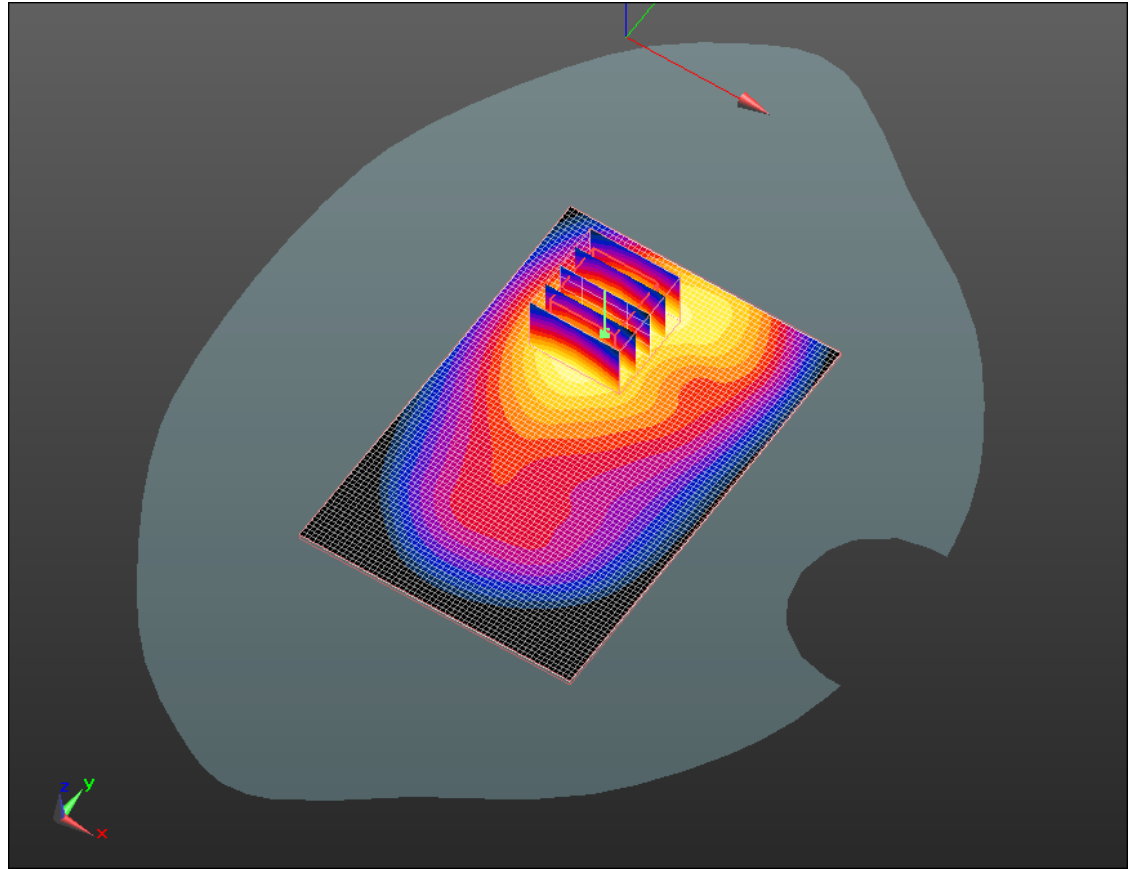
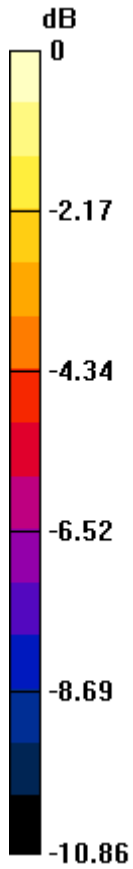
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.610mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>52(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/10/2011 6:53:57 PM, Date/Time: 6/10/2011 7:05:17 PM

Test Laboratory: RIM Testing Services

## 15mm\_Spacer\_Back\_CDMA1900\_mid\_chan\_amb\_temp\_23.4\_liq\_temp\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: CDMA 1900; Communication System Band: CDMA 2000 PCS; Frequency: 1880 MHz; Communication System PAR: 0 dB  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.499$  mho/m;  $\epsilon_r = 51.301$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x81x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.608 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 9.838 V/m; Power Drift = 0.25 dB  
Peak SAR (extrapolated) = 1.055 W/kg  
**SAR(1 g) = 0.680 mW/g; SAR(10 g) = 0.427 mW/g**  
Maximum value of SAR (measured) = 0.733 mW/g

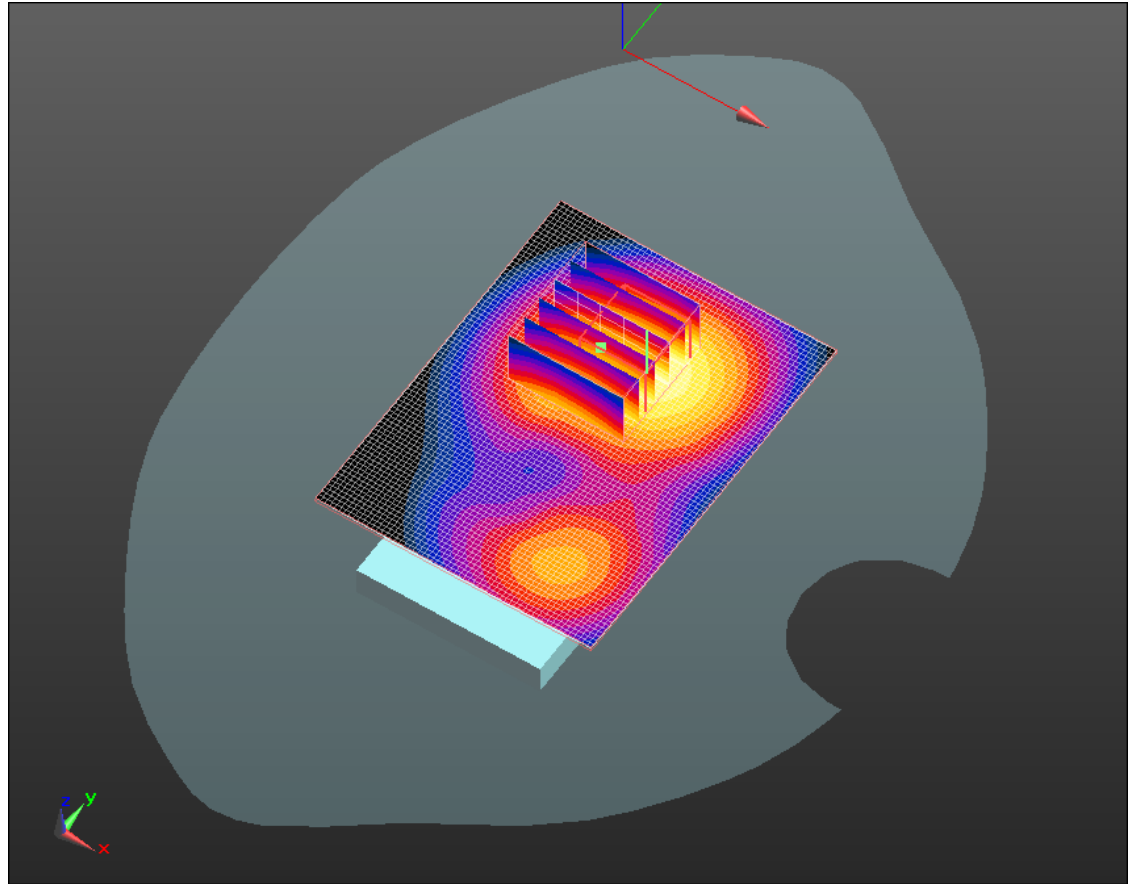
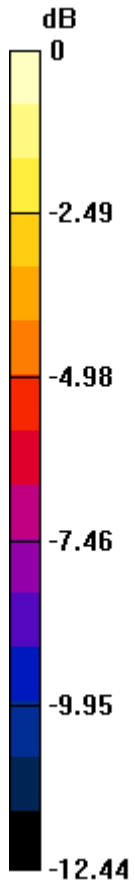
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.730mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>54(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/10/2011 7:35:18 PM, Date/Time: 6/10/2011 7:41:39 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Front\_CDMA1900\_mid\_chan\_amb\_temp\_23.2\_liq\_temp  
\_22.1C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: CDMA 1900; Communication System Band: CDMA 2000  
PCS; Frequency: 1880 MHz; Communication System PAR: 0 dB  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.499$  mho/m;  $\epsilon_r = 51.301$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x81x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.642 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 9.146 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 0.902 W/kg  
**SAR(1 g) = 0.601 mW/g; SAR(10 g) = 0.375 mW/g**  
Maximum value of SAR (measured) = 0.649 mW/g

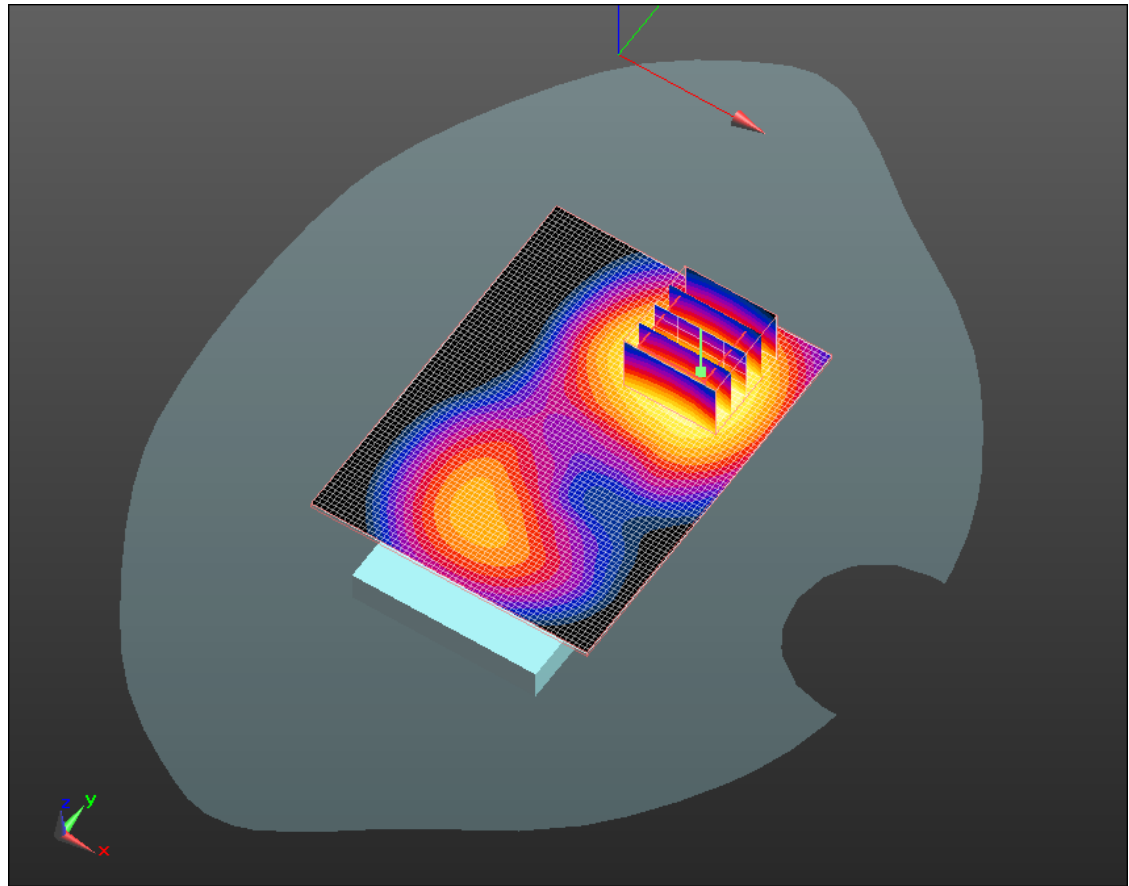
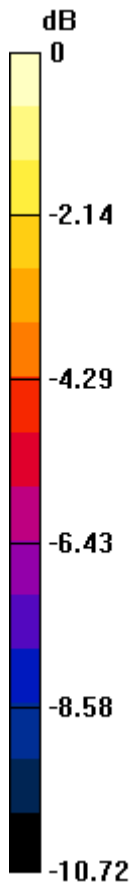
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.650mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>56(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/10/2011 7:14:22 PM, Date/Time: 6/10/2011 7:26:34 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_CDMA1900\_mid\_chan\_amb\_temp\_23.2\_liq\_tem p\_22.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: CDMA 1900; Communication System Band: CDMA 2000  
PCS; Frequency: 1880 MHz; Communication System PAR: 0 dB  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.499$  mho/m;  $\epsilon_r = 51.301$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x81x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.437 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 8.662 V/m; Power Drift = -0.05 dB  
Peak SAR (extrapolated) = 0.619 W/kg  
**SAR(1 g) = 0.412 mW/g; SAR(10 g) = 0.263 mW/g**  
Maximum value of SAR (measured) = 0.437 mW/g



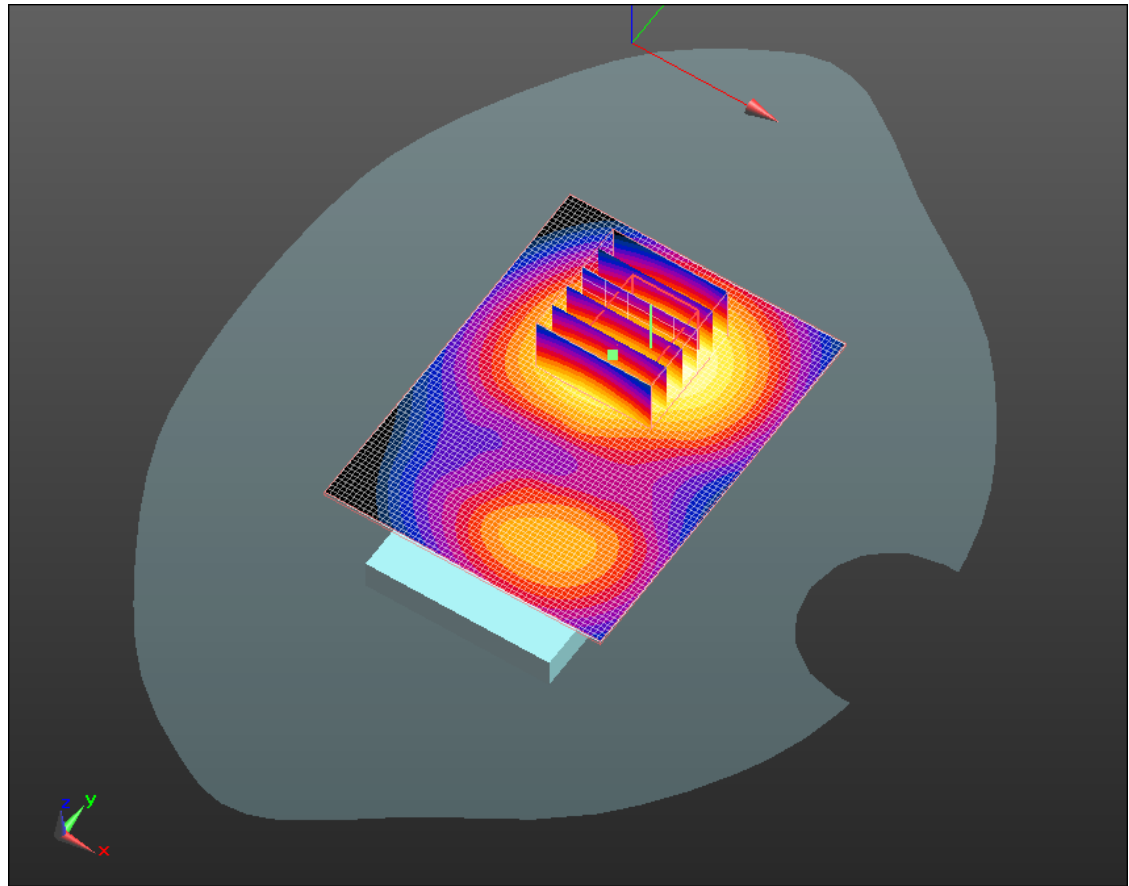
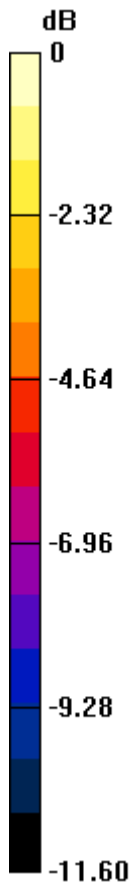
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.440mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>58(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/10/2011 7:48:50 PM, Date/Time: 6/10/2011 7:55:11 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_Headset\_CDMA1900\_mid\_chan\_amb\_temp\_23.2\_**  
**liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: CDMA 1900; Communication System Band: CDMA 2000  
PCS; Frequency: 1880 MHz; Communication System PAR: 0 dB  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.499$  mho/m;  $\epsilon_r = 51.301$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x81x1):** Measurement grid:  
dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.758 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 10.558 V/m; Power Drift = -0.04 dB  
Peak SAR (extrapolated) = 1.011 W/kg  
**SAR(1 g) = 0.676 mW/g; SAR(10 g) = 0.423 mW/g**  
Maximum value of SAR (measured) = 0.741 mW/g

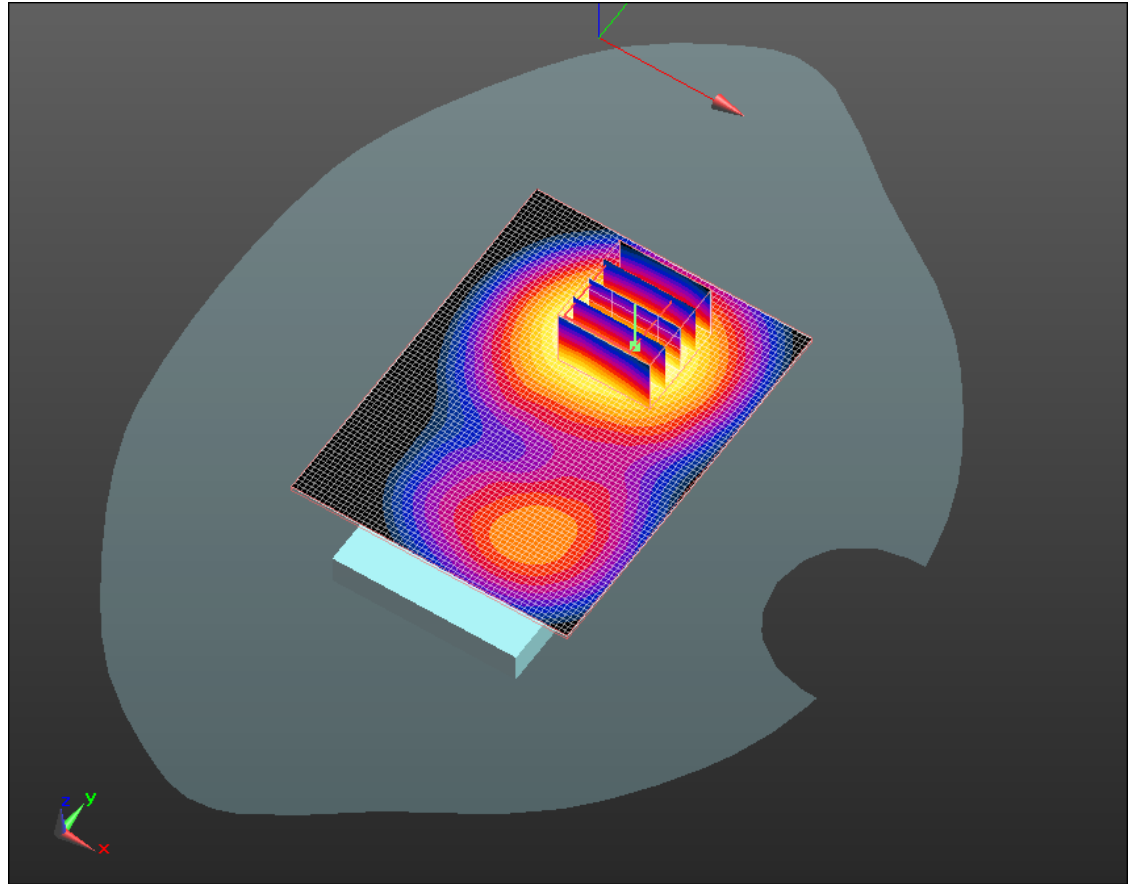
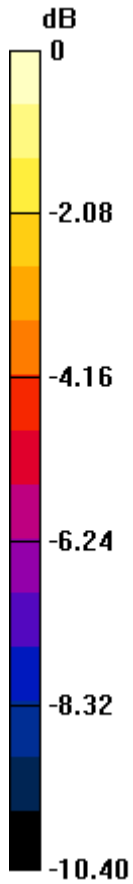
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.740mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>60(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/24/2011 8:29:33 PM, Date/Time: 6/24/2011 8:36:26 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_802.11b\_high\_chan\_amb\_temp\_23.4\_liq\_temp\_22**  
**.3C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: 802.11 b (2450); Communication System Band: 802.11 b;  
Frequency: 2462 MHz; Communication System PAR: 0 dB  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.892$  mho/m;  $\epsilon_r = 50.43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.074 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 4.137 V/m; Power Drift = 0.47 dB  
Peak SAR (extrapolated) = 0.132 W/kg  
**SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.035 mW/g**

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

Maximum value of SAR (measured) = 0.074 mW/g

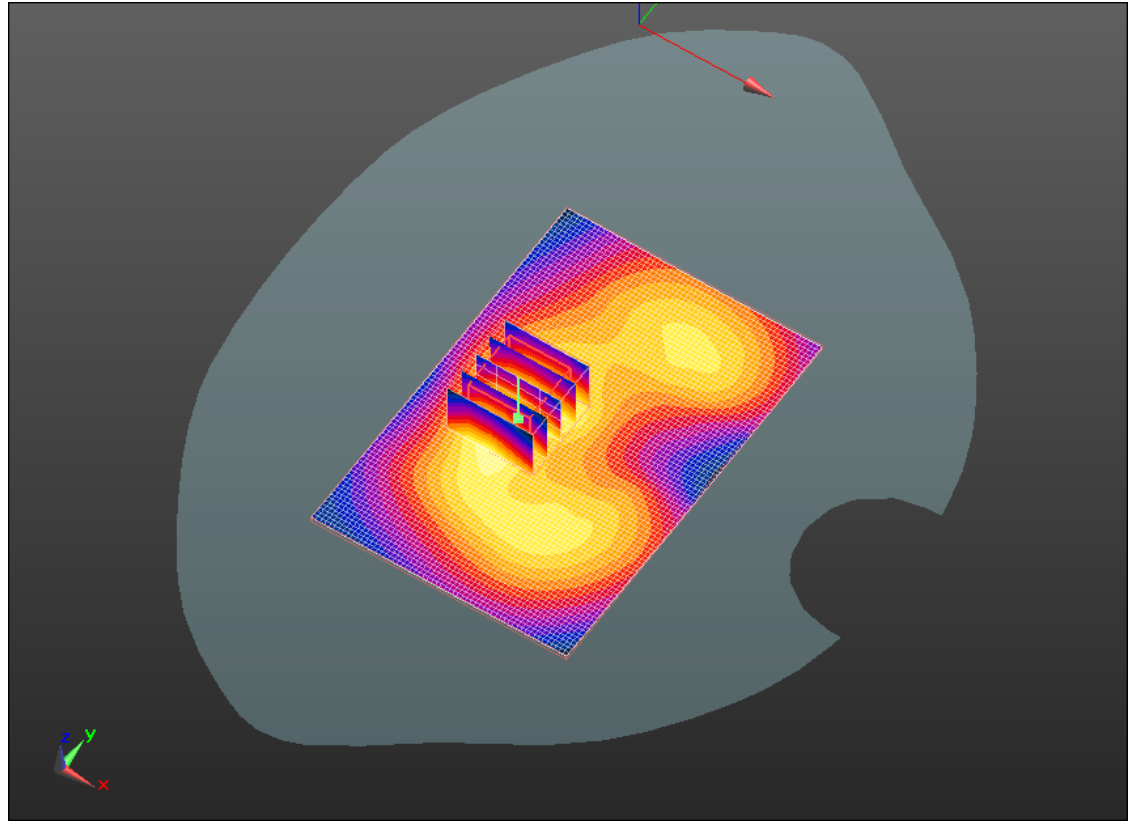
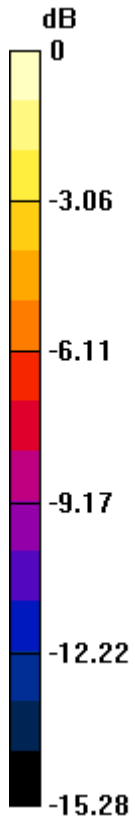
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.070mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>62(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/24/2011 8:42:58 PM, Date/Time: 6/24/2011 8:49:51 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Front\_802.11b\_high\_chan\_amb\_temp\_23.3\_liq\_temp\_22  
.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: 802.11 b (2450); Communication System Band: 802.11 b;  
Frequency: 2462 MHz; Communication System PAR: 0 dB  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.892$  mho/m;  $\epsilon_r = 50.43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)  
Maximum value of SAR (interpolated) = 0.018 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 1.064 V/m; Power Drift = 0.45 dB  
Peak SAR (extrapolated) = 0.029 W/kg  
**SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00898 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)  
Maximum value of SAR (measured) = 0.017 mW/g

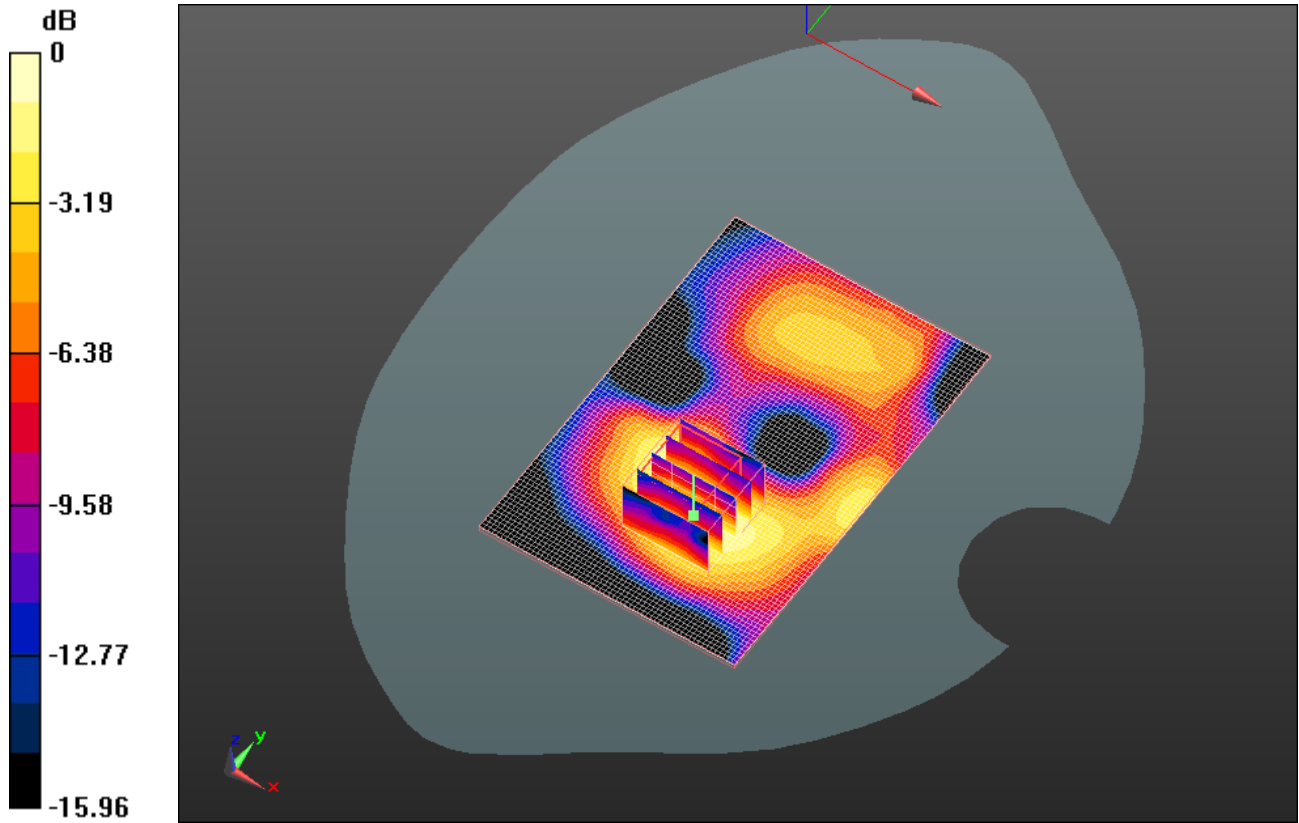
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.020mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>64(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/24/2011 8:56:44 PM, Date/Time: 6/24/2011 9:03:35 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_802.11b\_high\_chan\_amb\_temp\_23.2\_liq\_temp\_2 2.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: 802.11 b (2450); Communication System Band: 802.11 b;  
Frequency: 2462 MHz; Communication System PAR: 0 dB  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.892$  mho/m;  $\epsilon_r = 50.43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.044 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.366 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.075 W/kg

**SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.022 mW/g**

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

Maximum value of SAR (measured) = 0.043 mW/g



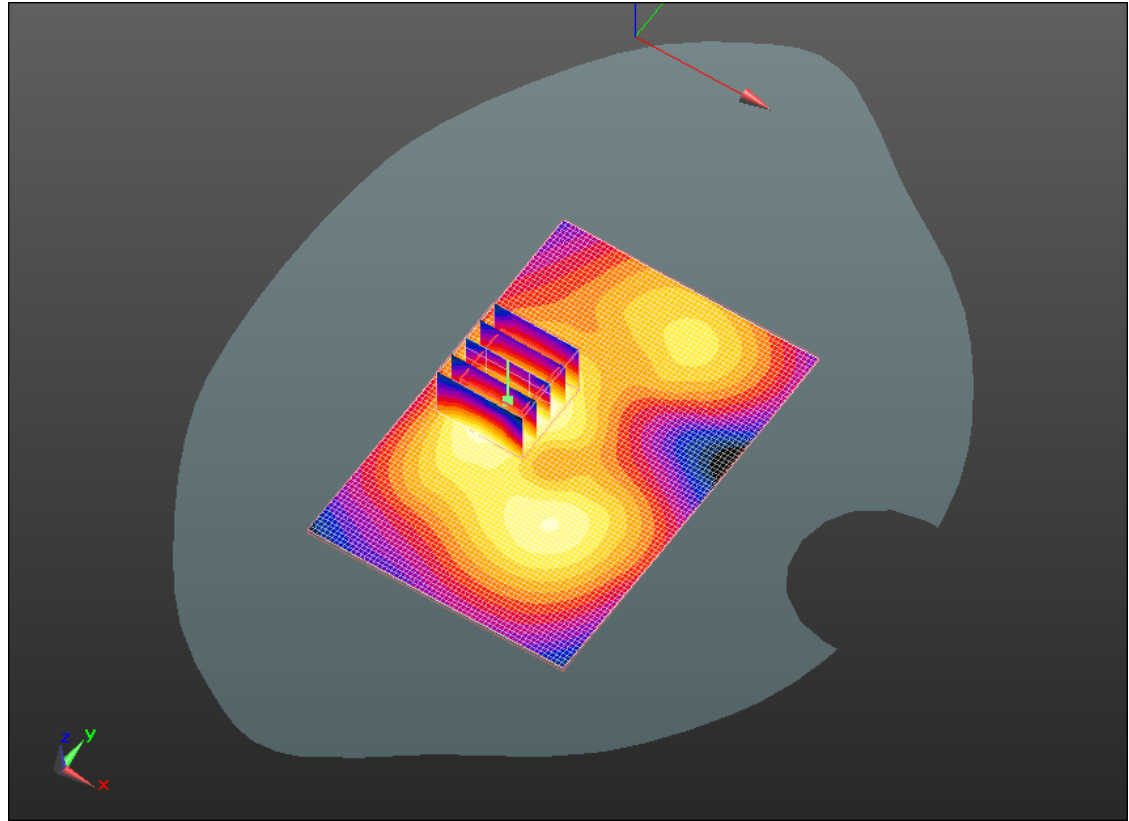
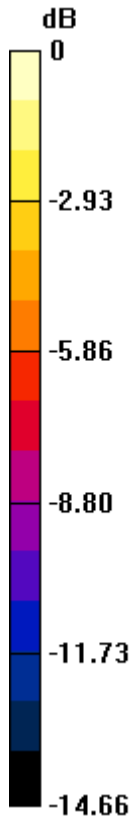
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.040mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>66(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/24/2011 9:09:53 PM, Date/Time: 6/24/2011 9:16:45 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_Headset\_802.11b\_high\_chan\_amb\_temp\_23.2\_liq  
\_temp\_22.1C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: 802.11 b (2450); Communication System Band: 802.11 b;  
Frequency: 2462 MHz; Communication System PAR: 0 dB  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.892$  mho/m;  $\epsilon_r = 50.43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)  
Maximum value of SAR (interpolated) = 0.067 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 4.188 V/m; Power Drift = -0.21 dB  
Peak SAR (extrapolated) = 0.133 W/kg  
**SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.034 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)  
Maximum value of SAR (measured) = 0.074 mW/g

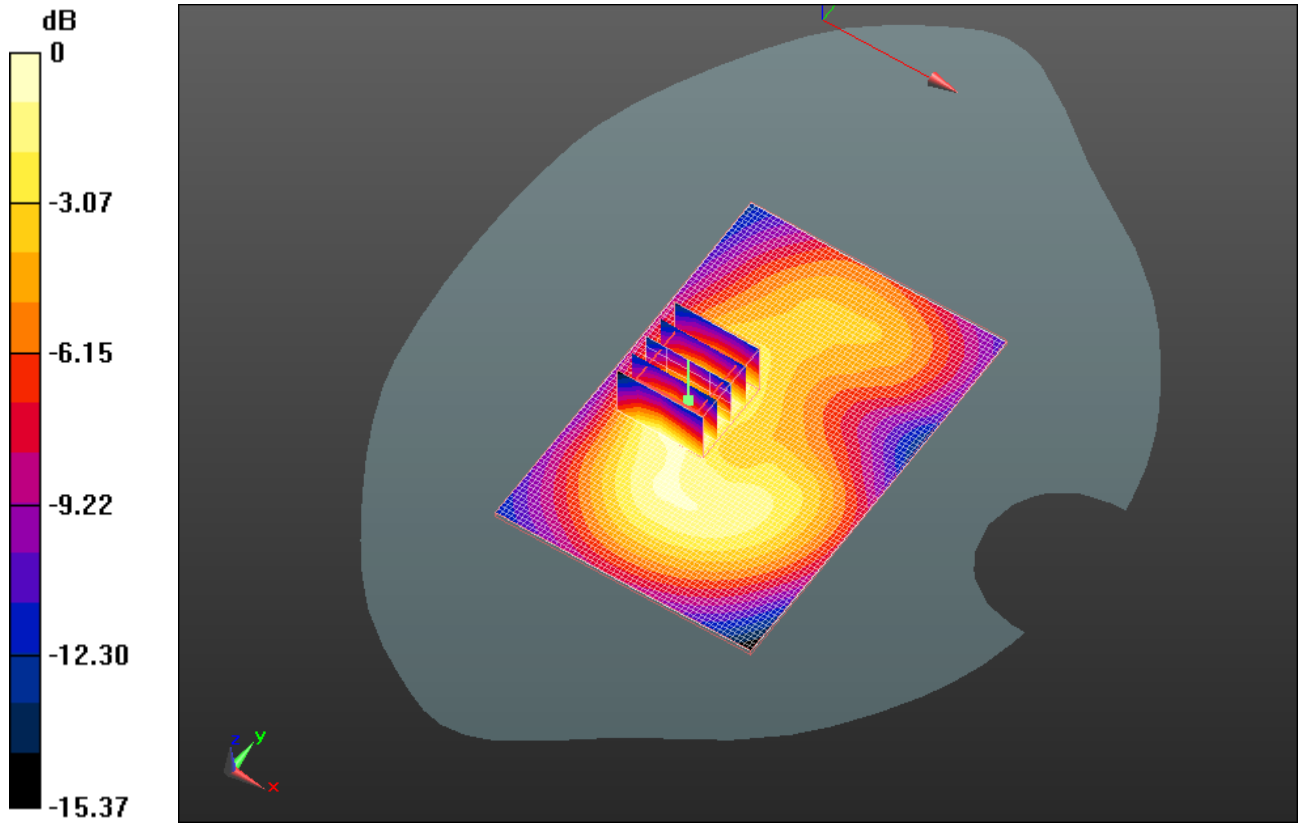
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.070mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>68(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/15/2011 9:34:46 PM, Date/Time: 6/15/2011 9:41:39 PM

Test Laboratory: RIM Testing Services

## 15mm\_Spacer\_Back\_Bluetooth\_mid\_chan\_amb\_temp\_23.7\_liq\_temp\_2 2.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: Bluetooth; Frequency: 2441 MHz; Communication System  
PAR: 0 dB

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 2.021$  mho/m;  $\epsilon_r = 50.158$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.00278 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (7x6x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.016 V/m; Power Drift = 2.58 dB

Peak SAR (extrapolated) = 0.00603 W/kg

**SAR(1 g) = 0.00159 mW/g; SAR(10 g) = 0.000801 mW/g**

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

Maximum value of SAR (measured) = 0.00179 mW/g

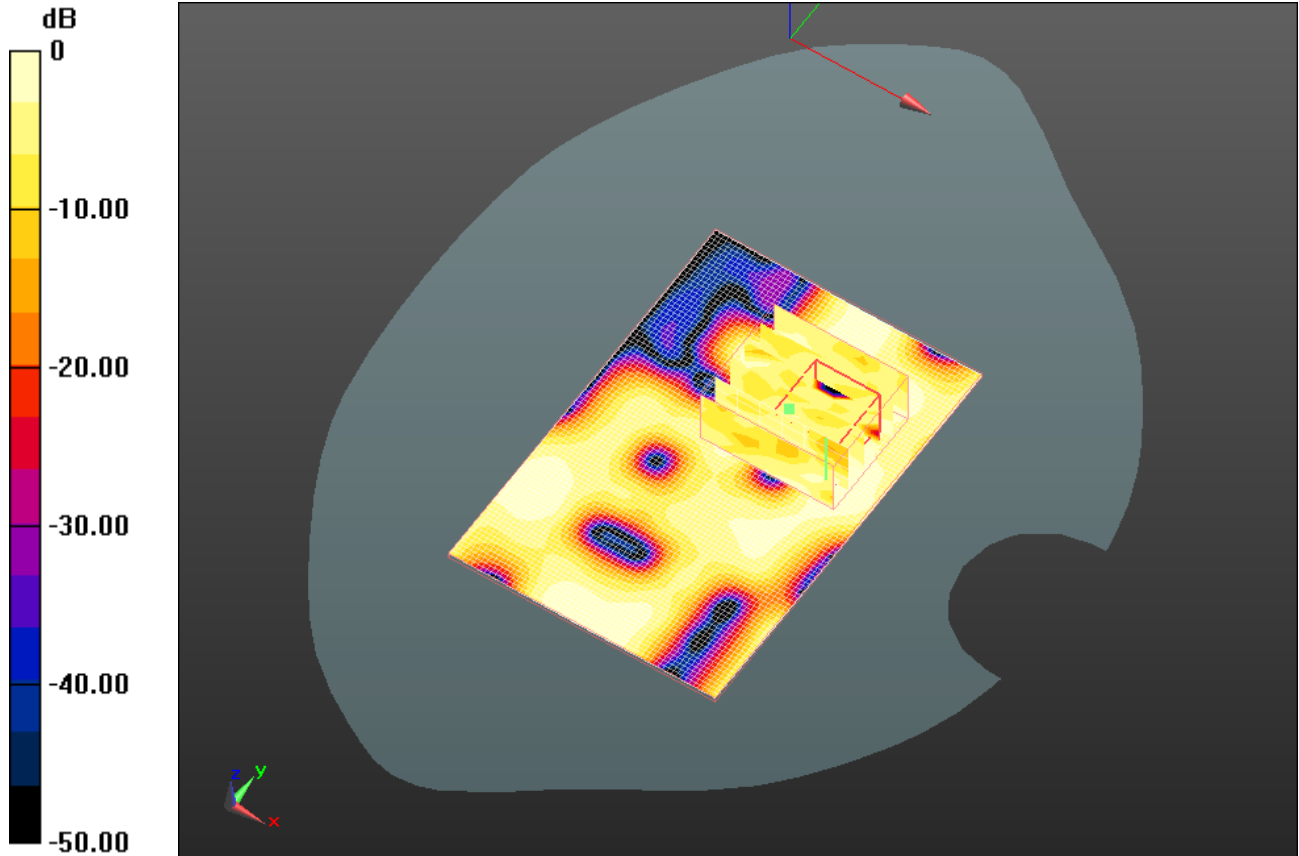
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.0018mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>70(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 6/15/2011 9:51:25 PM, Date/Time: 6/15/2011 9:58:15 PM

Test Laboratory: RIM Testing Services

## Vertical\_Holster\_Back\_Bluetooth\_mid\_chan\_amb\_temp\_23.7\_liq\_temp\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945**

Communication System: Bluetooth; Frequency: 2441 MHz; Communication System

PAR: 0 dB

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 2.021$  mho/m;  $\epsilon_r = 50.158$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.00325 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (7x6x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.225 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.00479 W/kg

**SAR(1 g) = 0.00145 mW/g; SAR(10 g) = 0.000831 mW/g**

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

Maximum value of SAR (measured) = 0.00199 mW/g

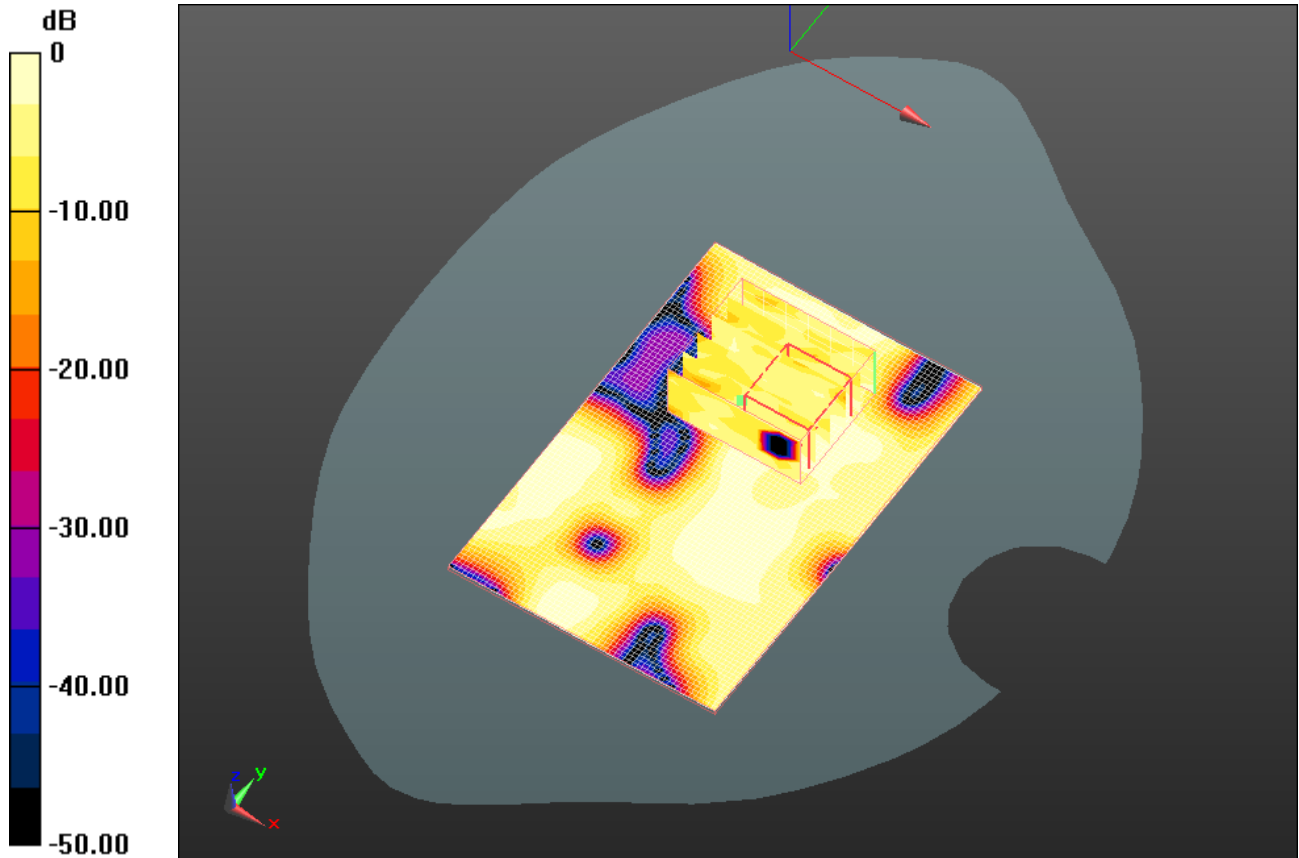
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**

Test Report No  
**RTS-2604-1106-84A**

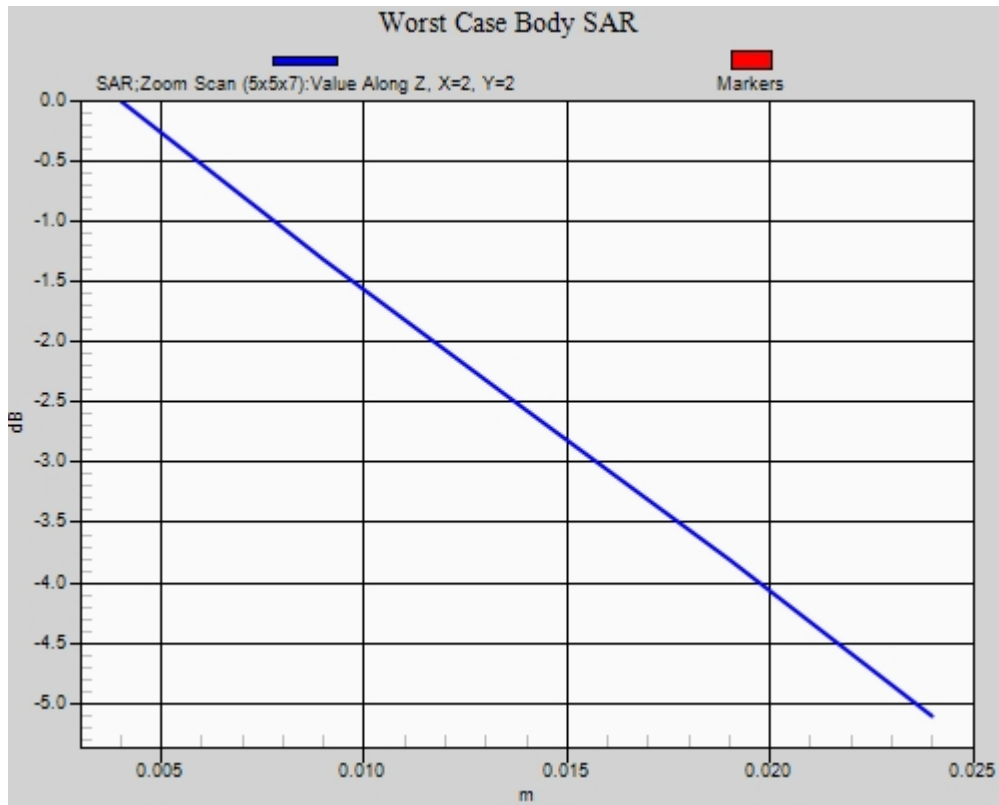
FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**




0 dB = 0.002mW/g

**Z axis plot for the worst case body configuration:**





	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>73(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 10/5/2011 2:30:41 PM, Date/Time: 10/5/2011 2:37:38 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_CDMA850\_low\_chan\_amb\_temp\_25.0\_liq\_temp\_2**

**2.8C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3301C631**

Communication System: CDMA 850; Frequency: 824.7 MHz

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.983$  mho/m;  $\epsilon_r = 54.32$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 1.020 mW/g

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

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 32.201 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.324 W/kg

**SAR(1 g) = 0.959 mW/g; SAR(10 g) = 0.690 mW/g**

Maximum value of SAR (measured) = 1.088 mW/g

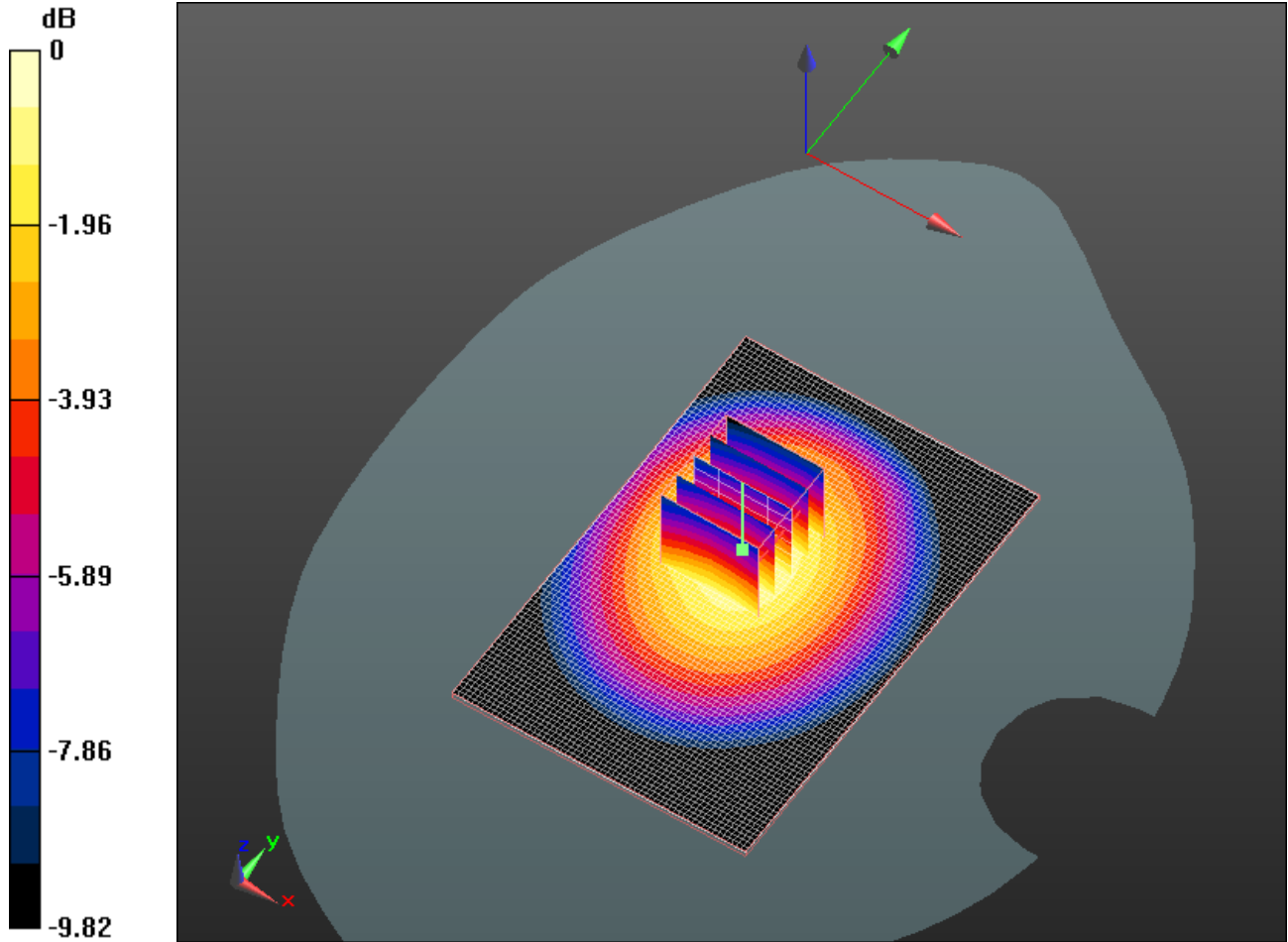
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 1.090mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>75(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 8/31/2011 9:58:29 PM, Date/Time: 8/31/2011 10:05:22 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_back\_CDMA\_1700\_AWS\_mid\_chan\_amb\_temp\_22.9\_liq  
\_temp\_22.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E9E38**

Communication System: CDMA AWS 1700; Communication System Band: AWS 1700 MHz; Frequency: 1732.5 MHz; Communication System PAR: 0 dB  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.507$  mho/m;  $\epsilon_r = 53.731$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.670 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 12.591 V/m; Power Drift = -0.08 dB  
Peak SAR (extrapolated) = 0.904 W/kg  
**SAR(1 g) = 0.615 mW/g; SAR(10 g) = 0.381 mW/g**

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

Maximum value of SAR (measured) = 0.682 mW/g

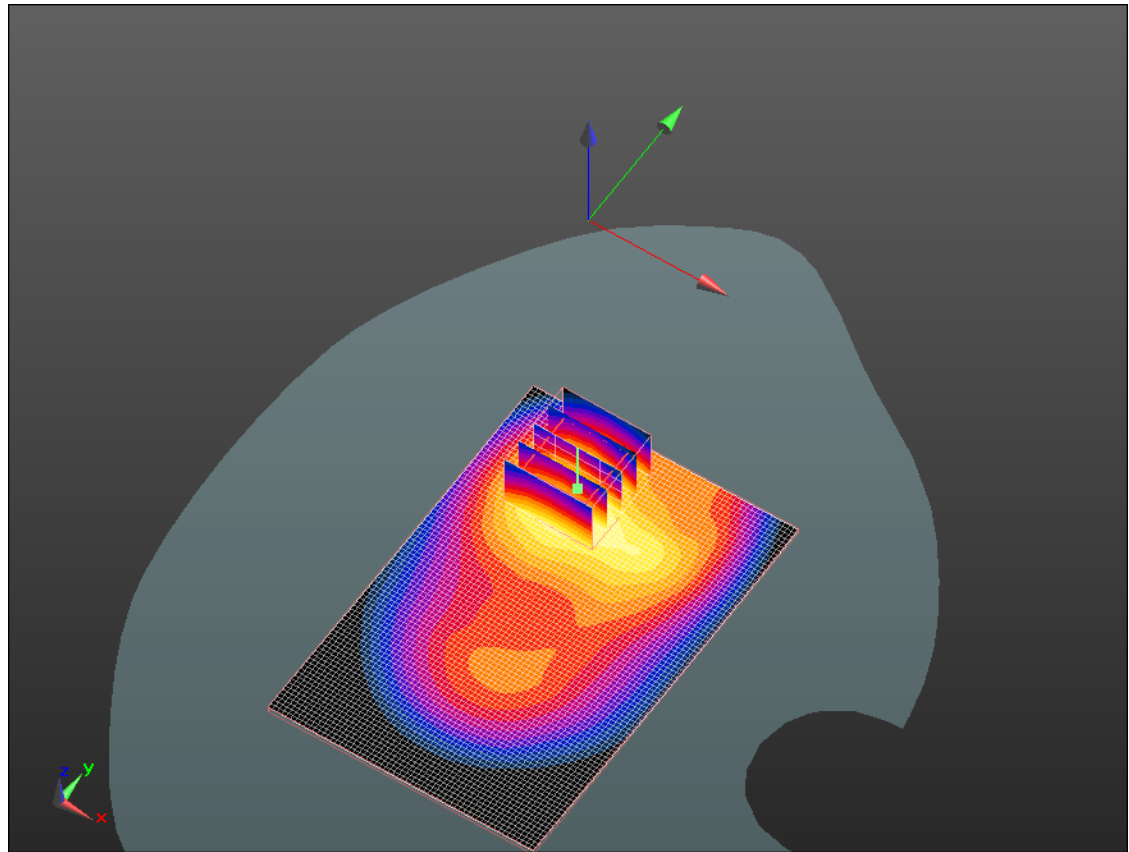
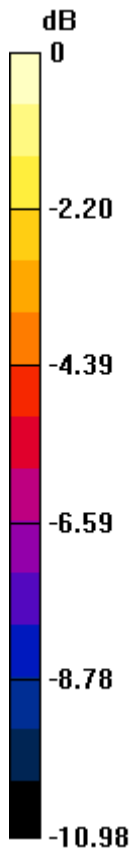
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.680mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>77(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 8/31/2011 9:43:20 PM, Date/Time: 8/31/2011 9:50:12 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Front\_CDMA\_1700\_AWS\_mid\_chan\_amb\_temp\_22.9\_li  
q\_temp\_22.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E9E38**

Communication System: CDMA AWS 1700; Communication System Band: AWS 1700 MHz; Frequency: 1732.5 MHz; Communication System PAR: 0 dB  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.507$  mho/m;  $\epsilon_r = 53.731$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:


- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

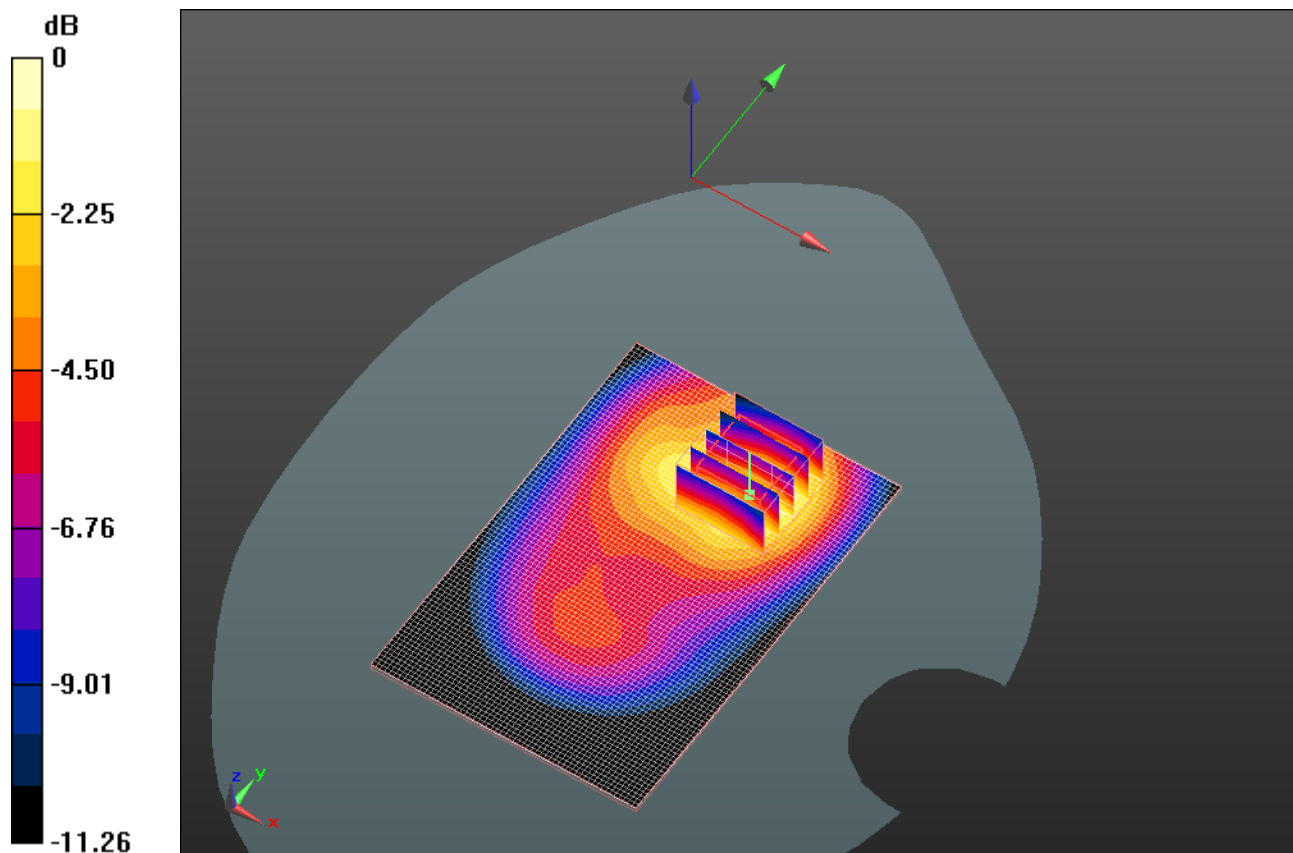
**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)  
Maximum value of SAR (interpolated) = 0.710 mW/g


**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 12.114 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 1.005 W/kg  
**SAR(1 g) = 0.665 mW/g; SAR(10 g) = 0.406 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)  
Maximum value of SAR (measured) = 0.736 mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>78(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>



0 dB = 0.740mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>79(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 8/31/2011 10:14:11 PM, Date/Time: 8/31/2011 10:21:04 PM

Test Laboratory: RIM Testing Services

## Vertical Holster\_Front\_CDMA\_1700\_AWS\_mid\_chan\_amb\_temp\_22.9\_liq\_temp\_22.9C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E9E38**

Communication System: CDMA AWS 1700; Communication System Band: AWS 1700 MHz; Frequency: 1732.5 MHz; Communication System PAR: 0 dB  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.507$  mho/m;  $\epsilon_r = 53.731$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.449 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.238 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.641 W/kg

**SAR(1 g) = 0.421 mW/g; SAR(10 g) = 0.261 mW/g**

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

Maximum value of SAR (measured) = 0.461 mW/g

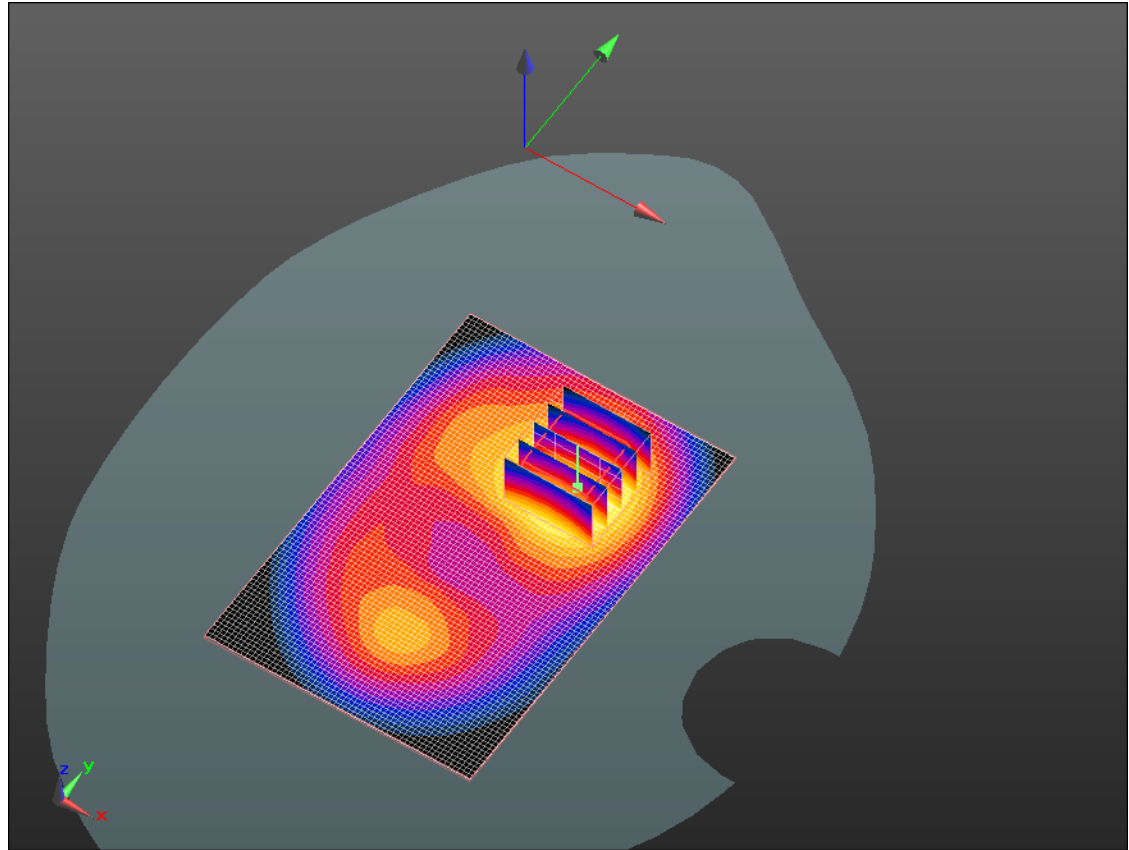
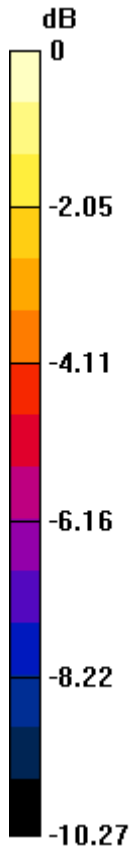
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**

Test Report No  
**RTS-2604-1106-84A**


FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.460mW/g



	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>81(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 8/31/2011 10:30:43 PM, Date/Time: 8/31/2011 10:37:39 PM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Front\_Headset\_CDMA\_1700\_AWS\_mid\_chan\_amb\_tem  
p\_22.9\_liq\_temp\_22.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E9E38**

Communication System: CDMA AWS 1700; Communication System Band: AWS 1700 MHz; Frequency: 1732.5 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.507$  mho/m;  $\epsilon_r = 53.731$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.742 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.902 V/m; Power Drift = 0.28 dB

Peak SAR (extrapolated) = 1.044 W/kg

**SAR(1 g) = 0.686 mW/g; SAR(10 g) = 0.419 mW/g**

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

Maximum value of SAR (measured) = 0.750 mW/g

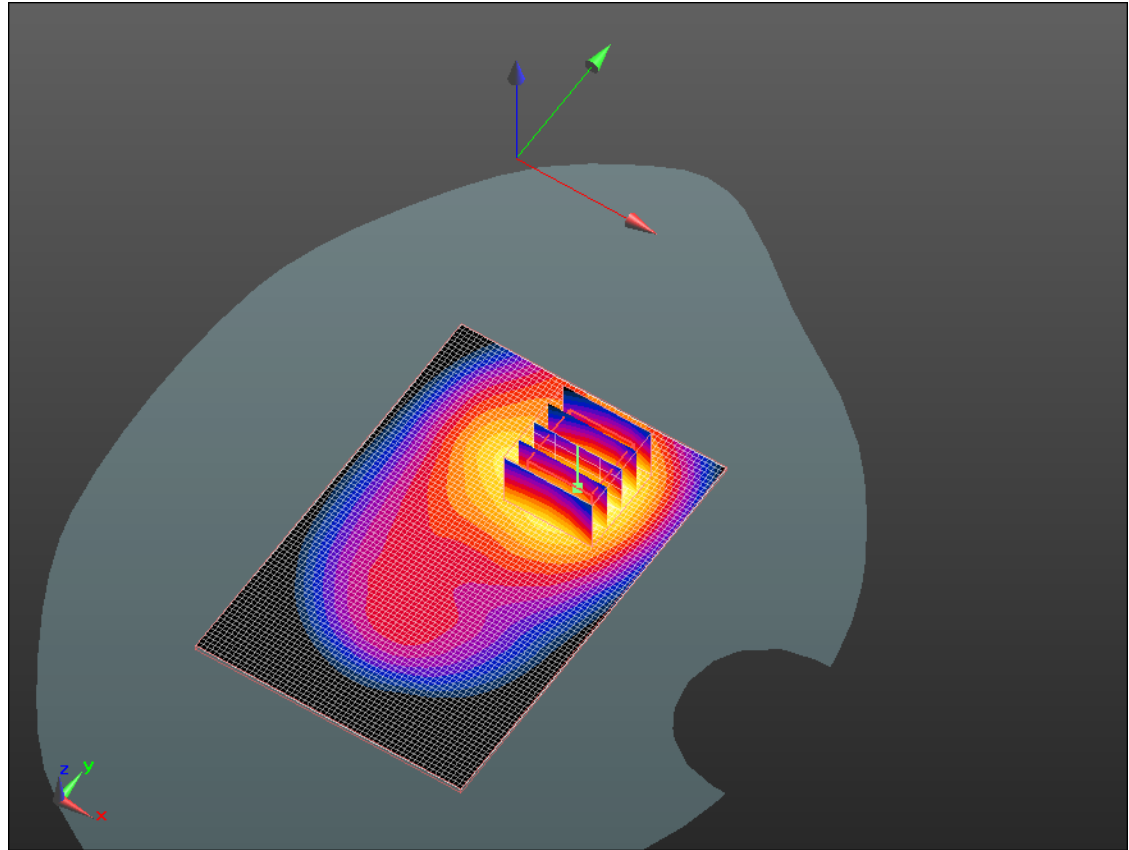
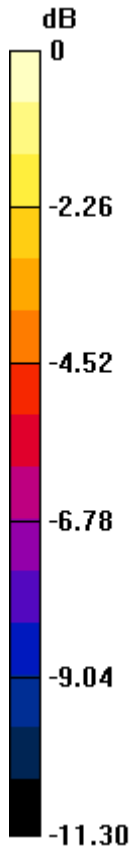
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**


Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.750mW/g

	Document <b>Appendix C for the BlackBerry® Smartphone Model RDR61CW/RDF31CW</b> <b>SAR Report</b>			Page <b>83(85)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>	Test Report No <b>RTS-2604-1106-84A</b>	FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>

Date/Time: 9/30/2011 10:03:57 AM, Date/Time: 9/30/2011 10:10:46 AM

Test Laboratory: RIM Testing Services

**15mm\_Spacer\_Back\_Headset\_CDMA1900\_mid\_chan\_amb\_temp\_22.7\_**  
**liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3301C631**

Communication System: CDMA 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 51.243$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/Touch position -/Area Scan (61x91x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.520 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.270 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.661 W/kg

**SAR(1 g) = 0.432 mW/g; SAR(10 g) = 0.266 mW/g**

Maximum value of SAR (measured) = 0.506 mW/g

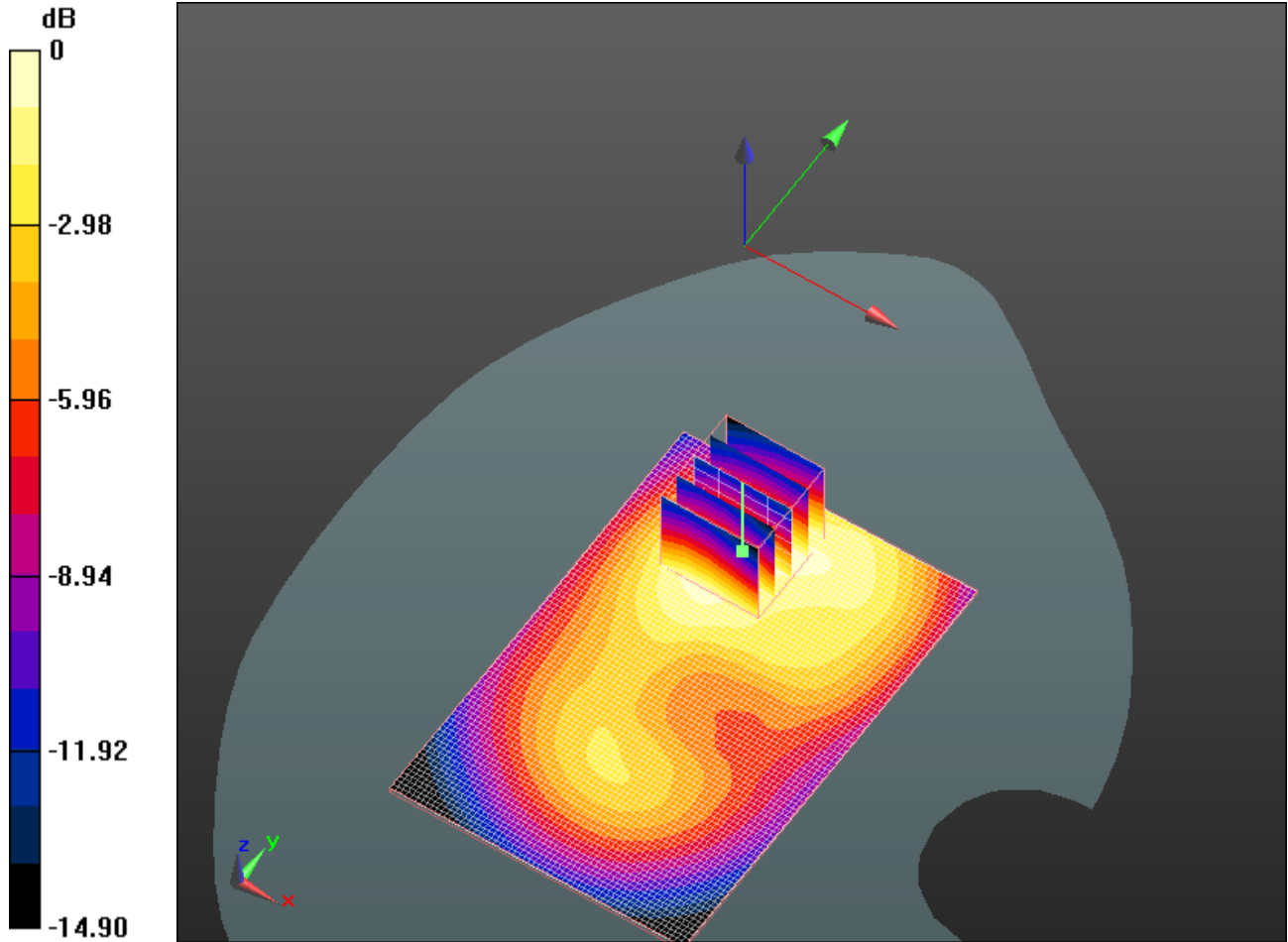
Author Data  
**Andrew Becker**

Dates of Test  
**May 3 – June 28, 2011**  
**August 31 – October 05, 2011**

Test Report No  
**RTS-2604-1106-84A**

FCC ID:  
**L6ARDR60CW**  
**L6ARDF30CW**

IC ID  
**2503A-RDR60CW**  
**2503A-RDF30CW**



0 dB = 0.510mW/g

Author Data <b>Andrew Becker</b>
-------------------------------------

Dates of Test <b>May 3 – June 28, 2011</b> <b>August 31 – October 05, 2011</b>
--

Test Report No <b>RTS-2604-1106-84A</b>
--

FCC ID: <b>L6ARDR60CW</b> <b>L6ARDF30CW</b>
---

IC ID <b>2503A-RDR60CW</b> <b>2503A-RDF30CW</b>
---

**Z axis plot for the worst case body configuration:**

