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**APPENDIX C2: SAR DISTRIBUTION PLOTS FOR HOT SPOT CONFIGURATION**

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# Model: RFS121LW

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# GPRS 850

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Date: 3/14/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49**

**Configuration: Mobile Hot Spot MSL - GPRS 850**

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

Medium Parameters used:  $f=836.8$  MHz;  $\sigma = 0.977$  S/m;  $\epsilon_r = 54.597$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS**

**850\_chan190\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Area Scan (61x91x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm

Reference Value = 30.269 V/m; **Power Drift = 0.283 dB**

**Fast SAR: SAR(1g) = 0.781 W/kg; SAR(10g) = 0.544 W/kg; Secondary SAR(1g) = 0.629 W/kg**

Maximum value of SAR (interpolated) = 0.887 W/kg

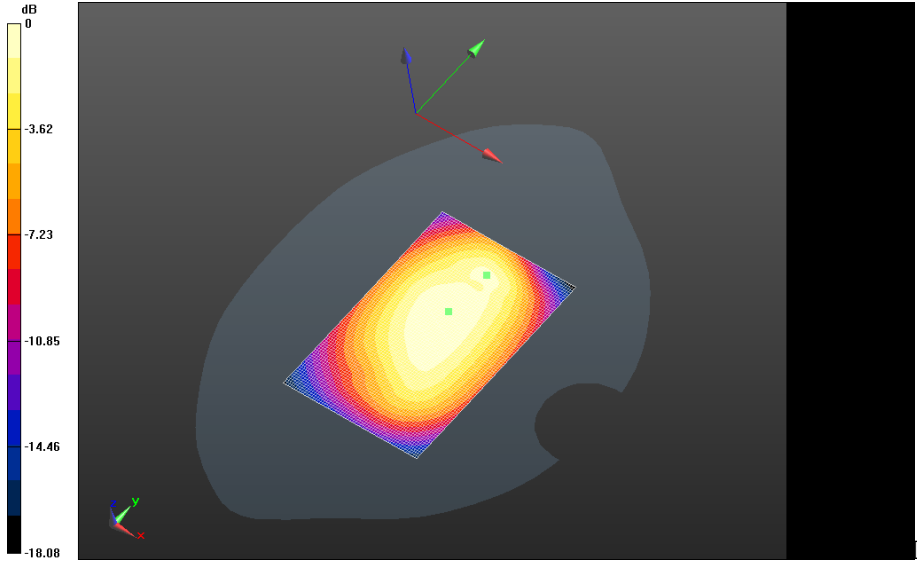
Author Data  
**Andrew Becker**

Dates of Test  
**Mar 04 –May 13, 2013**


Test Report No  
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FCC ID:  
**L6ARFT80UW**

IC  
**2503A-RFT80UW**



0 dB = 0.887 W/kg = -0.52 dBW/kg

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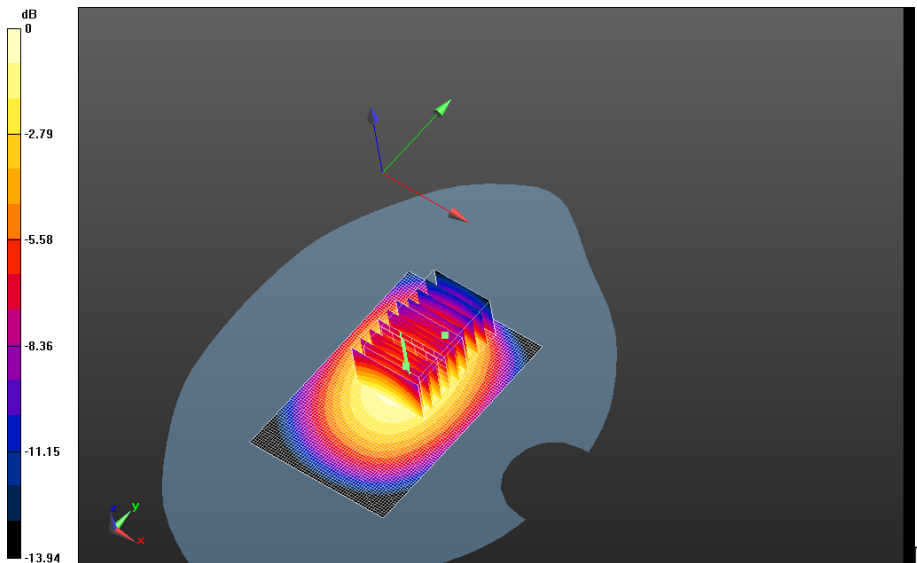
**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan128\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 36.033 V/m; **Power Drift = -0.018 dB**

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan128\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Zoom Scan (31x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 36.033 V/m; **Power Drift = -0.018 dB**


**Averaged SAR: SAR(1g) = 1.14 W/kg; SAR(10g) = 0.838 W/kg**  
Maximum value of SAR (interpolated) = 1.49 W/kg

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan128\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Zoom Scan 2 (26x41x36)/Cube 0:**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 36.033 V/m; **Power Drift = -0.040 dB**

**Averaged SAR: SAR(1g) = 1.14 W/kg; SAR(10g) = 0.833 W/kg**  
Maximum value of SAR (interpolated) = 1.51 W/kg



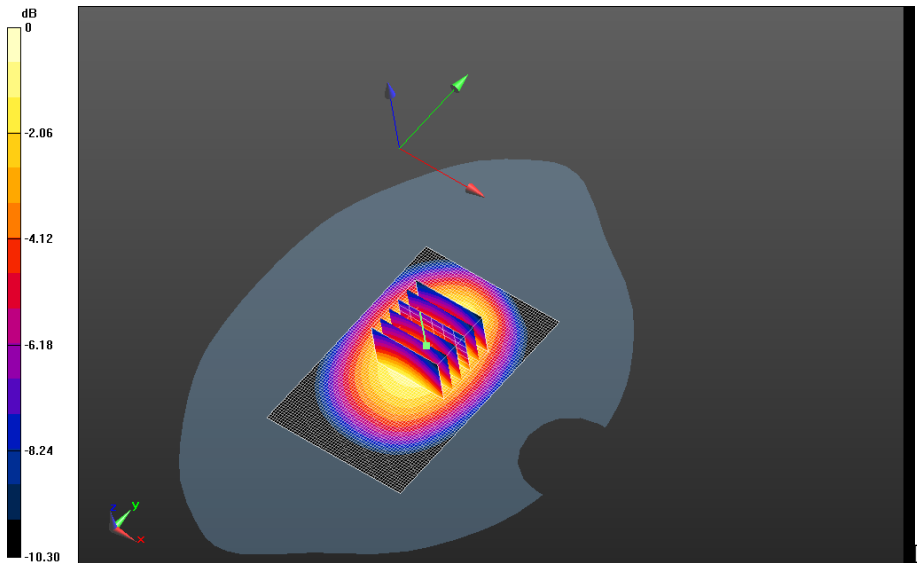
0 dB = 0.710 W/kg = -1.49 dBW/kg


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**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan128\_amb\_temp\_23.6C\_liq\_temp\_21.7C\_2nd scan/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 36.009 V/m; **Power Drift = -0.0061 dB**

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan128\_amb\_temp\_23.6C\_liq\_temp\_21.7C\_2nd scan/Zoom Scan (31x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 36.009 V/m; **Power Drift = -0.0061 dB**

**Averaged SAR: SAR(1g) = 1.15 W/kg; SAR(10g) = 0.845 W/kg**  
 Maximum value of SAR (interpolated) = 1.52 W/kg



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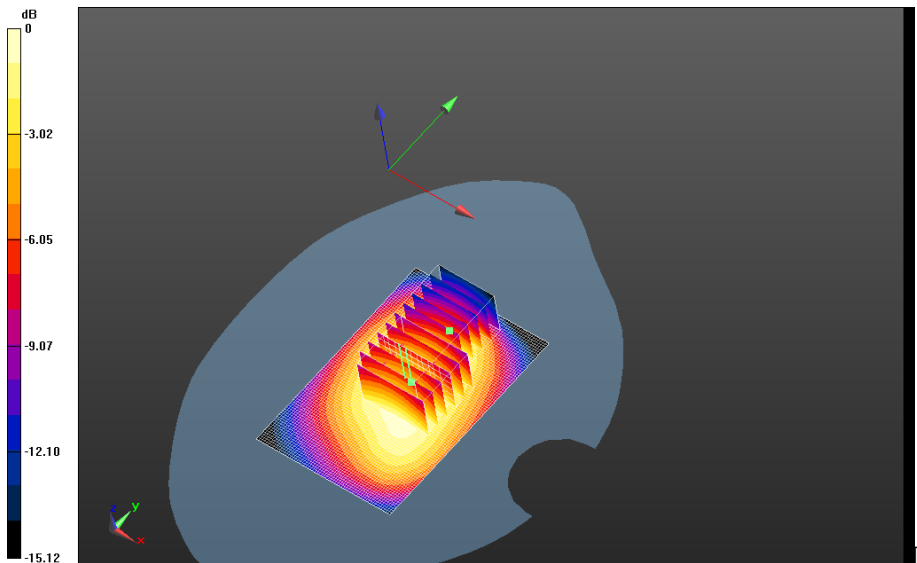
**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan190\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 33.544 V/m; **Power Drift = 0.090 dB**

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan190\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Zoom Scan (31x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 33.544 V/m; **Power Drift = 0.090 dB**


**Averaged SAR: SAR(1g) = 0.957 W/kg; SAR(10g) = 0.706 W/kg**  
 Maximum value of SAR (interpolated) = 1.24 W/kg

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan190\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Zoom Scan 2 (26x46x36)/Cube 0:**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 33.544 V/m; **Power Drift = 0.00689 dB**

**Averaged SAR: SAR(1g) = 0.949 W/kg; SAR(10g) = 0.700 W/kg**  
 Maximum value of SAR (interpolated) = 1.25 W/kg





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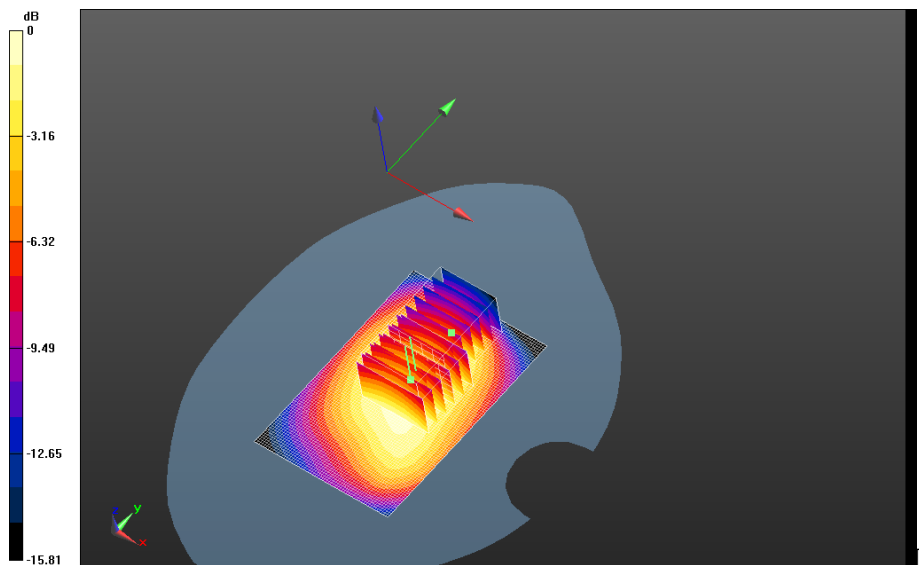
**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan251\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 31.315 V/m; **Power Drift = -0.071 dB**

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan251\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Zoom Scan (31x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 31.315 V/m; **Power Drift = -0.071 dB**


**Averaged SAR: SAR(1g) = 0.845 W/kg; SAR(10g) = 0.619 W/kg**  
 Maximum value of SAR (interpolated) = 1.11 W/kg

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan251\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Zoom Scan 2 (26x46x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 31.315 V/m; **Power Drift = -0.043 dB**

**Averaged SAR: SAR(1g) = 0.846 W/kg; SAR(10g) = 0.616 W/kg**  
 Maximum value of SAR (interpolated) = 1.11 W/kg

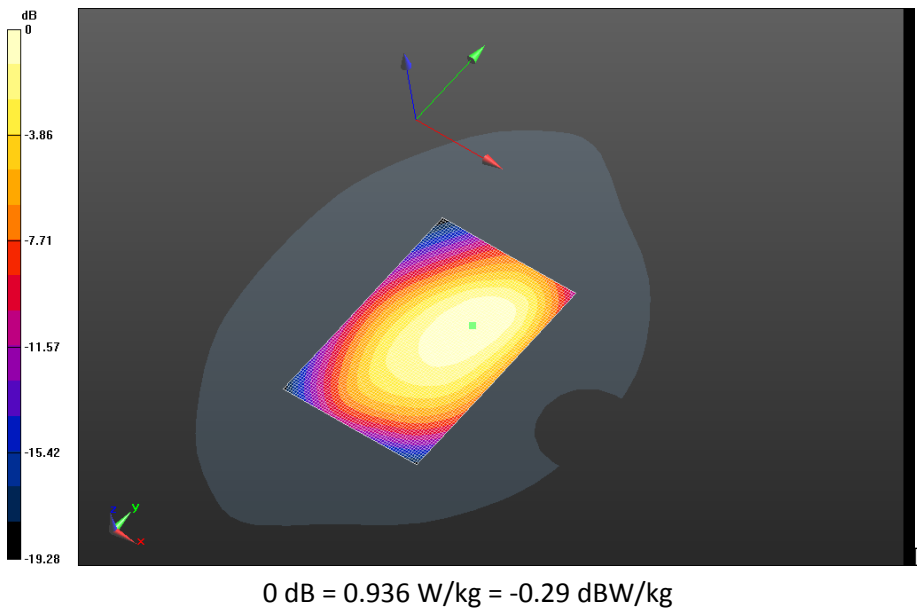



0 dB = 1.05 W/kg = 0.21 dBW/kg

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**Mobile Hot Spot MSL - GPRS 850/10mm Device Front -GPRS 850\_3-  
 slot\_chan128\_amb\_temp\_23.4C\_liq\_temp\_21.4C/Area Scan (61x91x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 30.310 V/m; **Power Drift = -0.00342 dB**

**Fast SAR: SAR(1g) = 0.870 W/kg; SAR(10g) = 0.601 W/kg; Secondary SAR(1g) = 0.641 W/kg**  
 Maximum value of SAR (interpolated) = 0.990 W/kg

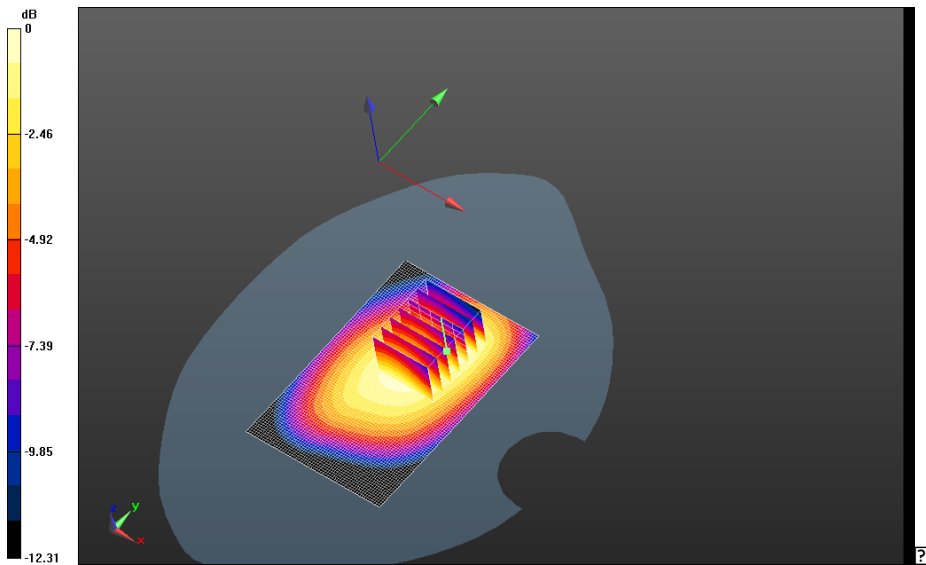


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**Mobile Hot Spot MSL - GPRS 850/10mm Device Front -GPRS 850\_3-  
slot\_chan190\_amb\_temp\_23.4C\_liq\_temp\_21.4C/Area Scan (61x91x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 30.635 V/m; **Power Drift = 0.083 dB**

**Mobile Hot Spot MSL - GPRS 850/10mm Device Front -GPRS 850\_3-  
slot\_chan190\_amb\_temp\_23.4C\_liq\_temp\_21.4C/Zoom Scan (26x31x36)/Cube 0:** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 30.635 V/m; **Power Drift = 0.083 dB**

**Averaged SAR: SAR(1g) = 0.921 W/kg; SAR(10g) = 0.675 W/kg**  
Maximum value of SAR (interpolated) = 1.27 W/kg

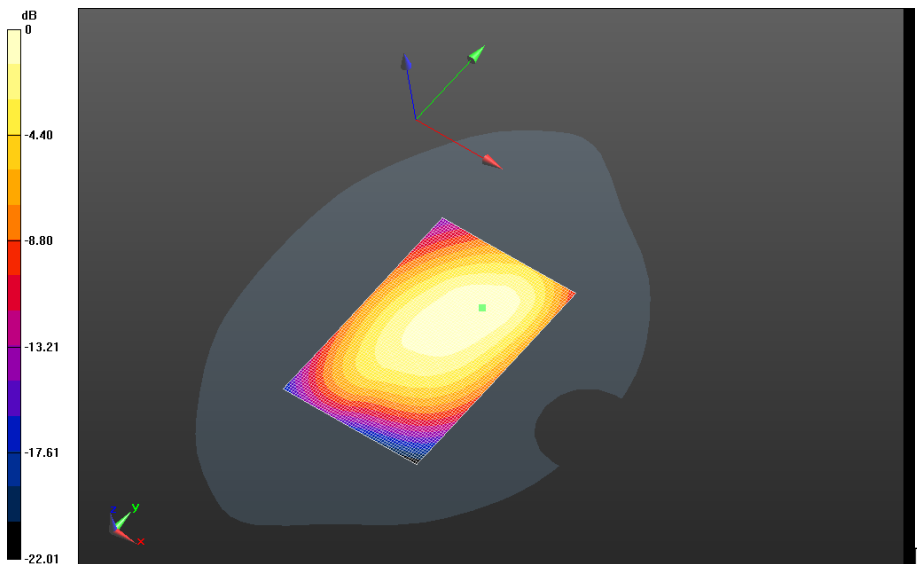


0 dB = 0.990 W/kg = -0.04 dBW/kg


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**Mobile Hot Spot MSL - GPRS 850/10mm Device Front -GPRS 850\_3-  
 slot\_chan251\_amb\_temp\_23.3C\_liq\_temp\_21.4C/Area Scan (61x91x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 29.251 V/m; **Power Drift = 0.014 dB**

**Fast SAR: SAR(1g) = 0.839 W/kg; SAR(10g) = 0.575 W/kg; Secondary SAR(1g) = 0.641 W/kg**  
 Maximum value of SAR (interpolated) = 0.962 W/kg

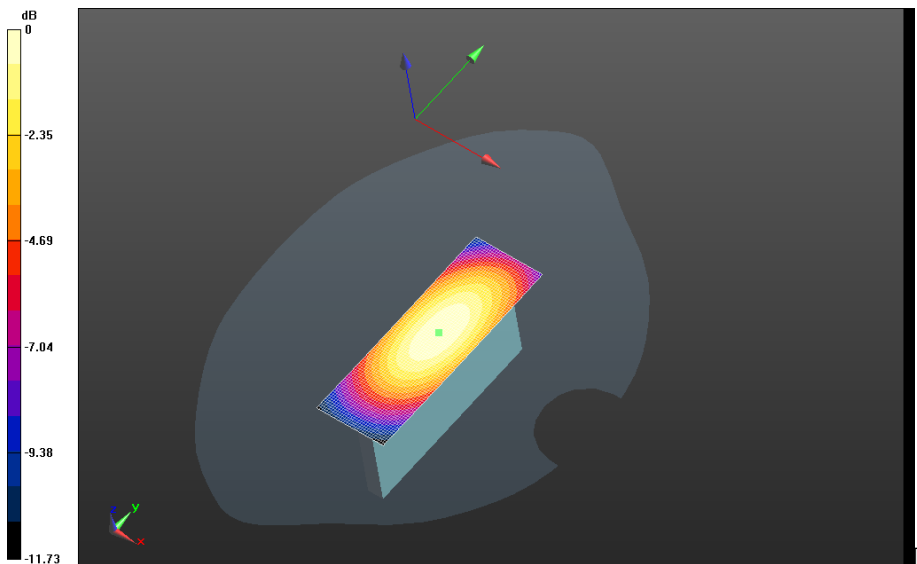


0 dB = 1.03 W/kg = 0.13 dBW/kg


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**Mobile Hot Spot MSL - GPRS 850/10mm Device Left - GPRS 850\_3-  
 slot\_chan128\_amb\_temp\_23.4C\_liq\_temp\_21.4C/Area Scan (31x91x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 26.406 V/m; **Power Drift = -0.020 dB**

**Fast SAR: SAR(1g) = 0.540 W/kg; SAR(10g) = 0.366 W/kg; Secondary SAR(1g) = 0.641 W/kg**  
 Maximum value of SAR (interpolated) = 0.613 W/kg

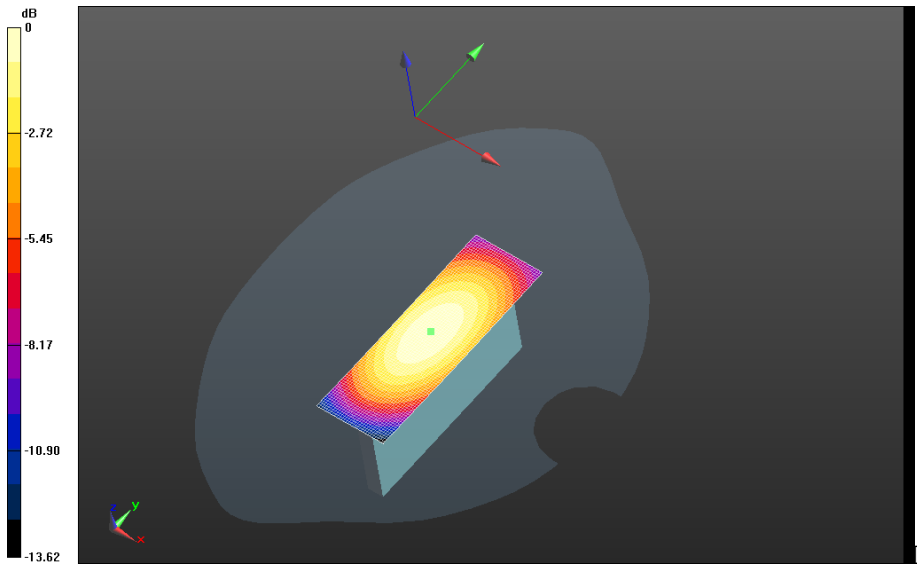


0 dB = 0.962 W/kg = -0.17 dBW/kg


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**Mobile Hot Spot MSL - GPRS 850/10mm Device Right - GPRS 850\_3-  
 slot\_chan128\_amb\_temp\_23.4C\_liq\_temp\_21.4C/Area Scan (31x91x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 27.173 V/m; **Power Drift = -0.00814 dB**

**Fast SAR: SAR(1g) = 0.576 W/kg; SAR(10g) = 0.393 W/kg; Secondary SAR(1g) = 0.641 W/kg**  
 Maximum value of SAR (interpolated) = 0.655 W/kg



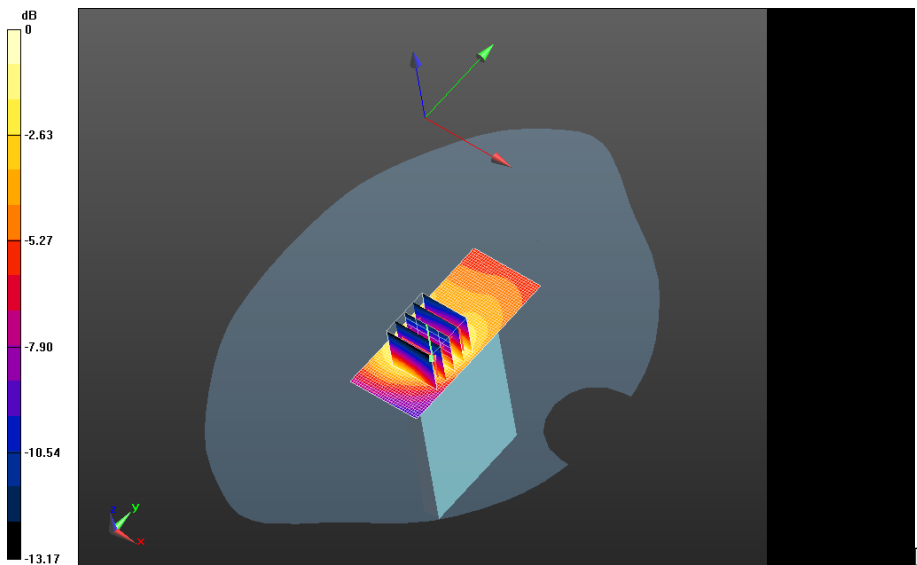
0 dB = 0.613 W/kg = -2.13 dBW/kg

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**Mobile Hot Spot MSL - GPRS 850/10mm Device Bottom - GPRS 850\_3-slot\_chan128\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Area Scan (31x71x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.153 W/kg

**Mobile Hot Spot MSL - GPRS 850/10mm Device Bottom - GPRS 850\_3-slot\_chan128\_amb\_temp\_23.4C\_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 = 10.742 V/m; **Power Drift = -0.034 dB**

**Averaged SAR: SAR(1g) = 0.123 W/kg; SAR(10g) = 0.0707 W/kg**  
Maximum value of SAR (interpolated) = 0.229 W/kg

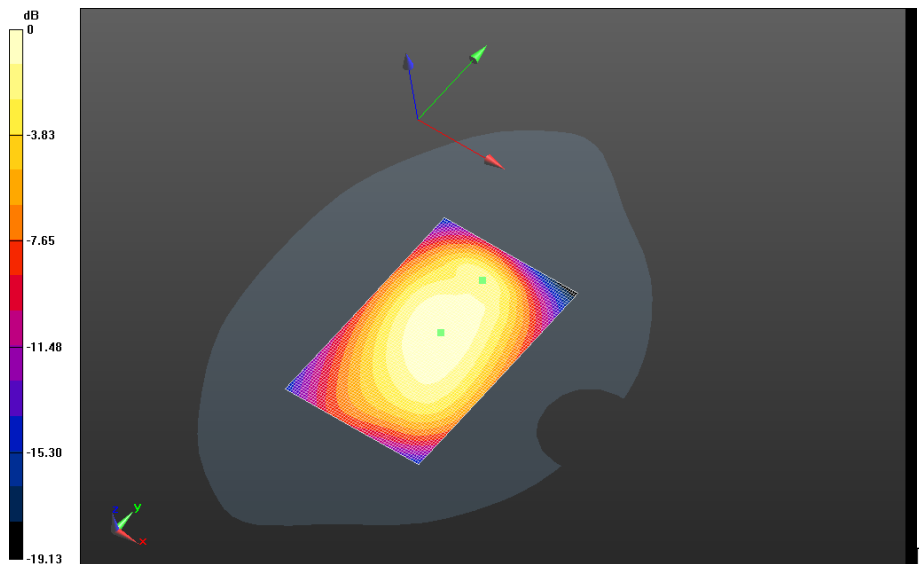


0 dB = 0.155 W/kg = -8.10 dBW/kg

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**Mobile Hot Spot MSL - GPRS 850/10mm Device Back+HS - GPRS 850\_3-  
 slot\_chan128\_amb\_temp\_23.4C\_liq\_temp\_21.4C/Area Scan (61x91x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 32.156 V/m; **Power Drift = 0.035 dB**

**Fast SAR: SAR(1g) = 0.838 W/kg; SAR(10g) = 0.586 W/kg; Secondary SAR(1g) = 0.641 W/kg**  
 Maximum value of SAR (interpolated) = 0.951 W/kg



0 dB = 0.655 W/kg = -1.84 dBW/kg

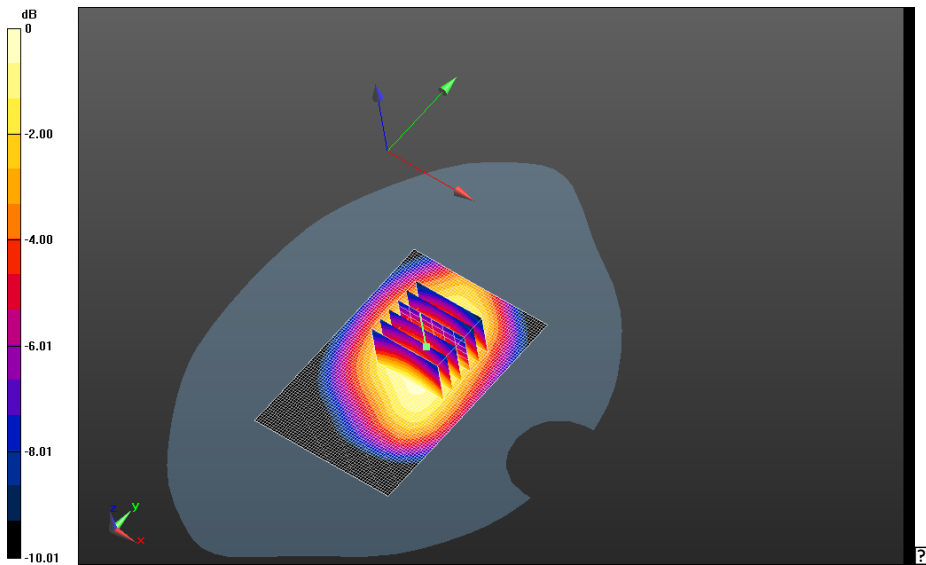


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**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_4-slot\_chan190\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 27.638 V/m; **Power Drift = -0.082 dB**

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_4-slot\_chan190\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Zoom Scan (31x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 27.638 V/m; **Power Drift = -0.082 dB**


**Averaged SAR: SAR(1g) = 0.698 W/kg; SAR(10g) = 0.517 W/kg**  
 Maximum value of SAR (interpolated) = 0.910 W/kg



0 dB = 0.951 W/kg = -0.22 dBW/kg

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# UMTS Band V

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Date: 3/15/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49**

**Configuration: Mobile Hot Spot MSL - UMTS Band V**

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

Frequency: 826.4 MHz

Medium Parameters used: f=826.4 MHz;  $\sigma = 0.965$  S/m;  $\epsilon_r = 53.050$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

**Mobile Hot Spot MSL - UMTS Band V/10mm Device Back -**

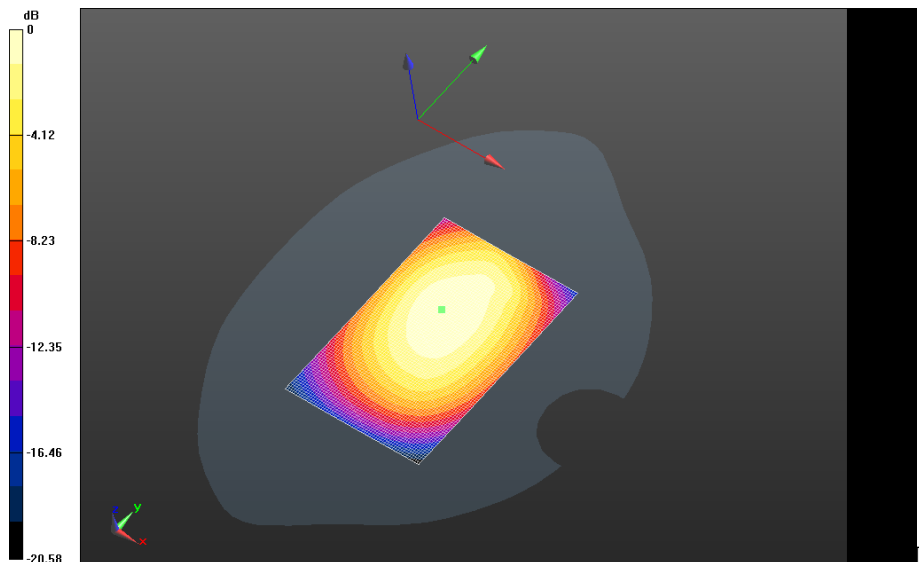
**UMTS\_Band\_V\_chan4132\_amb\_temp\_23.3C\_liq\_temp\_21.0C/Area Scan (61x91x1):**

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


Reference Value = 29.252 V/m; **Power Drift = -0.022 dB**

**Fast SAR: SAR(1g) = 0.756 W/kg; SAR(10g) = 0.524 W/kg**

Maximum value of SAR (interpolated) = 0.859 W/kg



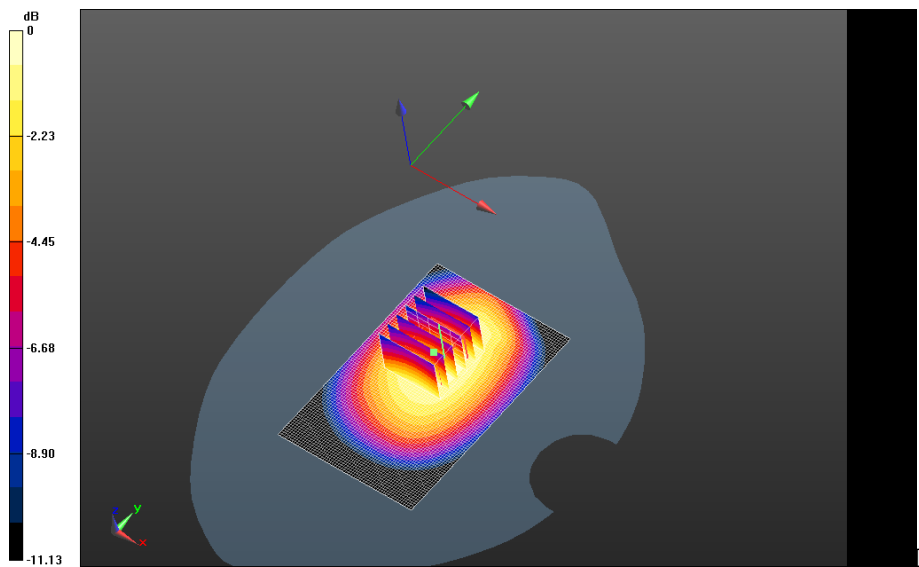
0 dB = 0.859 W/kg = -0.66 dBW/kg

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**Mobile Hot Spot MSL - UMTS Band V/10mm Device Back -**  
**UMTS\_Band\_V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.0C/Area Scan (61x91x1):**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 29.386 V/m; **Power Drift = -0.022 dB**

**Mobile Hot Spot MSL - UMTS Band V/10mm Device Back -**  
**UMTS\_Band\_V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.0C/Zoom Scan (26x26x36)/Cube 0:**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 29.386 V/m; **Power Drift = -0.022 dB**

**Averaged SAR: SAR(1g) = 0.798 W/kg; SAR(10g) = 0.588 W/kg**  
 Maximum value of SAR (interpolated) = 1.04 W/kg



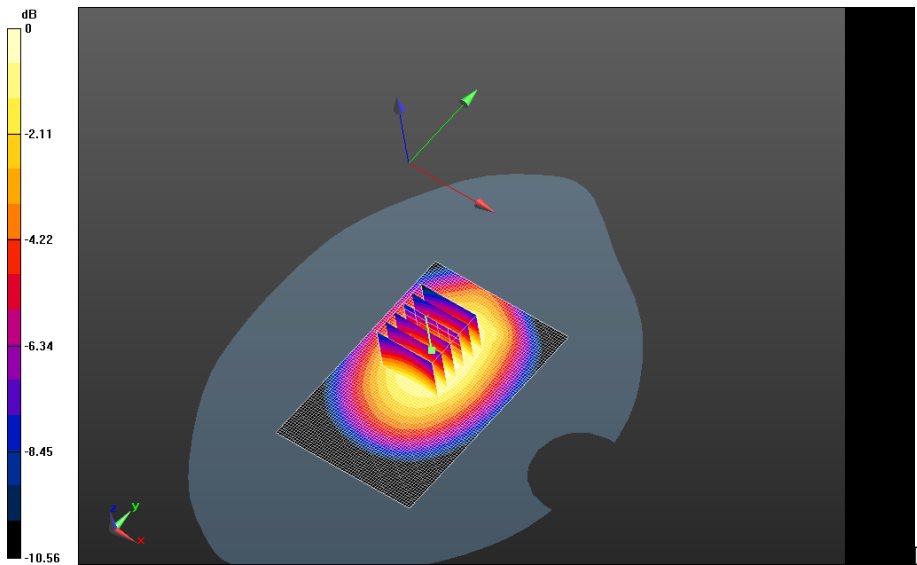
0 dB = 0.859 W/kg = -0.66 dBW/kg

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**Mobile Hot Spot MSL - UMTS Band V/10mm Device Back - UMTS\_Band\_V\_chan4182\_2nd\_Scan\_amb\_temp\_23.6C\_liq\_temp\_21.0C 2/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 29.729 V/m; **Power Drift = -0.066 dB**

**Mobile Hot Spot MSL - UMTS Band V/10mm Device Back - UMTS\_Band\_V\_chan4182\_2nd\_Scan\_amb\_temp\_23.6C\_liq\_temp\_21.0C 2/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 29.729 V/m; **Power Drift = -0.066 dB**

**Averaged SAR: SAR(1g) = 0.831 W/kg; SAR(10g) = 0.615 W/kg**  
 Maximum value of SAR (interpolated) = 1.08 W/kg

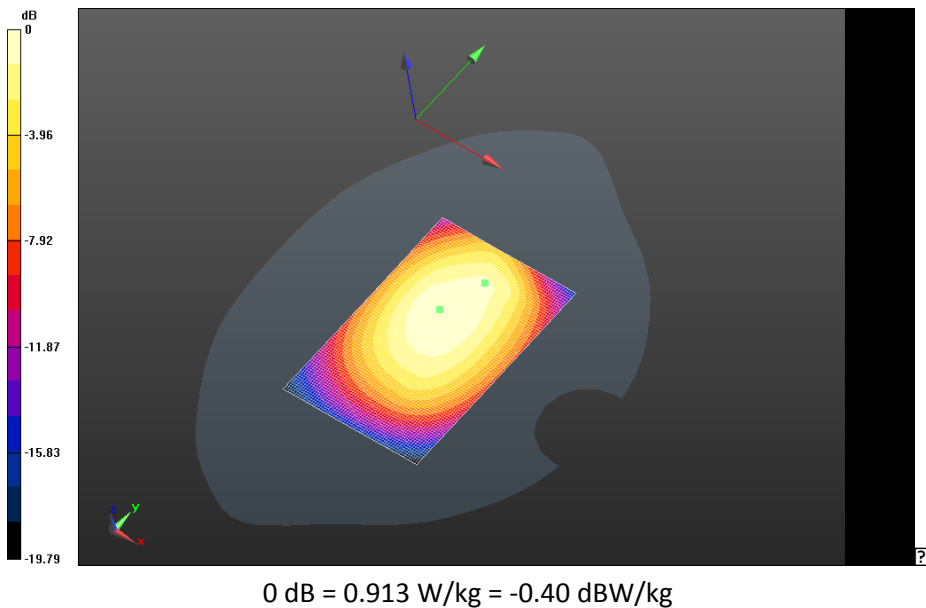



0 dB = 0.885 W/kg = -0.53 dBW/kg

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**Mobile Hot Spot MSL - UMTS Band V/10mm Device Back -**  
**UMTS\_Band\_V\_chan4233\_amb\_temp\_23.9C\_liq\_temp\_21.0C/Area Scan (61x91x1):**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 28.024 V/m; **Power Drift = -0.019 dB**

**Fast SAR: SAR(1g) = 0.731 W/kg; SAR(10g) = 0.505 W/kg**  
 Maximum value of SAR (interpolated) = 0.834 W/kg

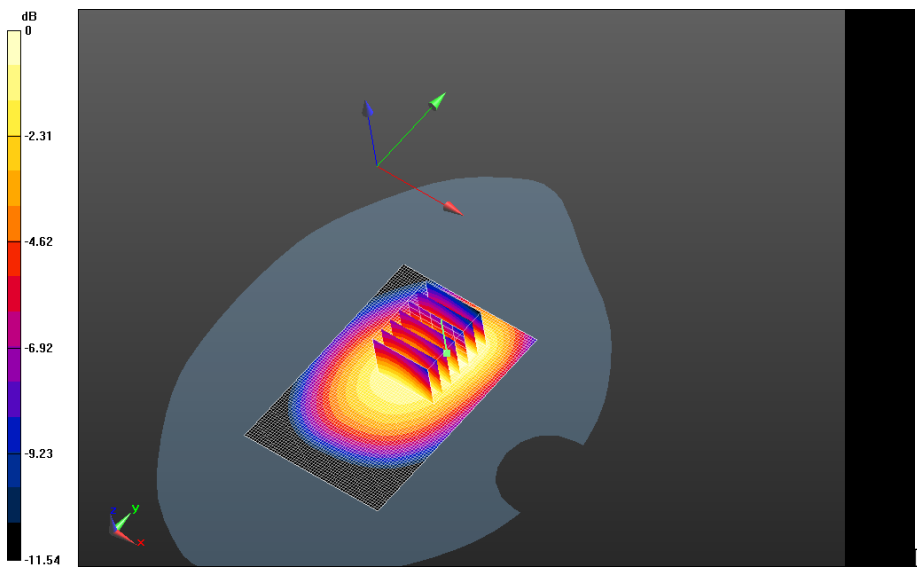


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**Mobile Hot Spot MSL - UMTS Band V/10mm Device Front -**  
**UMTS\_Band\_V\_chan4182\_amb\_temp\_23.3C\_liq\_temp\_21.0C/Area Scan (61x91x1):**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 23.580 V/m; **Power Drift = 0.004 dB**

**Mobile Hot Spot MSL - UMTS Band V/10mm Device Front -**  
**UMTS\_Band\_V\_chan4182\_amb\_temp\_23.3C\_liq\_temp\_21.0C/Zoom Scan (26x31x36)/Cube 0:**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 23.580 V/m; **Power Drift = 0.004 dB**

**Averaged SAR: SAR(1g) = 0.556 W/kg; SAR(10g) = 0.409 W/kg**  
 Maximum value of SAR (interpolated) = 0.754 W/kg



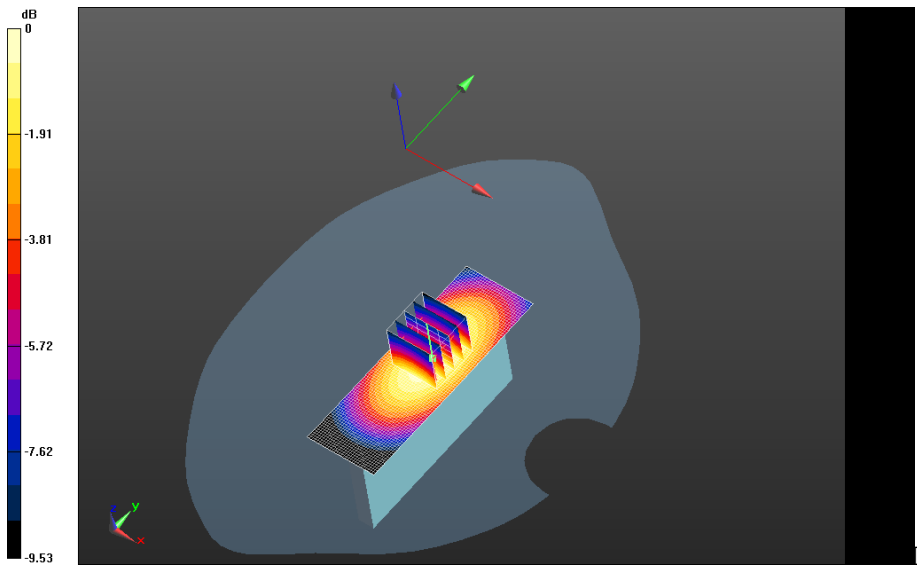
0 dB = 0.834 W/kg = -0.79 dBW/kg

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**Mobile Hot Spot MSL - UMTS Band V/10mm Device Left -**  
**UMTS\_Band\_V\_chan4182\_amb\_temp\_23.9C\_liq\_temp\_21.0C/Area Scan (31x91x1):**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 23.360 V/m; **Power Drift = -0.066 dB**


**Mobile Hot Spot MSL - UMTS Band V/10mm Device Left -**  
**UMTS\_Band\_V\_chan4182\_amb\_temp\_23.9C\_liq\_temp\_21.0C/Zoom Scan (21x21x36)/Cube 0:**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 23.360 V/m; **Power Drift = -0.066 dB**

**Averaged SAR: SAR(1g) = 0.443 W/kg; SAR(10g) = 0.307 W/kg**  
 Maximum value of SAR (interpolated) = 0.615 W/kg



0 dB = 0.625 W/kg = -2.04 dBW/kg

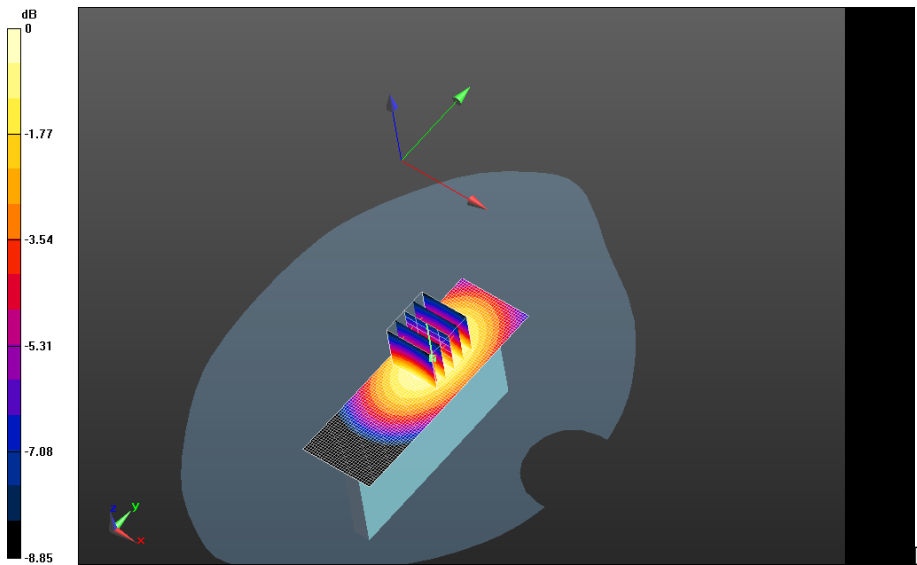


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**Mobile Hot Spot MSL - UMTS Band V/10mm Device Right -**  
**UMTS\_Band\_V\_chan4182\_amb\_temp\_23.9C\_liq\_temp\_21.0C/Area Scan (31x91x1):**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 21.547 V/m; **Power Drift = 0.048 dB**

**Mobile Hot Spot MSL - UMTS Band V/10mm Device Right -**  
**UMTS\_Band\_V\_chan4182\_amb\_temp\_23.9C\_liq\_temp\_21.0C/Zoom Scan (21x21x36)/Cube 0:**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 21.547 V/m; **Power Drift = 0.048 dB**

**Averaged SAR: SAR(1g) = 0.422 W/kg; SAR(10g) = 0.298 W/kg**  
 Maximum value of SAR (interpolated) = 0.572 W/kg



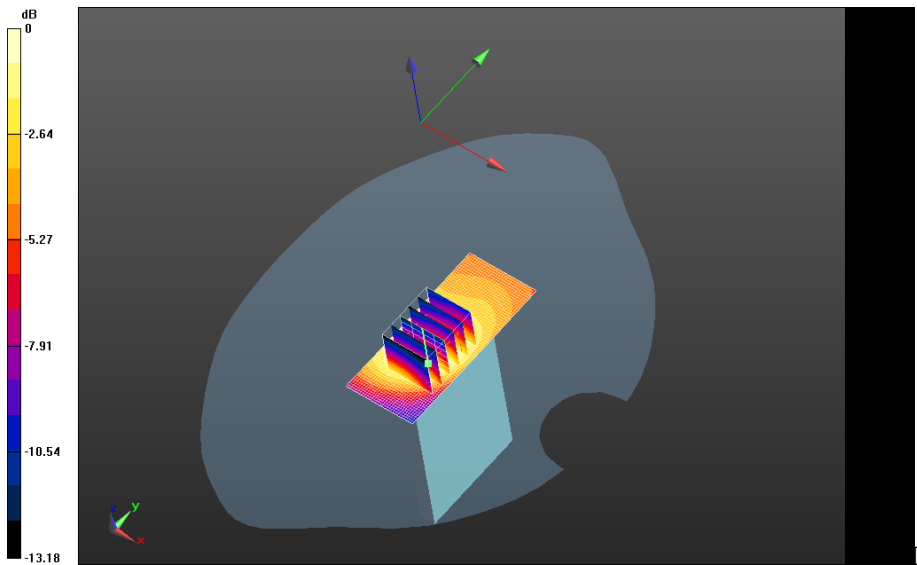
0 dB = 0.507 W/kg = -2.95 dBW/kg

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**Mobile Hot Spot MSL - UMTS Band V/10mm Device Bottom -**  
**UMTS\_Band\_V\_chan4182\_amb\_temp\_23.9C\_liq\_temp\_21.0C/Area Scan (31x71x1):**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 9.669 V/m; **Power Drift = -0.021 dB**

**Mobile Hot Spot MSL - UMTS Band V/10mm Device Bottom -**  
**UMTS\_Band\_V\_chan4182\_amb\_temp\_23.9C\_liq\_temp\_21.0C/Zoom Scan (21x26x36)/Cube 0:**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 9.669 V/m; **Power Drift = -0.021 dB**

**Averaged SAR: SAR(1g) = 0.0971 W/kg; SAR(10g) = 0.0561 W/kg**  
 Maximum value of SAR (interpolated) = 0.170 W/kg

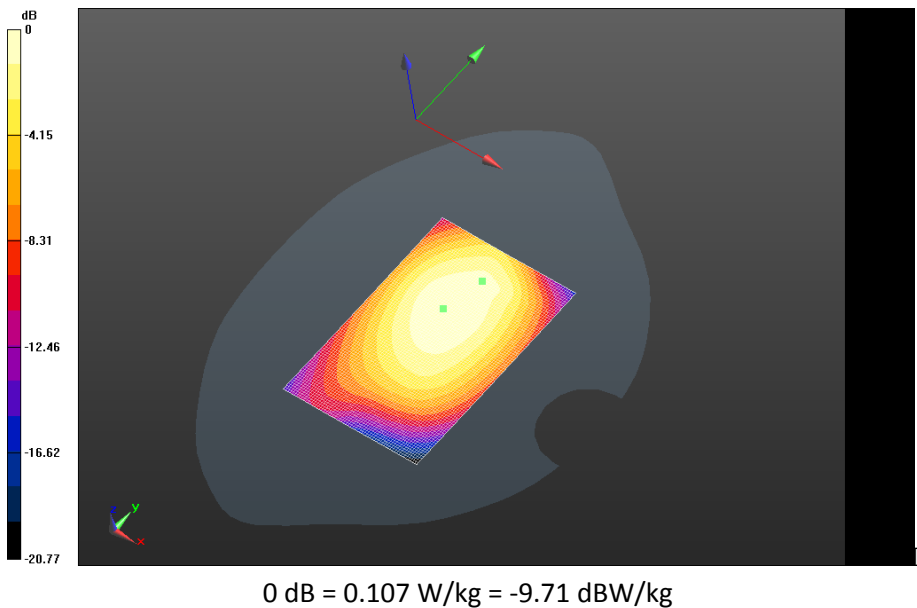



0 dB = 0.478 W/kg = -3.21 dBW/kg

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**Mobile Hot Spot MSL - UMTS Band V/10mm Device Back+HS -**  
**UMTS\_Band\_V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.0C/Area Scan (61x91x1):**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 25.163 V/m; **Power Drift = 0.075 dB**

**Fast SAR: SAR(1g) = 0.609 W/kg; SAR(10g) = 0.420 W/kg**  
 Maximum value of SAR (interpolated) = 0.690 W/kg



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# GPRS 1900

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Date: 3/24/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29**

**Configuration: Mobile Hot Spot MSL - GPRS 1900**

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.513$  S/m;  $\epsilon_r = 50.890$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS**

**1900\_mid\_chan\_amb\_temp\_23.7C\_liq\_temp\_22.0C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 12.681 V/m; **Power Drift = 0.082 dB**

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS**

**1900\_mid\_chan\_amb\_temp\_23.7C\_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 = 12.681 V/m; **Power Drift = 0.082 dB**

**Averaged SAR: SAR(1g) = 0.606 W/kg; SAR(10g) = 0.379 W/kg**

Maximum value of SAR (interpolated) = 0.935 W/kg

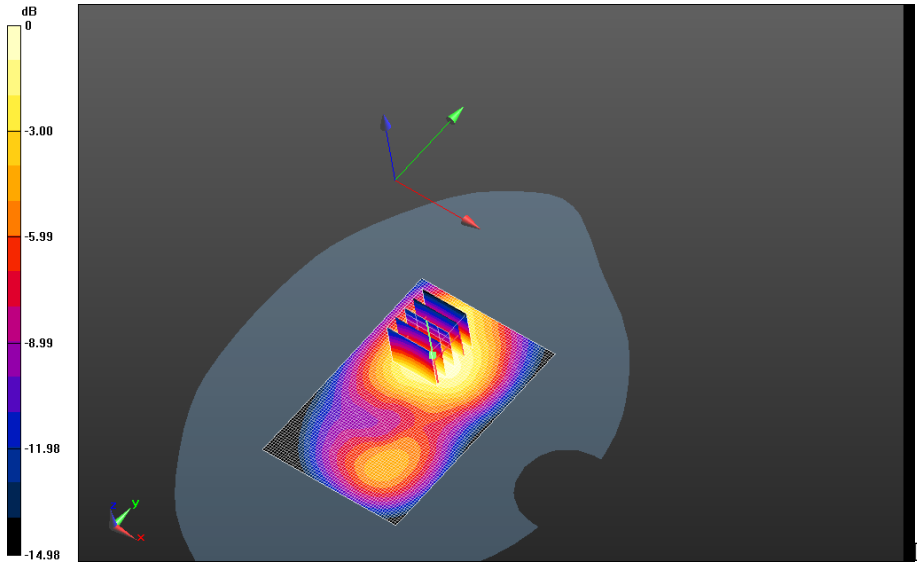
Author Data  
**Andrew Becker**

Dates of Test  
**Mar 04 – May 13, 2013**


Test Report No  
**RTS-6036-1305-12**

FCC ID:  
**L6ARFT80UW**

IC  
**2503A-RFT80UW**



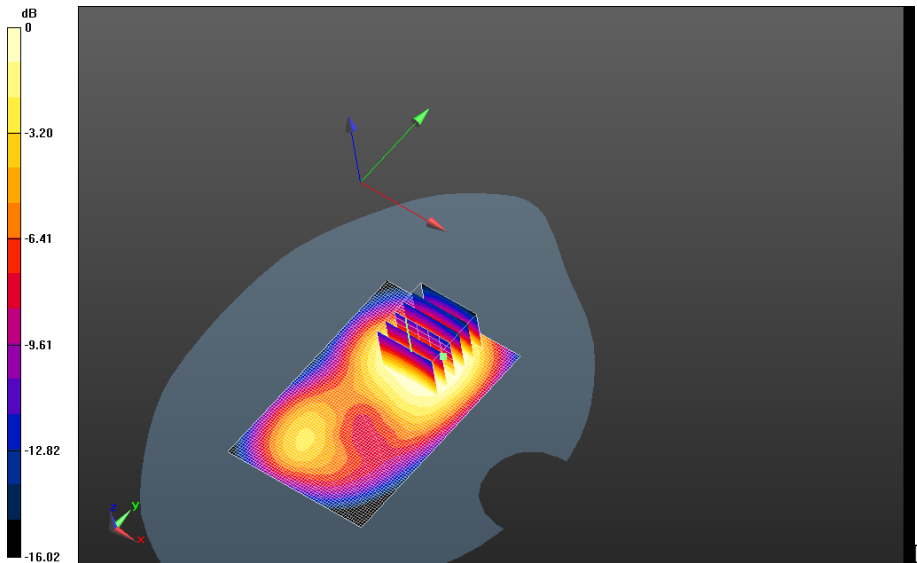
0 dB = 0.711 W/kg = -1.48 dBW/kg

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**Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS**  
**1900\_mid\_chan\_amb\_temp\_23.0C\_liq\_temp\_21.1C/Area Scan (61x91x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 13.258 V/m; **Power Drift = -0.119 dB**

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS**  
**1900\_mid\_chan\_amb\_temp\_23.0C\_liq\_temp\_21.1C/Zoom Scan (26x26x36)/Cube 0:**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 13.258 V/m; **Power Drift = -0.119 dB**

**Averaged SAR: SAR(1g) = 0.699 W/kg; SAR(10g) = 0.453 W/kg**  
Maximum value of SAR (interpolated) = 1.13 W/kg



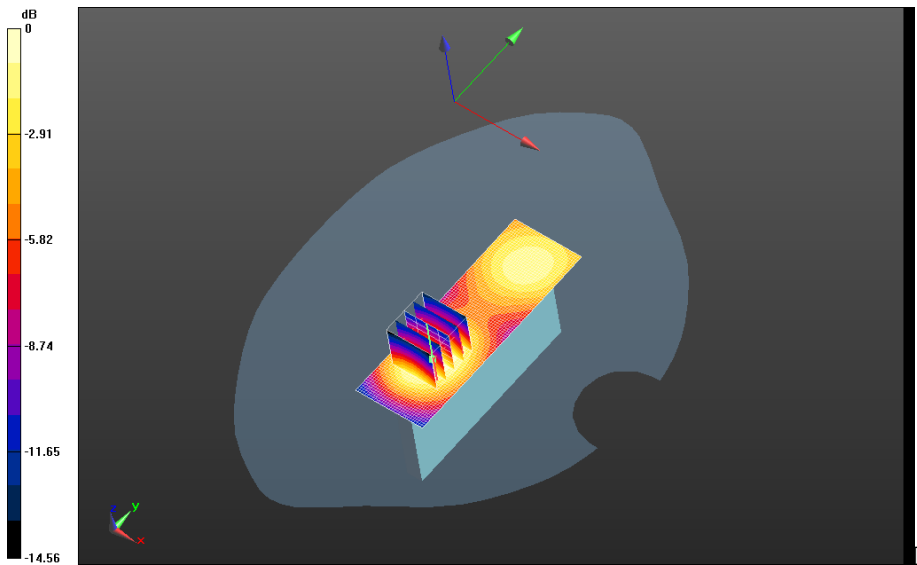
0 dB = 0.711 W/kg = -1.48 dBW/kg

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**Mobile Hot Spot MSL - GPRS 1900/10mm Device Right - GPRS**  
**1900\_mid\_chan\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Area Scan (31x91x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.545 V/m; **Power Drift = -0.106 dB**


**Mobile Hot Spot MSL - GPRS 1900/10mm Device Right - GPRS**  
**1900\_mid\_chan\_amb\_temp\_23.4C\_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 = 13.148 V/m; **Power Drift = -0.106 dB**

**Averaged SAR: SAR(1g) = 0.239 W/kg; SAR(10g) = 0.143 W/kg**  
Maximum value of SAR (interpolated) = 0.384 W/kg



0 dB = 0.741 W/kg = -1.30 dBW/kg

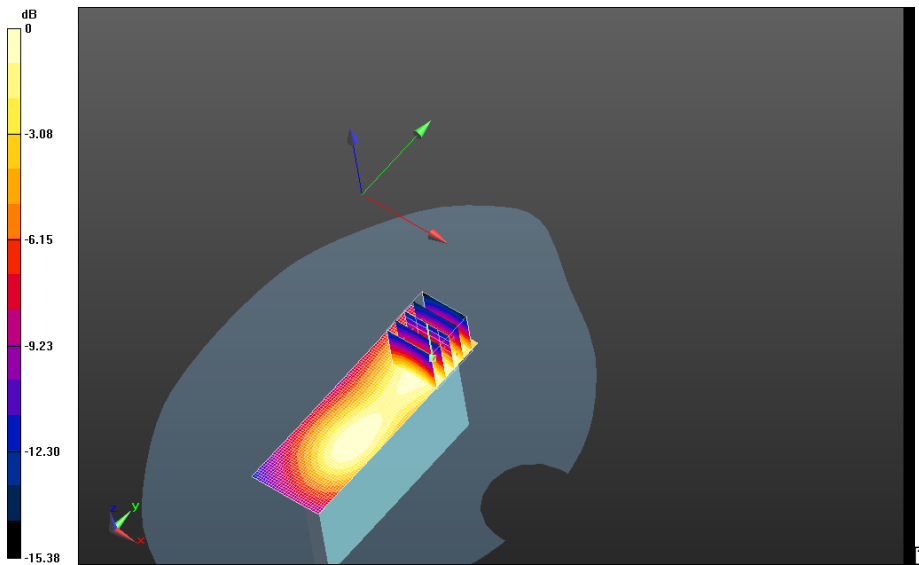


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**Mobile Hot Spot MSL - GPRS 1900/10mm Device Left - GPRS**  
**1900\_mid\_chan\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Area Scan (31x91x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 12.190 V/m; **Power Drift = -0.084 dB**

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Left - GPRS**  
**1900\_mid\_chan\_amb\_temp\_23.4C\_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 = 12.190 V/m; **Power Drift = -0.084 dB**

**Averaged SAR: SAR(1g) = 0.237 W/kg; SAR(10g) = 0.141 W/kg**  
 Maximum value of SAR (interpolated) = 0.390 W/kg



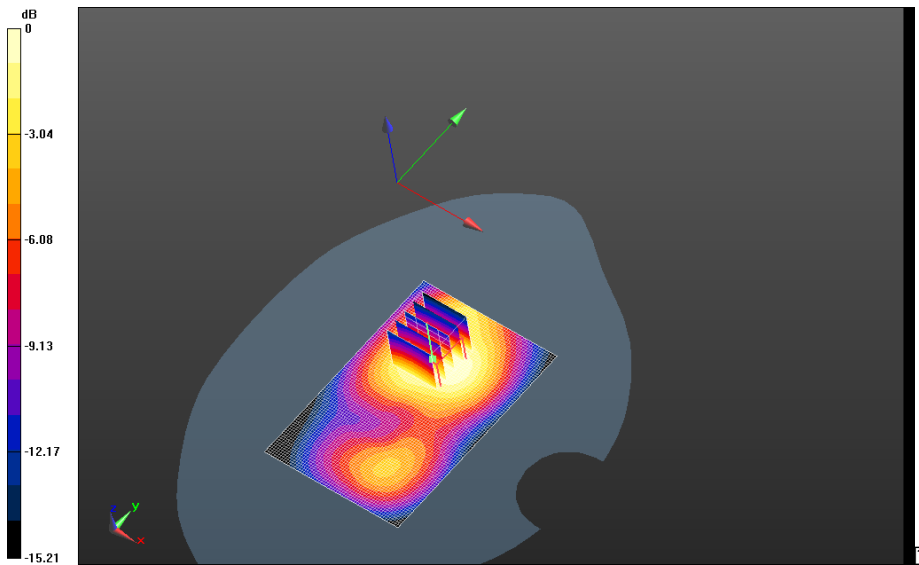
0 dB = 0.263 W/kg = -5.80 dBW/kg

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**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back+HS - GPRS**  
**1900\_mid\_chan\_amb\_temp\_23.2C\_liq\_temp\_21.4C/Area Scan (61x91x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 12.473 V/m; **Power Drift = 0.00112 dB**

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back+HS - GPRS**  
**1900\_mid\_chan\_amb\_temp\_23.2C\_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 = 12.473 V/m; **Power Drift = 0.00112 dB**

**Averaged SAR: SAR(1g) = 0.598 W/kg; SAR(10g) = 0.373 W/kg**  
 Maximum value of SAR (interpolated) = 0.927 W/kg



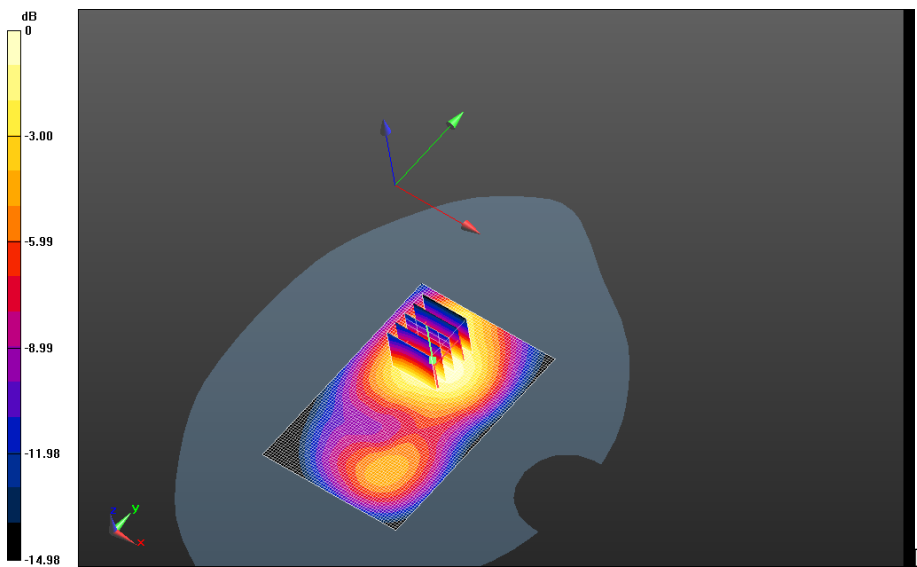
0 dB = 0.258 W/kg = -5.88 dBW/kg

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**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900\_3-slot\_mid\_chan\_amb\_temp\_23.3C\_liq\_temp\_21.5C/Area Scan (61x91x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 12.265 V/m; **Power Drift = 0.012 dB**

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900\_3-slot\_mid\_chan\_amb\_temp\_23.3C\_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 = 12.265 V/m; **Power Drift = 0.012 dB**

**Averaged SAR: SAR(1g) = 0.562 W/kg; SAR(10g) = 0.351 W/kg**  
Maximum value of SAR (interpolated) = 0.870 W/kg



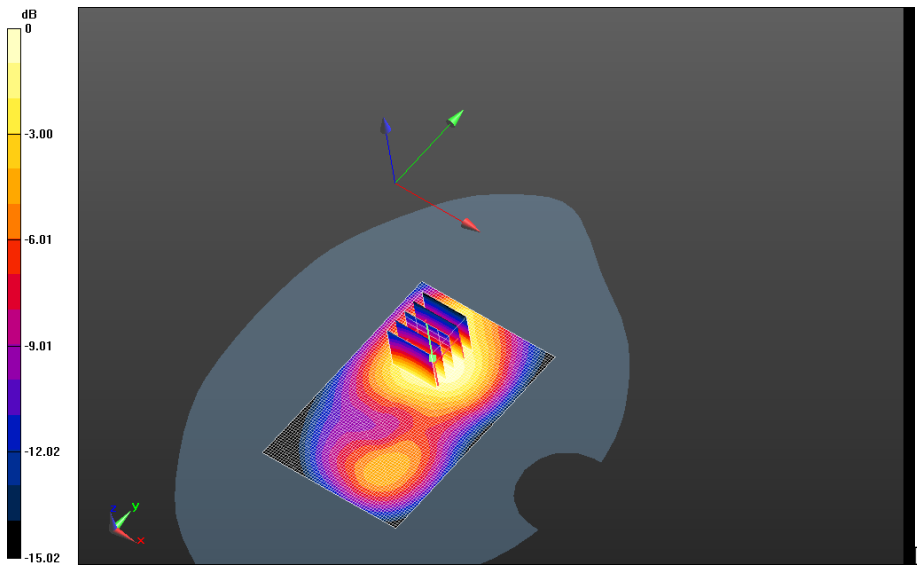
0 dB = 0.643 W/kg = -1.92 dBW/kg

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**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900\_4-slot\_mid\_chan\_amb\_temp\_23.3C\_liq\_temp\_21.5C/Area Scan (61x91x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 11.856 V/m; **Power Drift = 0.030 dB**

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900\_4-slot\_mid\_chan\_amb\_temp\_23.3C\_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 = 11.856 V/m; **Power Drift = 0.030 dB**

**Averaged SAR: SAR(1g) = 0.524 W/kg; SAR(10g) = 0.328 W/kg**  
 Maximum value of SAR (interpolated) = 0.791 W/kg



0 dB = 0.660 W/kg = -1.80 dBW/kg

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Date/Time: 5/13/2013 5:42:25 AM

Test Laboratory: RIM Testing Services

**MHS\_Bottom\_EDGE1900-Rev2-01**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB04D29**

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.517$  S/m;  $\epsilon_r = 51.026$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

**Mobile Hot Spot MSL - GPRS 1900 Bottom/10mm Device Bottom - GPRS 1900\_2-slot\_mid\_chan\_amb\_temp\_23.3C\_liq\_temp\_21.5C/Area Scan**

**(61x91x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.528 W/kg

**Mobile Hot Spot MSL - GPRS 1900 Bottom/10mm Device Bottom - GPRS 1900\_2-slot\_mid\_chan\_amb\_temp\_23.3C\_liq\_temp\_21.5C/Zoom Scan**

**(5x5x7)/Cube 0:** Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 17.201 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.758 W/kg

**SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.240 W/kg**

Maximum value of SAR (measured) = 0.559 W/kg

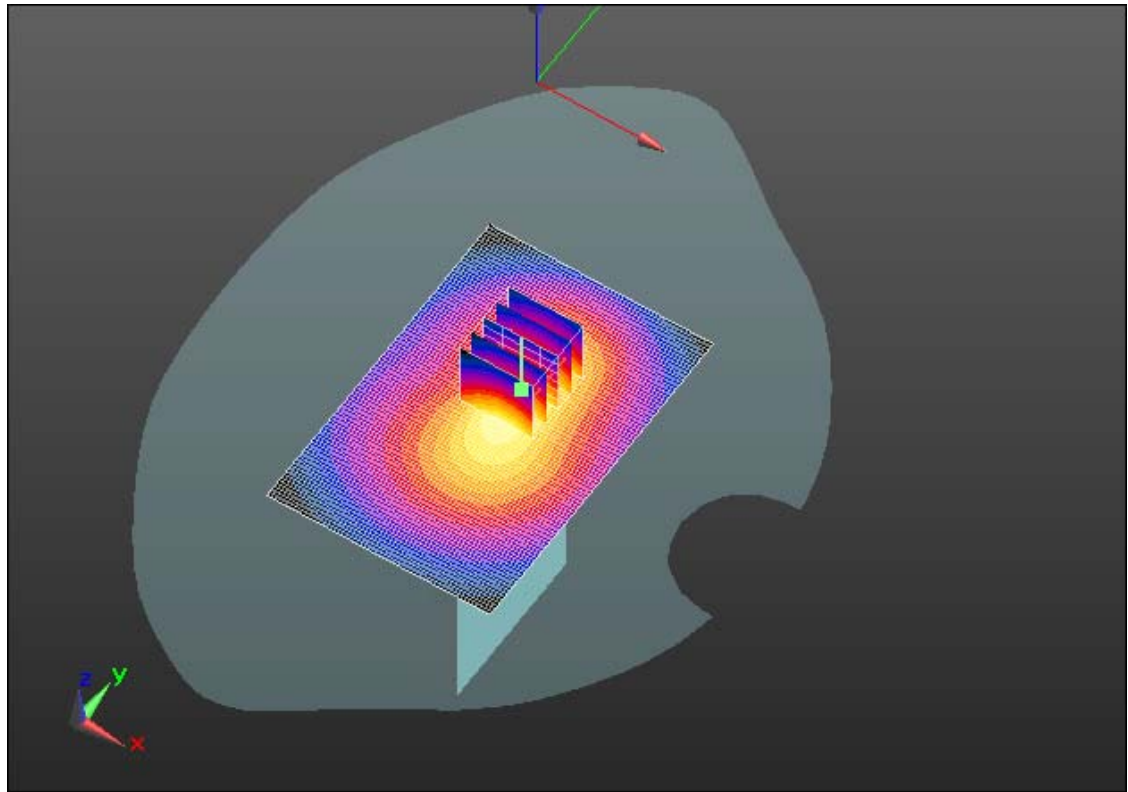
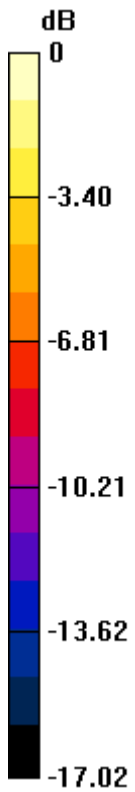
Author Data  
**Andrew Becker**

Dates of Test  
**Mar 04 – May 13, 2013**


Test Report No  
**RTS-6036-1305-12**

FCC ID:  
**L6ARFT80UW**


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**2503A-RFT80UW**



0 dB = 0.559 W/kg = -2.53 dBW/kg

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# UMTS Band II

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Date: 4/9/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29**

**Configuration: Mobile Hot Spot MSL - UMTS Band II**

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.515$  S/m;  $\epsilon_r = 50.915$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

**Mobile Hot Spot MSL - UMTS Band II/10mm Device Back -**

**UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 13.621 V/m; **Power Drift = -0.081 dB**

**Mobile Hot Spot MSL - UMTS Band II/10mm Device Back -**

**UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 22.846 V/m; **Power Drift = -0.081 dB**

**Averaged SAR: SAR(1g) = 0.648 W/kg; SAR(10g) = 0.412 W/kg**

Maximum value of SAR (interpolated) = 0.977 W/kg



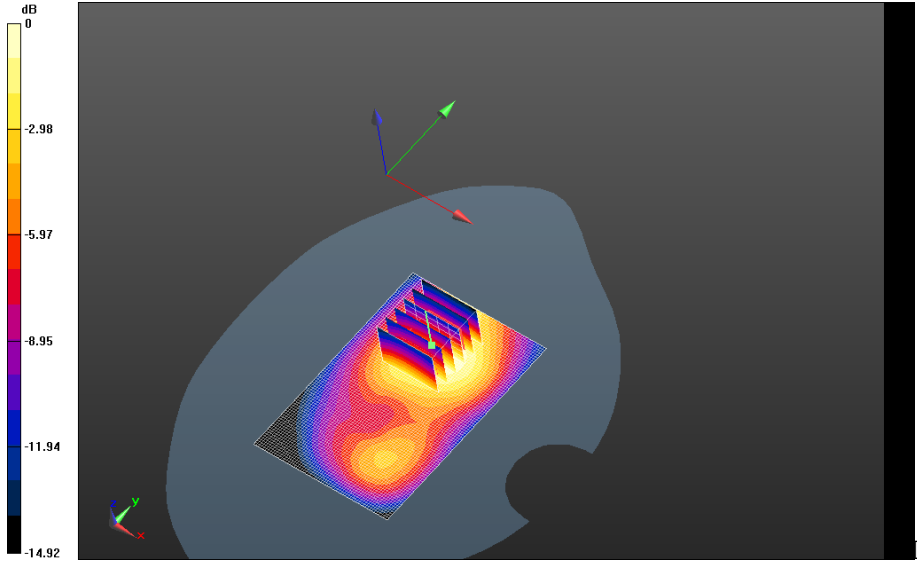
Author Data  
**Andrew Becker**

Dates of Test  
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**RTS-6036-1305-12**

FCC ID:  
**L6ARFT80UW**

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**2503A-RFT80UW**

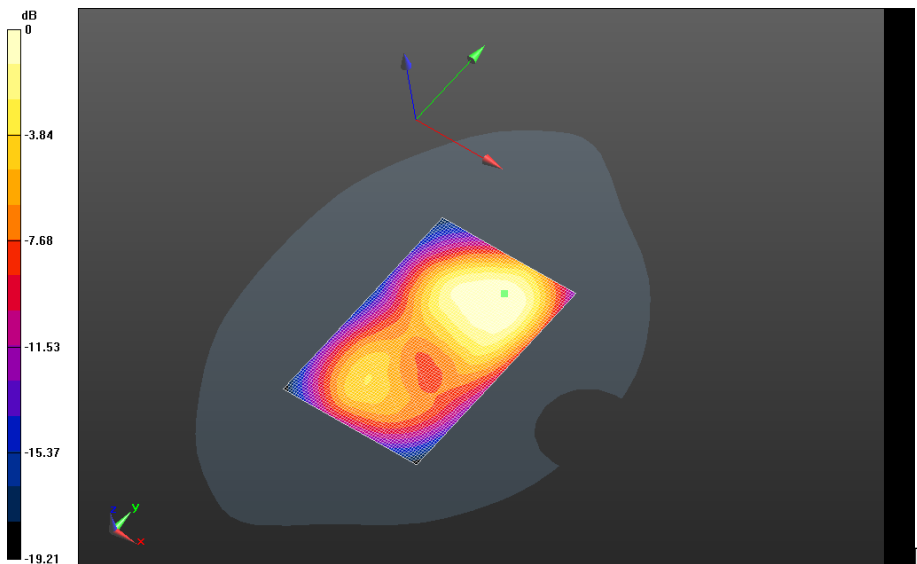


0 dB = 0.747 W/kg = -1.27 dBW/kg


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**Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -**  
**UMTS\_II\_chan9262\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Area Scan (61x91x1):** Interpolated  
 grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 14.386 V/m; **Power Drift = 0.00824 dB**

**Fast SAR: SAR(1g) = 0.932 W/kg; SAR(10g) = 0.584 W/kg; Secondary SAR(1g) = 0.388 W/kg**  
 Maximum value of SAR (interpolated) = 1.12 W/kg



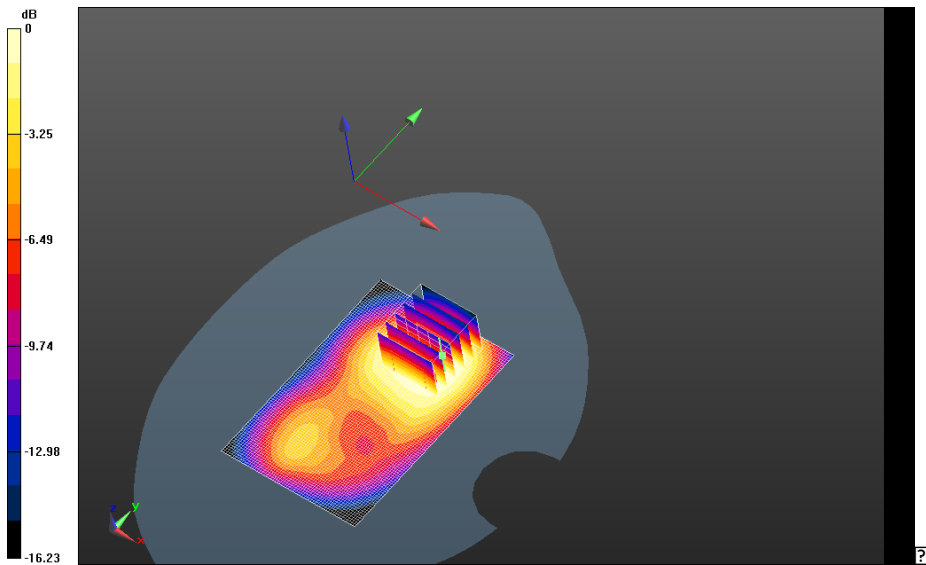
0 dB = 0.747 W/kg = -1.27 dBW/kg

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**Mobile Hot Spot MSL - UMTS Band II/10mm Device Front - UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 15.650 V/m; **Power Drift = -0.020 dB**

**Mobile Hot Spot MSL - UMTS Band II/10mm Device Front - UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 27.010 V/m; **Power Drift = -0.020 dB**

**Averaged SAR: SAR(1g) = 0.876 W/kg; SAR(10g) = 0.571 W/kg**  
 Maximum value of SAR (interpolated) = 1.43 W/kg



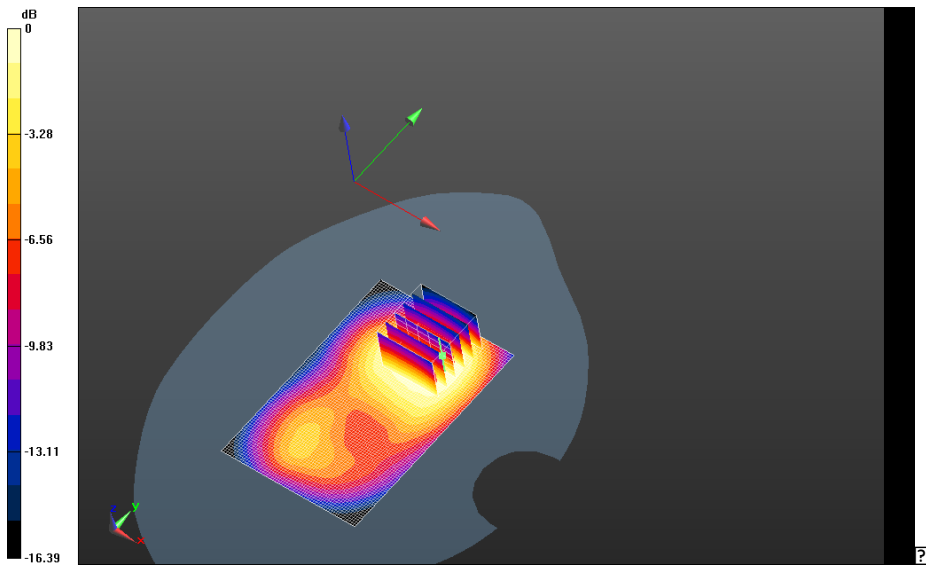
0 dB = 1.12 W/kg = 0.49 dBW/kg

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**Mobile Hot Spot MSL - UMTS Band II/10mm Device Front - UMTS\_II\_chan9538\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 15.584 V/m; **Power Drift = 0.079 dB**

**Mobile Hot Spot MSL - UMTS Band II/10mm Device Front - UMTS\_II\_chan9538\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 27.292 V/m; **Power Drift = 0.079 dB**

**Averaged SAR: SAR(1g) = 0.933 W/kg; SAR(10g) = 0.600 W/kg**  
 Maximum value of SAR (interpolated) = 1.56 W/kg



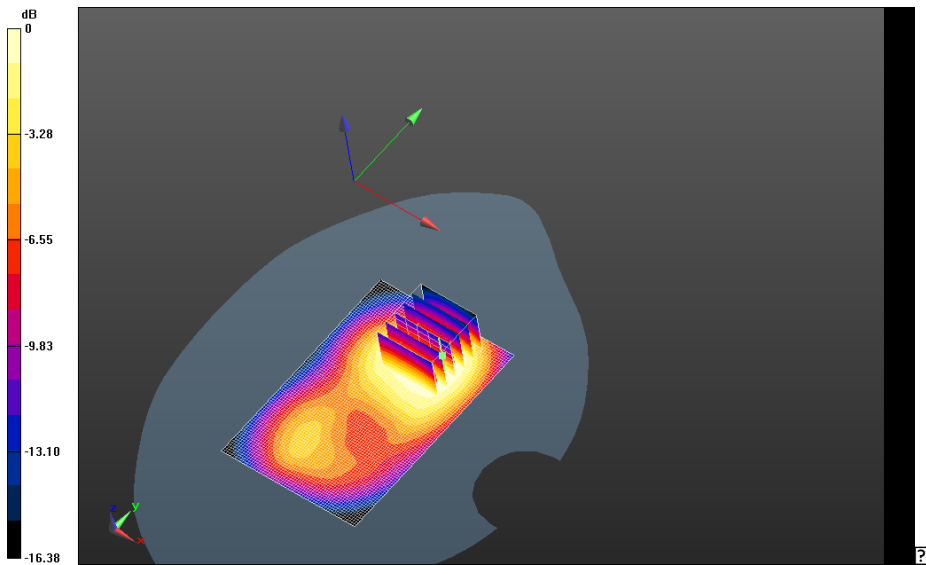
0 dB = 1.02 W/kg = 0.09 dBW/kg

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**Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -**  
**UMTS\_II\_chan9538\_amb\_temp\_23.3C\_liq\_temp\_21.2C\_2<sup>nd</sup>\_Scan/Area Scan (61x91x1):**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 15.631 V/m; **Power Drift = -0.018 dB**

**Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -**  
**UMTS\_II\_chan9538\_amb\_temp\_23.3C\_liq\_temp\_21.2C\_2<sup>nd</sup>\_Scan/Zoom Scan**  
**(26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 27.535 V/m; **Power Drift = -0.018 dB**

**Averaged SAR: SAR(1g) = 0.924 W/kg; SAR(10g) = 0.595 W/kg**  
 Maximum value of SAR (interpolated) = 1.54 W/kg



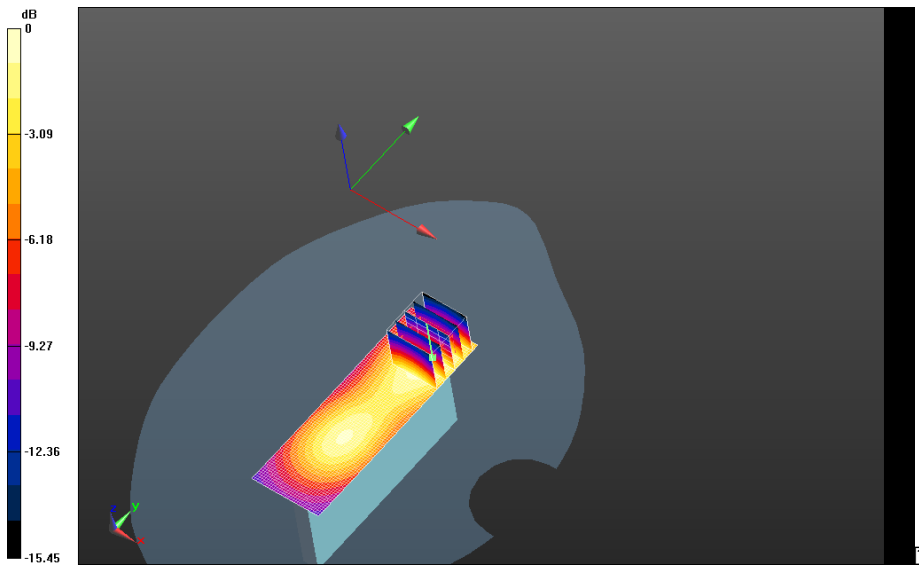
0 dB = 1.09 W/kg = 0.37 dBW/kg

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**Mobile Hot Spot MSL - UMTS Band II/10mm Device Left - UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Area Scan (31x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 12.838 V/m; **Power Drift = -0.033 dB**

**Mobile Hot Spot MSL - UMTS Band II/10mm Device Left - UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 16.278 V/m; **Power Drift = -0.033 dB**

**Averaged SAR: SAR(1g) = 0.314 W/kg; SAR(10g) = 0.183 W/kg**  
 Maximum value of SAR (interpolated) = 0.525 W/kg



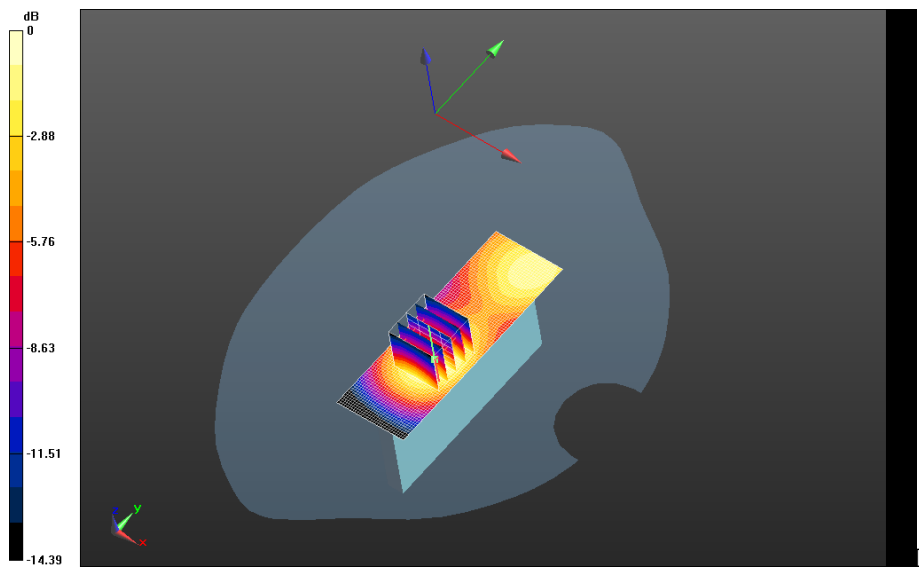
0 dB = 1.08 W/kg = 0.33 dBW/kg

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**Mobile Hot Spot MSL - UMTS Band II/10mm Device Right - UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Area Scan (31x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 11.237 V/m; **Power Drift = -0.097 dB**

**Mobile Hot Spot MSL - UMTS Band II/10mm Device Right - UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 13.534 V/m; **Power Drift = -0.097 dB**

**Averaged SAR: SAR(1g) = 0.236 W/kg; SAR(10g) = 0.141 W/kg**  
 Maximum value of SAR (interpolated) = 0.375 W/kg



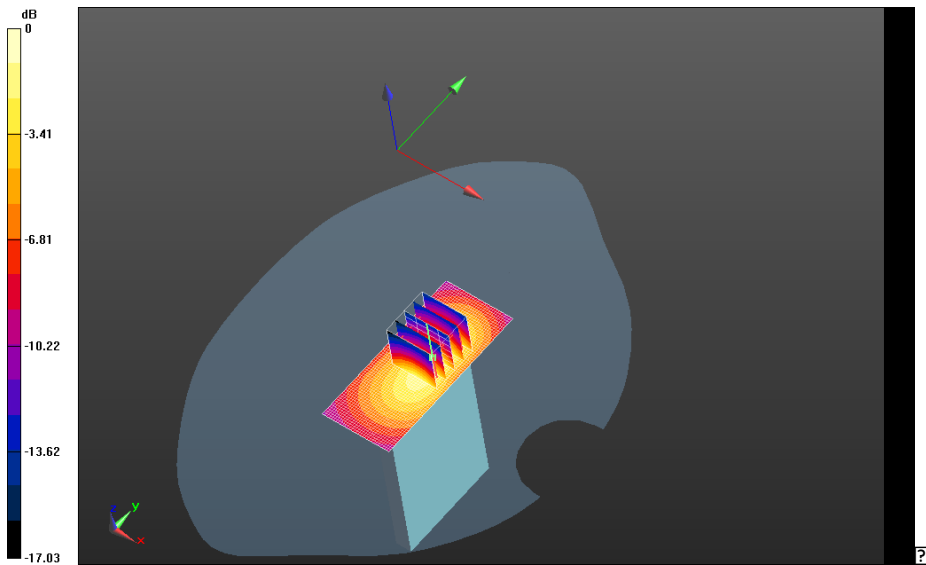
0 dB = 0.382 W/kg = -4.18 dBW/kg

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**Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom - UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Area Scan (31x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 18.171 V/m; **Power Drift = 0.061 dB**


**Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom - UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 18.881 V/m; **Power Drift = 0.061 dB**

**Averaged SAR: SAR(1g) = 0.491 W/kg; SAR(10g) = 0.265 W/kg**  
 Maximum value of SAR (interpolated) = 0.867 W/kg



0 dB = 0.283 W/kg = -5.48 dBW/kg

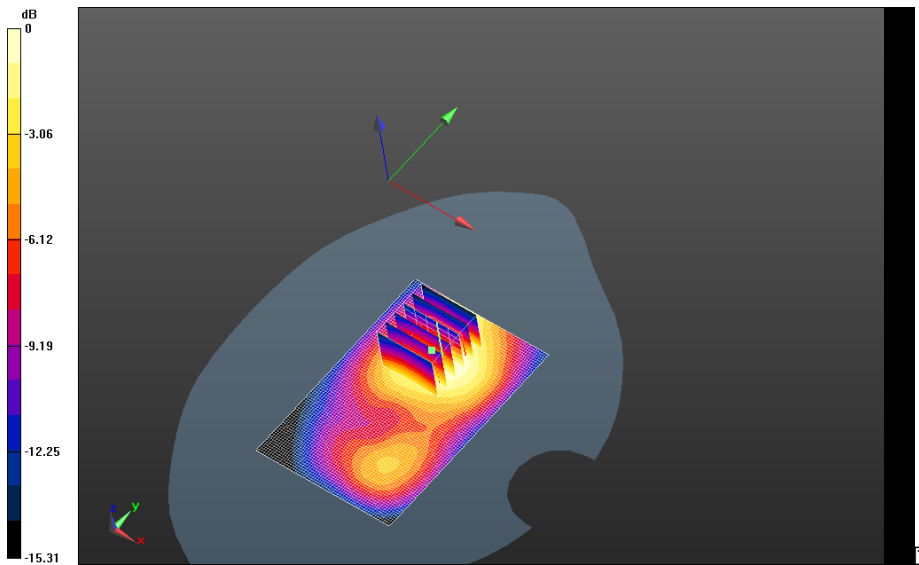


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**Mobile Hot Spot MSL - UMTS Band II/Headset 10mm Device Back - UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 13.410 V/m; **Power Drift = 0.078 dB**

**Mobile Hot Spot MSL - UMTS Band II/Headset 10mm Device Back - UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 22.671 V/m; **Power Drift = 0.078 dB**


**Averaged SAR: SAR(1g) = 0.640 W/kg; SAR(10g) = 0.407 W/kg**  
 Maximum value of SAR (interpolated) = 0.973 W/kg



0 dB = 0.621 W/kg = -2.07 dBW/kg

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# 802.11b

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Date: 3/22/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29**

**Configuration: Flat-Section MSL\_MHS\_Body\_SAR – 802.11b**

Communication System: 802.11 b (2450); Communication System Band: 802.11 b;

Frequency: 2437 MHz

Medium Parameters used:  $f=2437$  MHz;  $\sigma = 1.957$  S/m;  $\epsilon_r = 50.407$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

**Flat-Section MSL\_MHS\_Body\_SAR/Device**

**Back\_10mm\_802.11b\_Mid\_Chan\_Amb\_Temp\_23.5C\_Liquid\_Temp\_21.6C/Area**

**Scan (71x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.337 W/kg

**Flat-Section MSL\_MHS\_Body\_SAR/Device Back\_10mm\_802.11b\_Mid\_Chan\_Amb\_Temp\_23.5C\_Liquid\_Temp\_21.6C/Zoom Scan (31x31x36)/Cube 0:**

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

Reference Value = 12.211 V/m; **Power Drift = 0.071 dB**

**Averaged SAR: SAR(1g) = 0.267 W/kg; SAR(10g) = 0.144 W/kg**

Maximum value of SAR (interpolated) = 0.521 W/kg

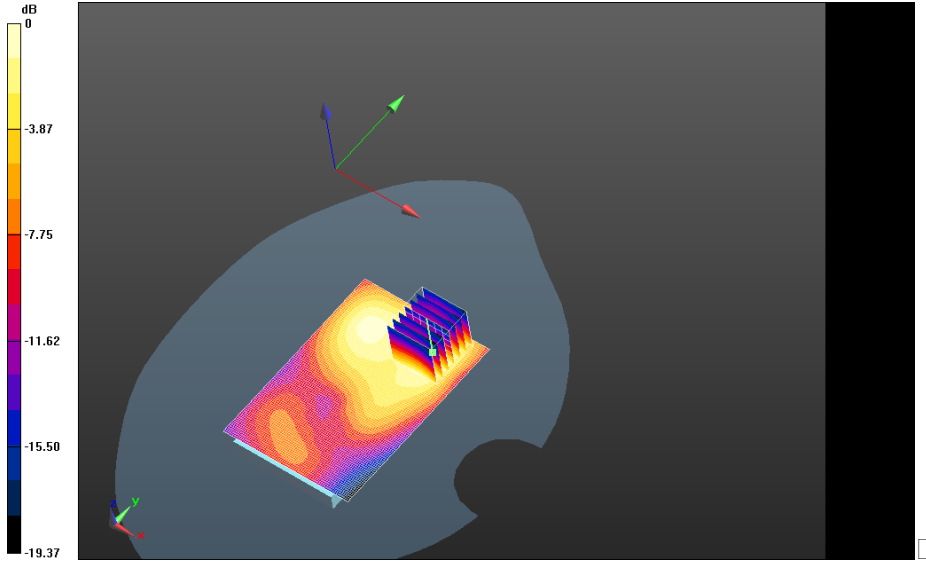
Author Data  
**Andrew Becker**

Dates of Test  
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FCC ID:  
**L6ARFT80UW**

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**2503A-RFT80UW**



0 dB = 0.328 W/kg = -4.84 dBW/kg

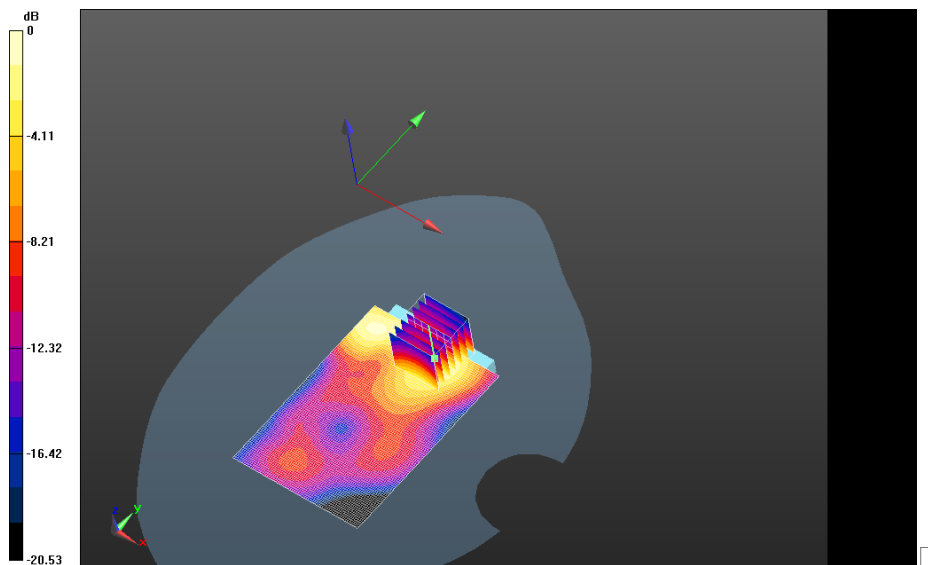
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**Flat-Section MSL\_MHS\_Body\_SAR/Device Front\_10mm\_802.11b\_Mid\_Chan  
\_Amb\_Temp\_23.7C\_Liquid\_Temp\_22.1C/Area Scan (71x101x1): Interpolated grid:**  
 dx=1.200 mm, dy=1.200 mm  
 Maximum value of SAR (interpolated) = 0.218 W/kg


**Flat-Section MSL\_MHS\_Body\_SAR/Device Front\_10mm\_802.11b\_Mid\_Chan  
\_Amb\_Temp\_23.7C\_Liquid\_Temp\_22.1C/Zoom Scan (31x31x36)/Cube 0:**  
 Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 4.181 V/m; **Power Drift = 0.103 dB**

**Averaged SAR: SAR(1g) = 0.202 W/kg; SAR(10g) = 0.112 W/kg**  
 Maximum value of SAR (interpolated) = 0.370 W/kg



0 dB = 0.328 W/kg = -4.84 dBW/kg

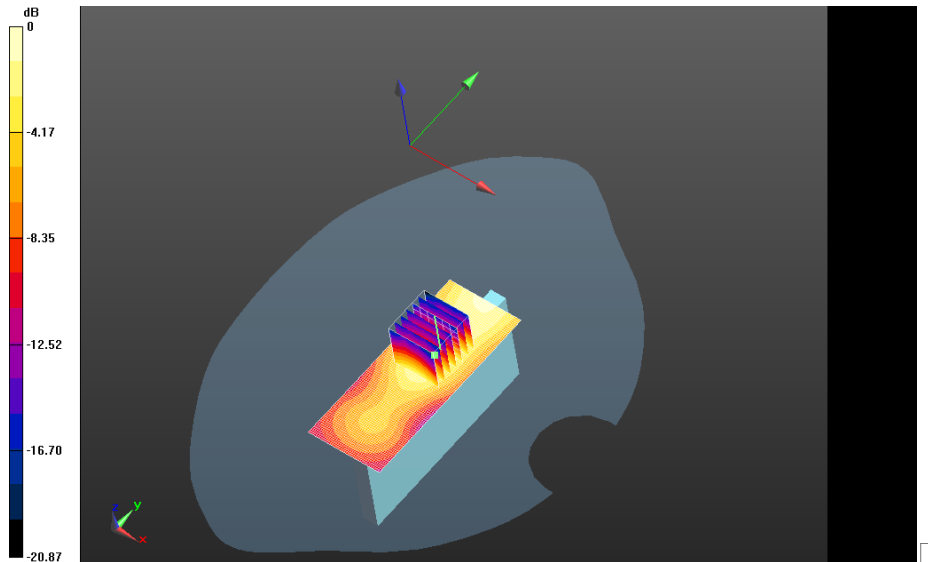
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**Flat-Section MSL\_MHS\_Body\_SAR/Device Right\_10mm\_802.11b\_Mid\_Chan  
\_Amb\_Temp\_23.3C\_Liquid\_Temp\_21.4C/Area Scan (41x101x1): Interpolated grid:**  
dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 0.139 W/kg


**Flat-Section MSL\_MHS\_Body\_SAR/Device Right\_10mm\_802.11b\_Mid\_Chan  
\_Amb\_Temp\_23.3C\_Liquid\_Temp\_21.4C/Zoom Scan (31x31x36)/Cube 0:**  
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 8.402 V/m; **Power Drift = 0.075 dB**

**Averaged SAR: SAR(1g) = 0.129 W/kg; SAR(10g) = 0.0711 W/kg**  
Maximum value of SAR (interpolated) = 0.244 W/kg



0 dB = 0.249 W/kg = -6.04 dBW/kg

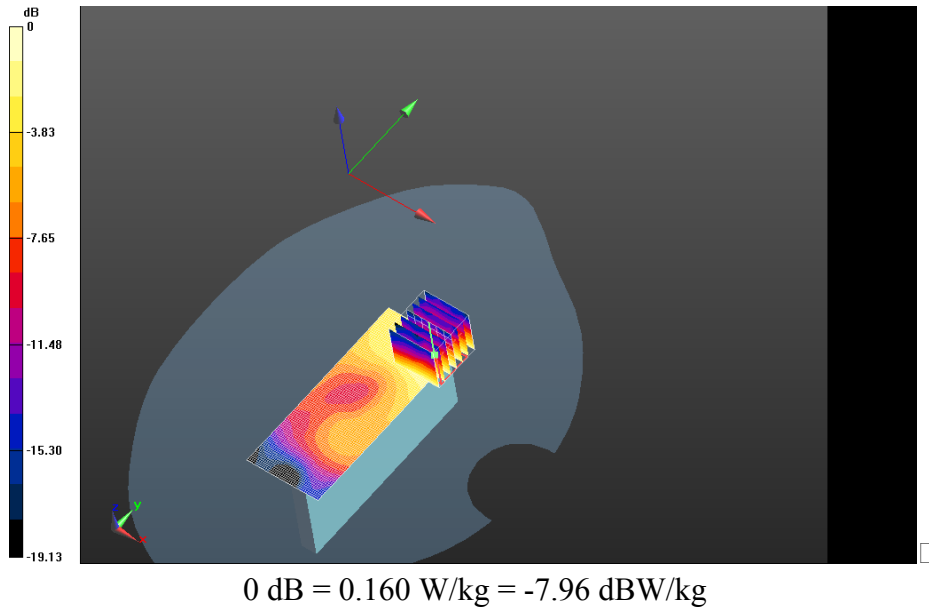
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**Flat-Section MSL\_MHS\_Body\_SAR/Device Left\_10mm\_802.11b\_Mid\_Chan  
\_Amb\_Temp\_23.3C\_Liquid\_Temp\_21.4C/Area Scan (41x101x1):** Interpolated grid:  
dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 0.0529 W/kg

**Flat-Section MSL\_MHS\_Body\_SAR/Device Left\_10mm\_802.11b\_Mid\_Chan  
\_Amb\_Temp\_23.3C\_Liquid\_Temp\_21.4C/Zoom Scan (31x31x36)/Cube 0:**  
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 5.199 V/m; **Power Drift = 0.129 dB**

**Averaged SAR: SAR(1g) = 0.0494 W/kg; SAR(10g) = 0.0289 W/kg**  
Maximum value of SAR (interpolated) = 0.0895 W/kg



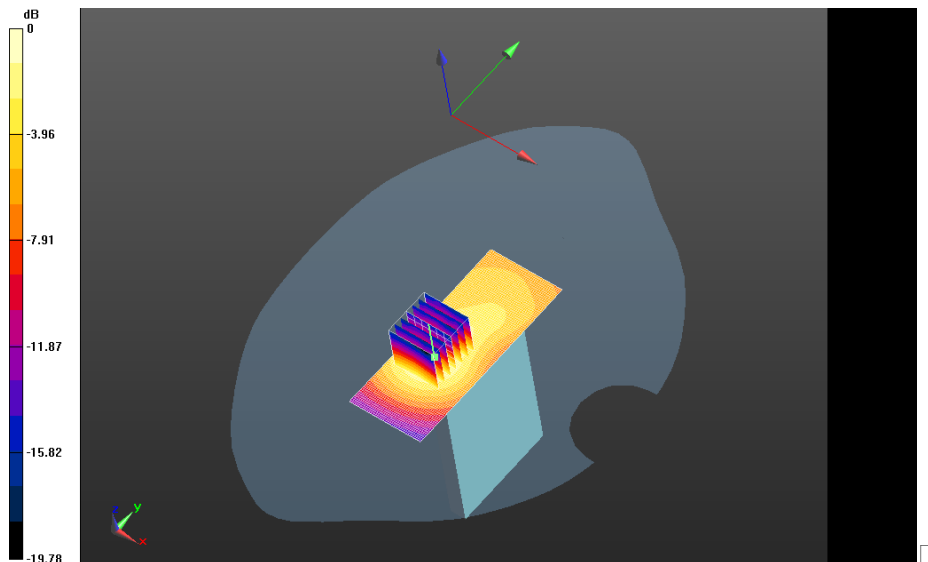
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**Flat-Section MSL\_MHS\_Body\_SAR/Device Bottom\_10mm\_802.11b\_Mid\_Chan\_Amb\_Temp\_23.3C\_Liquid\_Temp\_21.4C/Area Scan (41x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm**  
 Maximum value of SAR (interpolated) = 0.112 W/kg

**Flat-Section MSL\_MHS\_Body\_SAR/Device Bottom\_10mm\_802.11b\_Mid\_Chan\_Amb\_Temp\_23.3C\_Liquid\_Temp\_21.4C /Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm**


Reference Value = 7.411 V/m; **Power Drift = -0.00647 dB**

**Averaged SAR: SAR(1g) = 0.103 W/kg; SAR(10g) = 0.0573 W/kg**  
 Maximum value of SAR (interpolated) = 0.194 W/kg



0 dB = 0.0599 W/kg = -12.23 dBW/kg



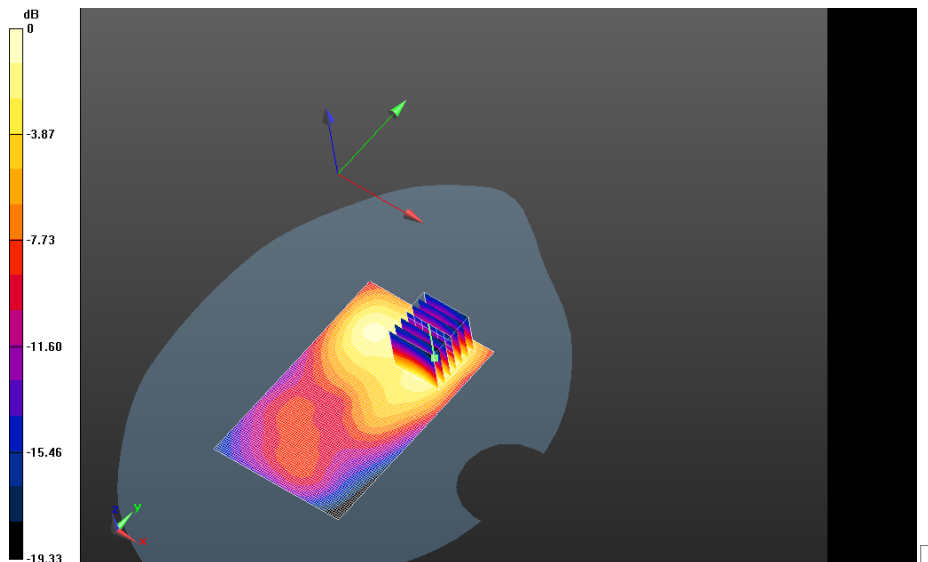
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**Flat-Section MSL\_MHS\_Body\_SAR/Device Back+HS\_10mm\_802.11b\_Mid\_Chan\_Amb\_Temp\_23.6C\_Liquid\_Temp\_21.5C/Area Scan (71x111x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
 Maximum value of SAR (interpolated) = 0.340 W/kg


**Flat-Section MSL\_MHS\_Body\_SAR/Device Back+HS\_10mm\_802.11b\_Mid\_Chan\_Amb\_Temp\_23.6C\_Liquid\_Temp\_21.5C/Zoom Scan (31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 12.455 V/m; **Power Drift = 0.015 dB**


**Averaged SAR: SAR(1g) = 0.277 W/kg; SAR(10g) = 0.149 W/kg**  
 Maximum value of SAR (interpolated) = 0.540 W/kg



0 dB = 0.126 W/kg = -9.00 dBW/kg

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# Bluetooth

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Date: 3/21/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A54**

### **Configuration: Mobile Hot Spot MSL - Bluetooth**

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz

Medium Parameters used:  $f=2441$  MHz;  $\sigma = 1.961$  S/m;  $\epsilon_r = 50.399$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

#### **Mobile Hot Spot MSL - Bluetooth/10mm Device Back -**

**Bluetooth\_chan39\_amb\_temp\_24.1C\_liq\_temp\_21.6C/Area Scan (81x111x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0340 W/kg

#### **Mobile Hot Spot MSL - Bluetooth/10mm Device Back -**


**Bluetooth\_chan39\_amb\_temp\_24.1C\_liq\_temp\_21.6C/Zoom Scan (31x31x36)/Cube 0:**

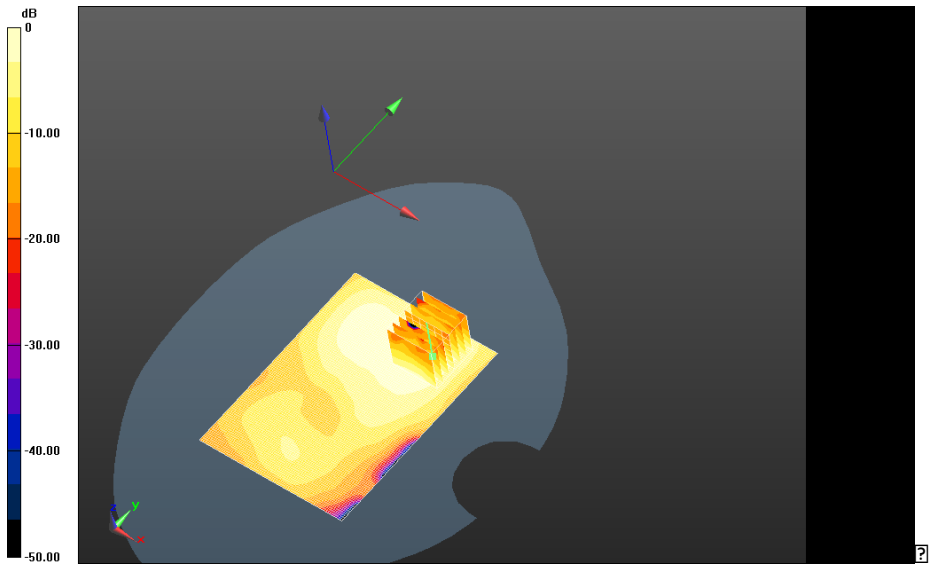
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 3.899 V/m; **Power Drift = 0.049 dB**


**Averaged SAR: SAR(1g) = 0.0262 W/kg; SAR(10g) = 0.0142 W/kg**

Maximum value of SAR (interpolated) = 0.0495 W/kg

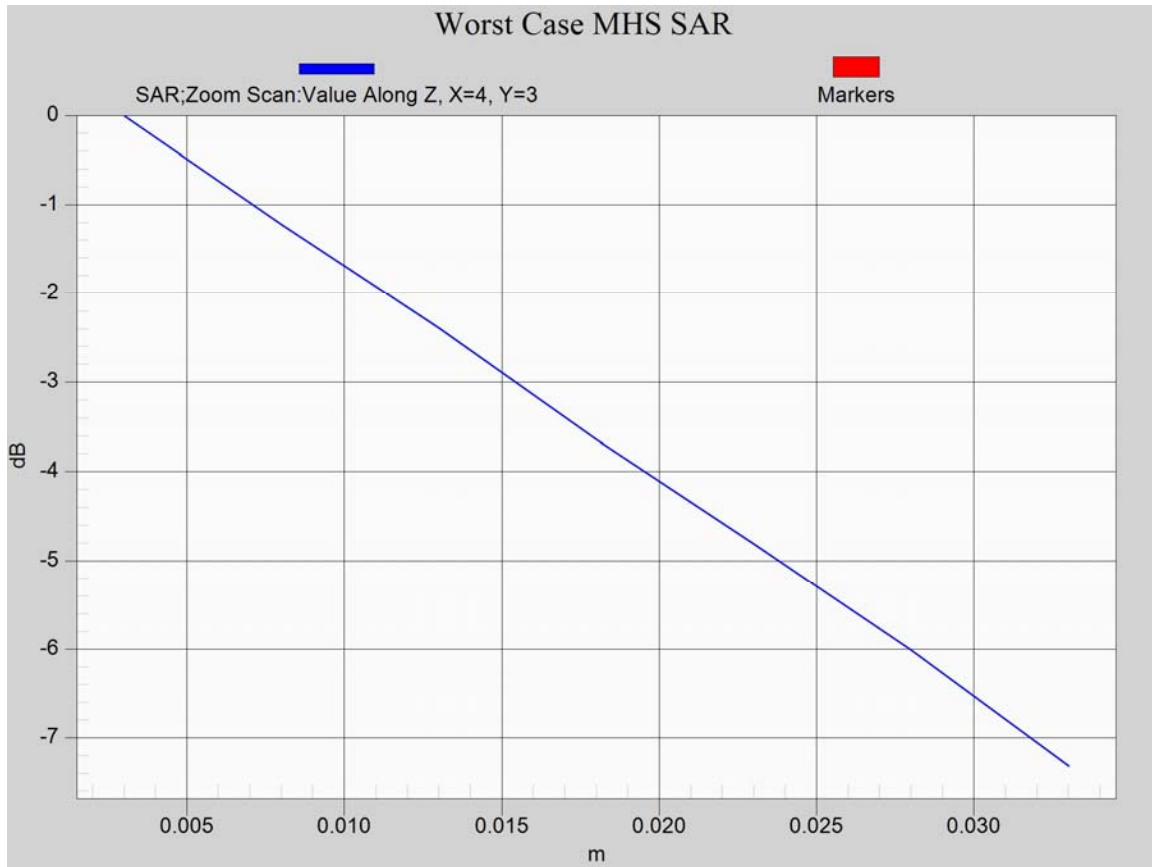
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0 dB = 0.0328 W/kg = -14.84 dBW/kg


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**Z axis plot for the worst case MHS configuration**




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# Model: RFT81UW

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# GPRS 850

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Date: 3/15/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02B80**

**Configuration: Mobile Hot Spot MSL - GPRS 850**

Communication System: GPRS 850; Communication System Band: GPRS 850; Frequency: 824.2 MHz

Medium Parameters used:  $f=825$  MHz;  $\sigma = 0.964$  S/m;  $\epsilon_r = 54.709$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-**

**slot\_chan128\_amb\_temp\_24.5C\_liq\_temp\_22.5C/Area Scan (61x91x1):** Interpolated grid:

$dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 1.39 W/kg

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-**

**slot\_chan128\_amb\_temp\_24.5C\_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 = 38.588 V/m; **Power Drift = 0.023 dB**

**Averaged SAR: SAR(1g) = 1.24 W/kg; SAR(10g) = 0.919 W/kg**

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



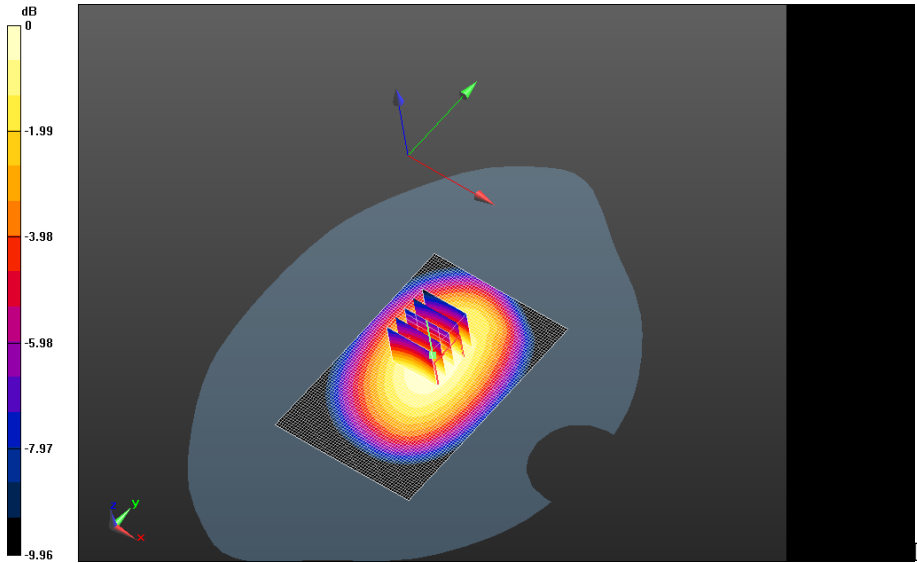
Author Data  
**Andrew Becker**

Dates of Test  
**Mar 04 – May 13, 2013**


Test Report No  
**RTS-6036-1305-12**

FCC ID:  
**L6ARFT80UW**

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0 dB = 1.37 W/kg = 1.37 dBW/kg

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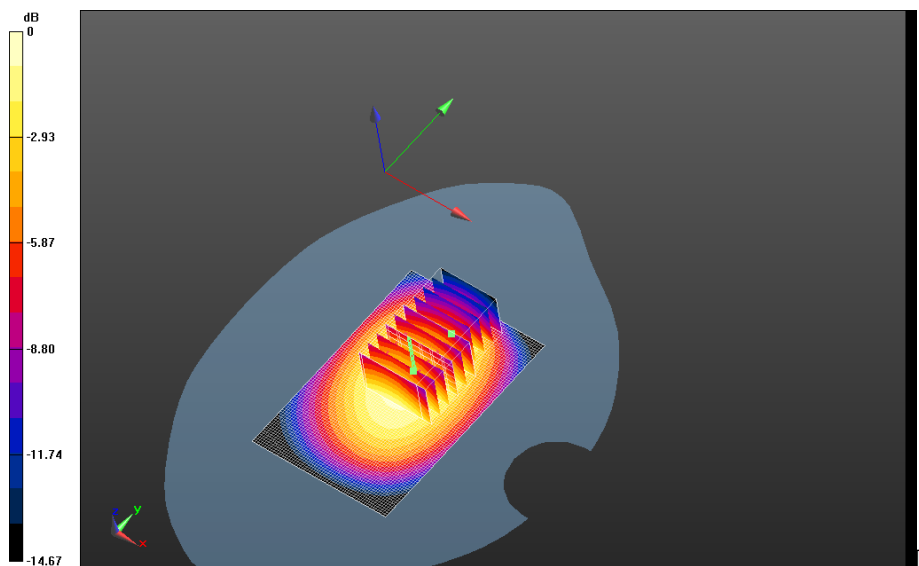
**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan128\_amb\_temp\_23.4C\_liq\_temp\_21.5C\_2nd scan/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 37.606 V/m; **Power Drift = -0.031 dB**

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan128\_amb\_temp\_23.4C\_liq\_temp\_21.5C\_2nd scan/Zoom Scan (31x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 37.606 V/m; **Power Drift = -0.031 dB**


**Averaged SAR: SAR(1g) = 1.22 W/kg; SAR(10g) = 0.898 W/kg**  
Maximum value of SAR (interpolated) = 1.62 W/kg

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan128\_amb\_temp\_23.4C\_liq\_temp\_21.5C\_2nd scan/Zoom Scan 2 (26x46x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 37.606 V/m; **Power Drift = -0.151 dB**

**Averaged SAR: SAR(1g) = 1.21 W/kg; SAR(10g) = 0.892 W/kg**  
Maximum value of SAR (interpolated) = 1.59 W/kg



0 dB = 1.43 W/kg = 1.55 dBW/kg

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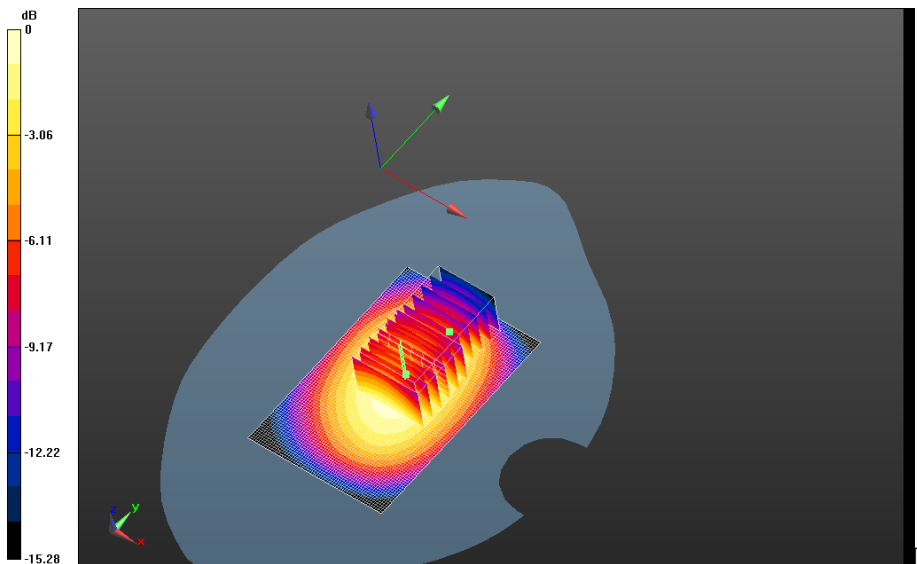
**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan190\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 38.709 V/m; **Power Drift = -0.269 dB**

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan190\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Zoom Scan (31x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 38.709 V/m; **Power Drift = -0.069 dB**


**Averaged SAR: SAR(1g) = 1.22 W/kg; SAR(10g) = 0.901 W/kg**  
 Maximum value of SAR (interpolated) = 1.58 W/kg

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan190\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Zoom Scan 2 (26x46x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 38.709 V/m; **Power Drift = -0.163 dB**

**Averaged SAR: SAR(1g) = 1.22 W/kg; SAR(10g) = 0.895 W/kg**  
 Maximum value of SAR (interpolated) = 1.64 W/kg



0 dB = 1.35 W/kg = 1.30 dBW/kg

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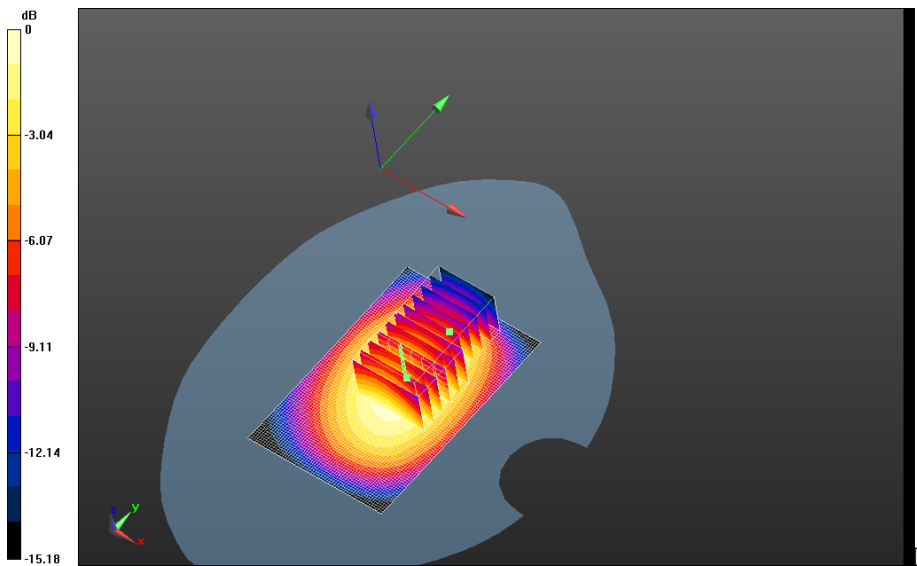
**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan251\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 35.451 V/m; **Power Drift = -0.211 dB**

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan251\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Zoom Scan (31x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 35.451 V/m; **Power Drift = -0.211 dB**


**Averaged SAR: SAR(1g) = 1.05 W/kg; SAR(10g) = 0.775 W/kg**  
 Maximum value of SAR (interpolated) = 1.36 W/kg

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-slot\_chan251\_amb\_temp\_23.4C\_liq\_temp\_21.5C/Zoom Scan 2 (26x46x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 35.451 V/m; **Power Drift = -0.132 dB**


**Averaged SAR: SAR(1g) = 1.05 W/kg; SAR(10g) = 0.775 W/kg**  
 Maximum value of SAR (interpolated) = 1.33 W/kg



0 dB = 1.36 W/kg = 1.34 dBW/kg

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# UMTS Band V

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Date: 3/18/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02B80**

**Configuration: MHS UMTS V**

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

Frequency: 826.4 MHz

Medium Parameters used: f=826.4 MHz;  $\sigma = 0.962$  S/m;  $\epsilon_r = 53.076$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

**MHS UMTS V/10mm\_Back\_UMTS\_V\_chan4132\_amb\_temp\_23.6C\_liq\_temp\_21.7C/Area Scan (101x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 30.635 V/m; **Power Drift = 0.036 dB**

**Fast SAR: SAR(1g) = 0.800 W/kg; SAR(10g) = 0.556 W/kg**

Maximum value of SAR (interpolated) = 0.910 W/kg

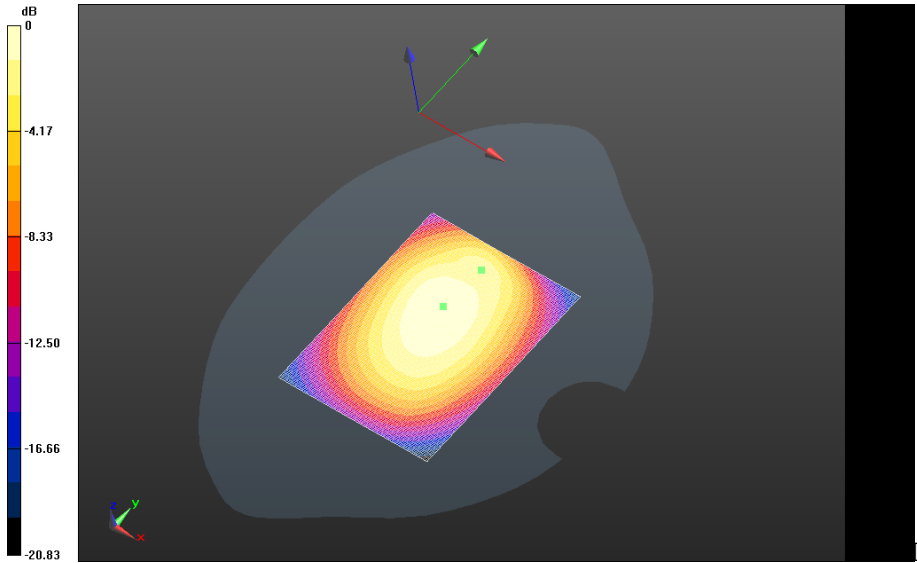
Author Data  
**Andrew Becker**

Dates of Test  
**Mar 04 – May 13, 2013**


Test Report No  
**RTS-6036-1305-12**

FCC ID:  
**L6ARFT80UW**

IC  
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0 dB = 0.910 W/kg = -0.41 dBW/kg

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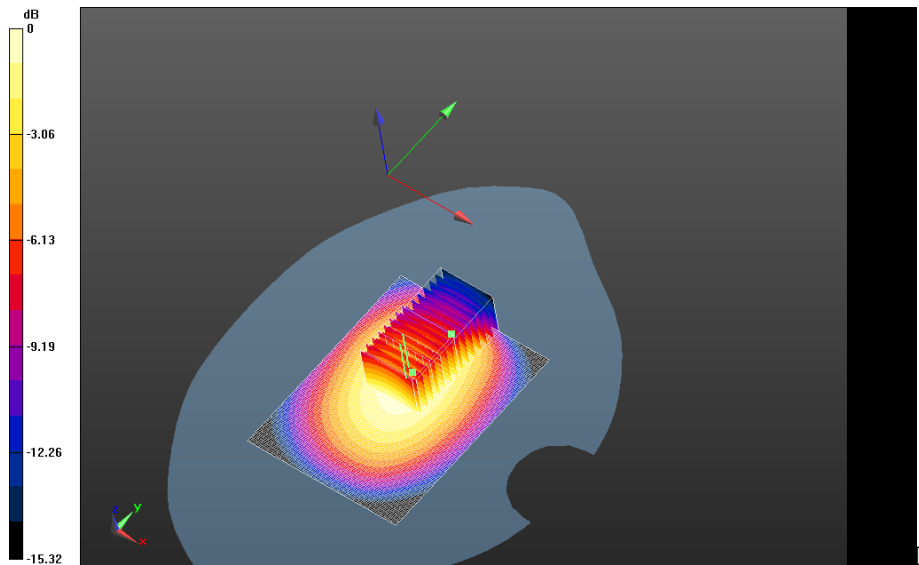
**MHS UMTS V/10mm\_Back\_UMTS\_V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.7C/Area Scan (101x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
 Reference Value = 30.830 V/m; **Power Drift = 0.00484 dB**

**MHS UMTS V/10mm\_Back\_UMTS\_V\_chan4182\_amb\_temp\_23.6C\_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 = 30.830 V/m; **Power Drift = 0.00484 dB**

**Averaged SAR: SAR(1g) = 0.850 W/kg; SAR(10g) = 0.628 W/kg**  
 Maximum value of SAR (interpolated) = 1.10 W/kg


**MHS UMTS V/10mm\_Back\_UMTS\_V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.7C/Zoom Scan 2 (36x66x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
 Reference Value = 30.830 V/m; **Power Drift = 0.014 dB**

**Averaged SAR: SAR(1g) = 0.842 W/kg; SAR(10g) = 0.624 W/kg**  
 Maximum value of SAR (interpolated) = 1.10 W/kg



0 dB = 0.910 W/kg = -0.41 dBW/kg



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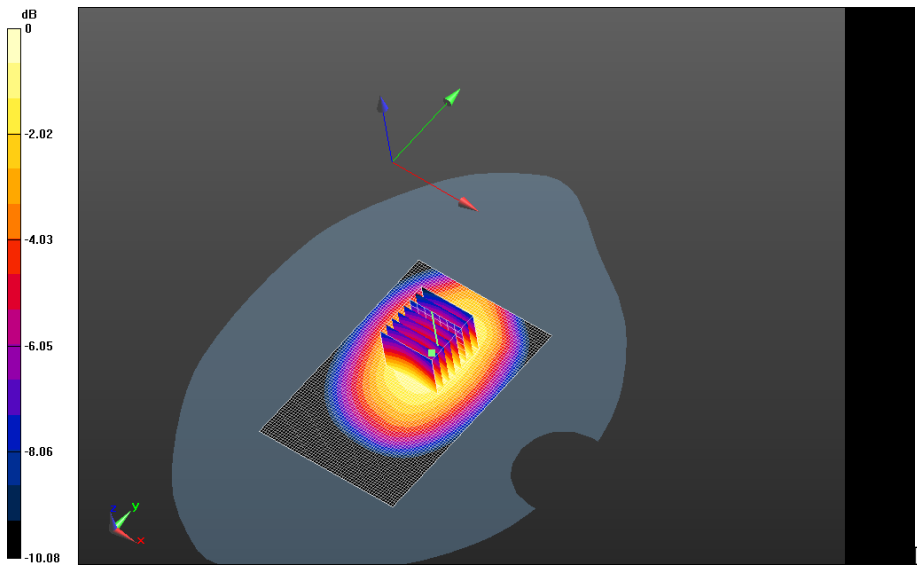
**MHS UMTS**

**V/10mm\_Back\_UMTS\_V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.7C\_2nd\_scan/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 29.636 V/m; **Power Drift = -0.037 dB**


**MHS UMTS**

**V/10mm\_Back\_UMTS\_V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.7C\_2nd\_scan/Zoom Scan (36x36x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
 Reference Value = 29.636 V/m; **Power Drift = -0.037 dB**

**Averaged SAR: SAR(1g) = 0.883 W/kg; SAR(10g) = 0.653 W/kg**  
 Maximum value of SAR (interpolated) = 1.16 W/kg

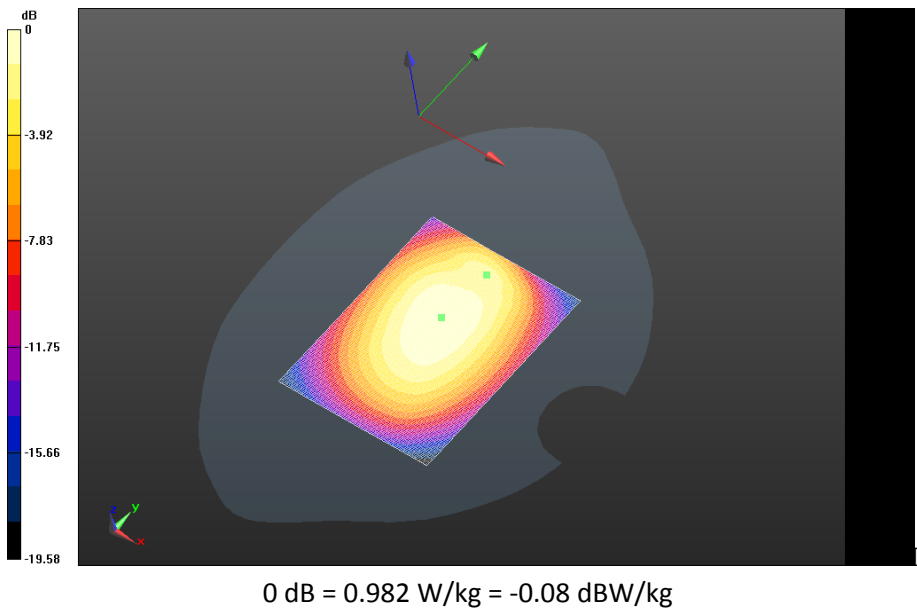



0 dB = 0.931 W/kg = -0.31 dBW/kg

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**MHS UMTS V/10mm\_Back\_UMTS\_V\_chan4233\_amb\_temp\_23.6C\_liq\_temp\_21.7C/Area Scan (101x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
 Reference Value = 29.982 V/m; **Power Drift = 0.177 dB**

**Fast SAR: SAR(1g) = 0.779 W/kg; SAR(10g) = 0.544 W/kg**  
 Maximum value of SAR (interpolated) = 0.884 W/kg



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# GPRS 1900

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Date: 3/26/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02B80**

**Configuration: Mobile Hot Spot MSL - GPRS 1900**

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.513$  S/m;  $\epsilon_r = 50.890$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS**

**1900\_mid\_chan\_amb\_temp\_23.7C\_liq\_temp\_22.0C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 15.521 V/m; **Power Drift = -0.181 dB**

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS**

**1900\_mid\_chan\_amb\_temp\_23.7C\_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 = 15.521 V/m; **Power Drift = -0.181 dB**

**Averaged SAR: SAR(1g) = 0.746 W/kg; SAR(10g) = 0.464 W/kg**

Maximum value of SAR (interpolated) = 1.17 W/kg

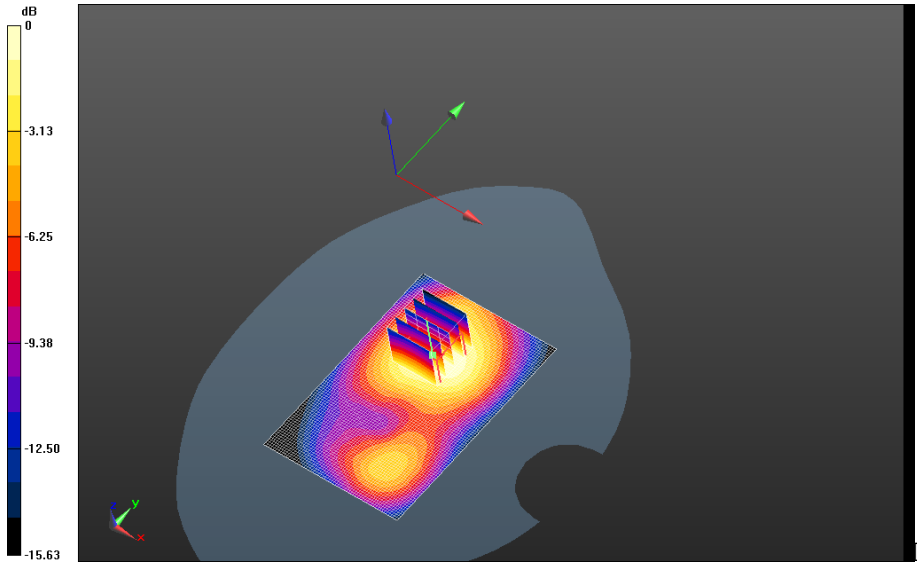
Author Data  
**Andrew Becker**

Dates of Test  
**Mar 04 – May 13, 2013**


Test Report No  
**RTS-6036-1305-12**

FCC ID:  
**L6ARFT80UW**

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0 dB = 0.873 W/kg = -0.59 dBW/kg

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Date/Time: 4/14/2013 11:42:41 PM

Test Laboratory: RIM Testing Services

## 10mm\_Front\_MHS\_GPRS1900-Rev1-01

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB02B80**

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 50.98$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

### **Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS 1900\_mid\_chan\_amb\_temp\_23.0C\_liq\_temp\_21.1C/Area Scan (61x91x1):**

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

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

### **Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS 1900\_mid\_chan\_amb\_temp\_23.0C\_liq\_temp\_21.1C/Zoom Scan**

**(6x6x7)/Cube 0:** Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 25.076 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.20 W/kg

**SAR(1 g) = 0.773 W/kg; SAR(10 g) = 0.499 W/kg**

Maximum value of SAR (measured) = 0.893 W/kg

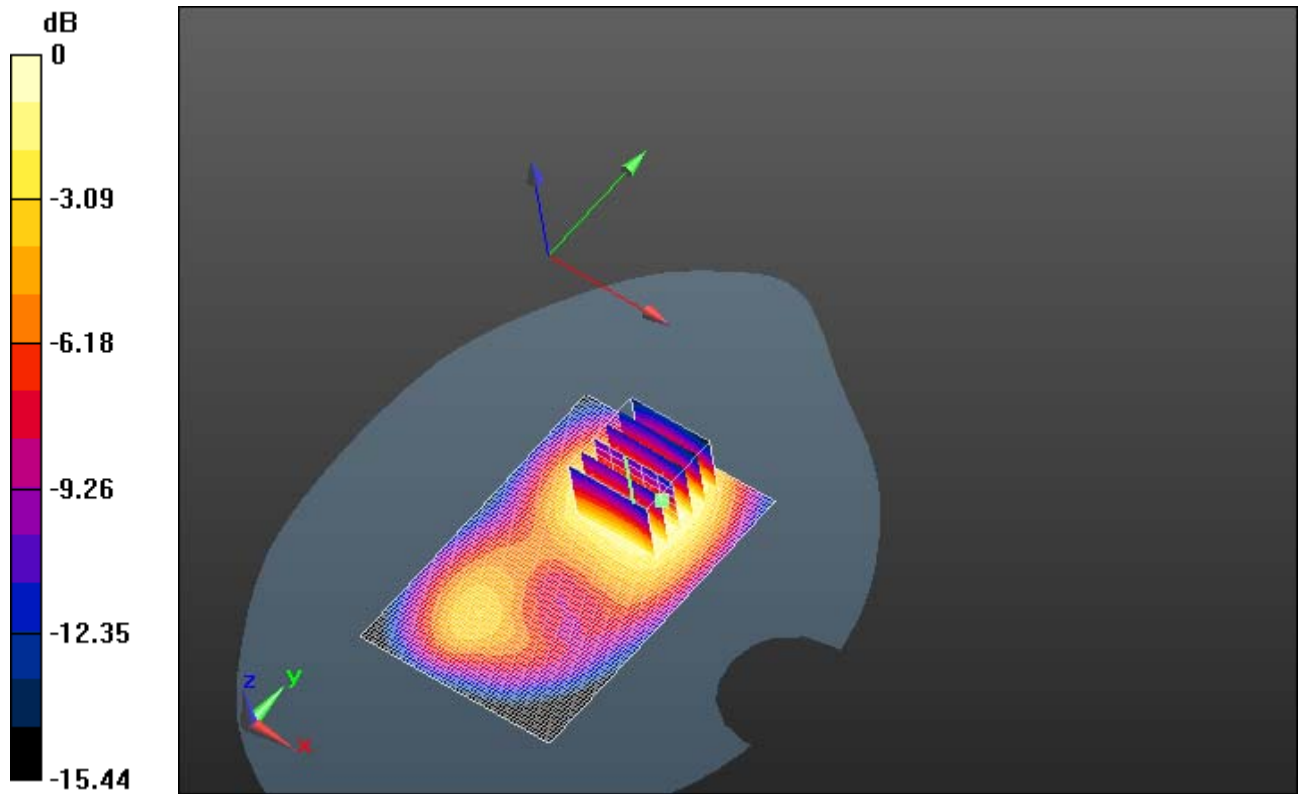
Author Data  
**Andrew Becker**

Dates of Test  
**Mar 04 – May 13, 2013**


Test Report No  
**RTS-6036-1305-12**

FCC ID:  
**L6ARFT80UW**

IC  
**2503A-RFT80UW**




0 dB = 0.893 W/kg = -0.49 dBW/kg

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# UMTS Band II



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Date: 4/25/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2FFF9A4D**

**Configuration: Mobile Hot Spot MSL - UMTS Band II**

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1907.6 MHz

Medium Parameters used:  $f=1907.6$  MHz;  $\sigma = 1.544$  S/m;  $\epsilon_r = 50.734$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

**Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -**

**UMTS\_II\_chan9538\_amb\_temp\_23.9C\_liq\_temp\_22.4/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

**Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -**


**UMTS\_II\_chan9538\_amb\_temp\_23.9C\_liq\_temp\_22.4/Zoom Scan (26x26x36)/Cube 0:**

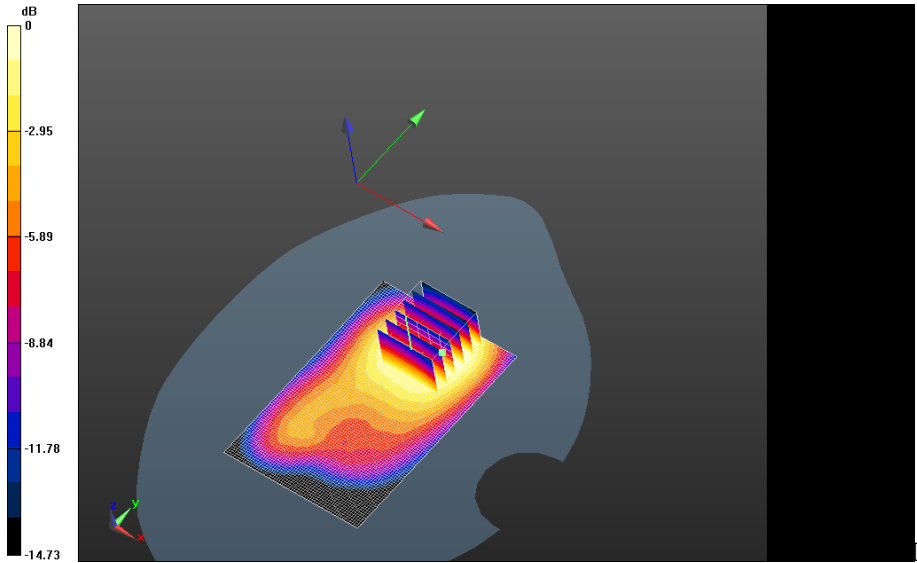
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 15.806 V/m; **Power Drift = -0.173 dB**

**Averaged SAR: SAR(1g) = 0.833 W/kg; SAR(10g) = 0.534 W/kg**

Maximum value of SAR (interpolated) = 1.36 W/kg

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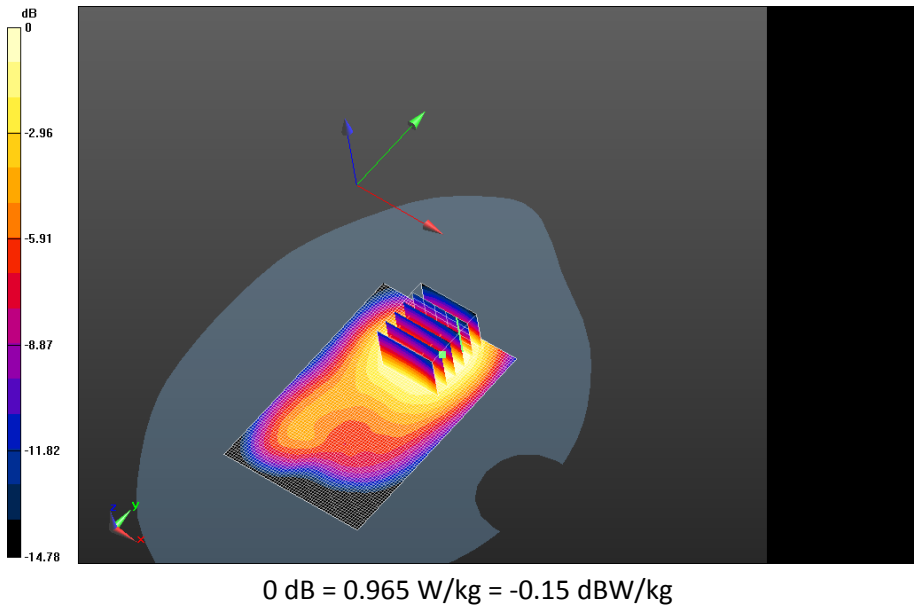



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**Mobile Hot Spot MSL - UMTS Band II/10mm Device Front - UMTS\_II\_chan9538\_amb\_temp\_23.9C\_liq\_temp\_22.4\_2nd/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Maximum value of SAR (interpolated) = 1.05 W/kg

**Mobile Hot Spot MSL - UMTS Band II/10mm Device Front - UMTS\_II\_chan9538\_amb\_temp\_23.9C\_liq\_temp\_22.4\_2nd/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 15.413 V/m; **Power Drift = 0.00297 dB**

**Averaged SAR: SAR(1g) = 0.807 W/kg; SAR(10g) = 0.522 W/kg**  
 Maximum value of SAR (interpolated) = 1.36 W/kg



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**Z axis plot for the worst case MHS configuration**

