	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 1(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

APPENDIX C1: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION



Document
Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report

Page
2(41)

Author Data
Andrew Becker

Dates of Test
June 11 – August 16,2013

Test Report No
RTS-6046-1308-39B

FCC ID:
L6ARFX100LW

IC

GPRS 850 (RFX101LW)



Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report		Page 3(41)		
Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW	IC

Date: 6/25/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Body Worn MSL - GPRS 850

Communication System: GPRS 850 (3 slots); Communication System Band: GPRS 850 (3 slots);

Frequency: 836.8 MHz

Medium Parameters used: $f=836.8$ MHz; $\sigma = 0.956$ S/m; $\epsilon_r = 52.829$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Body Worn MSL - GPRS 850/15mm Device Back -

GPRS850_chan190_amb_temp_23.3C_liq_temp_22.2C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 25.788 V/m; **Power Drift = -0.030 dB**

Body Worn MSL - GPRS 850/15mm Device Back -

GPRS850_chan190_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan (26x26x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 25.788 V/m; **Power Drift = -0.030 dB**

Averaged SAR: SAR(1g) = 0.652 W/kg; SAR(10g) = 0.483 W/kg

Maximum value of SAR (interpolated) = 0.858 W/kg

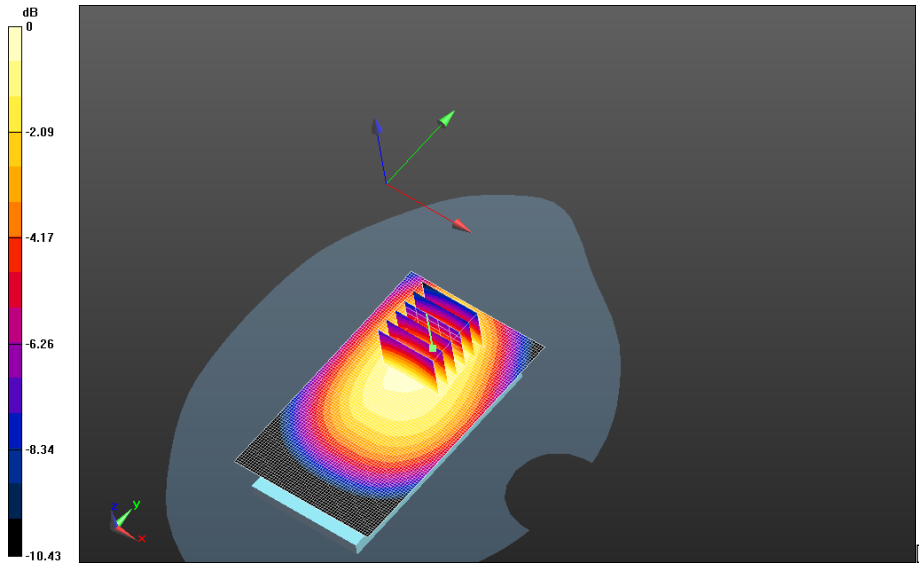
Author Data
Andrew Becker

Dates of Test
June 11 – August 16, 2013


Test Report No
RTS-6046-1308-39B

FCC ID:
L6ARFX100LW

IC



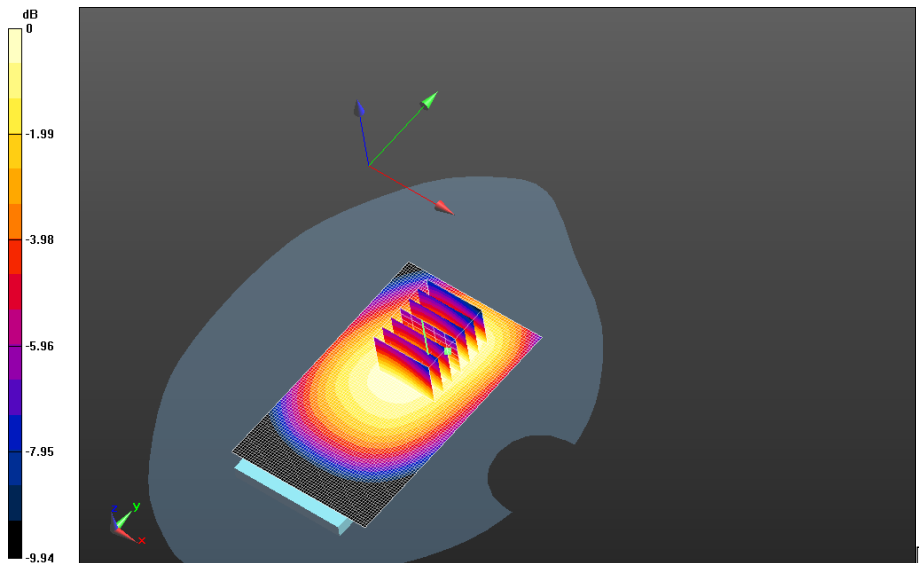
0 dB = 0.723 W/kg = -1.41 dBW/kg

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 5(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW


Body Worn MSL - GPRS 850/15mm Device Front -
GPRS850_chan190_amb_temp_23.4C_liq_temp_22.3C/Area Scan (61x101x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 25.657 V/m; **Power Drift = 0.031 dB**

Body Worn MSL - GPRS 850/15mm Device Front -
GPRS850_chan190_amb_temp_23.4C_liq_temp_22.3C/Zoom Scan (26x31x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 25.657 V/m; **Power Drift = 0.031 dB**

Averaged SAR: SAR(1g) = 0.586 W/kg; SAR(10g) = 0.448 W/kg
 Maximum value of SAR (interpolated) = 0.750 W/kg



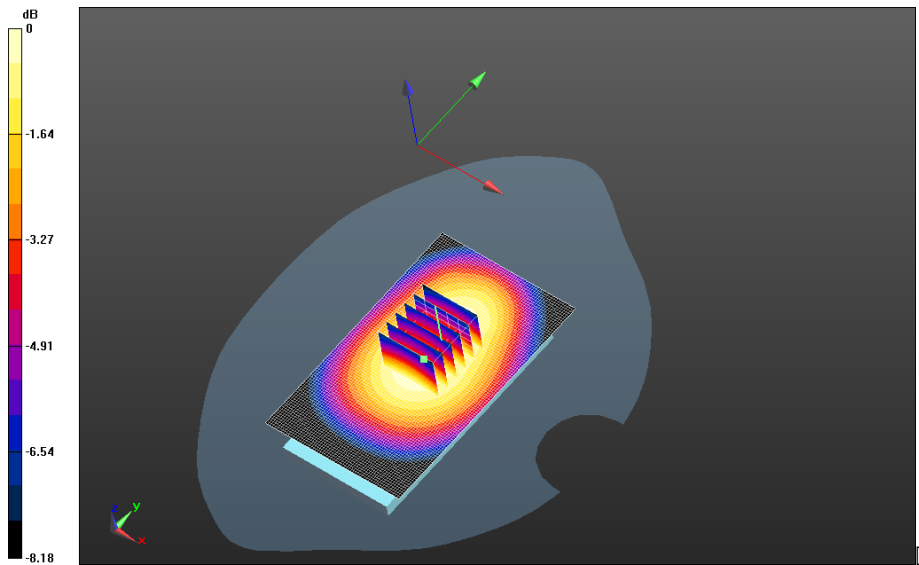
0 dB = 0.723 W/kg = -1.41 dBW/kg

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 6(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Body Worn MSL - GPRS 850/Holster Device Back -
GPRS850_chan190_amb_temp_23.0C_liq_temp_22.0C/Area Scan (61x101x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 25.784 V/m; **Power Drift = -0.080 dB**

Body Worn MSL - GPRS 850/Holster Device Back -
GPRS850_chan190_amb_temp_23.0C_liq_temp_22.0C/Zoom Scan (26x26x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 25.784 V/m; **Power Drift = -0.080 dB**

Averaged SAR: SAR(1g) = 0.550 W/kg; SAR(10g) = 0.421 W/kg
 Maximum value of SAR (interpolated) = 0.697 W/kg



0 dB = 0.644 W/kg = -1.91 dBW/kg



Document
Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report

Page
7(41)

Author Data
Andrew Becker


Dates of Test
June 11 – August 16,2013

Test Report No
RTS-6046-1308-39B

FCC ID:
L6ARFX100LW

IC

UMTS Band V (RFX101LW)

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 8(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Date: 6/25/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Body Worn MSL - UMTS band V

Communication System: WCDMA FDD V; Communication System Band: UMTS band V;

Frequency: 836.4 MHz

Medium Parameters used: $f=836.4$ MHz; $\sigma = 0.955$ S/m; $\epsilon_r = 52.833$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Body Worn MSL - UMTS band V/15mm Device Back - UMTS_band

V_chan4182_amb_temp_23.1C_liq_temp_21.6C/Area Scan (61x101x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 19.703 V/m; **Power Drift = -0.0058 dB**

Body Worn MSL - UMTS band V/15mm Device Back - UMTS_band

V_chan4182_amb_temp_23.1C_liq_temp_21.6C/Zoom Scan (21x21x36)/Cube 0: Interpolated

grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 19.703 V/m; **Power Drift = -0.0058 dB**

Averaged SAR: SAR(1g) = 0.379 W/kg; SAR(10g) = 0.278 W/kg

Maximum value of SAR (interpolated) = 0.501 W/kg

Author Data

Andrew Becker

Dates of Test

June 11 – August 16,2013

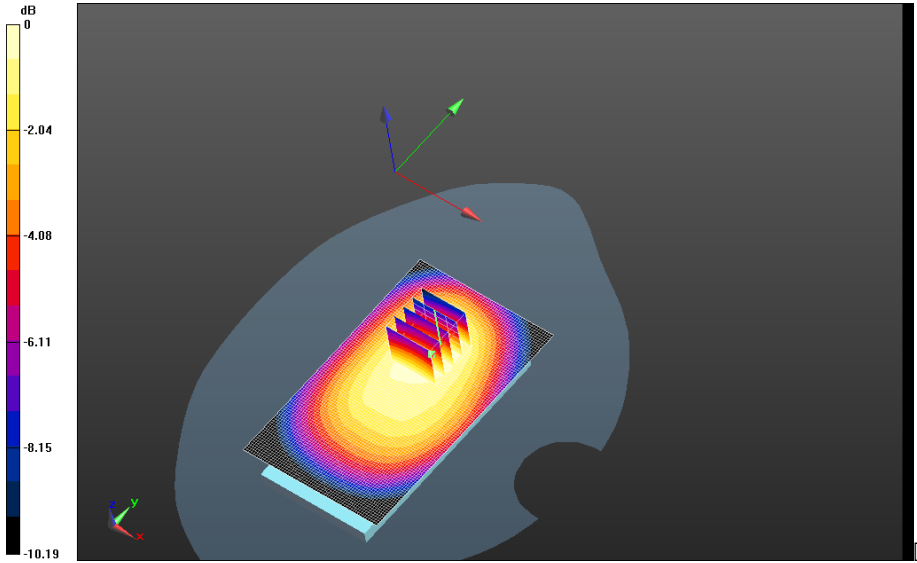
Test Report No

RTS-6046-1308-39B


FCC ID:

L6ARFX100LW

IC



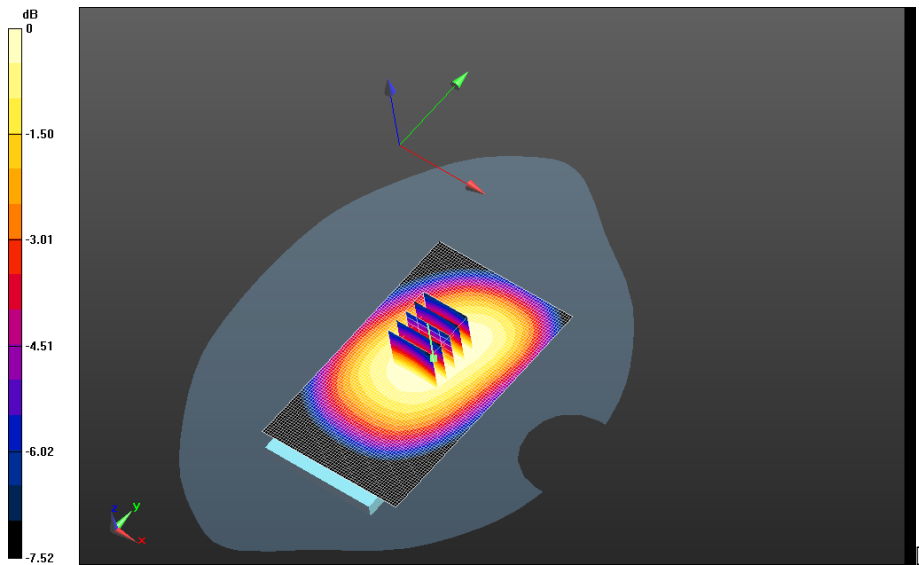
0 dB = 0.421 W/kg = -3.76 dBW/kg

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 10(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW


Body Worn MSL - UMTS band V/15mm Device Front - UMTS_band V_chan4182_amb_temp_23.1C_liq_temp_21.4C/Area Scan (61x101x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 20.263 V/m; **Power Drift = -0.014 dB**

Body Worn MSL - UMTS band V/15mm Device Front - UMTS_band V_chan4182_amb_temp_23.1C_liq_temp_21.4C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 20.263 V/m; **Power Drift = -0.014 dB**

Averaged SAR: SAR(1g) = 0.337 W/kg; SAR(10g) = 0.260 W/kg
 Maximum value of SAR (interpolated) = 0.420 W/kg



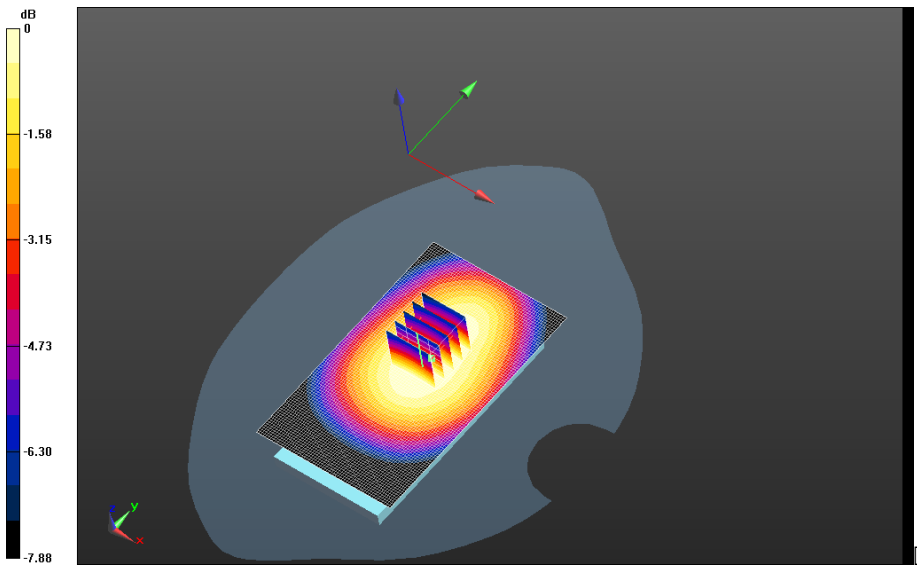
0 dB = 0.421 W/kg = -3.76 dBW/kg

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 11(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Body Worn MSL - UMTS band V/Holster Device Back - UMTS_band V_chan4182_amb_temp_23.1C_liq_temp_21.5C/Area Scan (61x101x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 18.369 V/m; **Power Drift = 0.019 dB**

Body Worn MSL - UMTS band V/Holster Device Back - UMTS_band V_chan4182_amb_temp_23.1C_liq_temp_21.5C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 18.369 V/m; **Power Drift = 0.019 dB**

Averaged SAR: SAR(1g) = 0.280 W/kg; SAR(10g) = 0.215 W/kg
 Maximum value of SAR (interpolated) = 0.349 W/kg



0 dB = 0.368 W/kg = -4.34 dBW/kg



Document
Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report

Page
12(41)

Author Data
Andrew Becker


Dates of Test
June 11 – August 16,2013

Test Report No
RTS-6046-1308-39B

FCC ID:
L6ARFX100LW

IC

GPRS 1900 (RFX101LW)

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 13(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Date: 6/24/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Body Worn MSL - GPRS 1900

Communication System: GPRS 1900 (4-slots); Communication System Band: GPRS 1900 (4 slots); Frequency: 1880 MHz

Medium Parameters used: f=1880 MHz; $\sigma = 1.532$ S/m; $\epsilon_r = 51.502$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Body Worn MSL - GPRS 1900/15mm Device Back -

GPRS1900_chan661_amb_temp_23.3C_liq_temp_22.2C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.913 V/m; **Power Drift = 0.023 dB**

Body Worn MSL - GPRS 1900/15mm Device Back -

GPRS1900_chan661_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.913 V/m; **Power Drift = 0.023 dB**

Averaged SAR: SAR(1g) = 0.573 W/kg; SAR(10g) = 0.333 W/kg

Maximum value of SAR (interpolated) = 0.942 W/kg

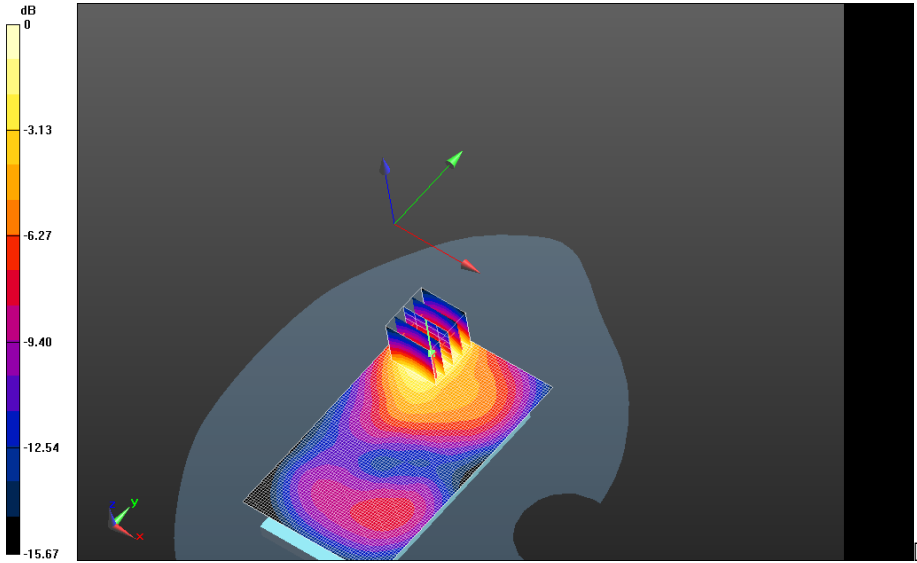
Author Data
Andrew Becker

Dates of Test
June 11 – August 16, 2013


Test Report No
RTS-6046-1308-39B

FCC ID:
L6ARFX100LW

IC



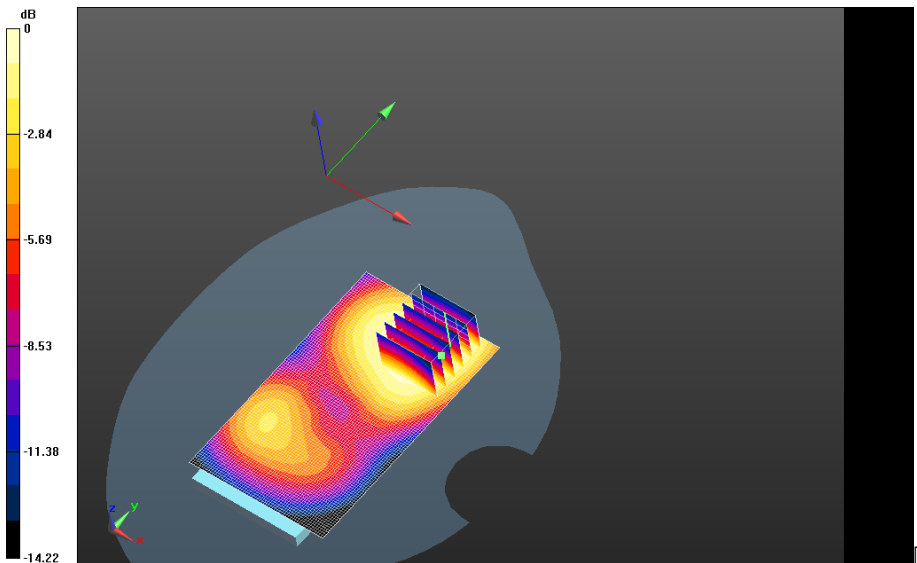
0 dB = 0.692 W/kg = -1.60 dBW/kg

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 15(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW


Body Worn MSL - GPRS 1900/15mm Device Front -
GPRS1900_chan661_amb_temp_23.4C_liq_temp_22.3C/Area Scan (61x101x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 6.989 V/m; **Power Drift = -0.0027 dB**

Body Worn MSL - GPRS 1900/15mm Device Front -
GPRS1900_chan661_amb_temp_23.4C_liq_temp_22.3C/Zoom Scan (26x26x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 6.989 V/m; **Power Drift = -0.0027 dB**

Averaged SAR: SAR(1g) = 0.306 W/kg; SAR(10g) = 0.201 W/kg
 Maximum value of SAR (interpolated) = 0.486 W/kg



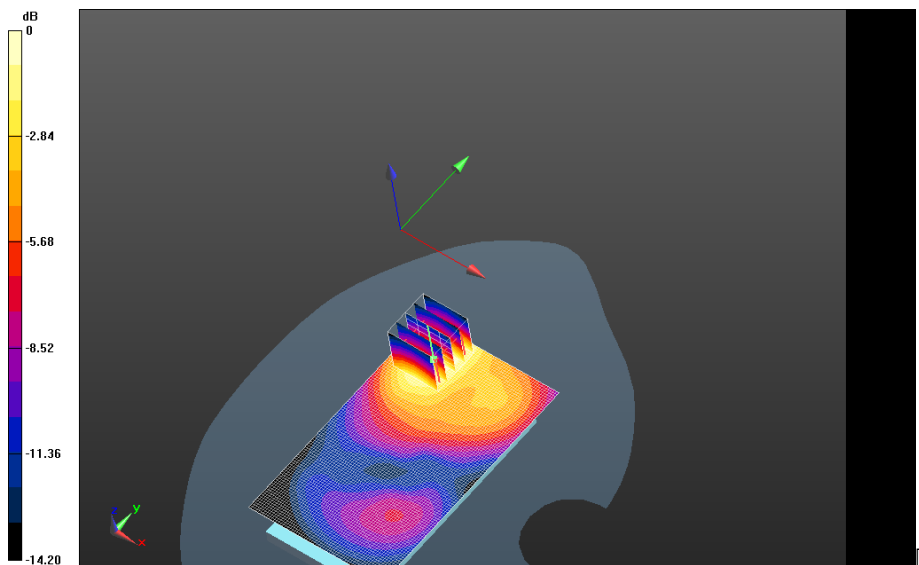
0 dB = 0.692 W/kg = -1.60 dBW/kg

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 16(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16, 2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Body Worn MSL - GPRS 1900/Holster Device Back -
GPRS1900_chan661_amb_temp_23.0C_liq_temp_22.0C/Area Scan (61x101x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 5.727 V/m; **Power Drift = -0.060 dB**

Body Worn MSL - GPRS 1900/Holster Device Back -
GPRS1900_chan661_amb_temp_23.0C_liq_temp_22.0C/Zoom Scan (21x21x36)/Cube 0:
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
 Reference Value = 5.727 V/m; **Power Drift = -0.060 dB**

Averaged SAR: SAR(1g) = 0.262 W/kg; SAR(10g) = 0.160 W/kg
 Maximum value of SAR (interpolated) = 0.412 W/kg



0 dB = 0.360 W/kg = -4.44 dBW/kg



Document
Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report

Page
17(41)

Author Data
Andrew Becker


Dates of Test
June 11 – August 16,2013

Test Report No
RTS-6046-1308-39B

FCC ID:
L6ARFX100LW

IC

UMTS Band II (RFX101LW)

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 18(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Date/Time: 8/8/2013 12:33:53 AM

Test Laboratory: RIM Testing Services

SAR_UMTS_II_Low_chan_15mm_back

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 333E2BE8

Communication System: UID 0 - n/a, WCDMA FDD II; Frequency: 1852.4 MHz

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.505$ S/m; $\epsilon_r = 50.967$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.04, 5.04, 5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.6(1115); SEMCAD X 14.6.9(7117)

Body Worn MSL - UMTS II/15mm Device Back - UMTS_II_chan9262_amb_temp_23.2C_liq_temp_22.1C/Area Scan

(61x111x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 6.387 V/m; Power Drift = -0.10 dB

Fast SAR: SAR(1 g) = 0.606 W/kg; SAR(10 g) = 0.355 W/kg

Maximum value of SAR (interpolated) = 0.742 W/kg

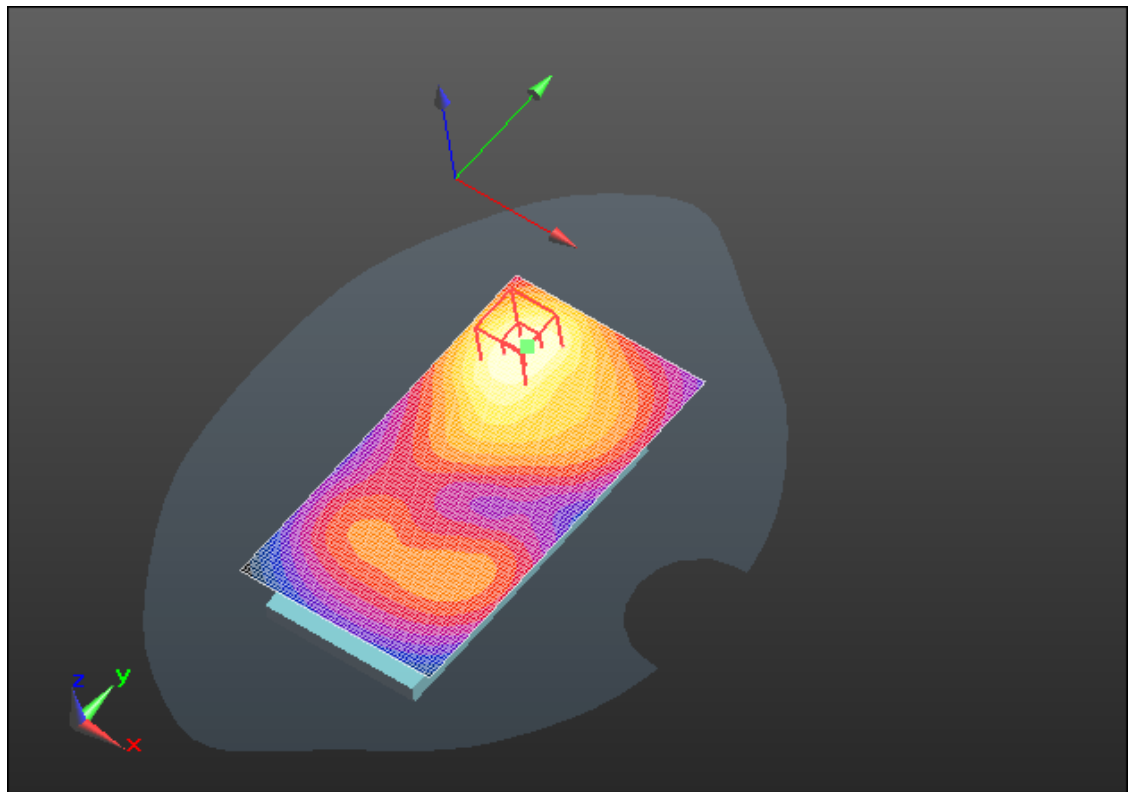
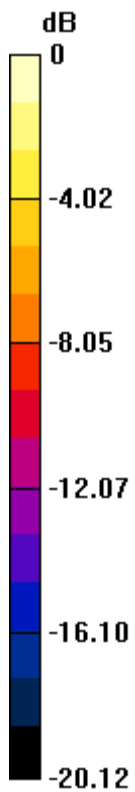
Author Data
Andrew Becker

Dates of Test
June 11 – August 16, 2013


Test Report No
RTS-6046-1308-39B

FCC ID:
L6ARFX100LW

IC



0 dB = 0.742 W/kg = -1.30 dBW/kg

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 20(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Date: 6/21/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Body Worn MSL - UMTS II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1880 MHz

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.560$ S/m; $\epsilon_r = 51.517$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Body Worn MSL - UMTS II/15mm Device Back -

UMTS_II_chan9400_amb_temp_23.9C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.074 V/m; **Power Drift = 0.068 dB**

Body Worn MSL - UMTS II/15mm Device Back -

UMTS_II_chan9400_amb_temp_23.9C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.074 V/m; **Power Drift = 0.068 dB**

Averaged SAR: SAR(1g) = 0.766 W/kg; SAR(10g) = 0.447 W/kg

Maximum value of SAR (interpolated) = 1.23 W/kg

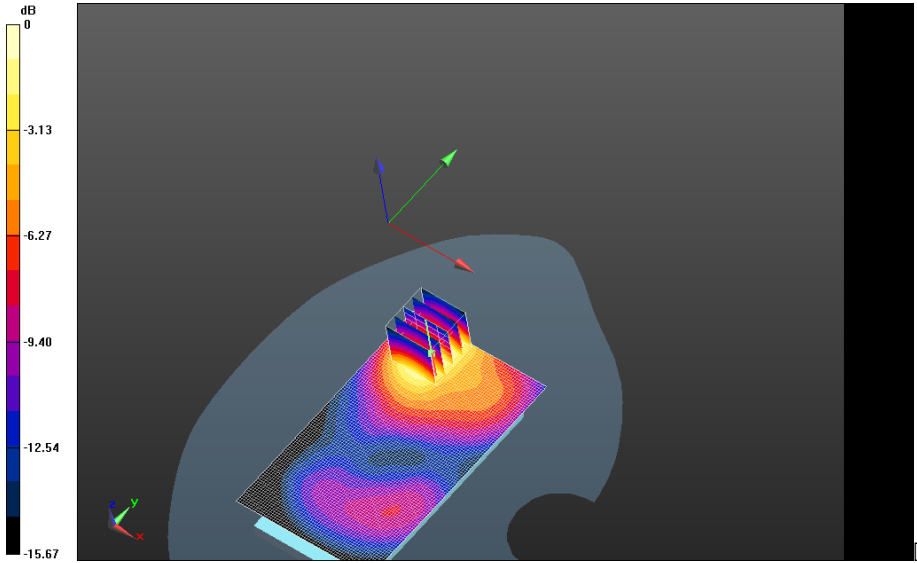
Author Data
Andrew Becker

Dates of Test
June 11 – August 16, 2013


Test Report No
RTS-6046-1308-39B

FCC ID:
L6ARFX100LW

IC



0 dB = 0.922 W/kg = -0.35 dBW/kg

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 22(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Date/Time: 8/8/2013 12:46:04 AM

Test Laboratory: RIM Testing Services

SAR_UMTS_II_high_chan_15mm_back

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 333E2BE8

Communication System: UID 0 - n/a, WCDMA FDD II; Frequency: 1907.6 MHz

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.56$ S/m; $\epsilon_r = 50.78$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.04, 5.04, 5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.6(1115); SEMCAD X 14.6.9(7117)

Body Worn MSL - UMTS II/15mm Device Back -

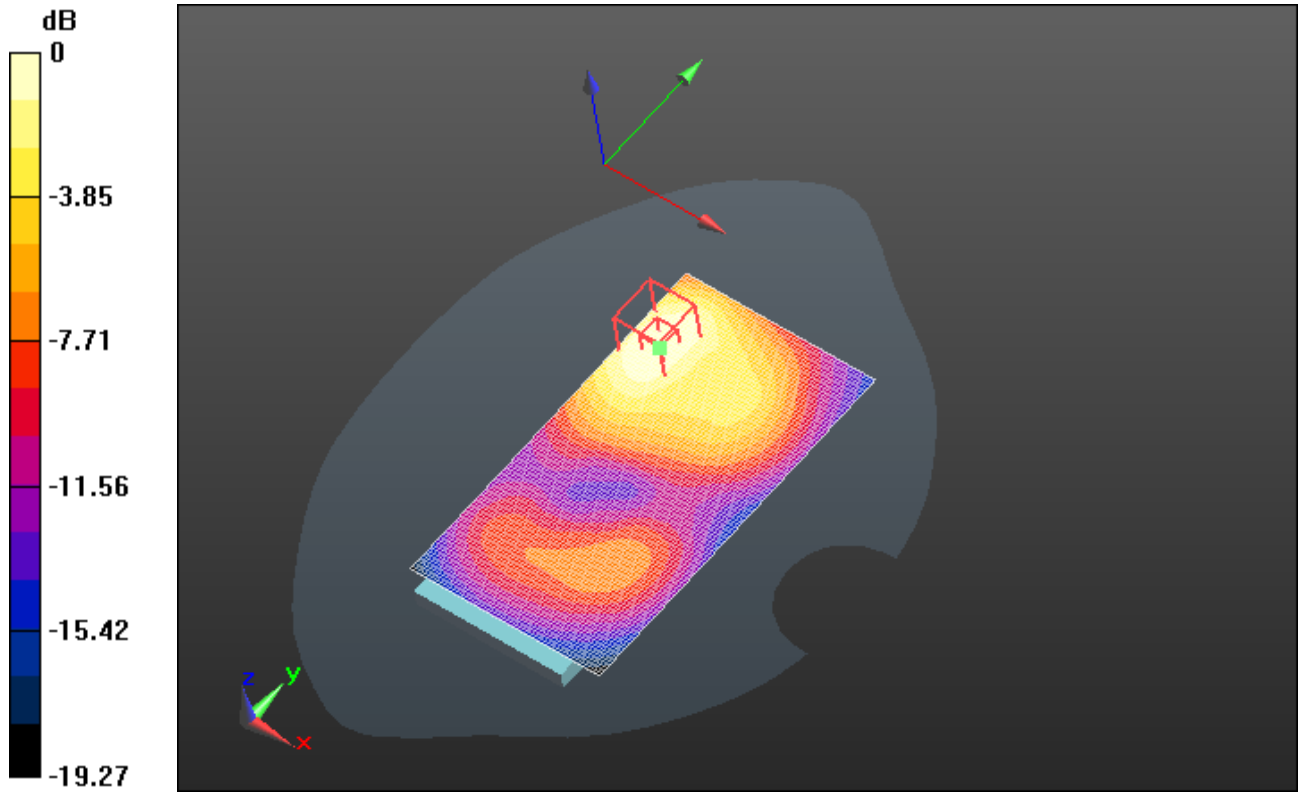
UMTS_II_chan9538_amb_temp_23.2C_liq_temp_22.1C/Area Scan

(61x111x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm


Reference Value = 5.506 V/m; Power Drift = 0.03 dB

Fast SAR: SAR(1 g) = 0.498 W/kg; SAR(10 g) = 0.294 W/kg

Maximum value of SAR (interpolated) = 0.598 W/kg



0 dB = 0.598 W/kg = -2.23 dBW/kg

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 24(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Body Worn MSL - UMTS II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1880 MHz

Medium Parameters used: f=1880 MHz; $\sigma = 1.560$ S/m; $\epsilon_r = 51.517$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Body Worn MSL - UMTS II/15mm Device Front -

UMTS_II_chan9400_amb_temp_23.8C_liq_temp_22.3C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.731 V/m; **Power Drift = 0.00159 dB**

Body Worn MSL - UMTS II/15mm Device Front -

UMTS_II_chan9400_amb_temp_23.8C_liq_temp_22.3C/Zoom Scan (26x26x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.731 V/m; **Power Drift = 0.00159 dB**

Averaged SAR: SAR(1g) = 0.434 W/kg; SAR(10g) = 0.278 W/kg

Maximum value of SAR (interpolated) = 0.697 W/kg

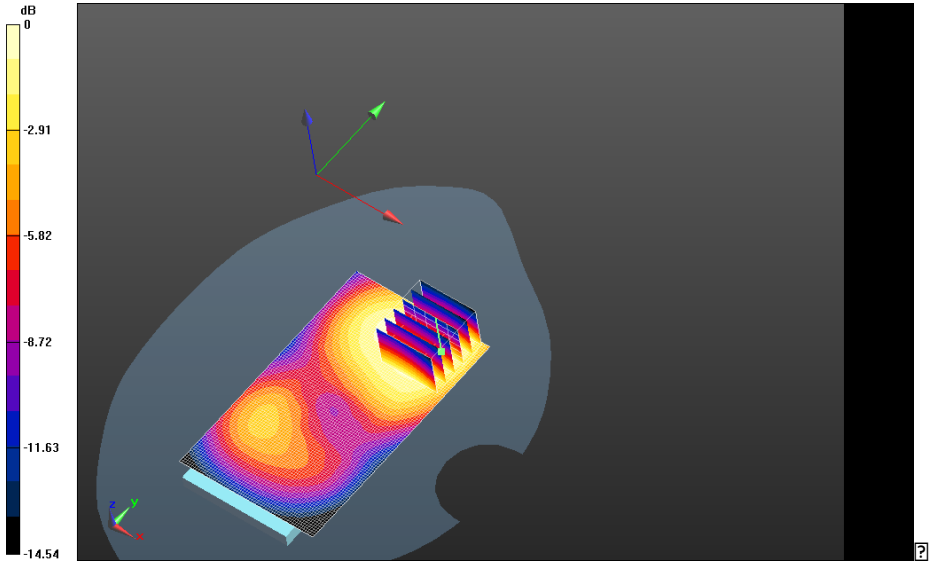
Author Data
Andrew Becker

Dates of Test
June 11 – August 16,2013


Test Report No
RTS-6046-1308-39B

FCC ID:
L6ARFX100LW

IC



0 dB = 0.922 W/kg = -0.35 dBW/kg

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 26(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Body Worn MSL - UMTS II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1880 MHz

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.560$ S/m; $\epsilon_r = 51.517$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Body Worn MSL - UMTS II/Holster Device Back -

UMTS_II_chan9400_amb_temp_23.8C_liq_temp_22.4C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.148 V/m; **Power Drift = -0.00321 dB**

Body Worn MSL - UMTS II/Holster Device Back -

UMTS_II_chan9400_amb_temp_23.8C_liq_temp_22.4C/Zoom Scan (21x21x36)/Cube 0:

Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.148 V/m; **Power Drift = -0.00321 dB**

Averaged SAR: SAR(1g) = 0.346 W/kg; SAR(10g) = 0.212 W/kg

Maximum value of SAR (interpolated) = 0.540 W/kg

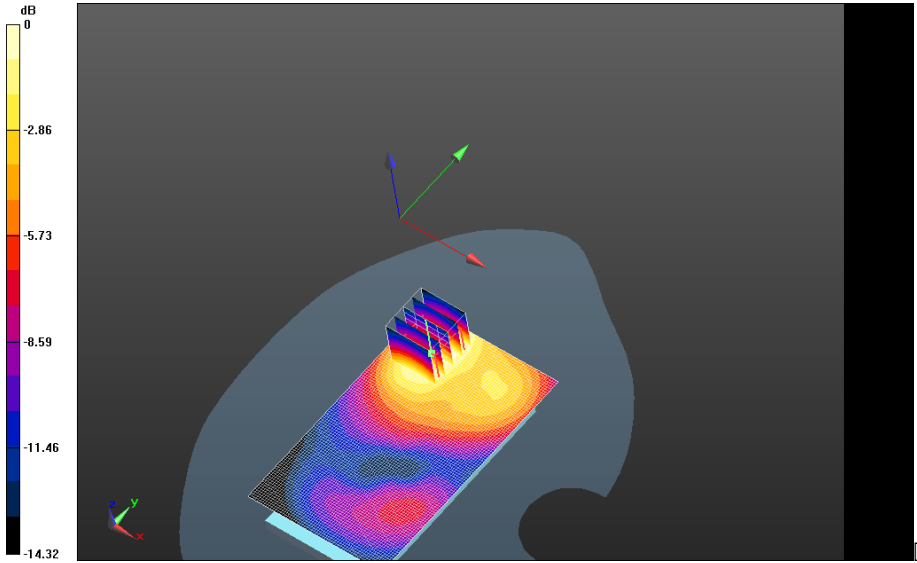
Author Data
Andrew Becker

Dates of Test
June 11 – August 16, 2013

Test Report No
RTS-6046-1308-39B

FCC ID:
L6ARFX100LW

IC



0 dB = 0.518 W/kg = -2.86 dBW/kg



Document
Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report

Page
28(41)

Author Data
Andrew Becker


Dates of Test
June 11 – August 16,2013

Test Report No
RTS-6046-1308-39B

FCC ID:
L6ARFX100LW

IC

Bluetooth (RFX101LW)

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 29(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Date: 6/18/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854

Configuration: Body Worn MSL - Bluetooth

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2437 MHz

Medium Parameters used: $f=2437$ MHz; $\sigma = 1.887$ S/m; $\epsilon_r = 50.251$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.35,4.35,4.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Body Worn MSL - Bluetooth/15mm Device Back -

Bluetooth_chan0_amb_temp_23.3C_liq_temp_21.1C/Area Scan (81x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0285 W/kg

Body Worn MSL - Bluetooth/15mm Device Back -

Bluetooth_chan0_amb_temp_23.3C_liq_temp_21.1C/Zoom Scan (31x31x36)/Cube 0:

Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 3.970 V/m; **Power Drift = -0.027 dB**

Averaged SAR: SAR(1g) = 0.0234 W/kg; SAR(10g) = 0.0112 W/kg

Maximum value of SAR (interpolated) = 0.0493 W/kg

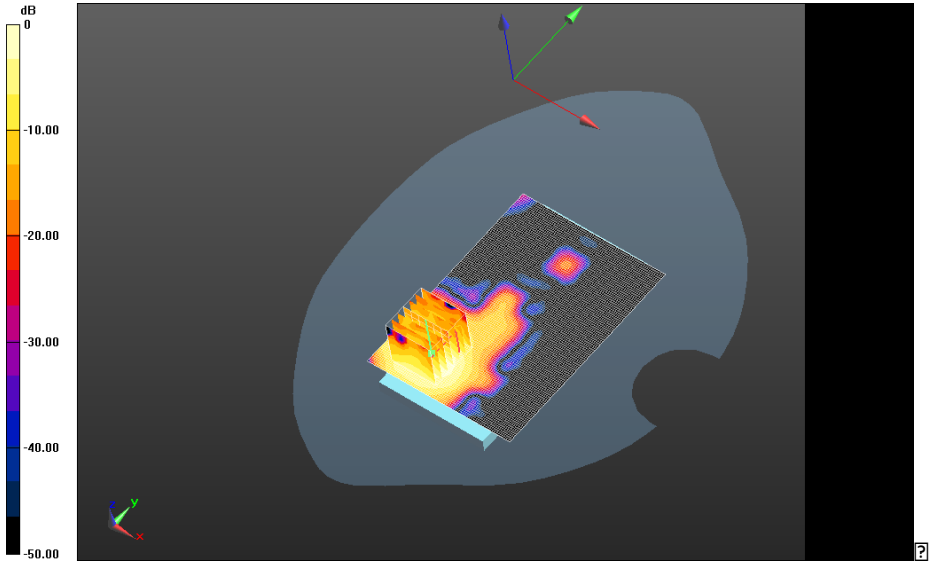
Author Data
Andrew Becker

Dates of Test
June 11 – August 16,2013

Test Report No
RTS-6046-1308-39B

FCC ID:
L6ARFX100LW

IC



0 dB = 0.0298 W/kg = -15.26 dBW/kg



Document
Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report

Page
31(41)

Author Data
Andrew Becker


Dates of Test
June 11 – August 16,2013

Test Report No
RTS-6046-1308-39B

FCC ID:
L6ARFX100LW

IC

802.11a Full Power (RFX101LW)

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 32(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Date: 6/20/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854

Configuration: Body Worn MSL - 802.11a 5200 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5180 MHz

Medium Parameters used: $f=5180$ MHz; $\sigma = 5.474$ S/m; $\epsilon_r = 51.119$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.68,4.68,4.68); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Body Worn MSL - 802.11a 5200 MHz/15mm Device Back -

802.11a_chan36_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan (91x141x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.359 W/kg

Body Worn MSL - 802.11a 5200 MHz/15mm Device Back -

802.11a_chan36_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan

(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 8.747 V/m; **Power Drift = -0.087 dB**

Averaged SAR: SAR(1g) = 0.216 W/kg; SAR(10g) = 0.0943 W/kg

Maximum value of SAR (interpolated) = 0.599 W/kg

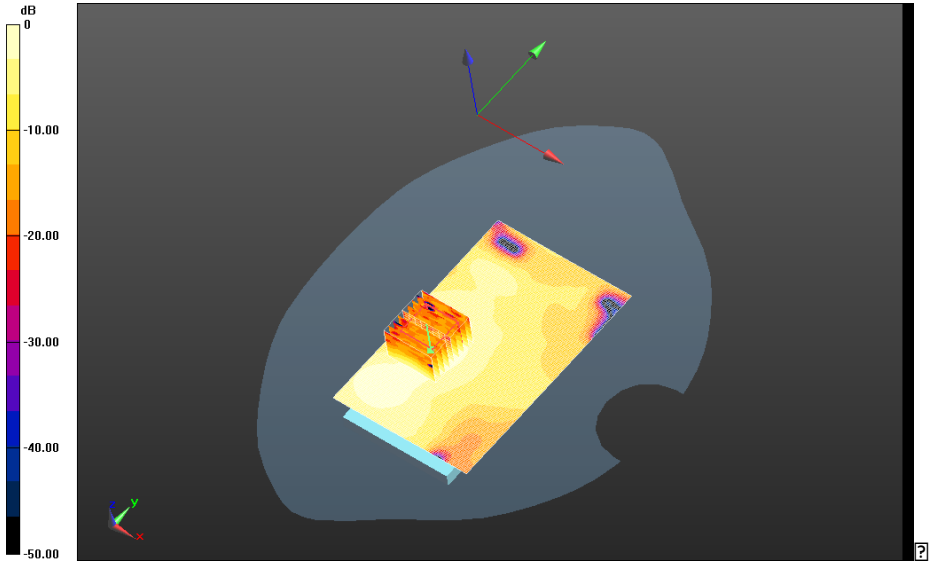
Author Data
Andrew Becker

Dates of Test
June 11 – August 16, 2013


Test Report No
RTS-6046-1308-39B

FCC ID:
L6ARFX100LW

IC



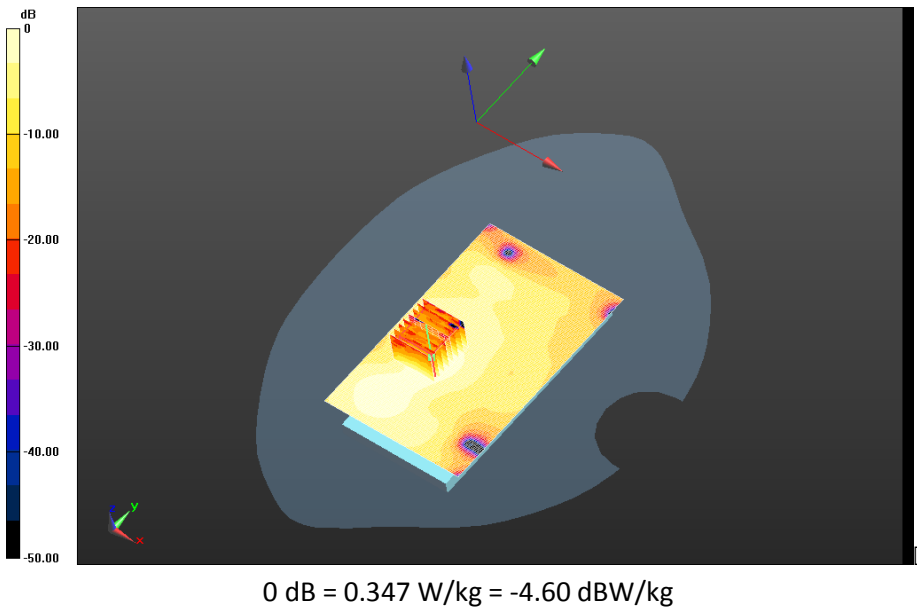
0 dB = 0.347 W/kg = -4.60 dBW/kg


	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 34(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Body Worn MSL - 802.11a 5200 MHz/15mm Device Back -
802.11a_chan52_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan (91x141x1):
 Interpolated grid: dx=1.000 mm, dy=1.000 mm
 Maximum value of SAR (interpolated) = 0.373 W/kg

Body Worn MSL - 802.11a 5200 MHz/15mm Device Back -
802.11a_chan52_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan
(36x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
 Reference Value = 8.895 V/m; **Power Drift = -0.094 dB**

Averaged SAR: SAR(1g) = 0.232 W/kg; SAR(10g) = 0.0991 W/kg
 Maximum value of SAR (interpolated) = 0.642 W/kg



	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 35(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Date: 6/20/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854

Configuration: Body Worn MSL - 802.11a 5500 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5520 MHz

Medium Parameters used: $f=5520$ MHz; $\sigma = 5.432$ S/m; $\epsilon_r = 47.297$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.15,4.15,4.15); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Body Worn MSL - 802.11a 5500 MHz/15mm Device Back -

802.11a_chan104_upper_bandI_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan

(91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.534 W/kg

Body Worn MSL - 802.11a 5500 MHz/15mm Device Back -

802.11a_chan104_upper_bandI_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan

(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 10.471 V/m; **Power Drift = -0.039 dB**

Averaged SAR: SAR(1g) = 0.314 W/kg; SAR(10g) = 0.135 W/kg

Maximum value of SAR (interpolated) = 0.841 W/kg

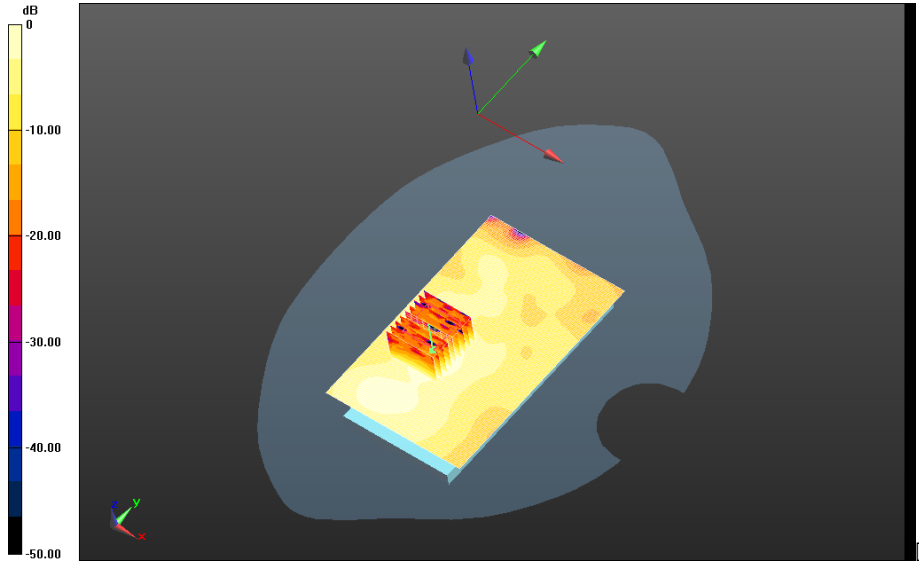
Author Data
Andrew Becker

Dates of Test
June 11 – August 16, 2013


Test Report No
RTS-6046-1308-39B

FCC ID:
L6ARFX100LW

IC



0 dB = 0.517 W/kg = -2.87 dBW/kg

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 37(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Date: 6/20/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854

Configuration: Body Worn MSL - 802.11a 5800 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5745 MHz

Medium Parameters used: $f=5745$ MHz; $\sigma = 6.223$ S/m; $\epsilon_r = 49.864$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.19,4.19,4.19); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Body Worn MSL - 802.11a 5800 MHz/15mm Device Back -

802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan

(91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.610 W/kg

Body Worn MSL - 802.11a 5800 MHz/15mm Device Back -

802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan

(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 11.126 V/m; **Power Drift = -0.129 dB**

Averaged SAR: SAR(1g) = 0.362 W/kg; SAR(10g) = 0.153 W/kg

Maximum value of SAR (interpolated) = 1.02 W/kg

Author Data

Andrew Becker

Dates of Test

June 11 – August 16,2013

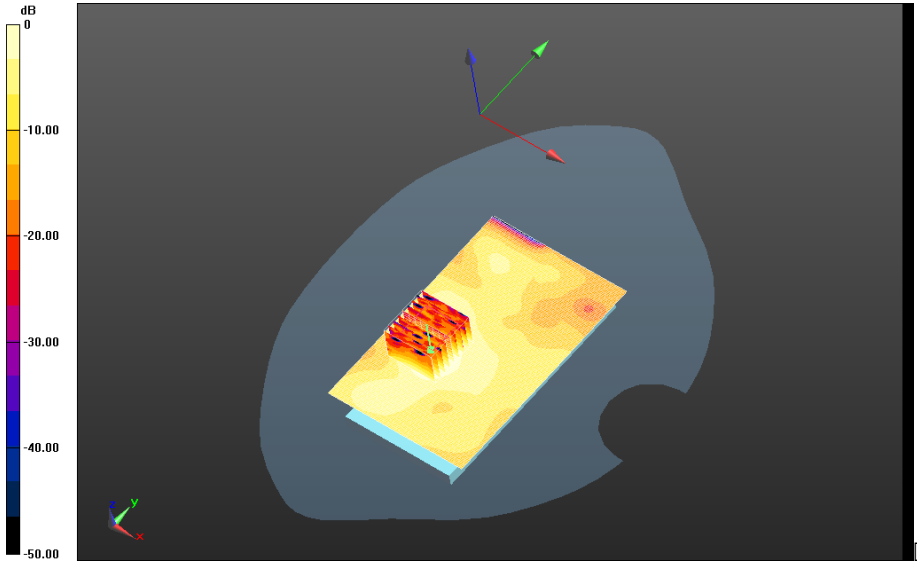
Test Report No

RTS-6046-1308-39B


FCC ID:

L6ARFX100LW

IC



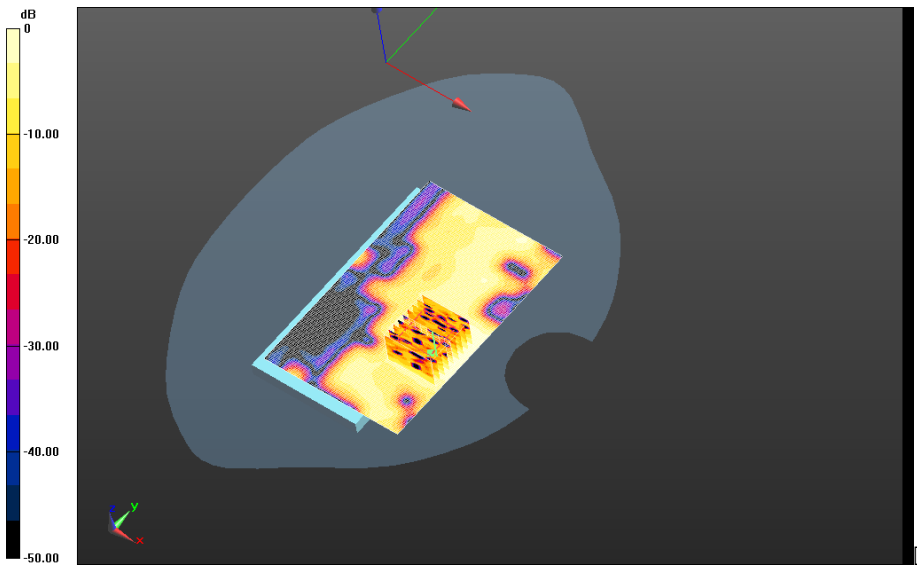
0 dB = 0.623 W/kg = -2.06 dBW/kg

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 39(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW


Body Worn MSL - 802.11a 5800 MHz/15mm Device Front -
802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan
(91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
 Maximum value of SAR (interpolated) = 0.113 W/kg

Body Worn MSL - 802.11a 5800 MHz/15mm Device Front -
802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan
(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
 Reference Value = 5.020 V/m; **Power Drift = -0.129 dB**

Averaged SAR: SAR(1g) = 0.0625 W/kg; SAR(10g) = 0.0255 W/kg
 Maximum value of SAR (interpolated) = 0.175 W/kg



0 dB = 0.623 W/kg = -2.06 dBW/kg

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 40(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

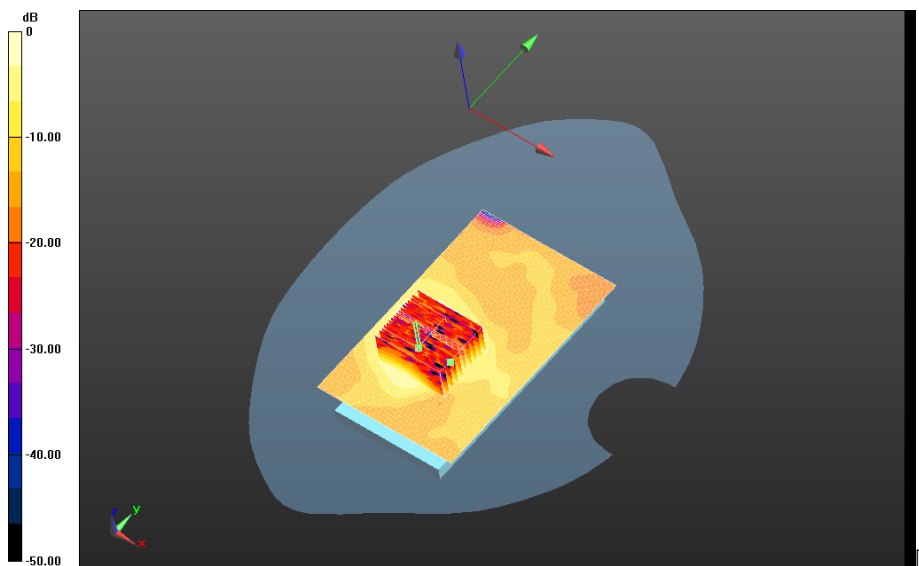
Body Worn MSL - 802.11a 5800 MHz/Holster Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.0C/Area Scan (91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.913 W/kg

Body Worn MSL - 802.11a 5800 MHz/Holster Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.0C/Zoom Scan (31x31x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 13.535 V/m; **Power Drift = 0.076 dB**


Averaged SAR: SAR(1g) = 0.532 W/kg; SAR(10g) = 0.220 W/kg
Maximum value of SAR (interpolated) = 1.42 W/kg

Body Worn MSL - 802.11a 5800 MHz/Holster Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.0C/Zoom Scan 2 (56x46x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 13.535 V/m; **Power Drift = 0.115 dB**

Averaged SAR: SAR(1g) = 0.544 W/kg; SAR(10g) = 0.224 W/kg
Maximum value of SAR (interpolated) = 1.45 W/kg



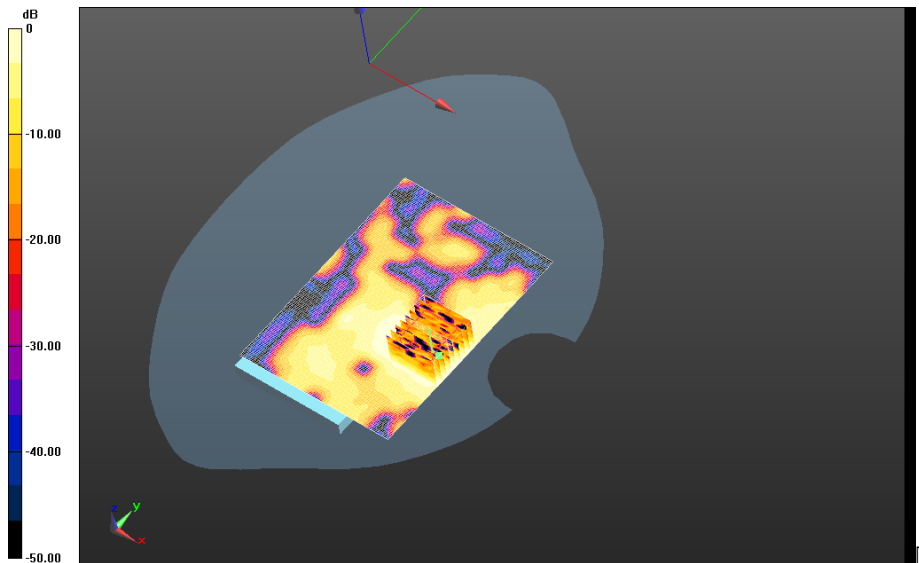
0 dB = 0.114 W/kg = -9.43 dBW/kg

	Document Appendix C1 for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 41(41)
	Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39B	FCC ID: L6ARFX100LW

Body Worn MSL - 802.11a 5800 MHz/Holster Device Front -
802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.0C/Area Scan
(101x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
 Maximum value of SAR (interpolated) = 0.145 W/kg

Body Worn MSL - 802.11a 5800 MHz/Holster Device Front -
802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.0C/Zoom Scan
(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
 Reference Value = 5.518 V/m; **Power Drift = -0.031 dB**

Averaged SAR: SAR(1g) = 0.0848 W/kg; SAR(10g) = 0.0364 W/kg
 Maximum value of SAR (interpolated) = 0.224 W/kg



0 dB = 0.913 W/kg = -0.40 dBW/kg