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**APPENDIX C1: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION**

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# Model: RFS121LW

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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: 2AB02A49**

**Configuration: Body Worn 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)

**Body Worn MSL - GPRS 850/15mm 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 = 27.783 V/m; **Power Drift = 0.019 dB**

**Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850\_3-**

**slot\_chan190\_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 = 27.783 V/m; **Power Drift = 0.019 dB**

**Averaged SAR: SAR(1g) = 0.708 W/kg; SAR(10g) = 0.525 W/kg**

Maximum value of SAR (interpolated) = 0.920 W/kg

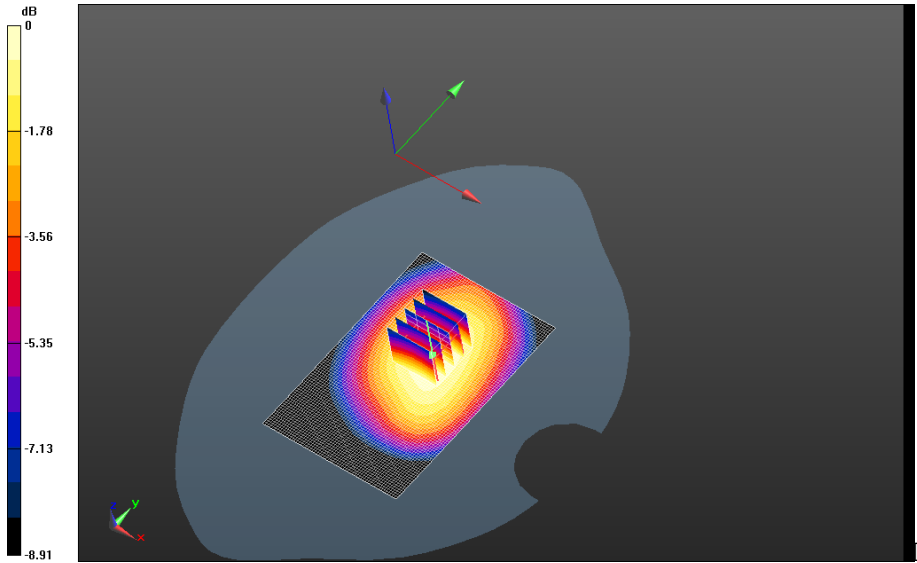
Author Data  
**Andrew Becker**

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**L6ARFT80UW**

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**2503A-RFT80UW**



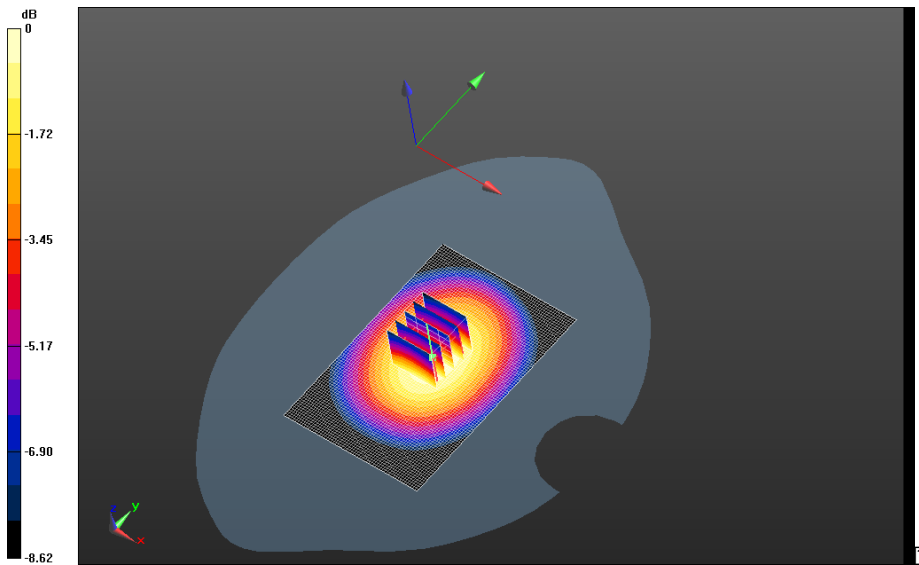
0 dB = 0.786 W/kg = -1.05 dBW/kg

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**Body Worn MSL - GPRS 850/Holster Device Back -GPRS 850\_3-slot\_chan128\_amb\_temp\_23.5C\_liq\_temp\_21.4C/Area Scan (61x91x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 31.260 V/m; **Power Drift = 0.010 dB**

**Body Worn MSL - GPRS 850/Holster Device Back -GPRS 850\_3-slot\_chan128\_amb\_temp\_23.5C\_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 = 31.260 V/m; **Power Drift = 0.010 dB**

**Averaged SAR: SAR(1g) = 0.811 W/kg; SAR(10g) = 0.599 W/kg**  
 Maximum value of SAR (interpolated) = 1.05 W/kg



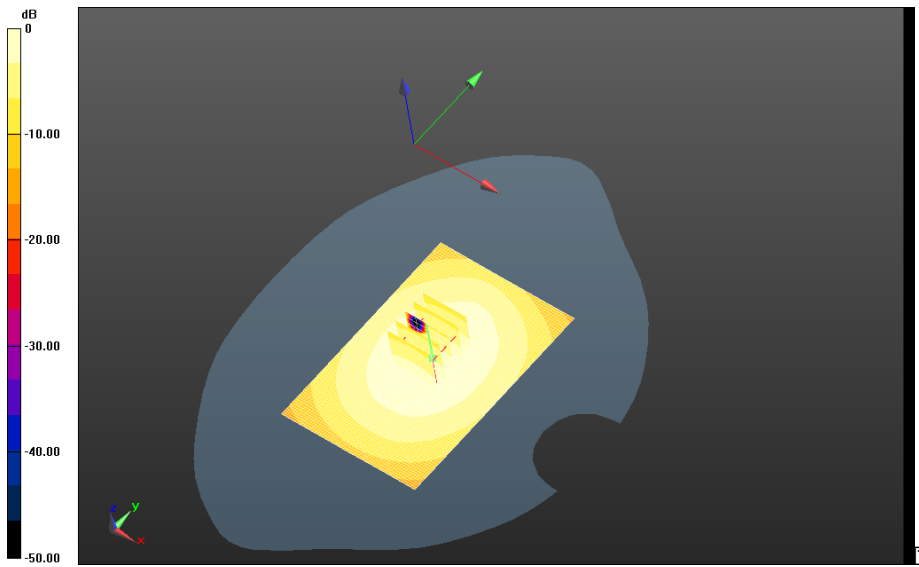
0 dB = 0.786 W/kg = -1.05 dBW/kg

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**Body Worn MSL - GPRS 850/Holster 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 = 32.052 V/m; **Power Drift = -0.060 dB**

**Body Worn MSL - GPRS 850/Holster Device Back -GPRS 850\_3-slot\_chan190\_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 = 32.052 V/m; **Power Drift = -0.060 dB**

**Averaged SAR: SAR(1g) = 0.813 W/kg; SAR(10g) = 0.596 W/kg**  
 Maximum value of SAR (interpolated) = 1.06 W/kg



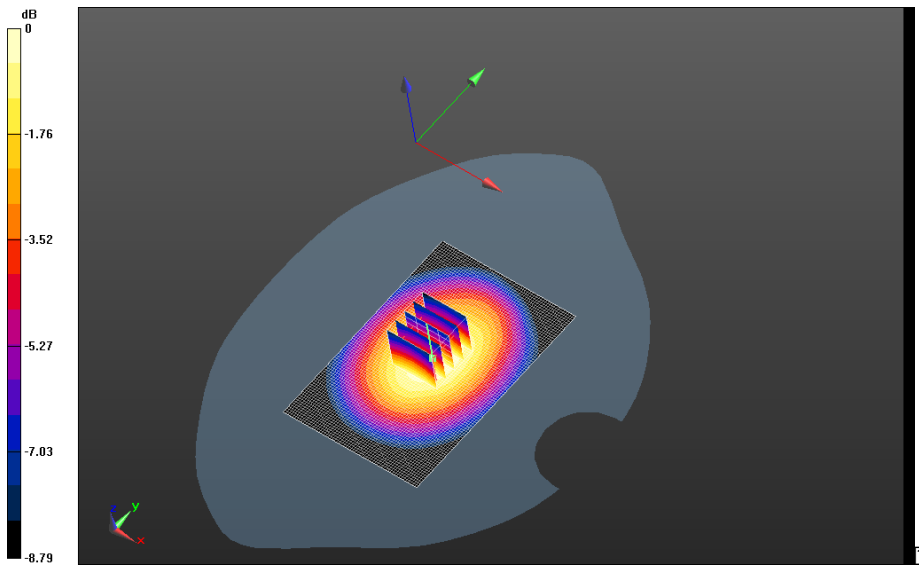
0 dB = 0.904 W/kg = -0.44 dBW/kg

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**Body Worn MSL - GPRS 850/Holster Device Back -GPRS 850\_3-slot\_chan190\_amb\_temp\_23.4C\_liq\_temp\_21.5C\_2nd/Area Scan (61x91x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 31.364 V/m; **Power Drift = 0.226 dB**

**Body Worn MSL - GPRS 850/Holster Device Back -GPRS 850\_3-slot\_chan190\_amb\_temp\_23.4C\_liq\_temp\_21.5C\_2nd/Zoom Scan (21x21x36)/Cube 0:**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 31.364 V/m; **Power Drift = 0.226 dB**

**Averaged SAR: SAR(1g) = 0.849 W/kg; SAR(10g) = 0.626 W/kg**  
Maximum value of SAR (interpolated) = 1.09 W/kg



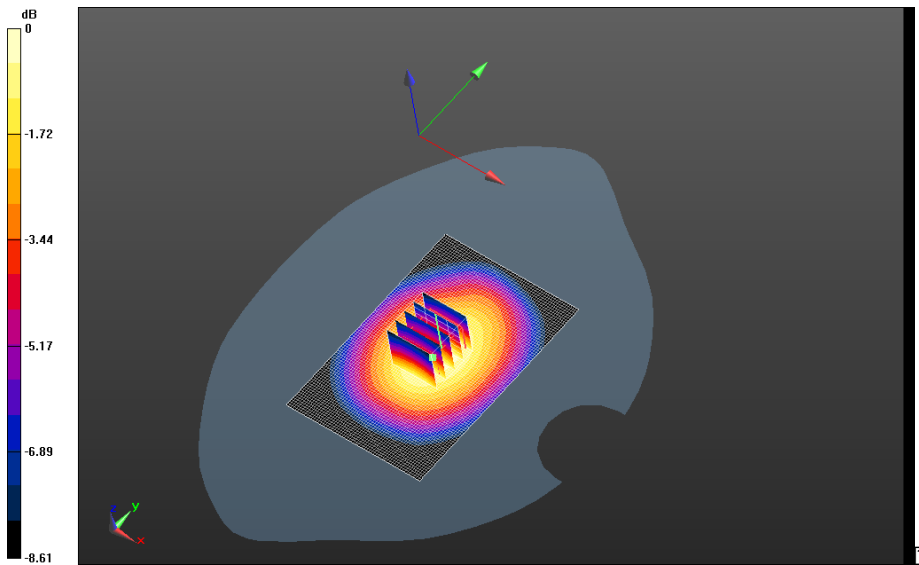


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**Body Worn MSL - GPRS 850/Holster Device Back -GPRS 850\_3-slot\_chan251\_amb\_temp\_23.6C\_liq\_temp\_21.5C/Area Scan (61x91x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 27.253 V/m; **Power Drift = -0.00544 dB**

**Body Worn MSL - GPRS 850/Holster Device Back -GPRS 850\_3-slot\_chan251\_amb\_temp\_23.6C\_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 = 27.253 V/m; **Power Drift = -0.00544 dB**

**Averaged SAR: SAR(1g) = 0.617 W/kg; SAR(10g) = 0.454 W/kg**  
Maximum value of SAR (interpolated) = 0.803 W/kg



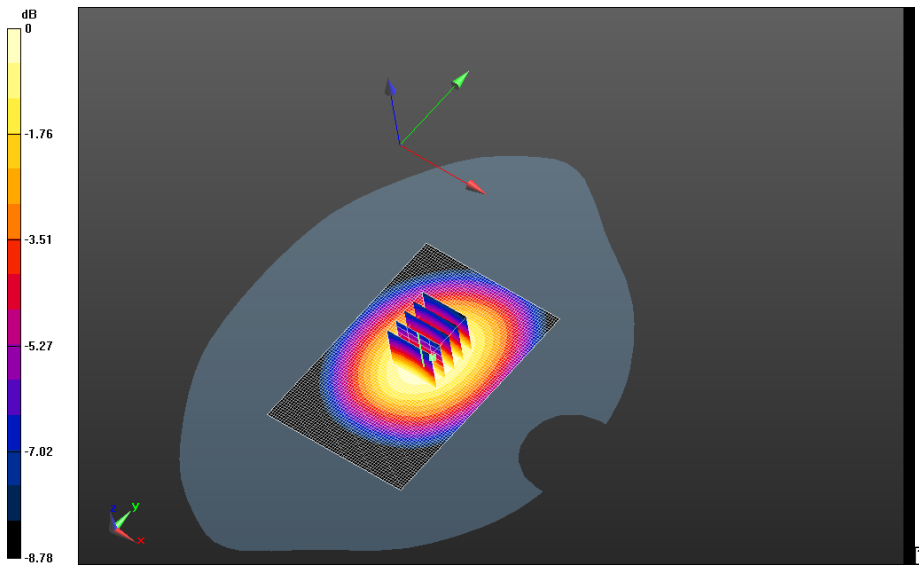
0 dB = 0.946 W/kg = -0.24 dBW/kg

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**Body Worn MSL - GPRS 850/Holster Device Front - 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 = 28.834 V/m; **Power Drift = -0.089 dB**

**Body Worn MSL - GPRS 850/Holster Device Front - GPRS 850\_3-slot\_chan190\_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 = 28.834 V/m; **Power Drift = -0.089 dB**


**Averaged SAR: SAR(1g) = 0.681 W/kg; SAR(10g) = 0.502 W/kg**  
 Maximum value of SAR (interpolated) = 0.893 W/kg



0 dB = 0.695 W/kg = -1.58 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: 2AB02A49**

### **Configuration: Body-worn UMTS V**

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

Frequency: 836.4 MHz

Medium Parameters used:  $f=836.4$  MHz;  $\sigma = 0.974$  S/m;  $\epsilon_r = 52.975$ ;  $\rho = 1.000$  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)

#### **Body-worn UMTS**

**V/15mm\_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 = 27.490 V/m; **Power Drift = -0.187 dB**

**Fast SAR: SAR(1g) = 0.615 W/kg; SAR(10g) = 0.428 W/kg**

Maximum value of SAR (interpolated) = 0.699 W/kg

#### **Body-worn UMTS**

**V/15mm\_Back\_UMTS\_V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.7C/Zoom Scan**

**(31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 27.490 V/m; **Power Drift = -0.187 dB**

**Averaged SAR: SAR(1g) = 0.629 W/kg; SAR(10g) = 0.467 W/kg**

Maximum value of SAR (interpolated) = 0.812 W/kg

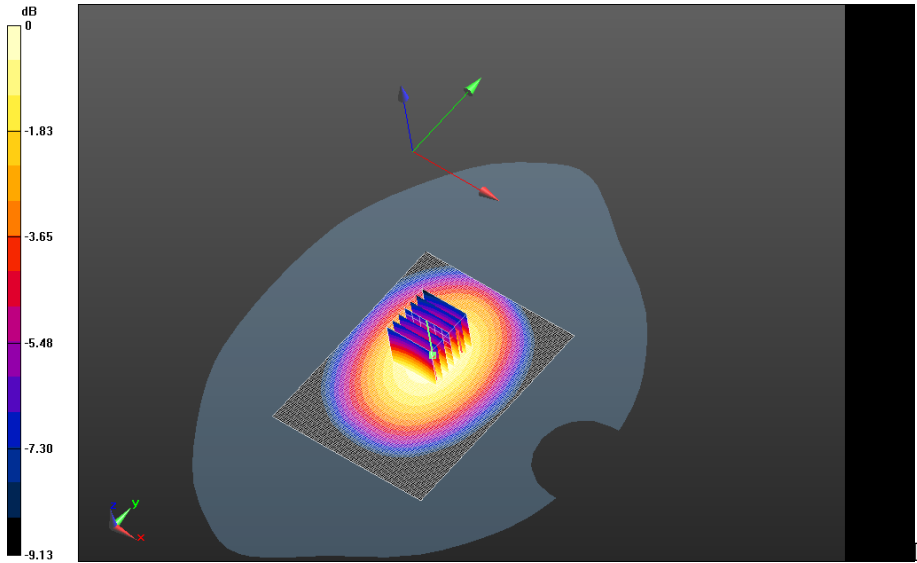
Author Data  
**Andrew Becker**

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FCC ID:  
**L6ARFT80UW**

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**2503A-RFT80UW**



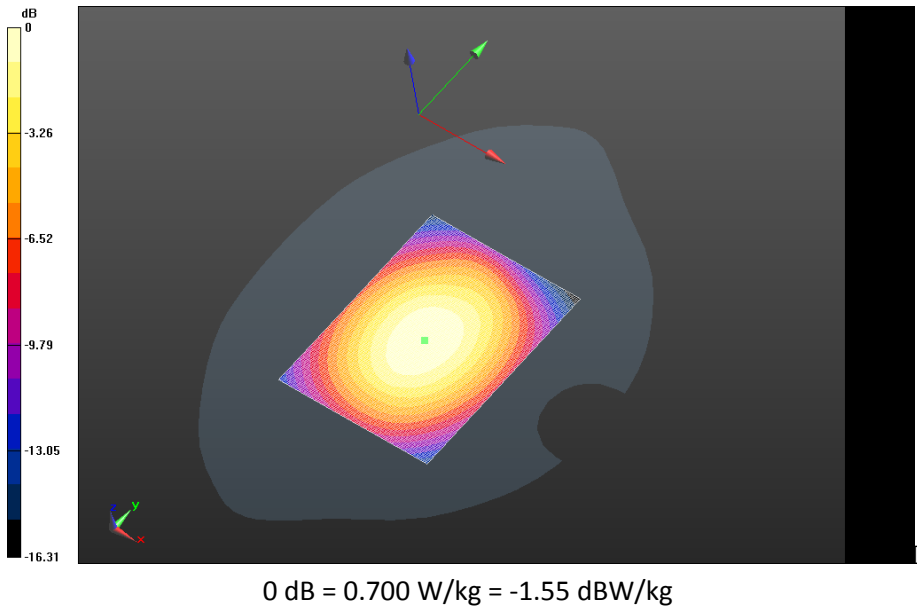
0 dB = 0.700 W/kg = -1.55 dBW/kg


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**Body-worn UMTS**

**V/Holster\_Device\_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 = 25.519 V/m; **Power Drift = -0.097 dB**

**Fast SAR: SAR(1g) = 0.528 W/kg; SAR(10g) = 0.367 W/kg**  
 Maximum value of SAR (interpolated) = 0.600 W/kg

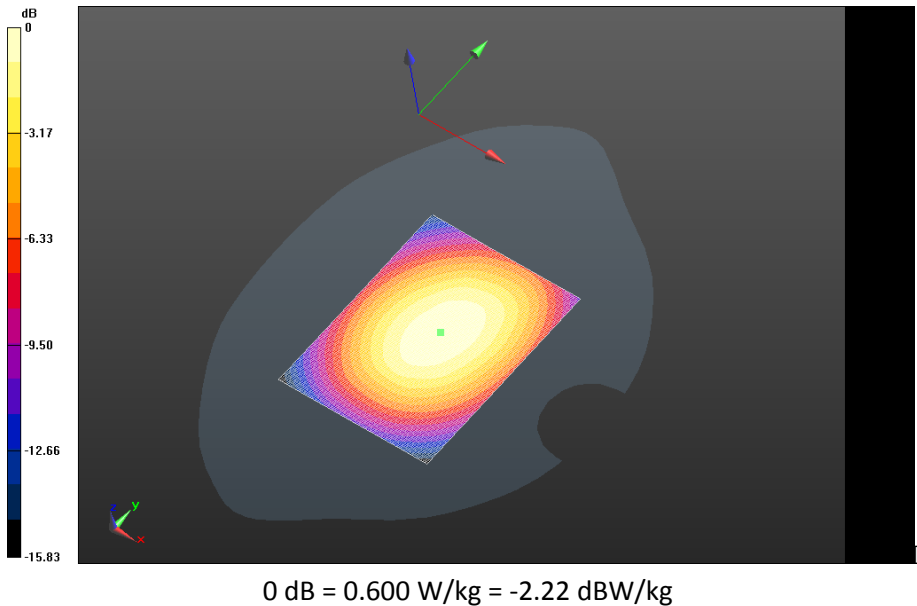



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**Body-worn UMTS**

**V/Holster\_Device\_Front\_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 = 22.545 V/m; **Power Drift = -0.00942 dB**


**Fast SAR: SAR(1g) = 0.412 W/kg; SAR(10g) = 0.285 W/kg**  
 Maximum value of SAR (interpolated) = 0.470 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: Body Worn 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)

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

**1900\_mid\_chan\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 10.730 V/m; **Power Drift = -0.053 dB**

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

**1900\_mid\_chan\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Zoom Scan (21x21x36)/Cube 0:**

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

Reference Value = 10.730 V/m; **Power Drift = -0.053 dB**

**Averaged SAR: SAR(1g) = 0.358 W/kg; SAR(10g) = 0.226 W/kg**

Maximum value of SAR (interpolated) = 0.541 W/kg

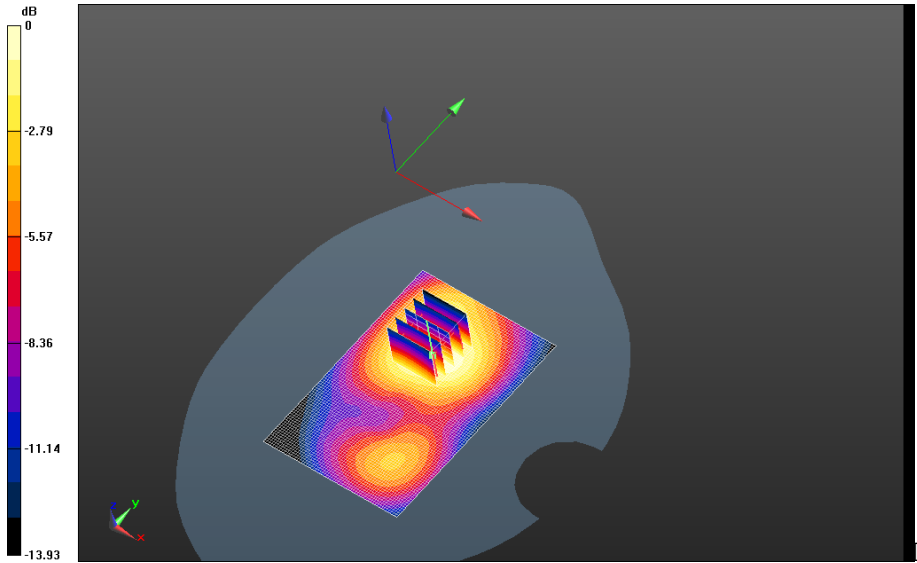
Author Data  
**Andrew Becker**

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0 dB = 0.419 W/kg = -3.78 dBW/kg

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**Body Worn MSL - GPRS 1900/Holster Device Back - GPRS**

**1900\_mid\_chan\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Area Scan (61x91x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm

Reference Value = 11.532 V/m; **Power Drift = -0.135 dB**

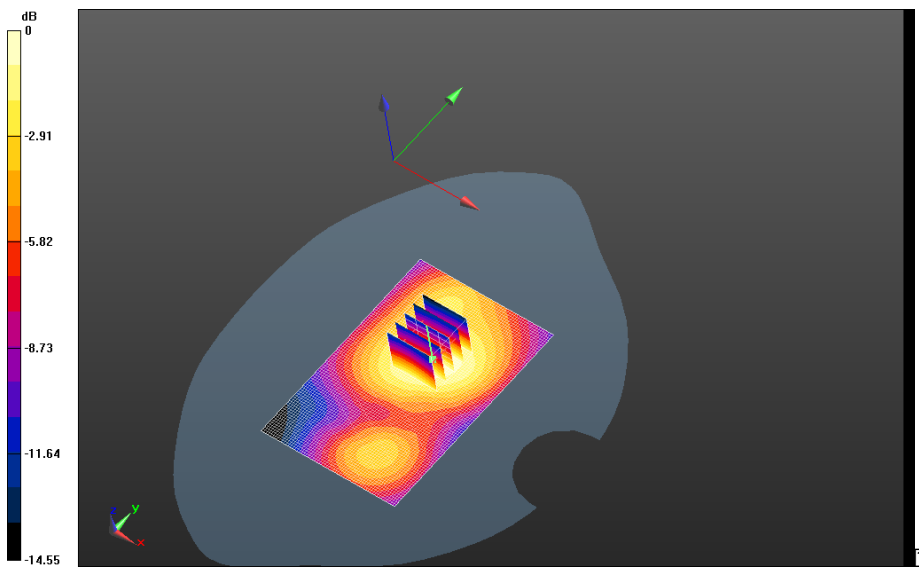
**Body Worn MSL - GPRS 1900/Holster Device Back - GPRS**

**1900\_mid\_chan\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Zoom Scan (21x21x36)/Cube 0:**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 11.532 V/m; **Power Drift = -0.135 dB**

**Averaged SAR: SAR(1g) = 0.218 W/kg; SAR(10g) = 0.136 W/kg**

Maximum value of SAR (interpolated) = 0.334 W/kg



0 dB = 0.419 W/kg = -3.78 dBW/kg

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**Body Worn MSL - GPRS 1900/Holster Device Front - GPRS**

**1900\_mid\_chan\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Area Scan (61x91x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm

Reference Value = 11.036 V/m; **Power Drift = 0.096 dB**

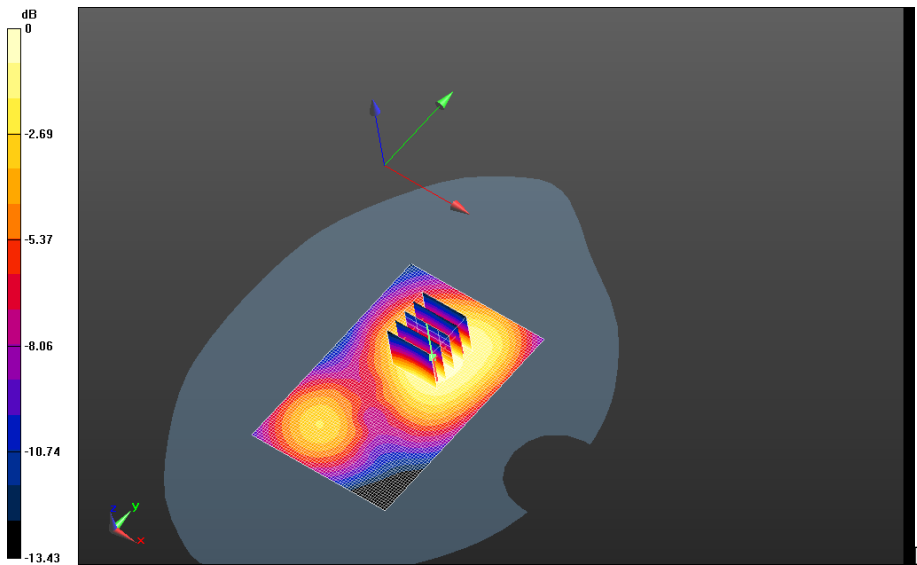
**Body Worn MSL - GPRS 1900/Holster Device Front - GPRS**

**1900\_mid\_chan\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Zoom Scan (21x21x36)/Cube 0:**  
 Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 11.036 V/m; **Power Drift = 0.096 dB**

**Averaged SAR: SAR(1g) = 0.268 W/kg; SAR(10g) = 0.171 W/kg**


Maximum value of SAR (interpolated) = 0.420 W/kg



0 dB = 0.255 W/kg = -5.93 dBW/kg

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# UMTS Band II

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Date: 3/12/2013

Test Lab: RIM Testing Services

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

**Configuration: Body Worn MSL - UMTS Band II**

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.539$  S/m;  $\epsilon_r = 51.659$ ;  $\rho = 1.000$  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)

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

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

Maximum value of SAR (interpolated) = 0.602 W/kg

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

**UMTS\_II\_mid\_chan\_amb\_temp\_23.7C\_liq\_temp\_22.0C/Zoom Scan (26x26x36)/Cube 0:**

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

Reference Value = 13.426 V/m; **Power Drift = -0.00204 dB**

**Averaged SAR: SAR(1g) = 0.529 W/kg; SAR(10g) = 0.338 W/kg**

Maximum value of SAR (interpolated) = 0.800 W/kg

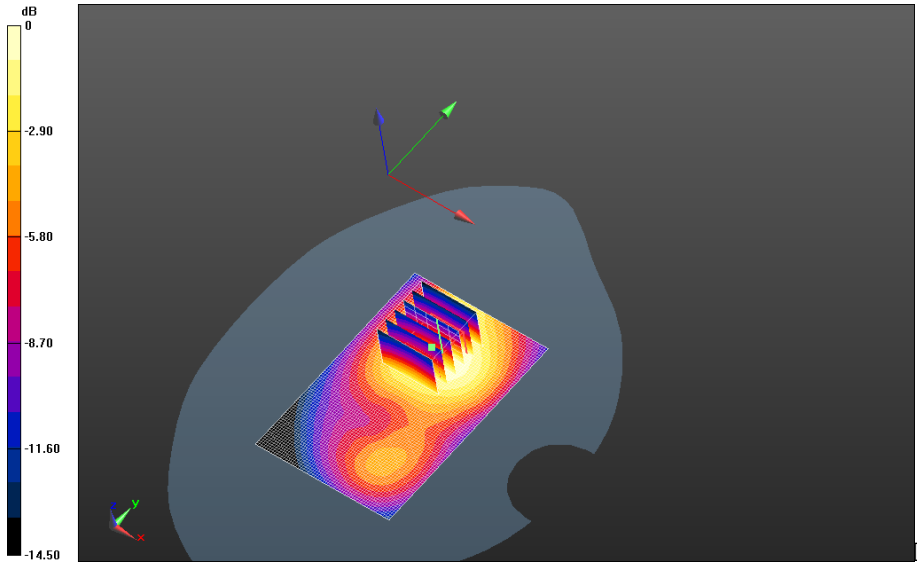
Author Data  
**Andrew Becker**

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 = 0.607 W/kg = -2.17 dBW/kg

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**Body Worn MSL - UMTS Band II/Holster Device Back -**

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

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

**Body Worn MSL - UMTS Band II/Holster Device Back -**

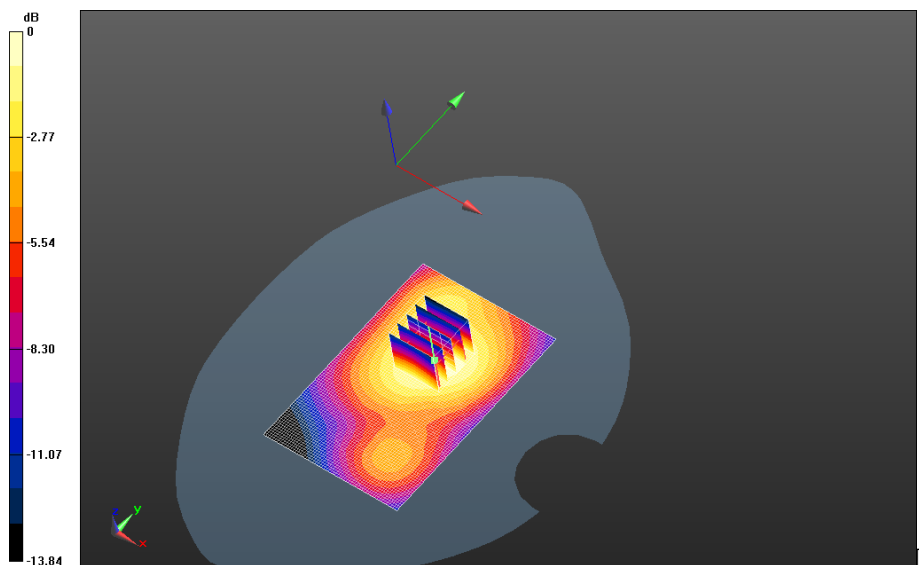
**UMTS\_II\_mid\_chan\_amb\_temp\_23.7C\_liq\_temp\_22.0C/Zoom Scan (21x21x36)/Cube 0:**

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

Reference Value = 13.810 V/m; **Power Drift = -0.079 dB**


**Averaged SAR: SAR(1g) = 0.321 W/kg; SAR(10g) = 0.203 W/kg**

Maximum value of SAR (interpolated) = 0.490 W/kg



0 dB = 0.607 W/kg = -2.17 dBW/kg

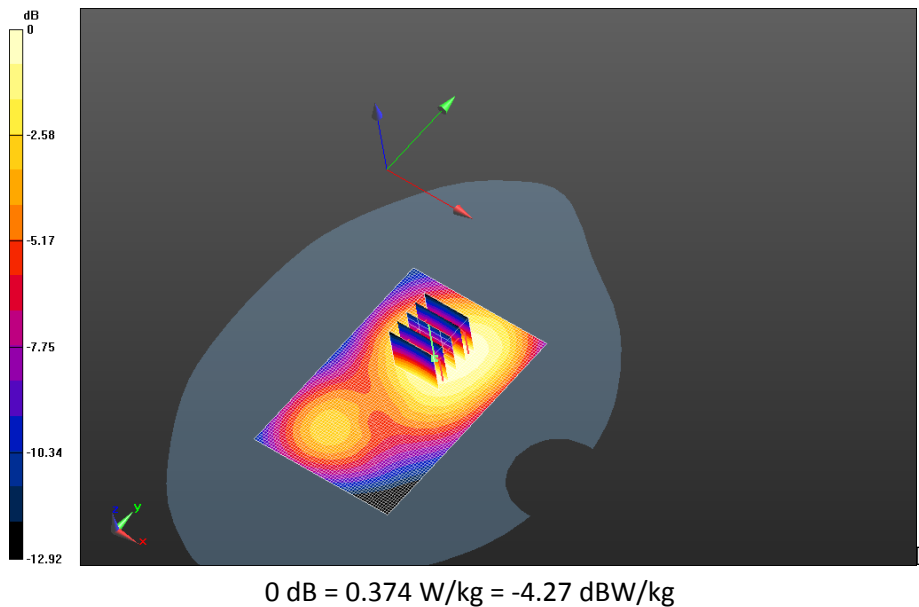



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**Body Worn MSL - UMTS Band II/Holster Device Front - UMTS\_II\_mid\_chan\_amb\_temp\_23.6C\_liq\_temp\_22.0C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Maximum value of SAR (interpolated) = 0.466 W/kg


**Body Worn MSL - UMTS Band II/Holster Device Front - UMTS\_II\_mid\_chan\_amb\_temp\_23.6C\_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 = 13.295 V/m; **Power Drift = -0.040 dB**

**Averaged SAR: SAR(1g) = 0.392 W/kg; SAR(10g) = 0.254 W/kg**  
 Maximum value of SAR (interpolated) = 0.603 W/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\_Body-Worn 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\_Body-Worn SAR/Device**

**Back\_15mm\_802.11b\_Mid\_Chan\_Amb\_Temp\_23.3C\_Liquid\_Temp\_21.6C/Area**

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

Maximum value of SAR (interpolated) = 0.161 W/kg

**Flat-Section MSL\_Body-Worn SAR/Device Back\_15mm\_802.11b\_Mid\_Chan**

**\_Amb\_Temp\_23.3C\_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 = 5.310 V/m; **Power Drift = -0.096 dB**

**Averaged SAR: SAR(1g) = 0.149 W/kg; SAR(10g) = 0.0877 W/kg**

Maximum value of SAR (interpolated) = 0.255 W/kg

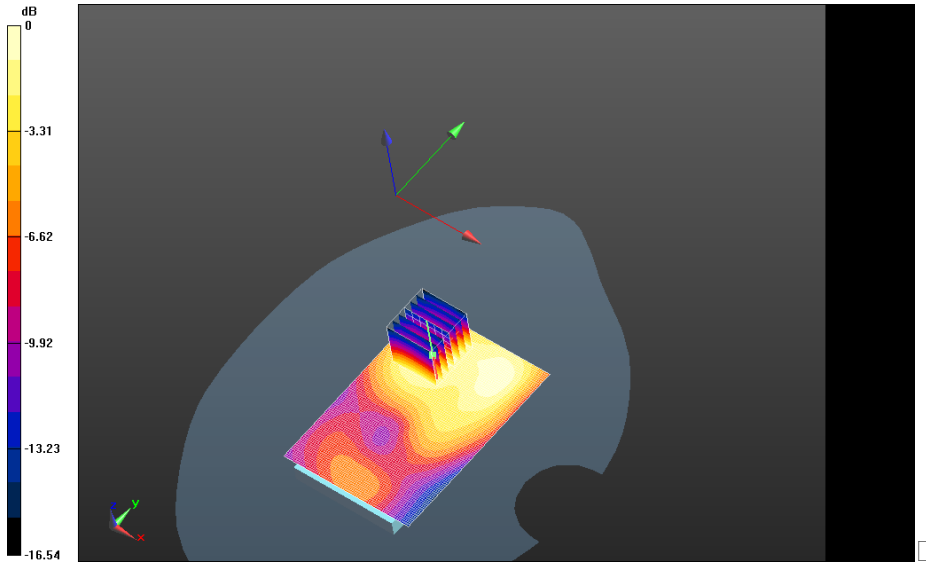
Author Data  
**Andrew Becker**

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


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

FCC ID:  
**L6ARFT80UW**

IC  
**2503A-RFT80UW**



0 dB = 0.161 W/kg = -7.93 dBW/kg

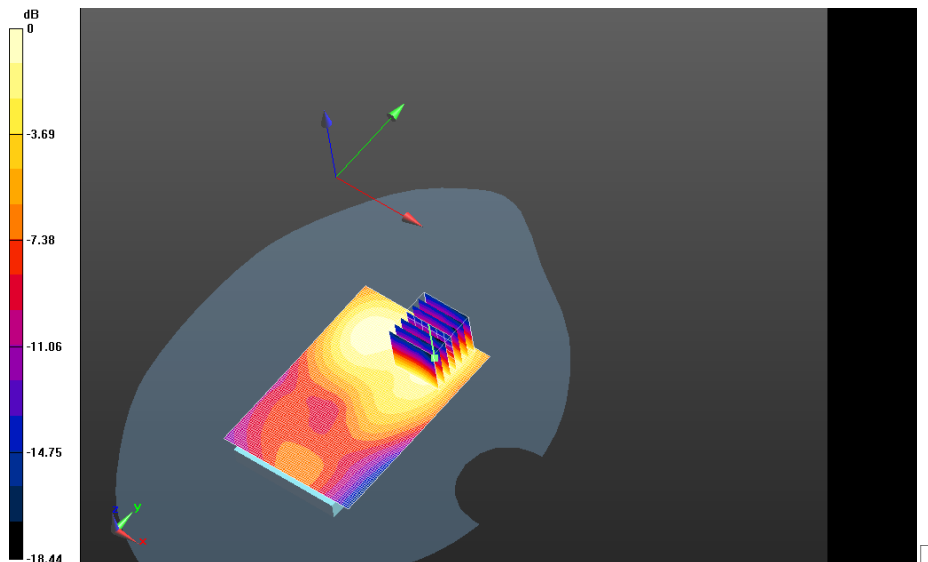
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**Flat-Section MSL\_Body-Worn SAR/Device Back+HS\_15mm\_802.11b\_Mid\_Chan\_Amb\_Temp\_23.5C\_Liquid\_Temp\_21.4C/Area Scan (71x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
 Maximum value of SAR (interpolated) = 0.164 W/kg


**Flat-Section MSL\_Body-Worn SAR/Device Back+HS\_15mm\_802.11b\_Mid\_Chan\_Amb\_Temp\_23.5C\_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 = 8.998 V/m; **Power Drift = 0.125 dB**

**Averaged SAR: SAR(1g) = 0.148 W/kg; SAR(10g) = 0.0846 W/kg**  
 Maximum value of SAR (interpolated) = 0.273 W/kg



0 dB = 0.161 W/kg = -7.93 dBW/kg

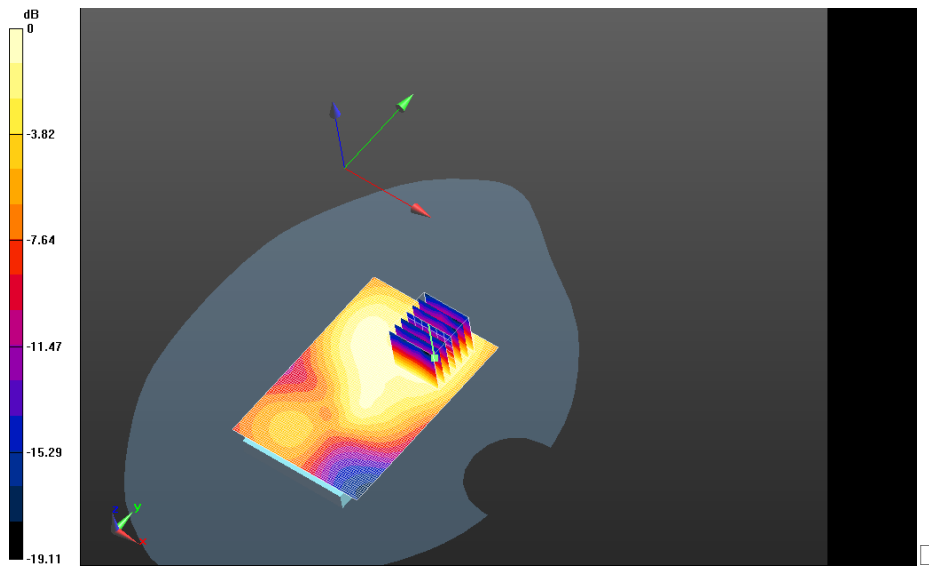
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**Flat-Section MSL\_Body-Worn SAR/Holster\_Device\_Back\_802.11b\_Mid\_Chan  
\_Amb\_Temp\_23.5C\_Liquid\_Temp\_21.5C/Area Scan (71x101x1):** Interpolated grid:  
dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 0.0917 W/kg


**Flat-Section MSL\_Body-Worn SAR/Holster\_Device\_Back\_802.11b\_Mid\_Chan  
\_Amb\_Temp\_23.5C\_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 = 6.860 V/m; **Power Drift = -0.027 dB**

**Averaged SAR: SAR(1g) = 0.0824 W/kg; SAR(10g) = 0.0466 W/kg**  
Maximum value of SAR (interpolated) = 0.154 W/kg



0 dB = 0.161 W/kg = -7.93 dBW/kg

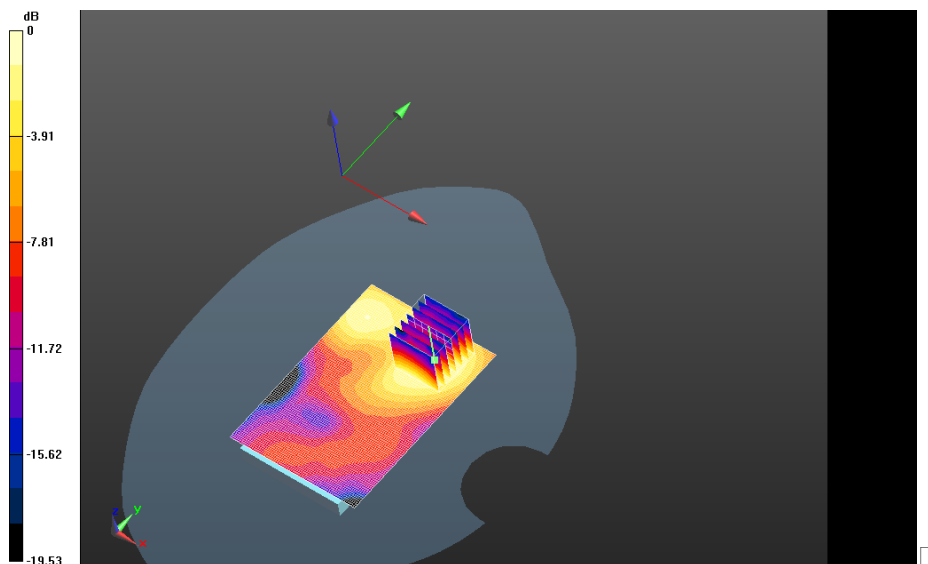
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**Flat-Section MSL\_Body-Worn SAR/Holster\_Device\_Front\_802.11b\_Mid\_Chan\_Amb\_Temp\_23.5C\_Liquid\_Temp\_21.6C/Area Scan (71x101x1):** Interpolated grid:  
 dx=1.200 mm, dy=1.200 mm  
 Maximum value of SAR (interpolated) = 0.0609 W/kg


**Flat-Section MSL\_Body-Worn SAR/Holster\_Device\_Front\_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 = 5.578 V/m; **Power Drift = 0.096 dB**

**Averaged SAR: SAR(1g) = 0.0560 W/kg; SAR(10g) = 0.0319 W/kg**  
 Maximum value of SAR (interpolated) = 0.104 W/kg




0 dB = 0.0895 W/kg = -10.48 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: Body Worn 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)

#### **Body Worn MSL - Bluetooth/15mm Device Back -**

**Bluetooth\_chan39\_amb\_temp\_23.4C\_liq\_temp\_21.6C/Area Scan (81x111x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0171 W/kg

#### **Body Worn MSL - Bluetooth/15mm Device Back -**


**Bluetooth\_chan39\_amb\_temp\_23.4C\_liq\_temp\_21.6C/Zoom Scan (31x31x36)/Cube 0:**

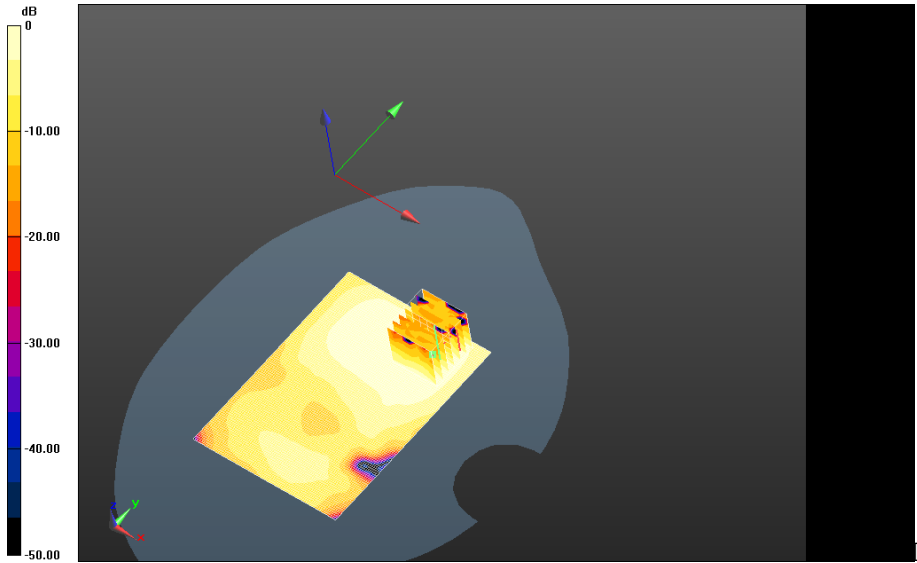
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 2.913 V/m; **Power Drift = -0.049 dB**


**Averaged SAR: SAR(1g) = 0.0135 W/kg; SAR(10g) = 0.00750 W/kg**

Maximum value of SAR (interpolated) = 0.0251 W/kg

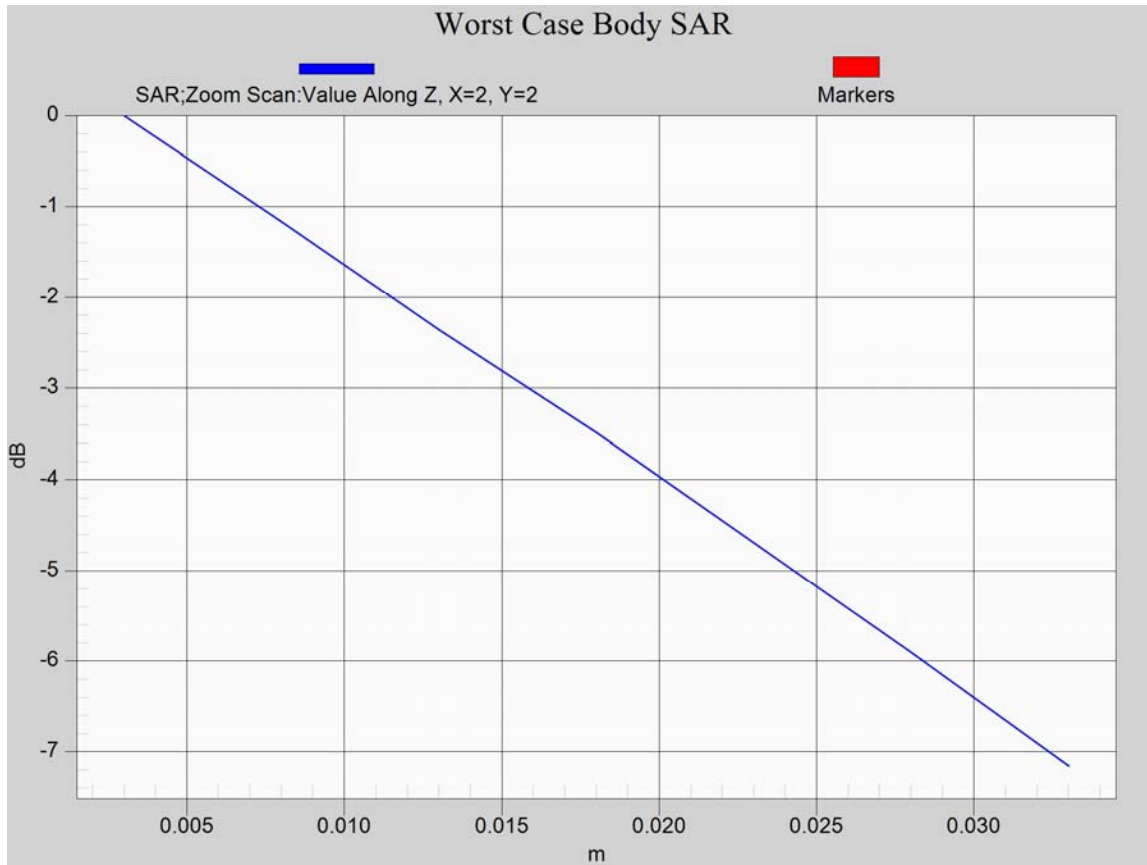
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0 dB = 0.0166 W/kg = -17.80 dBW/kg


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**Z axis plot for the worst case body 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: Body Worn 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)

**Body Worn MSL - GPRS 850/Holster 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 = 29.820 V/m; **Power Drift = -0.164 dB**

**Body Worn MSL - GPRS 850/Holster Device Back -GPRS 850\_3-**

**slot\_chan190\_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 = 29.820 V/m; **Power Drift = -0.164 dB**

**Averaged SAR: SAR(1g) = 0.724 W/kg; SAR(10g) = 0.537 W/kg**

Maximum value of SAR (interpolated) = 0.946 W/kg

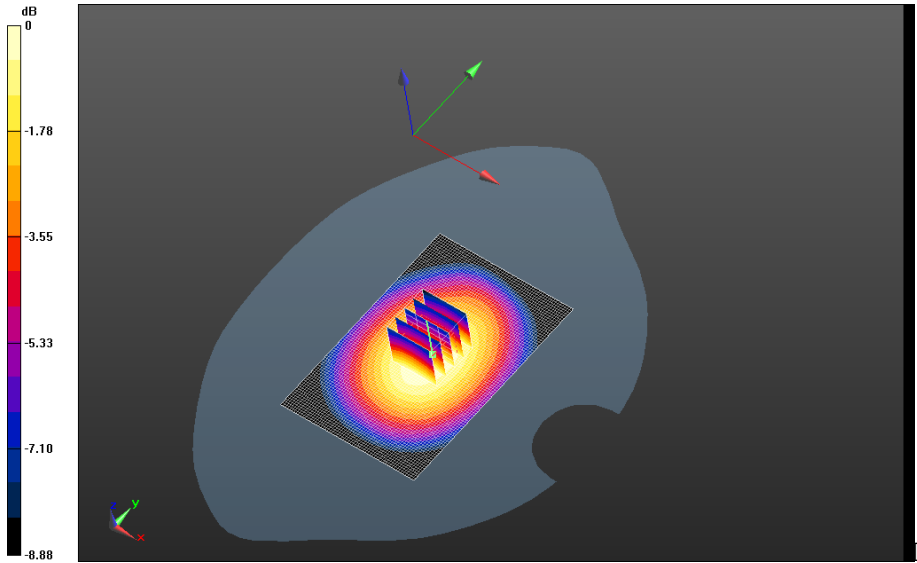
Author Data  
**Andrew Becker**

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 = 0.802 W/kg = -0.96 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: Body-worn UMTS V**

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

Frequency: 836.4 MHz

Medium Parameters used:  $f=836.4$  MHz;  $\sigma = 0.974$  S/m;  $\epsilon_r = 52.975$ ;  $\rho = 1.000$  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)

#### **Body-worn UMTS**

**V/15mm\_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 = 28.326 V/m; **Power Drift = 0.099 dB**

#### **Body-worn UMTS**

**V/15mm\_Back\_UMTS\_V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.7C/Zoom Scan**

**(31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 28.326 V/m; **Power Drift = 0.099 dB**

**Averaged SAR: SAR(1g) = 0.653 W/kg; SAR(10g) = 0.485 W/kg**

Maximum value of SAR (interpolated) = 0.840 W/kg

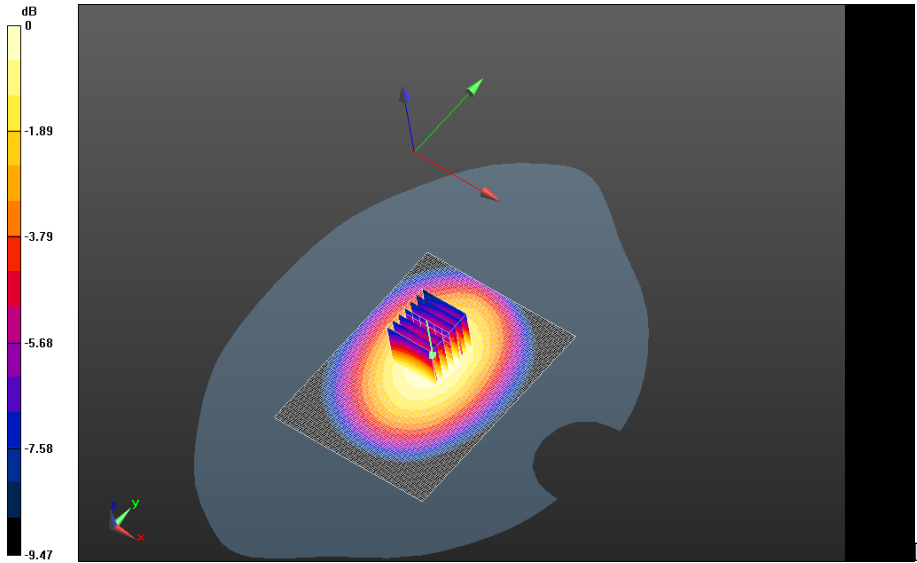
Author Data  
**Andrew Becker**

Dates of Test  
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**L6ARFT80UW**


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0 dB = 0.725 W/kg = -1.40 dBW/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: Body Worn 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)

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

**1900\_mid\_chan\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 12.114 V/m; **Power Drift = -0.068 dB**

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

**1900\_mid\_chan\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Zoom Scan (21x21x36)/Cube 0:**

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

Reference Value = 12.114 V/m; **Power Drift = -0.068 dB**

**Averaged SAR: SAR(1g) = 0.401 W/kg; SAR(10g) = 0.251 W/kg**

Maximum value of SAR (interpolated) = 0.620 W/kg

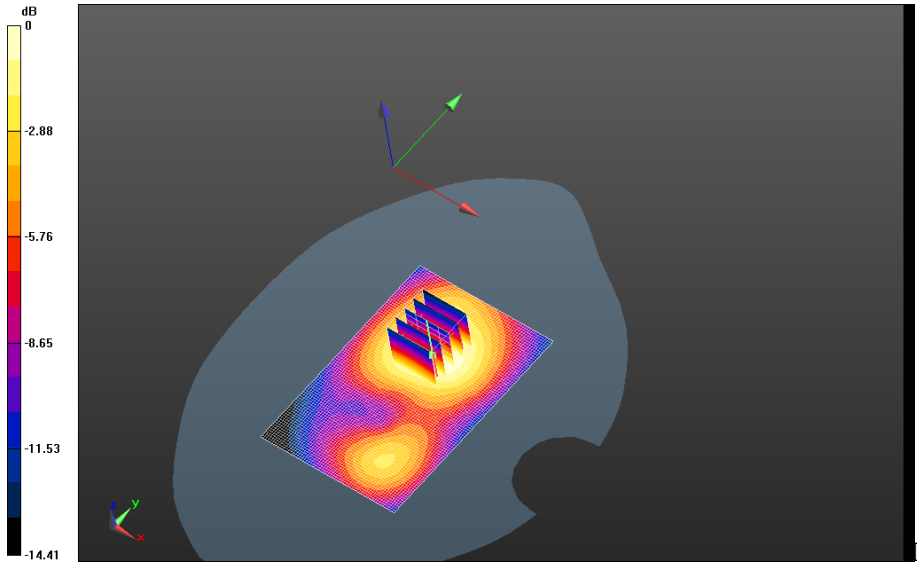
Author Data  
**Andrew Becker**

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 = 0.472 W/kg = -3.26 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: Body Worn MSL - UMTS Band II**

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.522$  S/m;  $\epsilon_r = 50.802$ ;  $\rho = 1.000$  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)

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

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

Maximum value of SAR (interpolated) = 0.553 W/kg

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


**UMTS\_II\_mid\_chan\_amb\_temp\_23.7C\_liq\_temp\_22.0C/Zoom Scan (21x21x36)/Cube 0:**

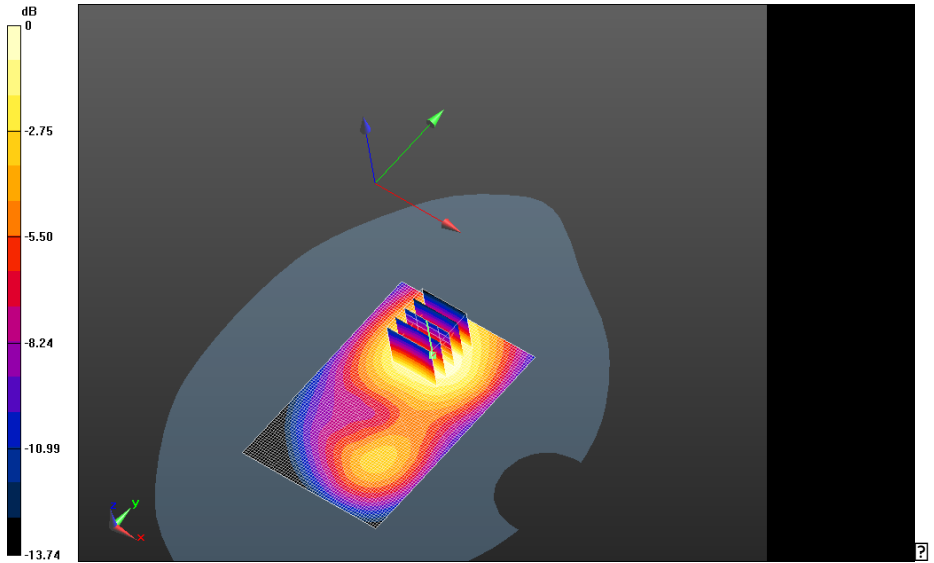
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.199 V/m; **Power Drift = 0.042 dB**

**Averaged SAR: SAR(1g) = 0.466 W/kg; SAR(10g) = 0.300 W/kg**


Maximum value of SAR (interpolated) = 0.703 W/kg

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0 dB = 0.547 W/kg = -2.62 dBW/kg



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

