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

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# DTM/GSM 850 (RFX101LW)

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Date: 6/24/2013

Test Lab: RIM Testing Services

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

**Configuration: Right-Hand-Side HSL - DTM 850**

Communication System: GSM 850; Communication System Band: GSM 850; Frequency: 836.8 MHz

Medium Parameters used: f=836.8 MHz;  $\sigma = 0.891$  S/m;  $\epsilon_r = 41.382$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Right-Hand-Side HSL - DTM 850/Touch Position -**

**GSM850\_chan190\_amb\_temp\_23.0C\_liq\_temp\_22.7C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.142 V/m; **Power Drift = 0.153 dB**

**Right-Hand-Side HSL - DTM 850/Touch Position -**

**GSM850\_chan190\_amb\_temp\_23.0C\_liq\_temp\_22.7C/Zoom Scan (21x21x36)/Cube 0:**

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

Reference Value = 6.142 V/m; **Power Drift = 0.153 dB**

**Averaged SAR: SAR(1g) = 0.309 W/kg; SAR(10g) = 0.241 W/kg**

Maximum value of SAR (interpolated) = 0.372 W/kg

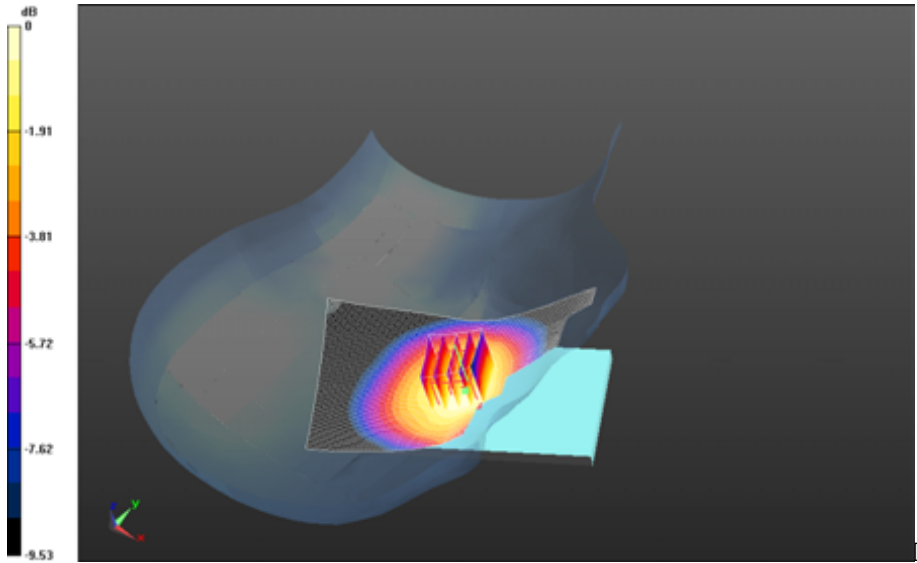
Author Data  
**Andrew Becker**

Dates of Test  
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Test Report No  
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FCC ID:  
**L6ARFX100LW**

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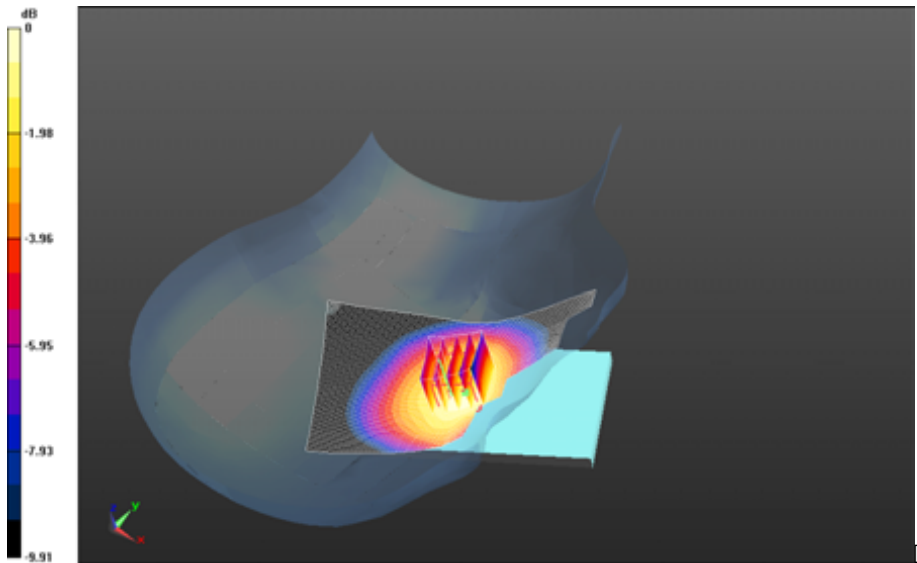
0 dB = 0.333 W/kg = -4.78 dBW/kg

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**Right-Hand-Side HSL - DTM 850/Touch Position - DTM850\_chan190\_amb\_temp\_23.3C\_liq\_temp\_22.7C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 6.590 V/m; **Power Drift = 0.177 dB**

**Right-Hand-Side HSL - DTM 850/Touch Position - DTM850\_chan190\_amb\_temp\_23.3C\_liq\_temp\_22.7C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 6.590 V/m; **Power Drift = 0.177 dB**

**Averaged SAR: SAR(1g) = 0.363 W/kg; SAR(10g) = 0.282 W/kg**  
Maximum value of SAR (interpolated) = 0.432 W/kg



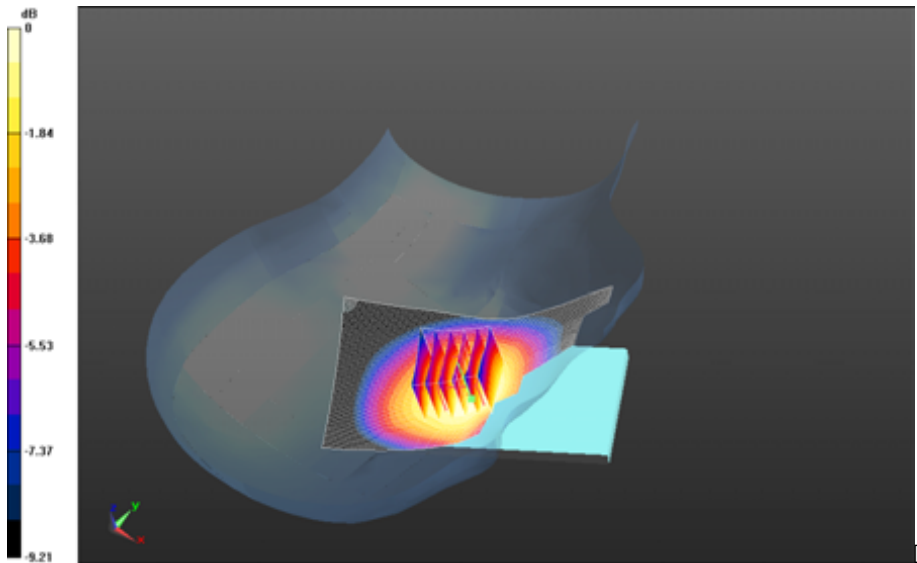
0 dB = 0.333 W/kg = -4.78 dBW/kg

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**Right-Hand-Side HSL - DTM 850/Touch Position - DTM850\_3-Slots\_chan190\_amb\_temp\_23.0C\_liq\_temp\_22.7C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 9.252 V/m; **Power Drift = -0.047 dB**

**Right-Hand-Side HSL - DTM 850/Touch Position - DTM850\_3-Slots\_chan190\_amb\_temp\_23.0C\_liq\_temp\_22.7C/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 9.252 V/m; **Power Drift = -0.047 dB**

**Averaged SAR: SAR(1g) = 0.405 W/kg; SAR(10g) = 0.318 W/kg**  
Maximum value of SAR (interpolated) = 0.486 W/kg



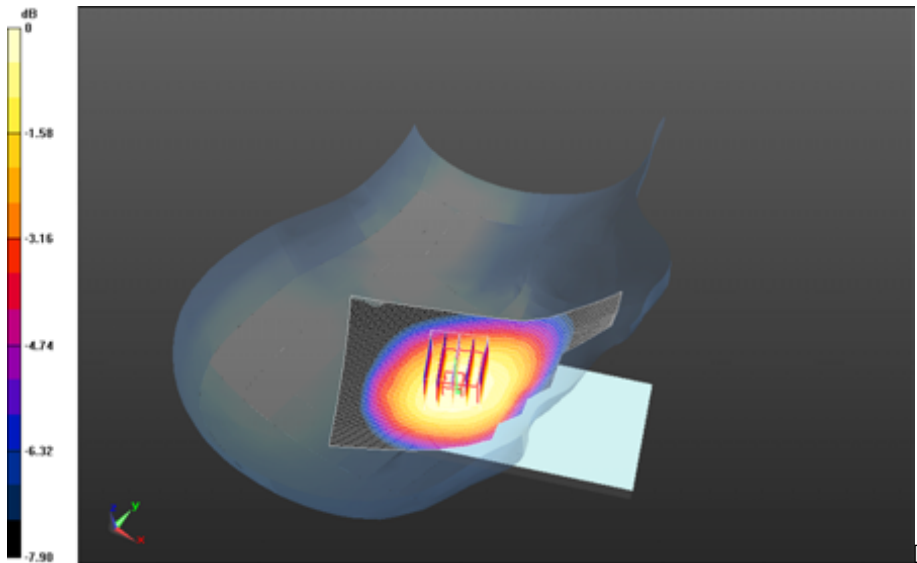
0 dB = 0.390 W/kg = -4.09 dBW/kg

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**Right-Hand-Side HSL - DTM 850/Tilt Position -**  
**DTM850\_chan190\_amb\_temp\_23.0C\_liq\_temp\_22.7C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 11.226 V/m; **Power Drift = -0.037 dB**

**Right-Hand-Side HSL - DTM 850/Tilt Position -**  
**DTM850\_chan190\_amb\_temp\_23.0C\_liq\_temp\_22.7C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 11.226 V/m; **Power Drift = -0.037 dB**

**Averaged SAR: SAR(1g) = 0.200 W/kg; SAR(10g) = 0.156 W/kg**  
Maximum value of SAR (interpolated) = 0.244 W/kg



0 dB = 0.435 W/kg = -3.62 dBW/kg

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Date: 6/24/2013

Test Lab: RIM Testing Services

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

**Configuration: Left-Hand-Side HSL - DTM 850**

Communication System: GSM 850; Communication System Band: GSM 850; Frequency: 836.8 MHz

Medium Parameters used:  $f=836.8$  MHz;  $\sigma = 0.891$  S/m;  $\epsilon_r = 41.382$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Left-Hand-Side HSL - DTM 850/Touch Position -**

**GSM850\_chan190\_amb\_temp\_23.2C\_liq\_temp\_22.7C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.828 V/m; **Power Drift = 0.063 dB**

**Fast SAR: SAR(1g) = 0.360 W/kg; SAR(10g) = 0.248 W/kg**

Maximum value of SAR (interpolated) = 0.411 W/kg



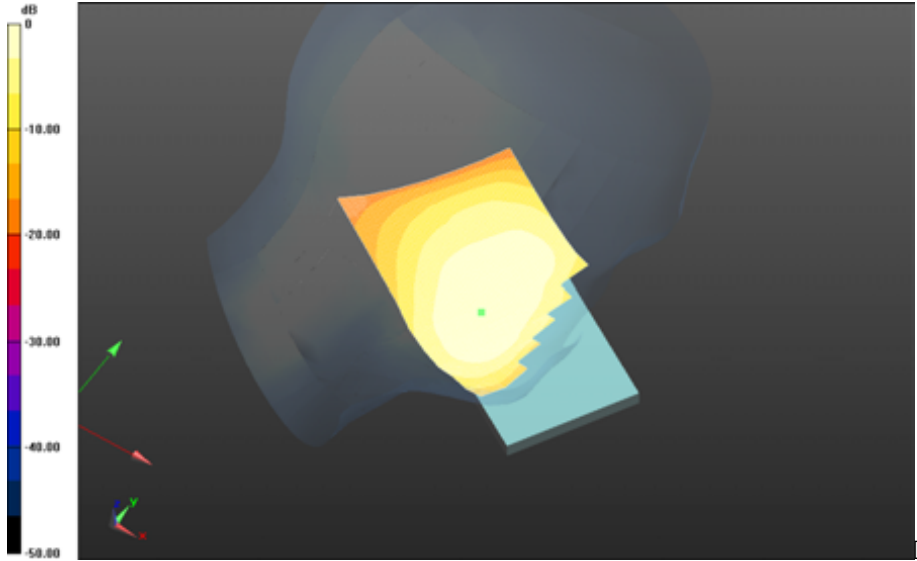
Author Data  
**Andrew Becker**

Dates of Test  
**June 11 – August 16, 2013**


Test Report No  
**RTS-6046-1308-39B**

FCC ID:  
**L6ARFX100LW**

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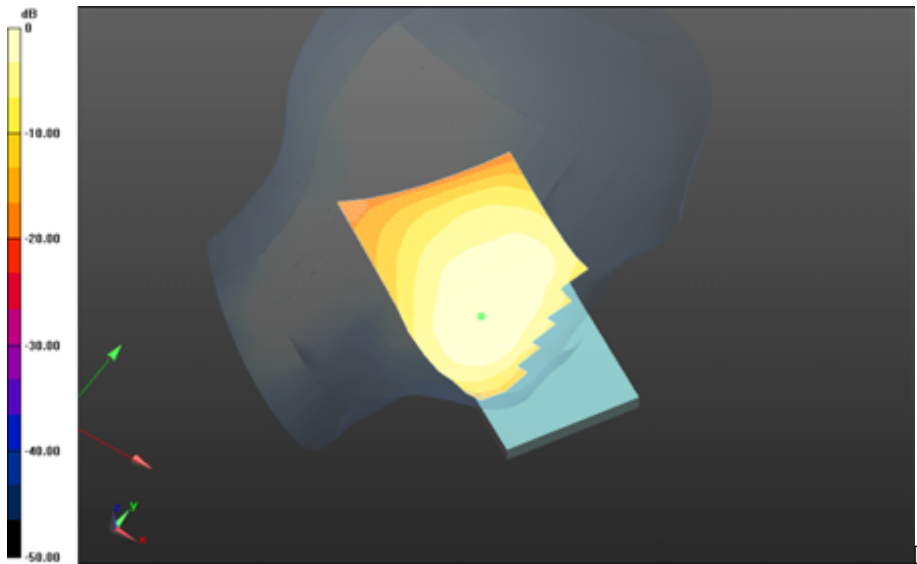


0 dB = 0.411 W/kg = -3.86 dBW/kg


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**Left-Hand-Side HSL - DTM 850/Touch Position -**  
**DTM850\_chan190\_amb\_temp\_23.2C\_liq\_temp\_22.7C/Area Scan (61x101x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.486 V/m; **Power Drift = -0.048 dB**

**Fast SAR: SAR(1g) = 0.414 W/kg; SAR(10g) = 0.284 W/kg**  
Maximum value of SAR (interpolated) = 0.473 W/kg



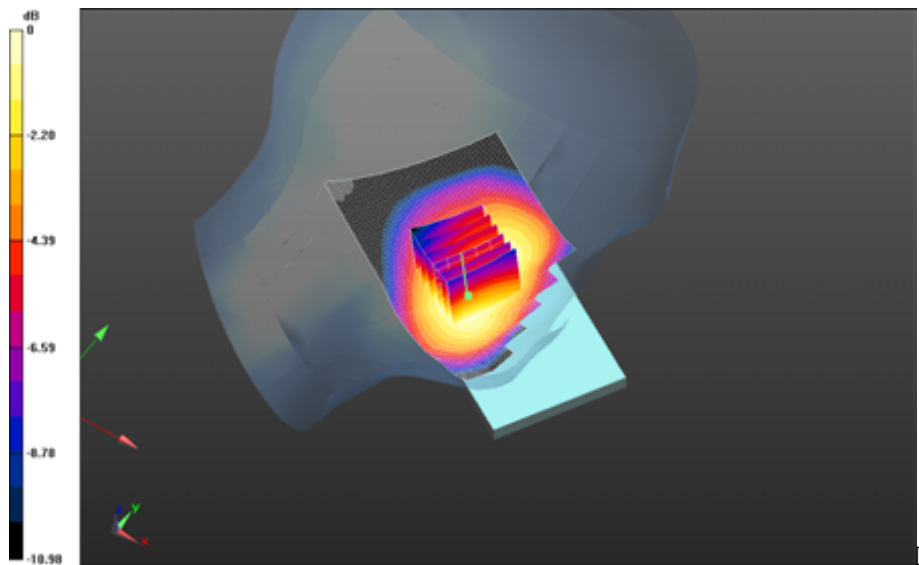
0 dB = 0.411 W/kg = -3.86 dBW/kg

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**Left-Hand-Side HSL - DTM 850/Touch Position - DTM850\_3-Slots\_chan190\_amb\_temp\_23.3C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.934 V/m; **Power Drift = -0.101 dB**

**Left-Hand-Side HSL - DTM 850/Touch Position - DTM850\_3-Slots\_chan190\_amb\_temp\_23.3C\_liq\_temp\_22.5C/Zoom Scan (26x26x36)/Cube 0:**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 8.934 V/m; **Power Drift = -0.101 dB**

**Averaged SAR: SAR(1g) = 0.466 W/kg; SAR(10g) = 0.351 W/kg**  
Maximum value of SAR (interpolated) = 0.620 W/kg

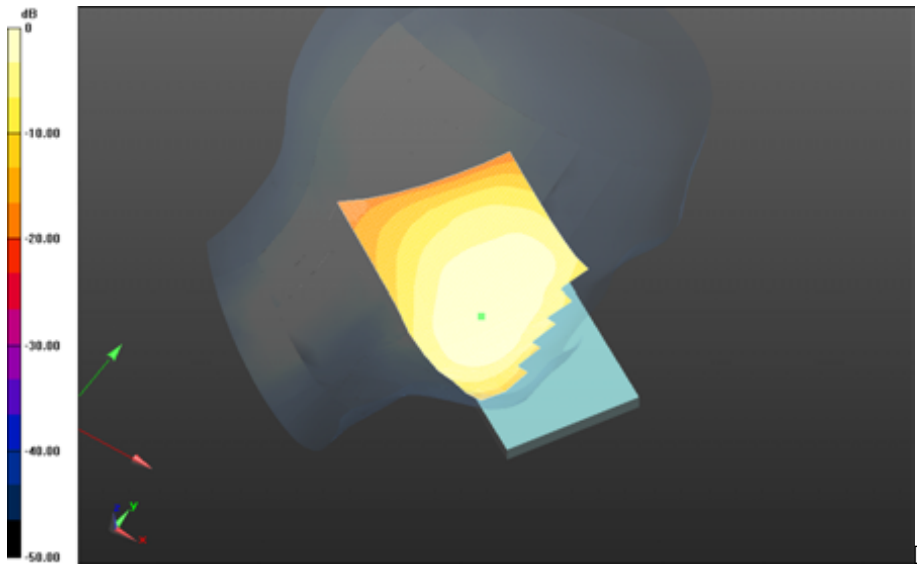


0 dB = 0.473 W/kg = -3.25 dBW/kg


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**Left-Hand-Side HSL - DTM 850/Touch Position - EDGE850\_4-Slots\_chan190\_amb\_temp\_22.7C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.740 V/m; **Power Drift = -0.175 dB**

**Fast SAR: SAR(1g) = 0.425 W/kg; SAR(10g) = 0.292 W/kg**  
Maximum value of SAR (interpolated) = 0.485 W/kg



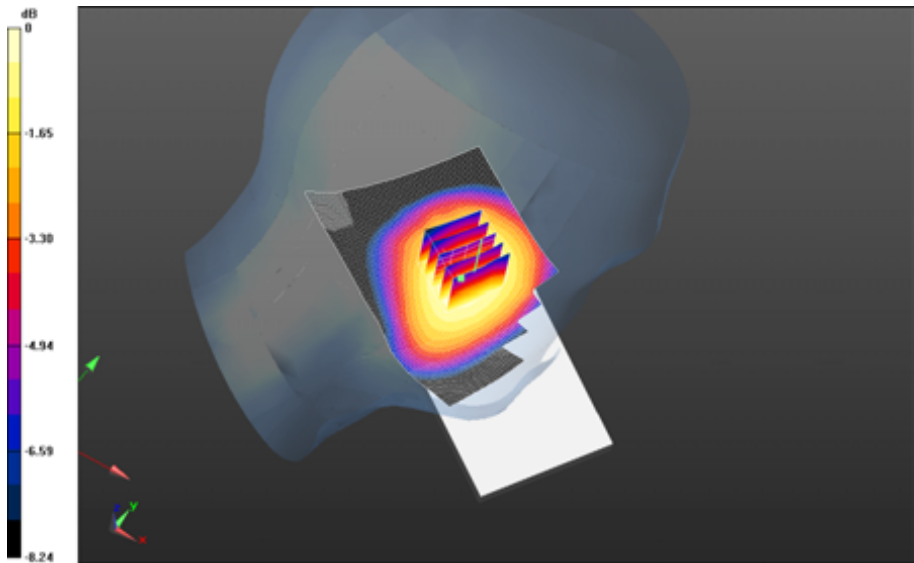
0 dB = 0.518 W/kg = -2.86 dBW/kg

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**Left-Hand-Side HSL - DTM 850/Tilt Position - DTM850\_3-Slots\_chan190\_amb\_temp\_23.0C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 12.822 V/m; **Power Drift = -0.046 dB**

**Left-Hand-Side HSL - DTM 850/Tilt Position - DTM850\_3-Slots\_chan190\_amb\_temp\_23.0C\_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 = 12.822 V/m; **Power Drift = -0.046 dB**


**Averaged SAR: SAR(1g) = 0.274 W/kg; SAR(10g) = 0.213 W/kg**  
Maximum value of SAR (interpolated) = 0.335 W/kg



0 dB = 0.485 W/kg = -3.14 dBW/kg

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# UMTS Band V (RFX101LW)

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Date: 6/25/2013

Test Lab: RIM Testing Services

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

**Configuration: Right-Hand-Side HSL - 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;  $\sigma = 0.891$  S/m;  $\epsilon_r = 41.386$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Right-Hand-Side HSL - UMTS band V/Touch Position - UMTS band V\_chan4182**

**\_amb\_temp\_23.6C\_liq\_temp\_23.0C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.781 V/m; **Power Drift = -0.127 dB**

**Right-Hand-Side HSL - UMTS band V/Touch Position - UMTS band V\_chan4182**

**\_amb\_temp\_23.6C\_liq\_temp\_23.0C/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.781 V/m; **Power Drift = -0.127 dB**

**Averaged SAR: SAR(1g) = 0.247 W/kg; SAR(10g) = 0.195 W/kg**

Maximum value of SAR (interpolated) = 0.297 W/kg

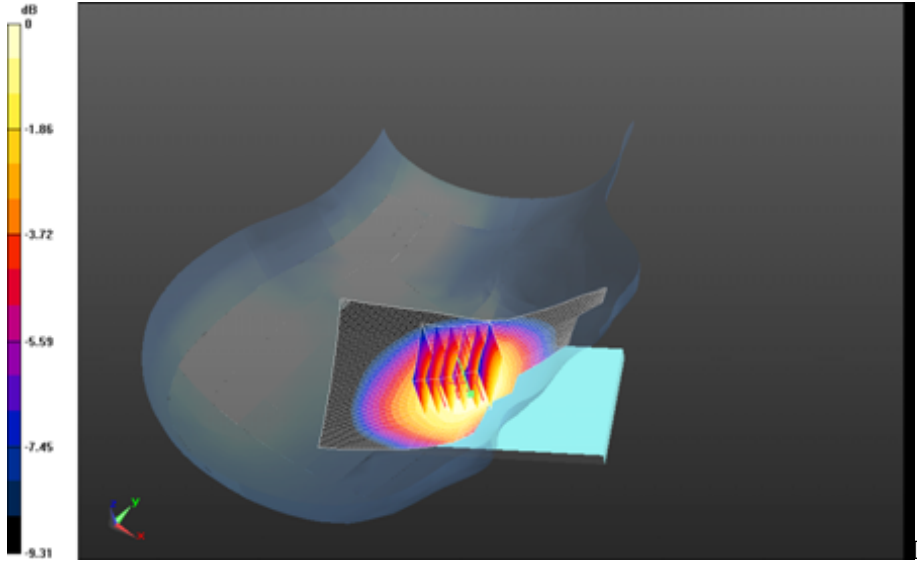
Author Data  
**Andrew Becker**

Dates of Test  
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Test Report No  
**RTS-6046-1308-39B**


FCC ID:  
**L6ARFX100LW**

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0 dB = 0.266 W/kg = -5.75 dBW/kg

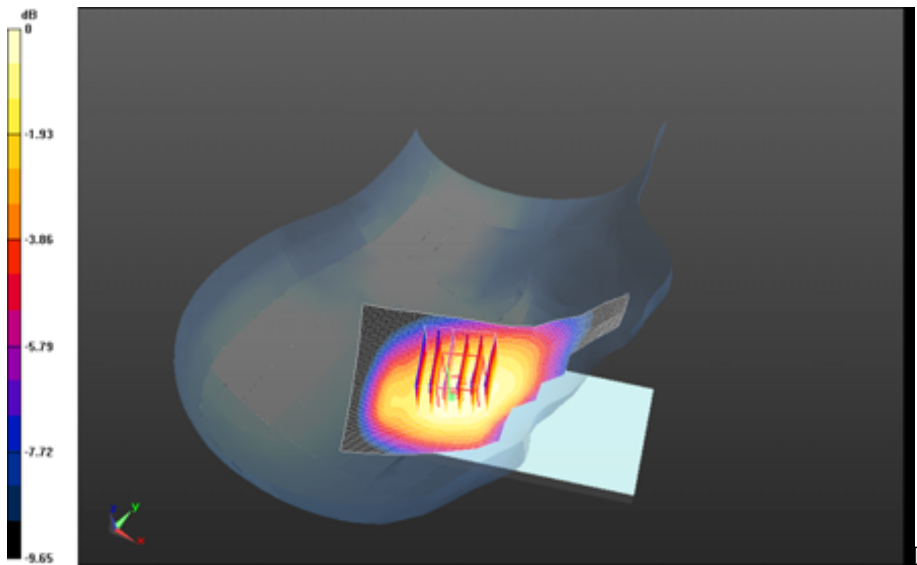


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**Right-Hand-Side HSL - UMTS band V/Tilt Position - UMTS band V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_23.0C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 9.890 V/m; **Power Drift = -0.028 dB**

**Right-Hand-Side HSL - UMTS band V/Tilt Position - UMTS band V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_23.0C/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 9.890 V/m; **Power Drift = -0.028 dB**

**Averaged SAR: SAR(1g) = 0.160 W/kg; SAR(10g) = 0.124 W/kg**  
Maximum value of SAR (interpolated) = 0.197 W/kg



0 dB = 0.266 W/kg = -5.75 dBW/kg

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Date: 6/25/2013

Test Lab: RIM Testing Services

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

**Configuration: Left-Hand-Side HSL - 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;  $\sigma = 0.891$  S/m;  $\epsilon_r = 41.386$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Left-Hand-Side HSL - UMTS band V/Touch Position - UMTS band**

**V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_23.0C/Area Scan (61x101x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 6.433 V/m; **Power Drift = 0.109 dB**

**Left-Hand-Side HSL - UMTS band V/Touch Position - UMTS band**

**V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_23.0C/Zoom Scan (26x26x36)/Cube 0:** Interpolated

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

Reference Value = 6.433 V/m; **Power Drift = 0.109 dB**

**Averaged SAR: SAR(1g) = 0.341 W/kg; SAR(10g) = 0.250 W/kg**

Maximum value of SAR (interpolated) = 0.456 W/kg

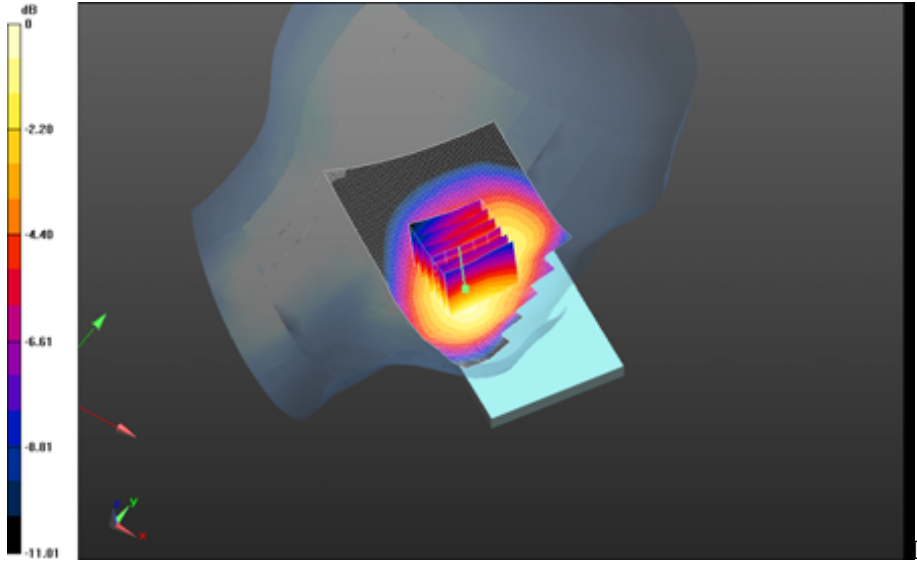
Author Data  
**Andrew Becker**

Dates of Test  
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**RTS-6046-1308-39B**

FCC ID:  
**L6ARFX100LW**

IC



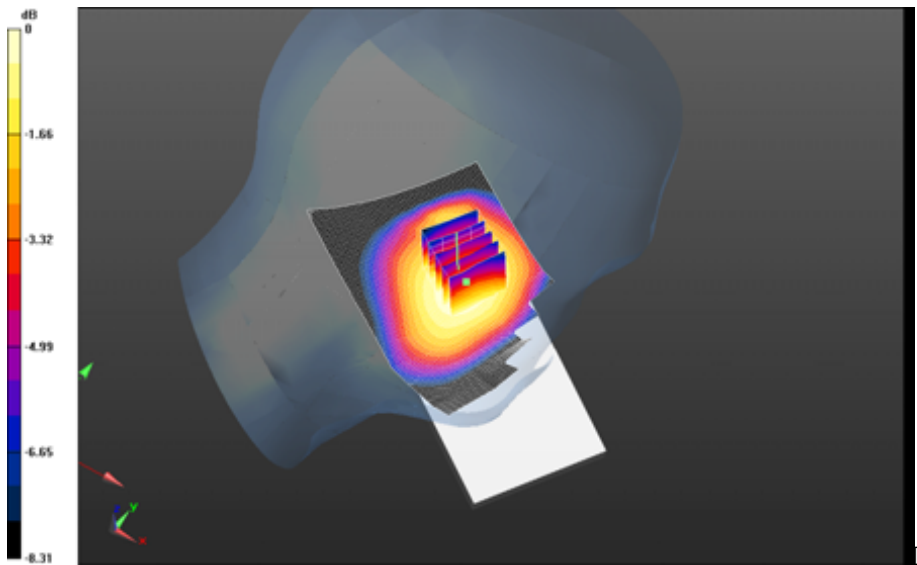
0 dB = 0.381 W/kg = -4.19 dBW/kg

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**Left-Hand-Side HSL - UMTS band V/Tilt Position - UMTS band V\_chan4182\_amb\_temp\_23.4C\_liq\_temp\_23.0C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 10.823 V/m; **Power Drift = 0.045 dB**

**Left-Hand-Side HSL - UMTS band V/Tilt Position - UMTS band V\_chan4182\_amb\_temp\_23.4C\_liq\_temp\_23.0C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 10.823 V/m; **Power Drift = 0.045 dB**


**Averaged SAR: SAR(1g) = 0.188 W/kg; SAR(10g) = 0.146 W/kg**  
Maximum value of SAR (interpolated) = 0.232 W/kg



0 dB = 0.381 W/kg = -4.19 dBW/kg

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# DTM/GSM 1900 (RFX101LW)

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Date: 6/21/2013

Test Lab: RIM Testing Services

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

**Configuration: Right-Hand-Side HSL - DTM 1900**

Communication System: DTM 1900; Communication System Band: DTM 1900; Frequency: 1880 MHz

Medium Parameters used: f=1880 MHz;  $\sigma = 1.391$  S/m;  $\epsilon_r = 38.715$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Right-Hand-Side HSL - DTM 1900/Touch Position -**

**GSM1900\_chan661\_amb\_temp\_23.3C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.655 V/m; **Power Drift = 0.026 dB**

**Right-Hand-Side HSL - DTM 1900/Touch Position -**

**GSM1900\_chan661\_amb\_temp\_23.3C\_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 = 5.655 V/m; **Power Drift = 0.026 dB**

**Averaged SAR: SAR(1g) = 0.137 W/kg; SAR(10g) = 0.0875 W/kg**

Maximum value of SAR (interpolated) = 0.195 W/kg

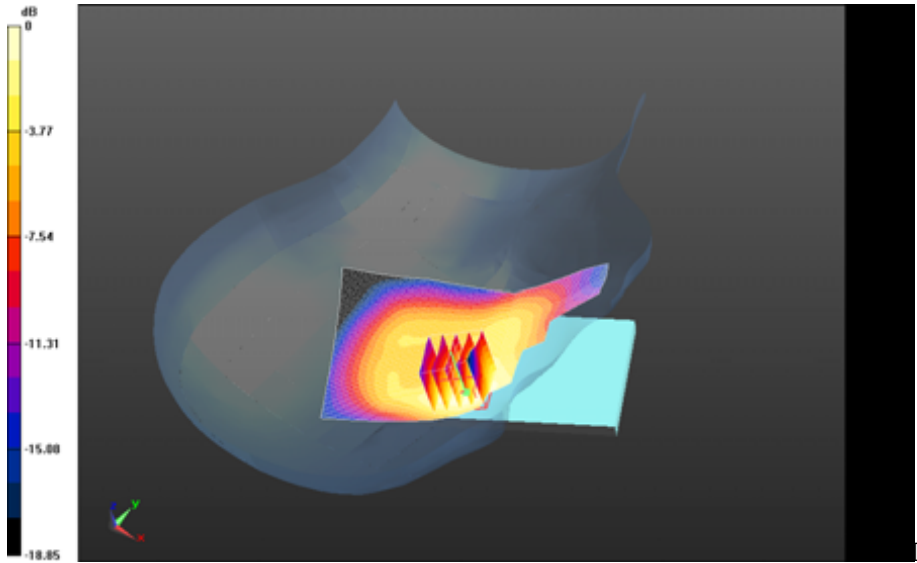
Author Data  
**Andrew Becker**

Dates of Test  
**June 11 – August 16, 2013**


Test Report No  
**RTS-6046-1308-39B**

FCC ID:  
**L6ARFX100LW**

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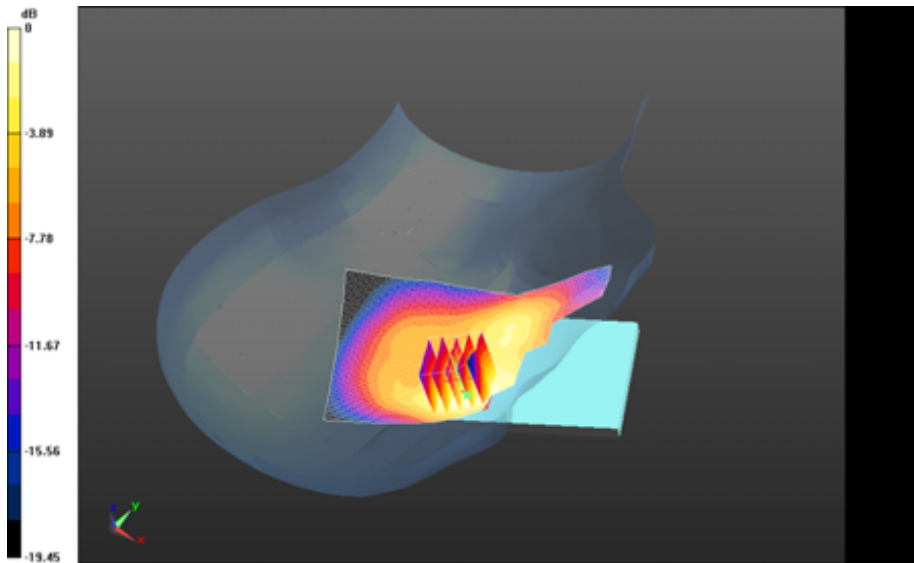
0 dB = 0.156 W/kg = -8.07 dBW/kg

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**Right-Hand-Side HSL - DTM 1900/Touch Position - DTM1900\_chan661\_amb\_temp\_23.0C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 6.297 V/m; **Power Drift = -0.013 dB**


**Right-Hand-Side HSL - DTM 1900/Touch Position - DTM1900\_chan661\_amb\_temp\_23.0C\_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 = 6.297 V/m; **Power Drift = -0.013 dB**

**Averaged SAR: SAR(1g) = 0.241 W/kg; SAR(10g) = 0.149 W/kg**  
Maximum value of SAR (interpolated) = 0.350 W/kg



0 dB = 0.156 W/kg = -8.07 dBW/kg

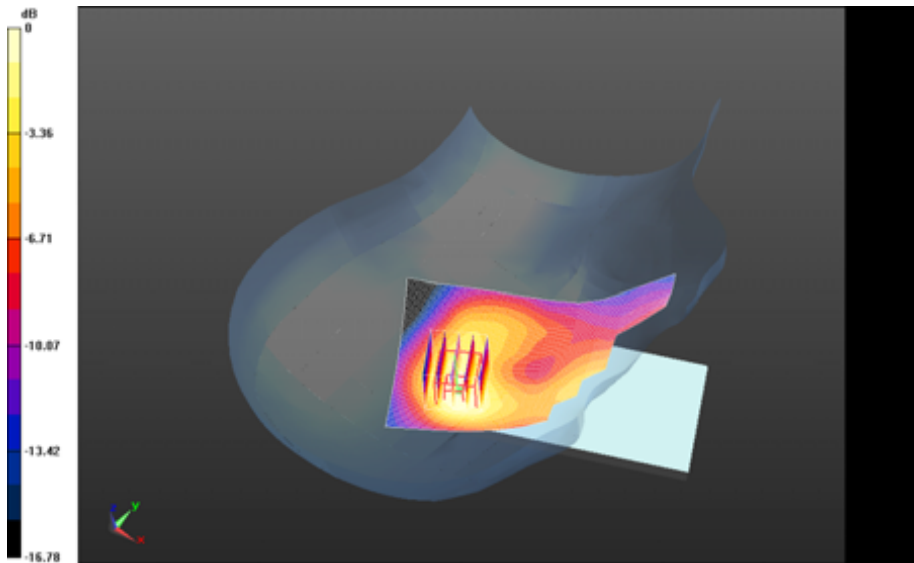


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**Right-Hand-Side HSL - DTM 1900/Tilt Position -**  
**DTM1900\_chan661\_amb\_temp\_23.0C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 8.733 V/m; **Power Drift = -0.000301 dB**

**Right-Hand-Side HSL - DTM 1900/Tilt Position -**  
**DTM1900\_chan661\_amb\_temp\_23.0C\_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 = 8.733 V/m; **Power Drift = -0.000301 dB**

**Averaged SAR: SAR(1g) = 0.143 W/kg; SAR(10g) = 0.0861 W/kg**  
 Maximum value of SAR (interpolated) = 0.219 W/kg



0 dB = 0.281 W/kg = -5.51 dBW/kg

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Date: 6/21/2013

Test Lab: RIM Testing Services

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

**Configuration: Left-Hand-Side HSL - DTM 1900**

Communication System: GSM 1900; Communication System Band: GSM 1900; Frequency: 1880 MHz

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.391$  S/m;  $\epsilon_r = 38.715$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Left-Hand-Side HSL - DTM 1900/Touch Position -**

**GSM1900\_chan661\_amb\_temp\_22.8C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.401 V/m; **Power Drift = 0.089 dB**

**Fast SAR: SAR(1g) = 0.303 W/kg; SAR(10g) = 0.167 W/kg**

Maximum value of SAR (interpolated) = 0.376 W/kg

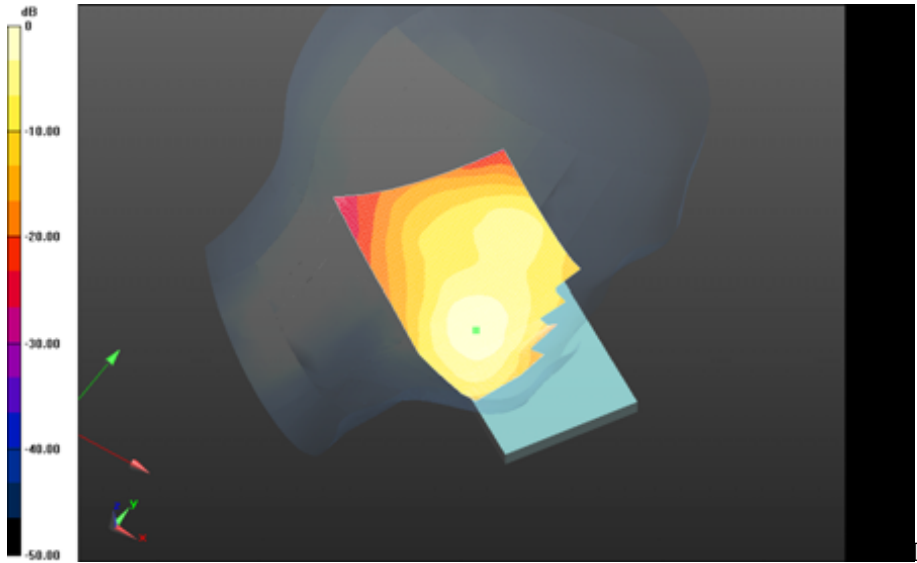
Author Data  
**Andrew Becker**

Dates of Test  
**June 11 – August 16, 2013**


Test Report No  
**RTS-6046-1308-39B**

FCC ID:  
**L6ARFX100LW**

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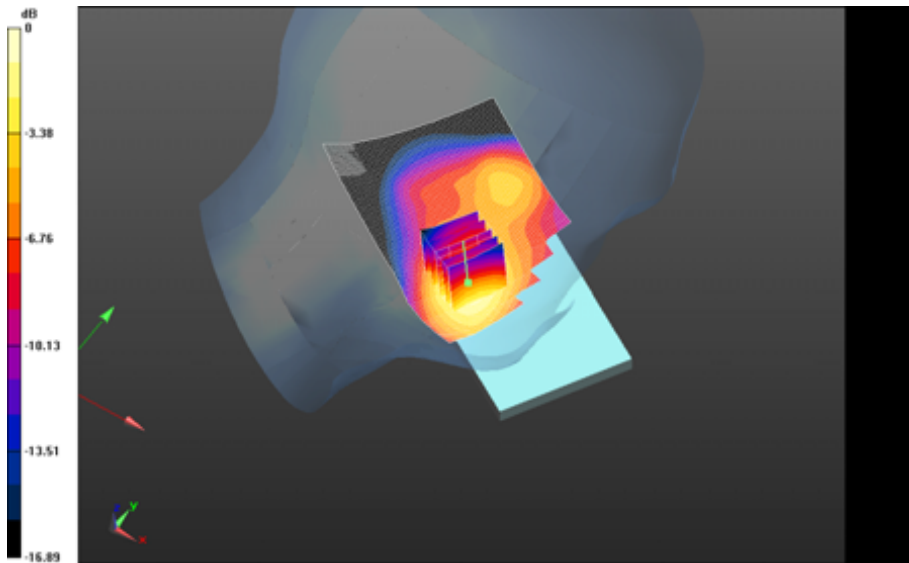
0 dB = 0.376 W/kg = -4.25 dBW/kg

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**Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900\_chan661\_amb\_temp\_23.0C\_liq\_temp\_22.5C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 6.458 V/m; **Power Drift = -0.261 dB**

**Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900\_chan661\_amb\_temp\_23.0C\_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 = 6.458 V/m; **Power Drift = -0.261 dB**

**Averaged SAR: SAR(1g) = 0.407 W/kg; SAR(10g) = 0.254 W/kg**  
Maximum value of SAR (interpolated) = 0.601 W/kg



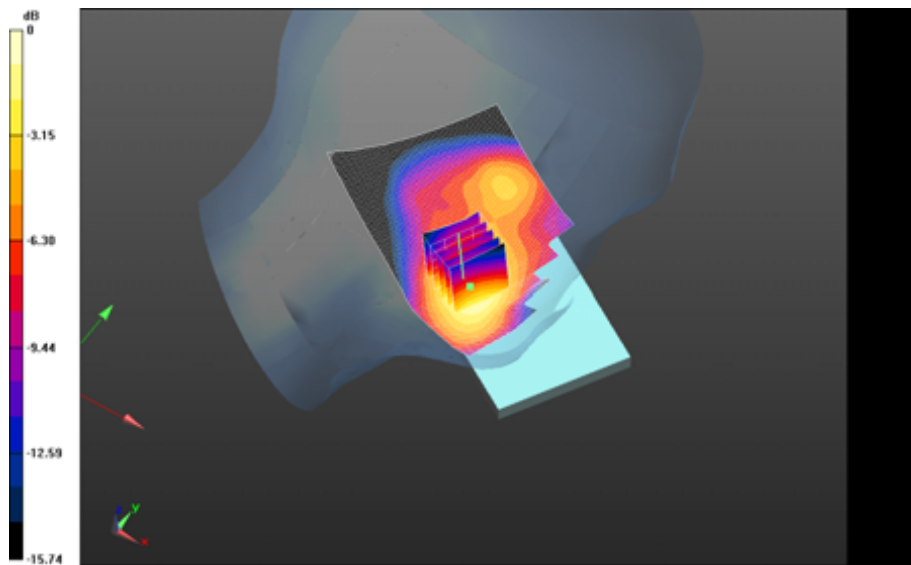
0 dB = 0.376 W/kg = -4.25 dBW/kg

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**Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900\_3-Slots\_chan661\_amb\_temp\_23.3C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 5.640 V/m; **Power Drift = -0.038 dB**

**Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900\_3-Slots\_chan661\_amb\_temp\_23.3C\_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 = 5.640 V/m; **Power Drift = -0.038 dB**

**Averaged SAR: SAR(1g) = 0.335 W/kg; SAR(10g) = 0.209 W/kg**  
Maximum value of SAR (interpolated) = 0.491 W/kg

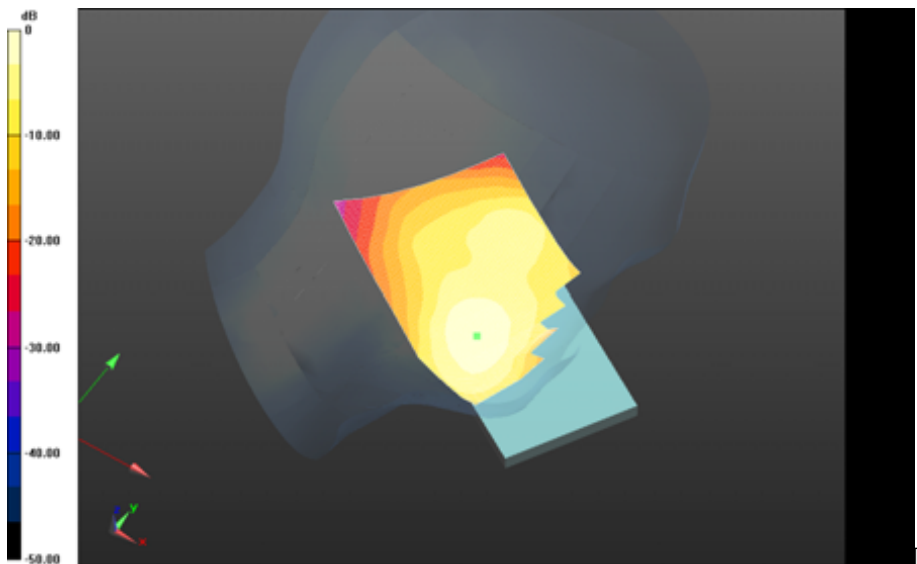


0 dB = 0.476 W/kg = -3.22 dBW/kg


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**Left-Hand-Side HSL - DTM 1900/Touch Position - EDGE1900\_4-Slots\_chan661\_amb\_temp\_22.7C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 6.097 V/m; **Power Drift = 0.041 dB**

**Fast SAR: SAR(1g) = 0.388 W/kg; SAR(10g) = 0.218 W/kg**  
Maximum value of SAR (interpolated) = 0.479 W/kg



0 dB = 0.384 W/kg = -4.16 dBW/kg

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**Left-Hand-Side HSL - DTM 1900/Tilt Position -**

**DTM1900\_chan661\_amb\_temp\_23.0C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 8.295 V/m; **Power Drift = 0.103 dB**

**Left-Hand-Side HSL - DTM 1900/Tilt Position -**

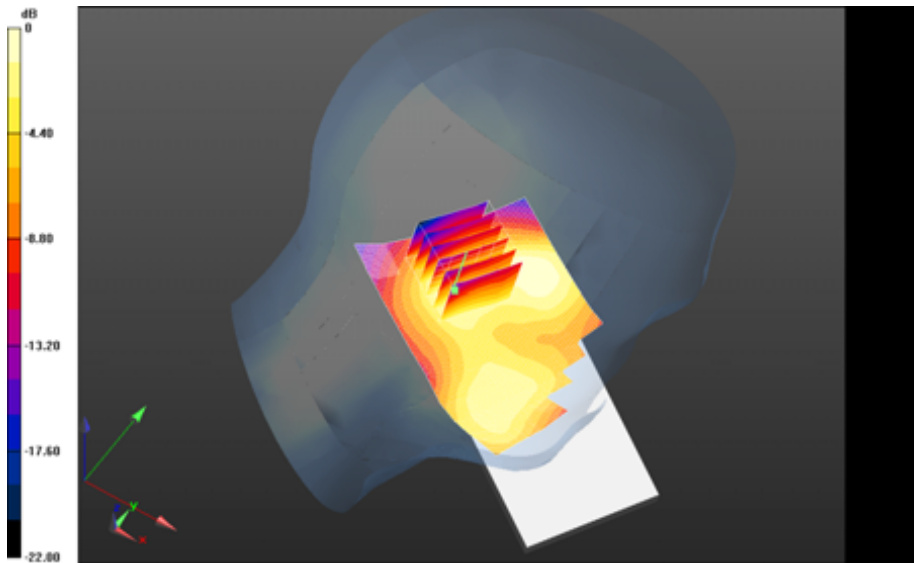
**DTM1900\_chan661\_amb\_temp\_23.0C\_liq\_temp\_22.5C/Zoom Scan (26x26x36)/Cube 0:**

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


Reference Value = 8.295 V/m; **Power Drift = 0.103 dB**

**Averaged SAR: SAR(1g) = 0.104 W/kg; SAR(10g) = 0.0628 W/kg**

Maximum value of SAR (interpolated) = 0.157 W/kg




0 dB = 0.479 W/kg = -3.20 dBW/kg

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# UMTS Band II (RFX101LW)



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Date: 6/21/2013

Test Lab: RIM Testing Services

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

**Configuration: Right-Hand-Side HSL - UMTS II**

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.391$  S/m;  $\epsilon_r = 38.715$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Right-Hand-Side HSL - UMTS II/Touch Position -**

**UMTS\_II\_chan9400\_amb\_temp\_23.0C\_liq\_temp\_21.8C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.280 V/m; **Power Drift = -0.063 dB**

**Right-Hand-Side HSL - UMTS II/Touch Position -**

**UMTS\_II\_chan9400\_amb\_temp\_23.0C\_liq\_temp\_21.8C/Zoom Scan (26x26x36)/Cube 0:**

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

Reference Value = 7.280 V/m; **Power Drift = -0.063 dB**

**Averaged SAR: SAR(1g) = 0.335 W/kg; SAR(10g) = 0.206 W/kg**

Maximum value of SAR (interpolated) = 0.494 W/kg

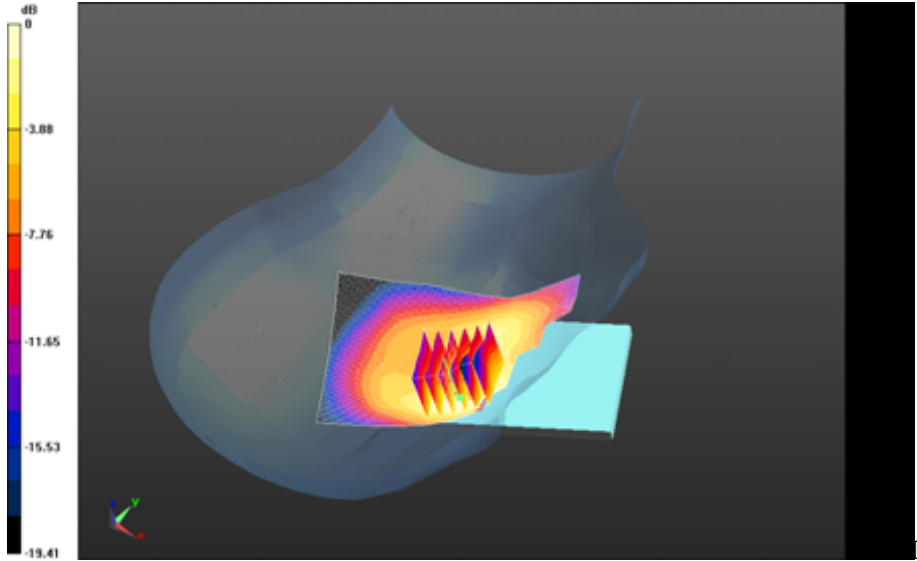
Author Data  
**Andrew Becker**

Dates of Test  
**June 11 – August 16, 2013**


Test Report No  
**RTS-6046-1308-39B**

FCC ID:  
**L6ARFX100LW**

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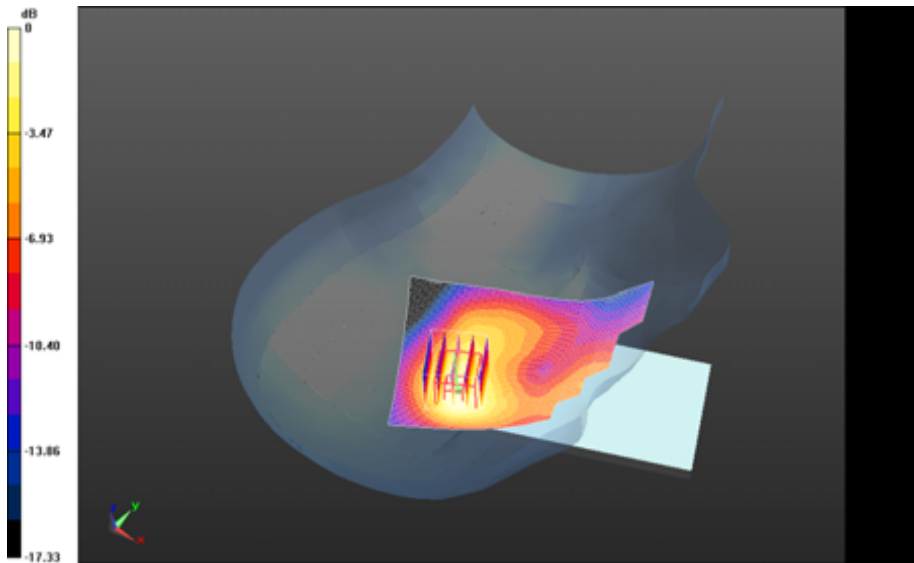
0 dB = 0.386 W/kg = -4.13 dBW/kg

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**Right-Hand-Side HSL - UMTS II/Tilt Position -**  
**UMTS\_II\_chan9400\_amb\_temp\_23.1C\_liq\_temp\_21.8C/Area Scan (61x91x1):** Interpolated  
 grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 12.200 V/m; **Power Drift = -0.075 dB**

**Right-Hand-Side HSL - UMTS II/Tilt Position -**  
**UMTS\_II\_chan9400\_amb\_temp\_23.1C\_liq\_temp\_21.8C/Zoom Scan (21x21x36)/Cube 0:**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 12.200 V/m; **Power Drift = -0.075 dB**

**Averaged SAR: SAR(1g) = 0.320 W/kg; SAR(10g) = 0.190 W/kg**  
 Maximum value of SAR (interpolated) = 0.500 W/kg



0 dB = 0.386 W/kg = -4.13 dBW/kg

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Date: 6/21/2013

Test Lab: RIM Testing Services

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

**Configuration: Left-Hand-Side HSL - UMTS II**

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1852.4 MHz

Medium Parameters used:  $f=1852.4$  MHz;  $\sigma = 1.361$  S/m;  $\epsilon_r = 38.817$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Left-Hand-Side HSL - UMTS II/Touch Position -**

**UMTS\_II\_chan9262\_amb\_temp\_23.0C\_liq\_temp\_21.8C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.698 V/m; **Power Drift = 0.057 dB**

**Fast SAR: SAR(1g) = 0.973 W/kg; SAR(10g) = 0.550 W/kg**

Maximum value of SAR (interpolated) = 1.20 W/kg

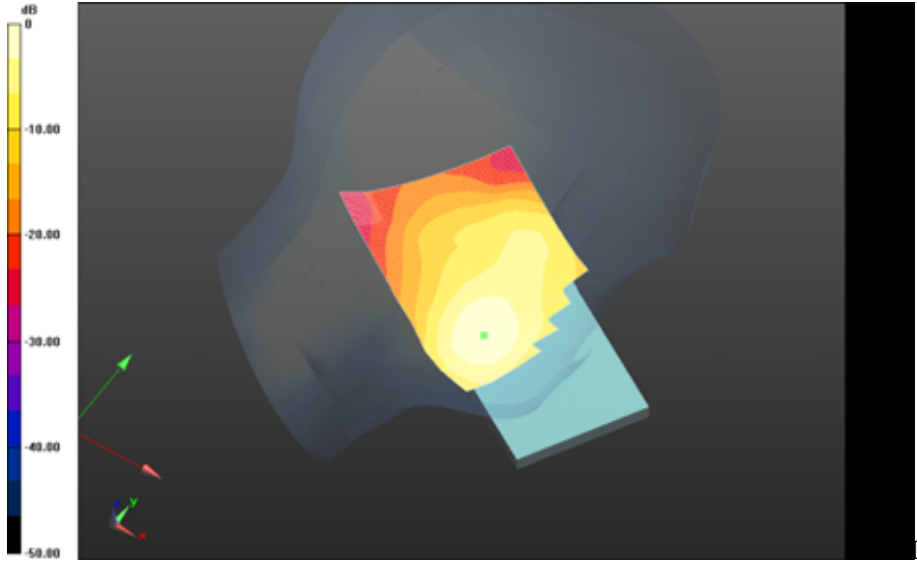
Author Data  
**Andrew Becker**

Dates of Test  
**June 11 – August 16, 2013**


Test Report No  
**RTS-6046-1308-39B**

FCC ID:  
**L6ARFX100LW**

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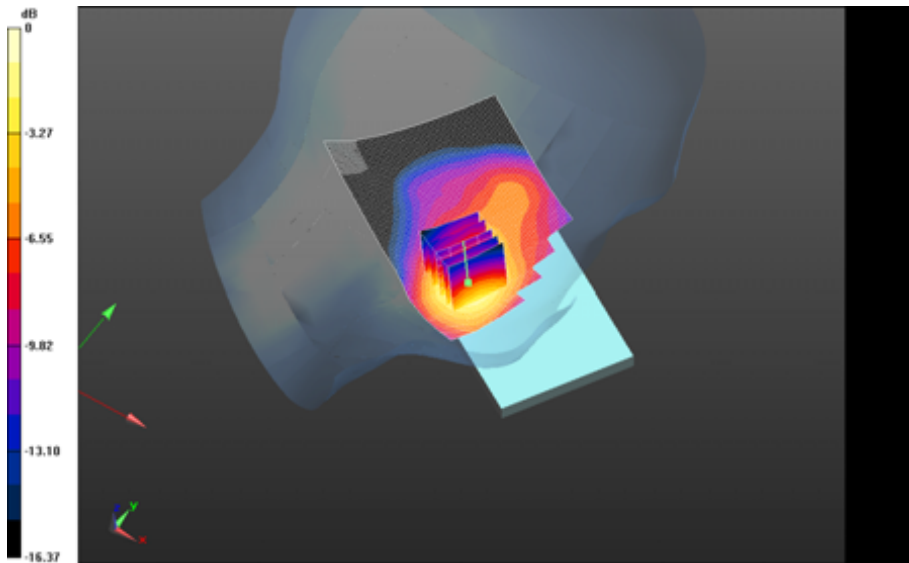
0 dB = 1.20 W/kg = 0.79 dBW/kg

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**Left-Hand-Side HSL - UMTS II/Touch Position - UMTS\_II\_chan9400\_amb\_temp\_23.1C\_liq\_temp\_21.9C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 7.621 V/m; **Power Drift = 0.082 dB**

**Left-Hand-Side HSL - UMTS II/Touch Position - UMTS\_II\_chan9400\_amb\_temp\_23.1C\_liq\_temp\_21.9C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 7.621 V/m; **Power Drift = 0.082 dB**

**Averaged SAR: SAR(1g) = 1.09 W/kg; SAR(10g) = 0.661 W/kg**  
Maximum value of SAR (interpolated) = 1.66 W/kg



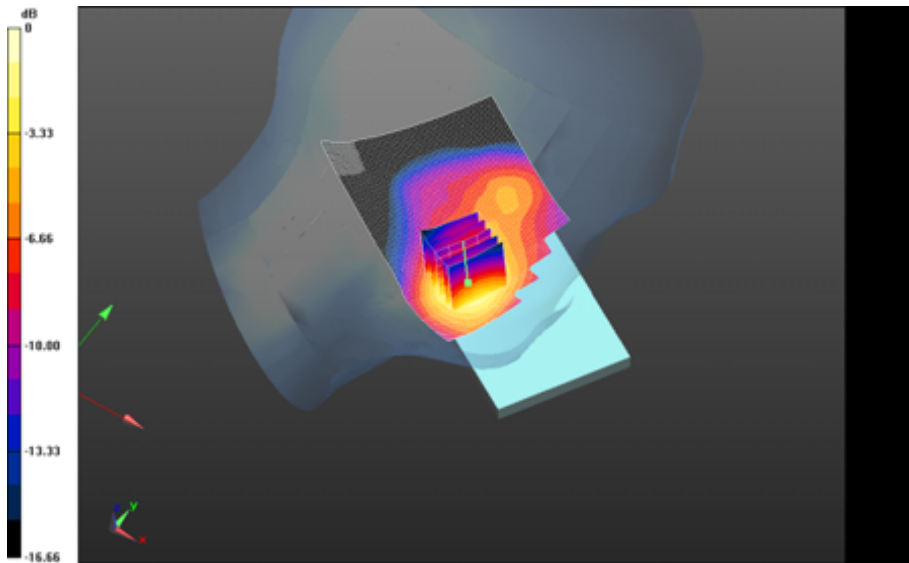
0 dB = 1.20 W/kg = 0.79 dBW/kg

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**Left-Hand-Side HSL - UMTS II/Touch Position -**  
**UMTS\_II\_chan9400\_amb\_temp\_23.1C\_liq\_temp\_21.9C\_2nd/Area Scan (61x91x1):**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 7.534 V/m; **Power Drift = 0.118 dB**

**Left-Hand-Side HSL - UMTS II/Touch Position -**  
**UMTS\_II\_chan9400\_amb\_temp\_23.1C\_liq\_temp\_21.9C\_2nd/Zoom Scan (21x21x36)/Cube 0:**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 7.534 V/m; **Power Drift = 0.118 dB**

**Averaged SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.626 W/kg**  
Maximum value of SAR (interpolated) = 1.55 W/kg



0 dB = 1.29 W/kg = 1.11 dBW/kg

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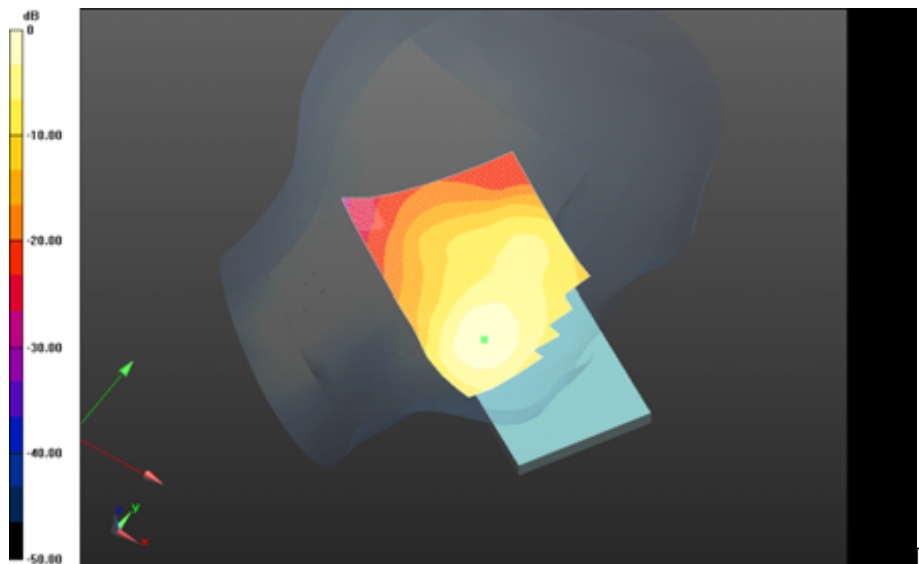
**Left-Hand-Side HSL - UMTS II/Touch Position -**

**UMTS\_II\_chan9538\_amb\_temp\_23.1C\_liq\_temp\_21.9C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.432 V/m; **Power Drift = -0.00983 dB**


**Fast SAR: SAR(1g) = 0.946 W/kg; SAR(10g) = 0.525 W/kg**

Maximum value of SAR (interpolated) = 1.18 W/kg



0 dB = 1.22 W/kg = 0.86 dBW/kg



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**Left-Hand-Side HSL - UMTS II/Tilt Position -**

**UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_22.0C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 12.488 V/m; **Power Drift = -0.076 dB**

**Left-Hand-Side HSL - UMTS II/Tilt Position -**

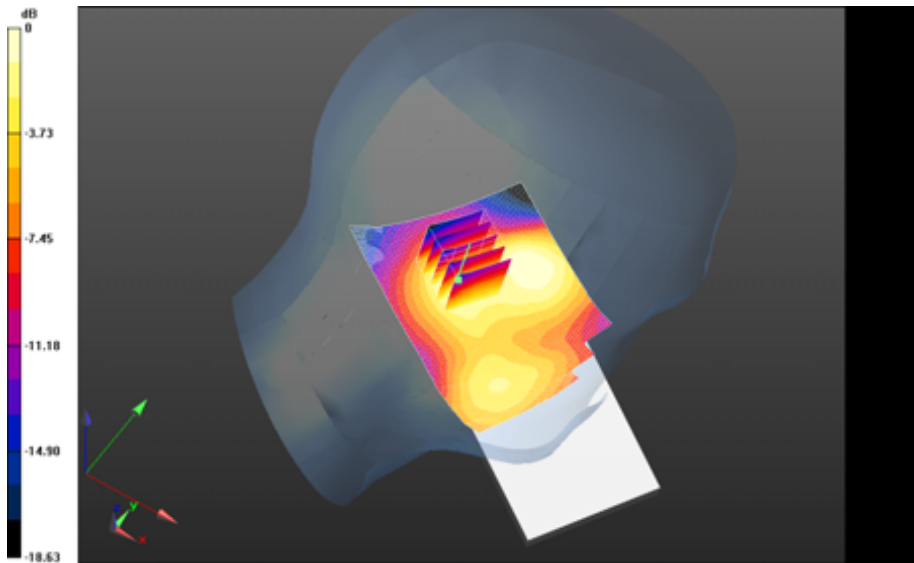
**UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_22.0C/Zoom Scan (21x21x36)/Cube 0:**

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


Reference Value = 12.488 V/m; **Power Drift = -0.076 dB**

**Averaged SAR: SAR(1g) = 0.250 W/kg; SAR(10g) = 0.152 W/kg**


Maximum value of SAR (interpolated) = 0.378 W/kg



0 dB = 1.18 W/kg = 0.72 dBW/kg

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# Bluetooth (RFX101LW)

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Date: 6/17/2013

Test Lab: RIM Testing Services

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

**Configuration: Right-Hand-Side HSL - Bluetooth**

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2402 MHz

Medium Parameters used: f=2402 MHz;  $\sigma = 1.710$  S/m;  $\epsilon_r = 39.557$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Right-Hand-Side HSL - Bluetooth/Touch Position -**

**Bluetooth\_chan0\_amb\_temp\_23.1C\_liq\_temp\_21.7C/Area Scan (81x131x1):** Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.125 W/kg

**Right-Hand-Side HSL - Bluetooth/Touch Position -**

**Bluetooth\_chan0\_amb\_temp\_23.1C\_liq\_temp\_21.7C/Zoom Scan (36x36x36)/Cube 0:**

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

Reference Value = 4.223 V/m; **Power Drift = 0.230 dB**

**Averaged SAR: SAR(1g) = 0.0974 W/kg; SAR(10g) = 0.0461 W/kg**

Maximum value of SAR (interpolated) = 0.208 W/kg

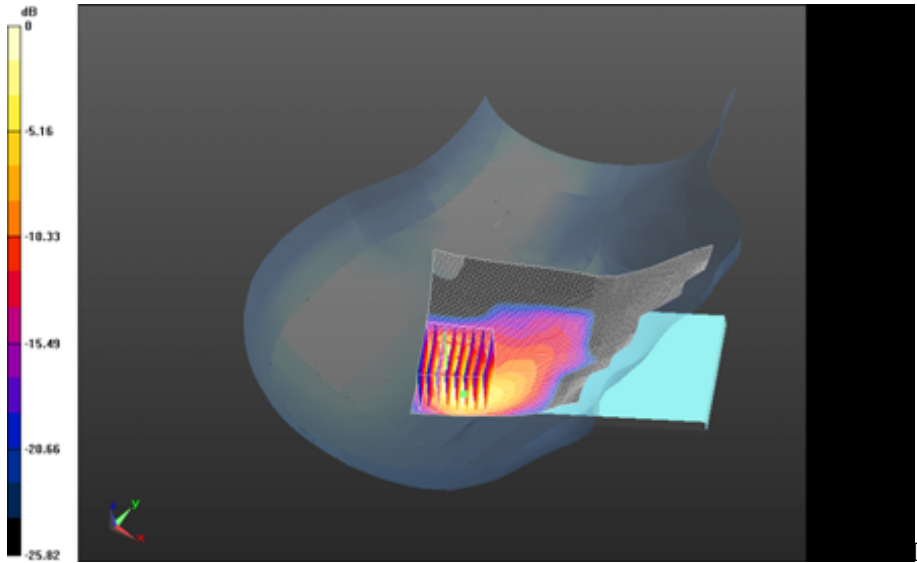
Author Data  
**Andrew Becker**

Dates of Test  
**June 11 – August 16, 2013**


Test Report No  
**RTS-6046-1308-39B**

FCC ID:  
**L6ARFX100LW**

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0 dB = 0.135 W/kg = -8.70 dBW/kg

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**Right-Hand-Side HSL - Bluetooth/Tilt Position -**

**Bluetooth\_chan0\_amb\_temp\_23.3C\_liq\_temp\_22.0C/Area Scan (81x121x1):** Interpolated grid:  
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.144 W/kg

**Right-Hand-Side HSL - Bluetooth/Tilt Position -**

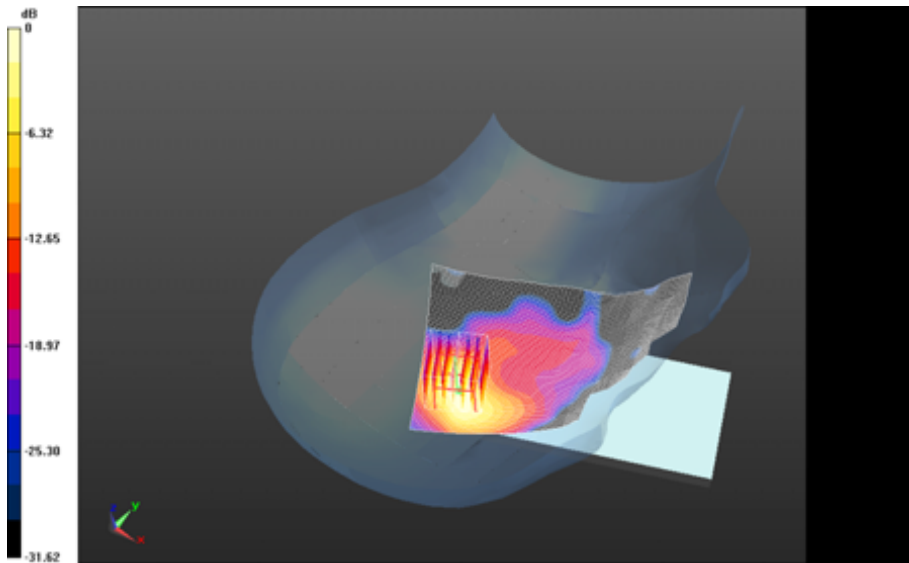
**Bluetooth\_chan0\_amb\_temp\_23.3C\_liq\_temp\_22.0C/Zoom Scan (31x31x36)/Cube 0:**

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


Reference Value = 3.621 V/m; **Power Drift = 0.030 dB**

**Averaged SAR: SAR(1g) = 0.116 W/kg; SAR(10g) = 0.0503 W/kg**

Maximum value of SAR (interpolated) = 0.237 W/kg



0 dB = 0.135 W/kg = -8.70 dBW/kg

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Date: 6/18/2013

Test Lab: RIM Testing Services

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

**Configuration: Left-Hand-Side HSL - Bluetooth**

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2402 MHz  
Medium Parameters used: f=2402 MHz;  $\sigma = 1.710$  S/m;  $\epsilon_r = 39.557$ ;  $\rho = 1.000$  g/cm<sup>3</sup>  
Phantom section: Left Section

**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Left-Hand-Side HSL - Bluetooth/Touch Position -**

**Bluetooth\_chan0\_amb\_temp\_23.2C\_liq\_temp\_21.8C/Area Scan (81x131x1):** Interpolated grid:  
dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 0.0702 W/kg

**Left-Hand-Side HSL - Bluetooth/Touch Position -**

**Bluetooth\_chan0\_amb\_temp\_23.2C\_liq\_temp\_21.8C/Zoom Scan (31x31x36)/Cube 0:**  
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
Reference Value = 4.361 V/m; **Power Drift = 0.149 dB**

**Averaged SAR: SAR(1g) = 0.0532 W/kg; SAR(10g) = 0.0243 W/kg**

Maximum value of SAR (interpolated) = 0.105 W/kg

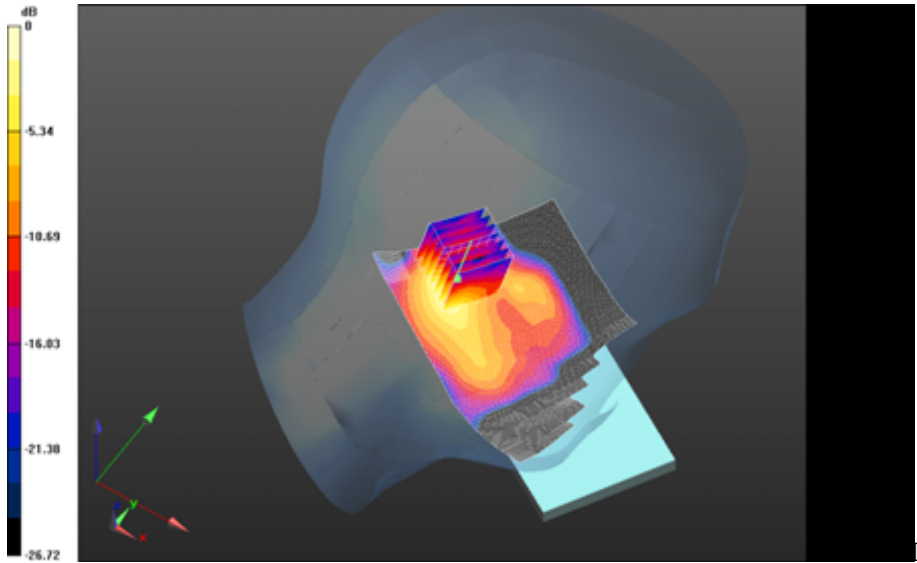
Author Data  
**Andrew Becker**

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Test Report No  
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FCC ID:  
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0 dB = 0.0710 W/kg = -11.49 dBW/kg

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**Left-Hand-Side HSL - Bluetooth/Tilt Position -**

**Bluetooth\_chan0\_amb\_temp\_23.2C\_liq\_temp\_21.8C/Area Scan (81x111x1):** Interpolated grid:  
 dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0700 W/kg

**Left-Hand-Side HSL - Bluetooth/Tilt Position -**

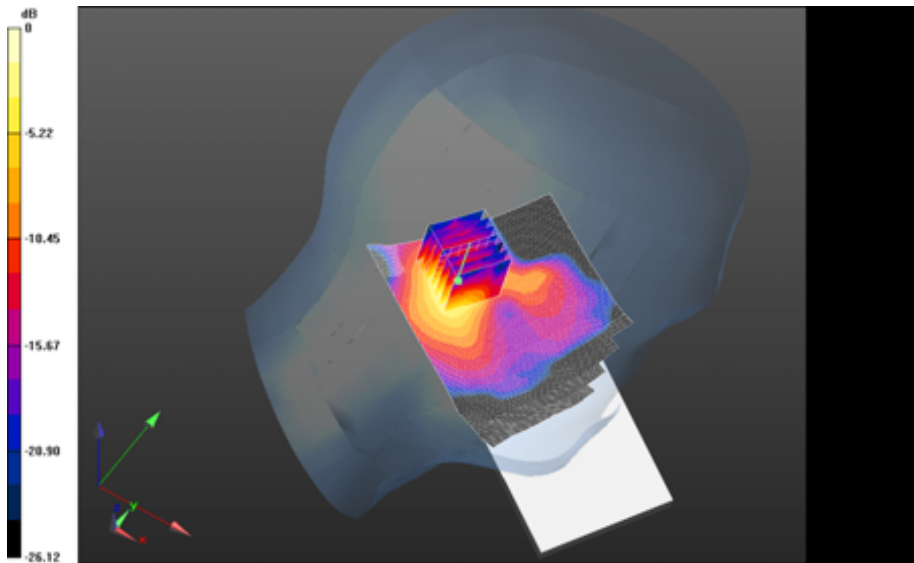
**Bluetooth\_chan0\_amb\_temp\_23.2C\_liq\_temp\_21.8C/Zoom Scan (31x31x36)/Cube 0:**

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

Reference Value = 3.513 V/m; **Power Drift = 0.225 dB**


**Averaged SAR: SAR(1g) = 0.0519 W/kg; SAR(10g) = 0.0238 W/kg**

Maximum value of SAR (interpolated) = 0.102 W/kg




0 dB = 0.0710 W/kg = -11.49 dBW/kg



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# 802.11a Full Power (RFX101LW)

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Date: 6/18/2013

Test Lab: RIM Testing Services

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

**Configuration: Right-Hand-Side HSL - 802.11a 5200 MHz**

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

Medium Parameters used: f=5180 MHz;  $\sigma = 4.633$  S/m;  $\epsilon_r = 34.505$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (5.13,5.13,5.13); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -**

**802.11a\_chan36\_low\_band\_amb\_temp\_24.2C\_liq\_temp\_21.7C/Area Scan (101x141x1):**

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

Maximum value of SAR (interpolated) = 0.850 W/kg

**Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -**

**802.11a\_chan36\_low\_band\_amb\_temp\_24.2C\_liq\_temp\_21.7C/Zoom Scan (41x41x61)/Cube**

**0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 3.899 V/m; **Power Drift = 0.462 dB**

**Averaged SAR: SAR(1g) = 0.422 W/kg; SAR(10g) = 0.148 W/kg**

Maximum value of SAR (interpolated) = 1.59 W/kg

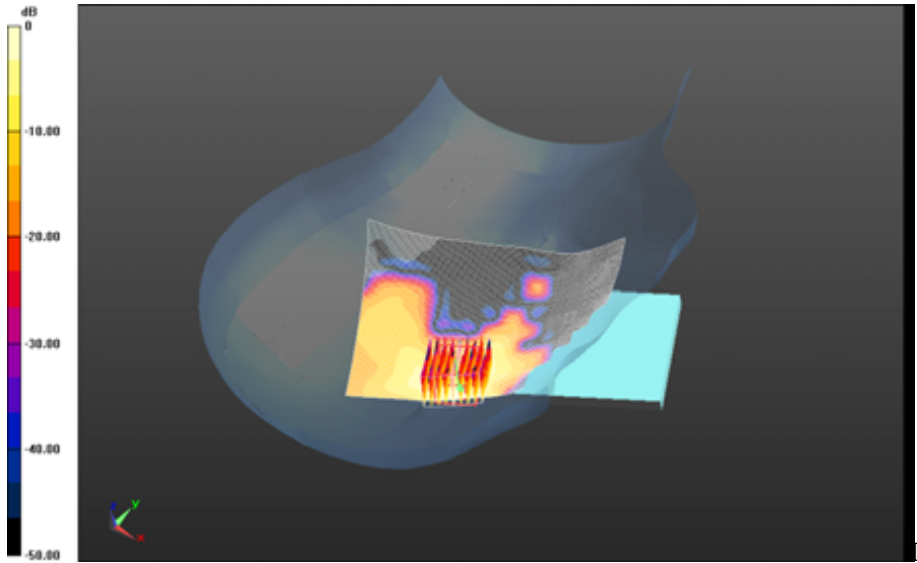
Author Data  
**Andrew Becker**

Dates of Test  
**June 11 – August 16,2013**


Test Report No  
**RTS-6046-1308-39B**

FCC ID:  
**L6ARFX100LW**

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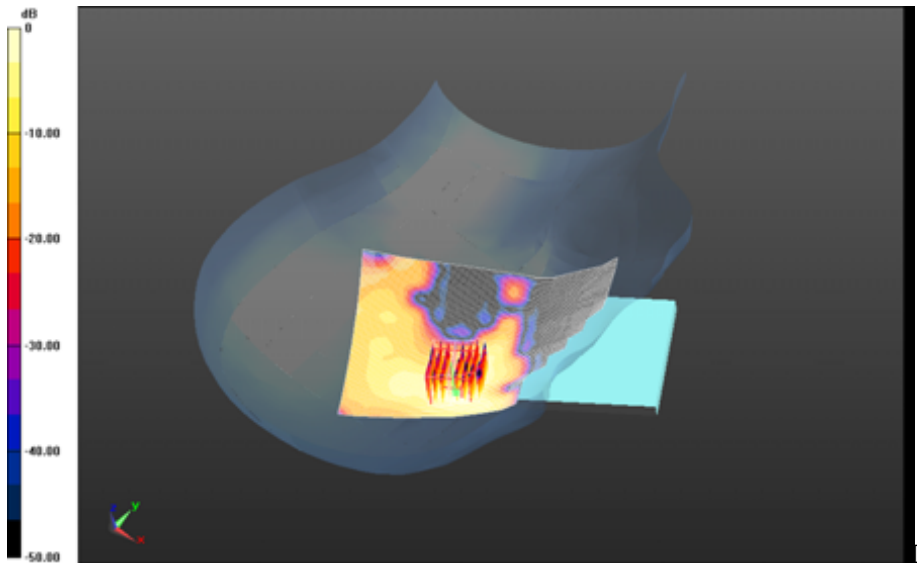
0 dB = 0.803 W/kg = -0.95 dBW/kg

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**Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -**  
**802.11a\_chan52\_low\_band\_amb\_temp\_23.4C\_liq\_temp\_21.7C/Area Scan (101x141x1):**  
 Interpolated grid: dx=1.000 mm, dy=1.000 mm  
 Maximum value of SAR (interpolated) = 0.754 W/kg

**Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -**  
**802.11a\_chan52\_low\_band\_amb\_temp\_23.4C\_liq\_temp\_21.7C/Zoom Scan (36x36x61)/Cube**  
**0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
 Reference Value = 2.772 V/m; **Power Drift = 0.071 dB**

**Averaged SAR: SAR(1g) = 0.382 W/kg; SAR(10g) = 0.138 W/kg**  
 Maximum value of SAR (interpolated) = 1.49 W/kg



0 dB = 0.803 W/kg = -0.95 dBW/kg

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Date: 6/19/2013

Test Lab: RIM Testing Services

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

**Configuration: Right-Hand-Side HSL - 802.11a 5500 MHz**

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

Medium Parameters used:  $f=5520$  MHz;  $\sigma = 4.937$  S/m;  $\epsilon_r = 34.089$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.79,4.79,4.79); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Right-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -**

**802.11a\_chan104\_Upper\_band1\_amb\_temp\_23.4C\_liq\_temp\_21.7C/Area Scan (101x141x1):**

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

Maximum value of SAR (interpolated) = 1.11 W/kg

**Right-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -**

**802.11a\_chan104\_Upper\_band1\_amb\_temp\_23.4C\_liq\_temp\_21.7C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 2.741 V/m; **Power Drift = 0.409 dB**

**Averaged SAR: SAR(1g) = 0.542 W/kg; SAR(10g) = 0.181 W/kg**

Maximum value of SAR (interpolated) = 2.17 W/kg

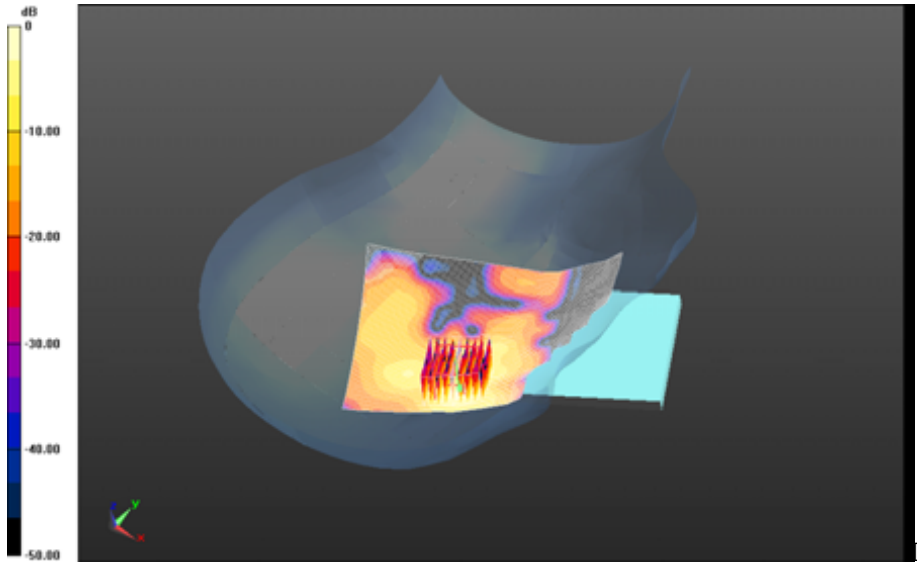
Author Data  
**Andrew Becker**

Dates of Test  
**June 11 – August 16, 2013**


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**RTS-6046-1308-39B**

FCC ID:  
**L6ARFX100LW**

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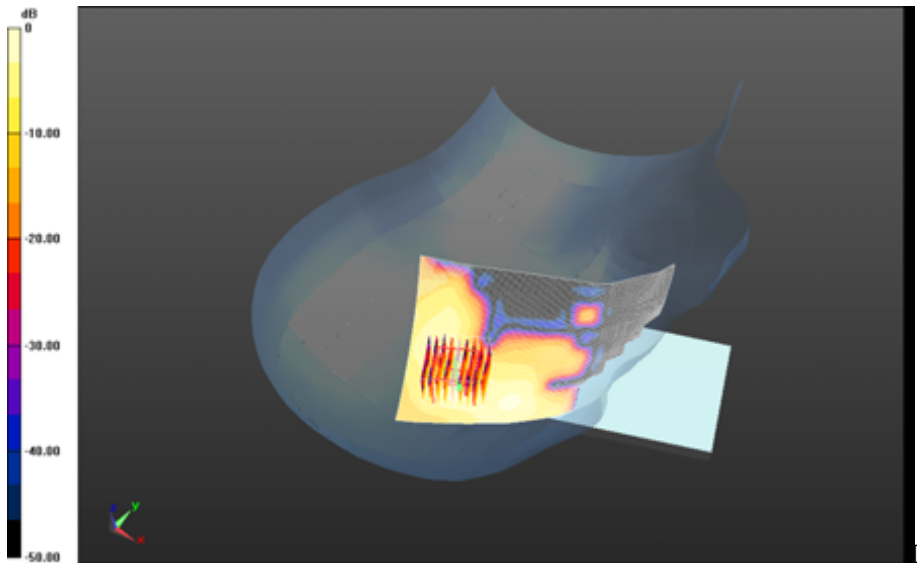
0 dB = 1.06 W/kg = 0.25 dBW/kg

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**Right-Hand-Side HSL - 802.11a 5500 MHz/Tilt Position - 802.11a\_chan104\_Upper\_bandI\_amb\_temp\_23.4C\_liq\_temp\_22.6C/Area Scan (101x141x1):**  
Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0.376 W/kg

**Right-Hand-Side HSL - 802.11a 5500 MHz/Tilt Position - 802.11a\_chan104\_Upper\_bandI\_amb\_temp\_23.4C\_liq\_temp\_22.6C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 9.928 V/m; **Power Drift = 0.254 dB**

**Averaged SAR: SAR(1g) = 0.206 W/kg; SAR(10g) = 0.0644 W/kg**  
Maximum value of SAR (interpolated) = 0.851 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

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Date: 6/19/2013

Test Lab: RIM Testing Services

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

**Configuration: Right-Hand-Side HSL - 802.11a 5800 MHz**

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

Medium Parameters used:  $f=5745$  MHz;  $\sigma = 5.272$  S/m;  $\epsilon_r = 33.963$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.61,4.61,4.61); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Right-Hand-Side HSL - 802.11a 5800 MHz/Touch Position -**

**802.11a\_chan149\_Upper\_bandII\_amb\_temp\_23.7C\_liq\_temp\_21.7C/Area Scan (101x141x1):**

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

Maximum value of SAR (interpolated) = 0.983 W/kg

**Right-Hand-Side HSL - 802.11a 5800 MHz/Touch Position -**

**802.11a\_chan149\_Upper\_bandII\_amb\_temp\_23.7C\_liq\_temp\_21.7C/Zoom Scan**

**(31x31x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 2.147 V/m; **Power Drift = 0.247 dB**

**Averaged SAR: SAR(1g) = 0.497 W/kg; SAR(10g) = 0.170 W/kg**

Maximum value of SAR (interpolated) = 1.98 W/kg



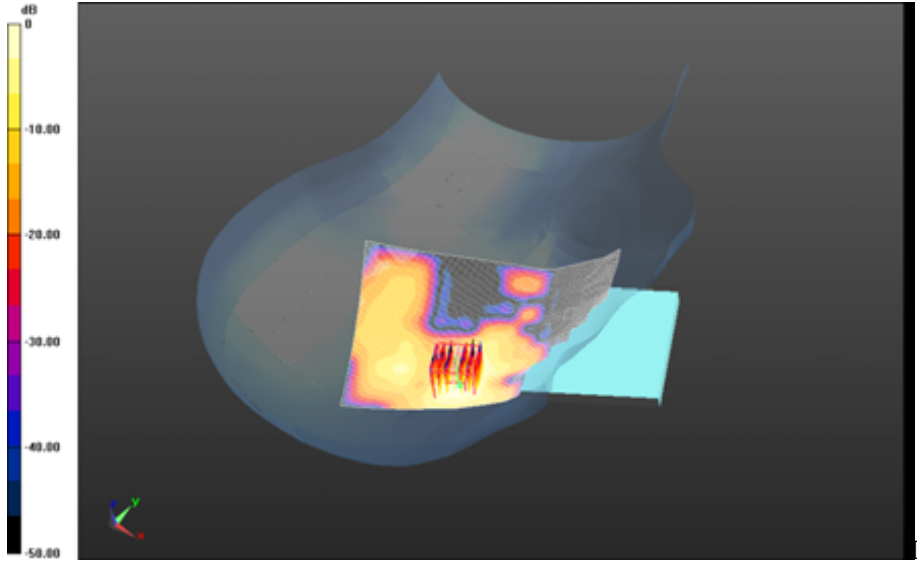
Author Data  
**Andrew Becker**

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FCC ID:  
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0 dB = 0.974 W/kg = -0.11 dBW/kg

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Date: 6/19/2013

Test Lab: RIM Testing Services

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

**Configuration: Left-Hand-Side HSL - 802.11a 5200 MHz**

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

Medium Parameters used:  $f=5180$  MHz;  $\sigma = 4.633$  S/m;  $\epsilon_r = 34.505$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (5.13,5.13,5.13); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Left-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -**

**802.11a\_chan36\_low\_band\_amb\_temp\_24.3C\_liq\_temp\_21.3C/Area Scan (101x141x1):**

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

Maximum value of SAR (interpolated) = 0.244 W/kg

**Left-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -**

**802.11a\_chan36\_low\_band\_amb\_temp\_24.3C\_liq\_temp\_21.3C/Zoom Scan (36x36x61)/Cube**

**0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 7.536 V/m; **Power Drift = 0.083 dB**

**Averaged SAR: SAR(1g) = 0.130 W/kg; SAR(10g) = 0.0535 W/kg**

Maximum value of SAR (interpolated) = 0.481 W/kg

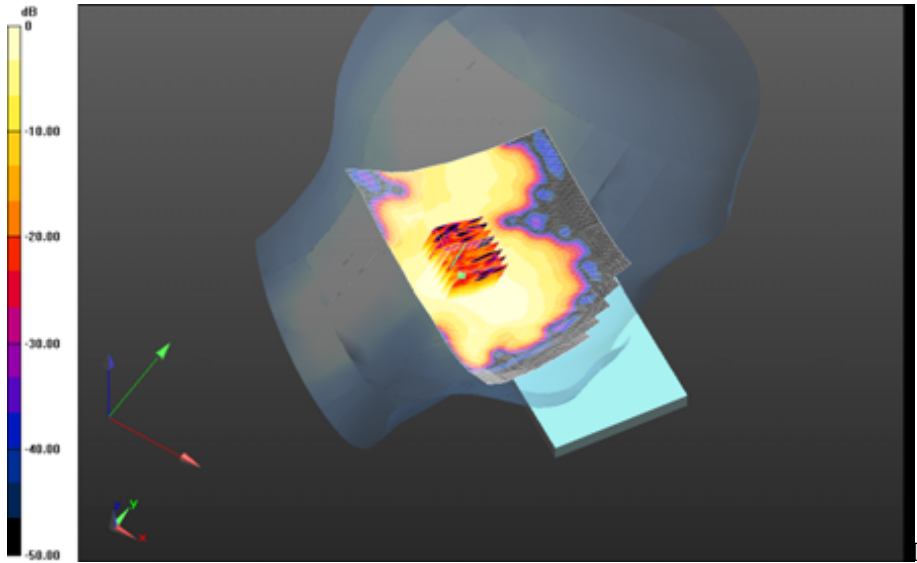
Author Data  
**Andrew Becker**

Dates of Test  
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Test Report No  
**RTS-6046-1308-39B**

FCC ID:  
**L6ARFX100LW**

IC



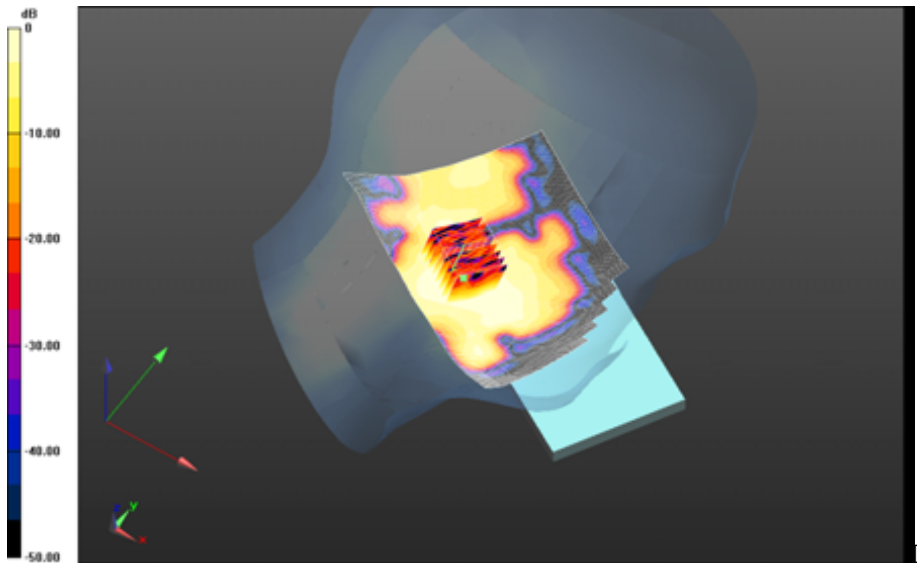
0 dB = 0.241 W/kg = -6.18 dBW/kg

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**Left-Hand-Side HSL - 802.11a 5200 MHz/Touch Position - 802.11a\_chan52\_low\_band\_amb\_temp\_23.9C\_liq\_temp\_21.3C/Area Scan (101x141x1):**  
Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0.296 W/kg

**Left-Hand-Side HSL - 802.11a 5200 MHz/Touch Position - 802.11a\_chan52\_low\_band\_amb\_temp\_23.9C\_liq\_temp\_21.3C/Zoom Scan (36x36x61)/Cube 0:**  
Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 8.757 V/m; **Power Drift = 0.030 dB**

**Averaged SAR: SAR(1g) = 0.161 W/kg; SAR(10g) = 0.0658 W/kg**  
Maximum value of SAR (interpolated) = 0.600 W/kg



0 dB = 0.241 W/kg = -6.18 dBW/kg

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Date: 6/19/2013

Test Lab: RIM Testing Services

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

**Configuration: Left-Hand-Side HSL - 802.11a 5500 MHz**

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

Medium Parameters used:  $f=5520$  MHz;  $\sigma = 4.937$  S/m;  $\epsilon_r = 34.089$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.79,4.79,4.79); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Left-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -**

**802.11a\_chan104\_Upper\_band1\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Area Scan (101x141x1):**

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

Maximum value of SAR (interpolated) = 0.505 W/kg

**Left-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -**

**802.11a\_chan104\_Upper\_band1\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 10.618 V/m; **Power Drift = 0.096 dB**

**Averaged SAR: SAR(1g) = 0.263 W/kg; SAR(10g) = 0.102 W/kg**

Maximum value of SAR (interpolated) = 0.960 W/kg

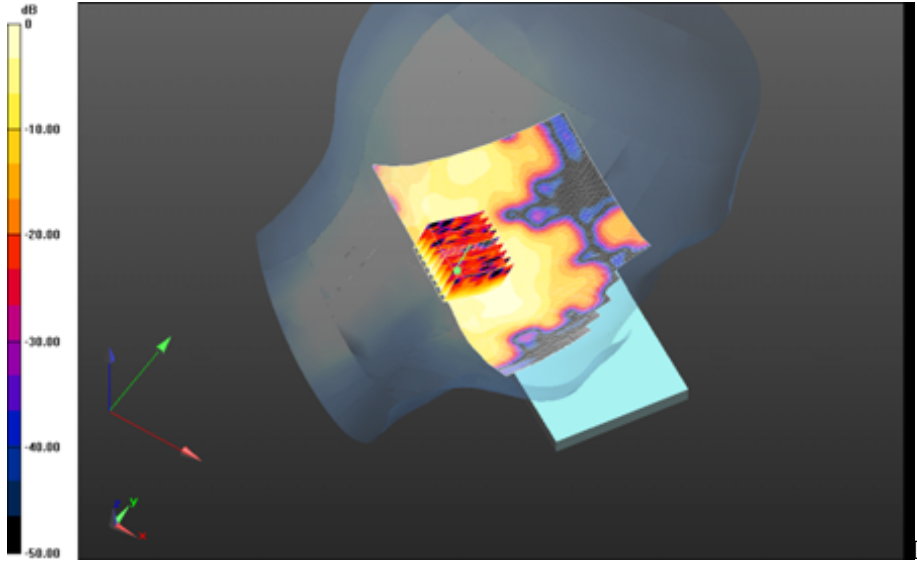
Author Data  
**Andrew Becker**

Dates of Test  
**June 11 – August 16,2013**


Test Report No  
**RTS-6046-1308-39B**

FCC ID:  
**L6ARFX100LW**

IC



0 dB = 0.482 W/kg = -3.17 dBW/kg

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Date: 6/19/2013

Test Lab: RIM Testing Services

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

**Configuration: Left-Hand-Side HSL - 802.11a 5800 MHz**

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

Medium Parameters used:  $f=5745$  MHz;  $\sigma = 5.272$  S/m;  $\epsilon_r = 33.963$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.61,4.61,4.61); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Left-Hand-Side HSL - 802.11a 5800 MHz/Touch Position -**

**802.11a\_chan149\_Upper\_bandII\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Area Scan (101x141x1):**

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

Maximum value of SAR (interpolated) = 0.533 W/kg

**Left-Hand-Side HSL - 802.11a 5800 MHz/Touch Position -**

**802.11a\_chan149\_Upper\_bandII\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Zoom Scan**

**(36x36x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 10.760 V/m; **Power Drift = 0.145 dB**

**Averaged SAR: SAR(1g) = 0.291 W/kg; SAR(10g) = 0.111 W/kg**

Maximum value of SAR (interpolated) = 1.12 W/kg

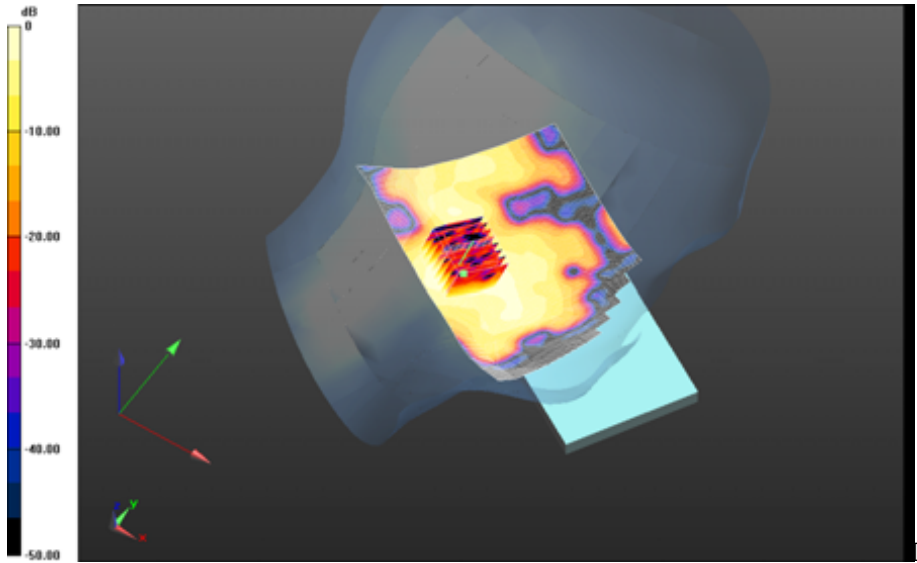
Author Data  
**Andrew Becker**

Dates of Test  
**June 11 – August 16, 2013**

Test Report No  
**RTS-6046-1308-39B**


FCC ID:  
**L6ARFX100LW**

IC



0 dB = 0.548 W/kg = -2.61 dBW/kg

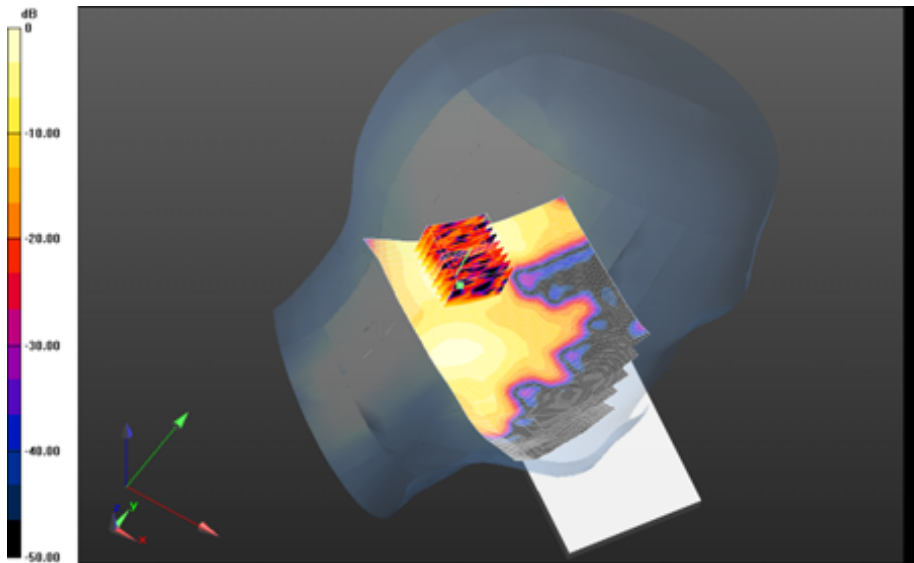


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**Left-Hand-Side HSL - 802.11a 5800 MHz/Tilt Position - 802.11a\_chan149\_Upper\_bandII\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Area Scan (101x151x1):**  
Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0.348 W/kg

**Left-Hand-Side HSL - 802.11a 5800 MHz/Tilt Position - 802.11a\_chan149\_Upper\_bandII\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 6.967 V/m; **Power Drift = 0.358 dB**

**Averaged SAR: SAR(1g) = 0.173 W/kg; SAR(10g) = 0.0548 W/kg**  
Maximum value of SAR (interpolated) = 0.623 W/kg



0 dB = 0.548 W/kg = -2.61 dBW/kg