

	Document Appendix A for the BlackBerry® Smartphone Model RFX101LW SAR Report			Page 1(4)
Author Data Andrew Becker	Dates of Test March 24-26, 2014 December 8-12, 2014	Test Report No RTS-6046-1404-01Rev 2	FCC ID: L6ARFX100LW	IC ID

APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

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Date/Time: 12/8/2014 11:58:15 AM

Test Laboratory: BlackBerry RTS

**DipoleValidation_5200-5800MHz_12_08_14_Amb_Tem_24.2C
_Liq_Tem_22.6C**

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN 1033

Communication System: UID 0, CW (0); Frequency: 5200 MHz

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.67$ S/m; $\epsilon_r = 34.276$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.63, 4.63, 4.63); Calibrated: 11/10/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequency 5.2 GHz/d=10mm,
Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x91x1):** Interpolated
grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 180 W/kg

**System Performance Check at Frequency 5.2 GHz/d=10mm,
Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12)
(7x7x12)/Cube 0:** Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
Reference Value = 203.8 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 339 W/kg
SAR(1 g) = 83.7 W/kg; SAR(10 g) = 24.2 W/kg (SAR corrected for target
medium)
Maximum value of SAR (measured) = 173 W/kg

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Date/Time: 12/8/2014 12:46:30 PM

Test Laboratory: BlackBerry RTS

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN 1033

Communication System: UID 0, CW (0); Frequency: 5800 MHz

Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.403 \text{ S/m}$; $\epsilon_r = 33.704$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

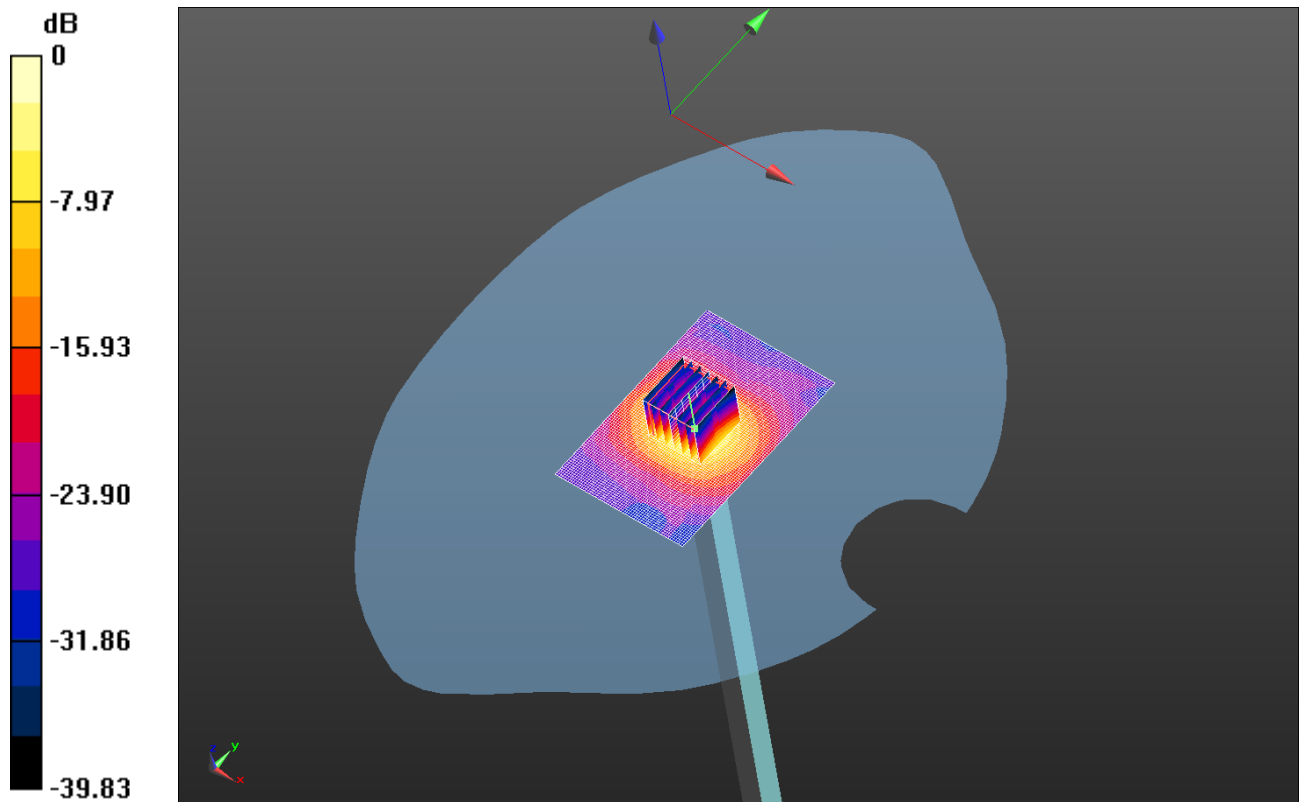
DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.34, 4.34, 4.34); Calibrated: 11/10/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequency 5.8 GHz/d=10mm,
Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x91x1):** Interpolated
grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 191 W/kg

**System Performance Check at Frequency 5.8 GHz/d=10mm,
Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12)
(7x7x12)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 197.5 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 380 W/kg
SAR(1 g) = 85.8 W/kg; SAR(10 g) = 24.4 W/kg (SAR corrected for target
medium)
Maximum value of SAR (measured) = 182 W/kg

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0 dB = 182 W/kg = 22.60 dBW/kg

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