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

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## LTE Band 17

Date: 5/12/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D3C**

### **Configuration: Body Worn MSL - LTE Band 17**

Communication System: LTE band 17 (0); Communication System Band: LTE 17; Frequency: 709 MHz

Medium Parameters used:  $f=709$  MHz;  $\sigma = 0.918$  S/m;  $\epsilon_r = 54.760$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

### **Body Worn MSL - LTE Band 17/15mm Device Back - LTE band**

**17\_chan23780\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_24.0C\_liq\_temp\_22.1C/Area Scan**

**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 4.631 V/m; **Power Drift = -0.013 dB**

**Fast SAR: SAR(1g) = 0.0755 W/kg; SAR(10g) = 0.0509 W/kg**

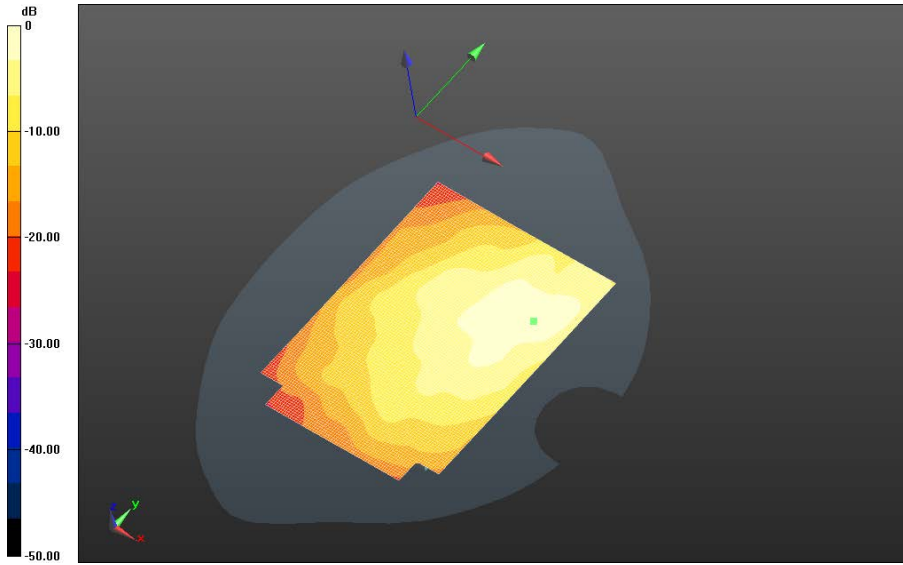
Maximum value of SAR (interpolated) = 0.0808 W/kg

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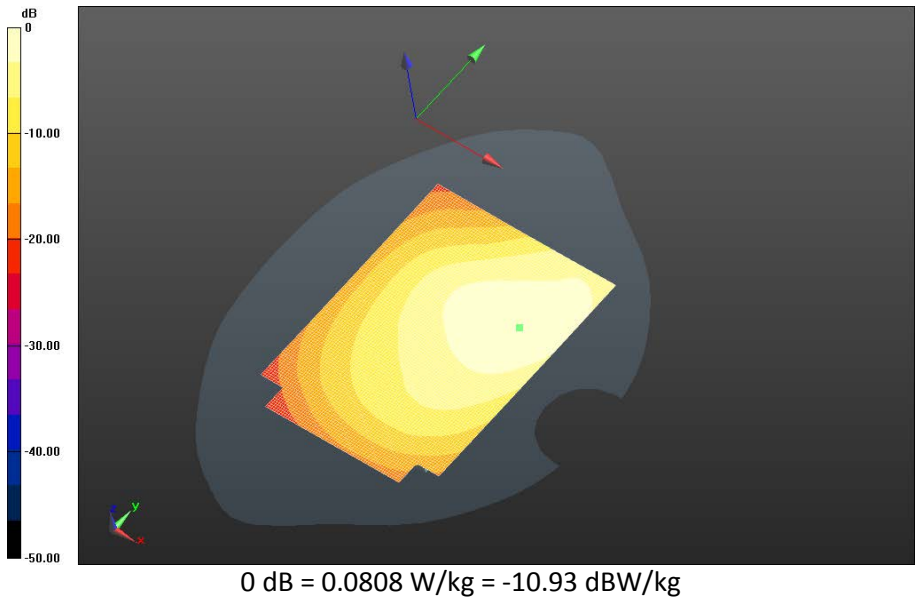



0 dB = 0.0808 W/kg = -10.93 dBW/kg

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**Body Worn MSL - LTE Band 17/15mm Device Back - LTE band  
17\_chan23790\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.7C\_liq\_temp\_22.0C/Area Scan  
(121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 6.484 V/m; Power Drift = 0.00155 dB**

**Fast SAR: SAR(1g) = 0.0938 W/kg; SAR(10g) = 0.0647 W/kg  
Maximum value of SAR (interpolated) = 0.0973 W/kg**



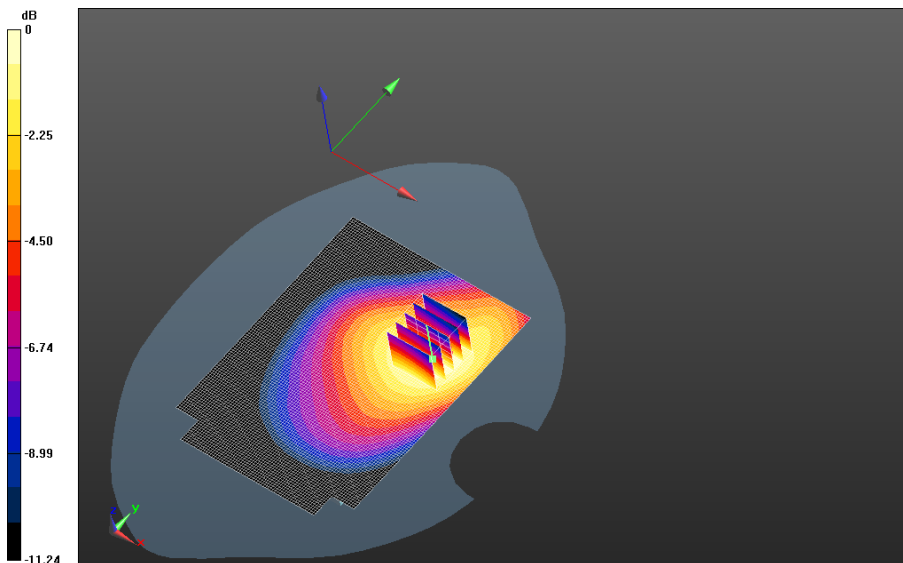
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**Body Worn MSL - LTE Band 17/15mm Device Back - LTE band  
17\_chan23800\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_24.2C\_liq\_temp\_22.2C/Area Scan  
(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 6.679 V/m; **Power Drift = -0.036 dB**


**Fast SAR: SAR(1g) = 0.0980 W/kg; SAR(10g) = 0.0676 W/kg**  
Maximum value of SAR (interpolated) = 0.102 W/kg

**Body Worn MSL - LTE Band 17/15mm Device Back - LTE band  
17\_chan23800\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_24.2C\_liq\_temp\_22.2C/Zoom Scan  
(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 6.679 V/m; **Power Drift = -0.036 dB**

**Averaged SAR: SAR(1g) = 0.0985 W/kg; SAR(10g) = 0.0684 W/kg**  
Maximum value of SAR (interpolated) = 0.133 W/kg

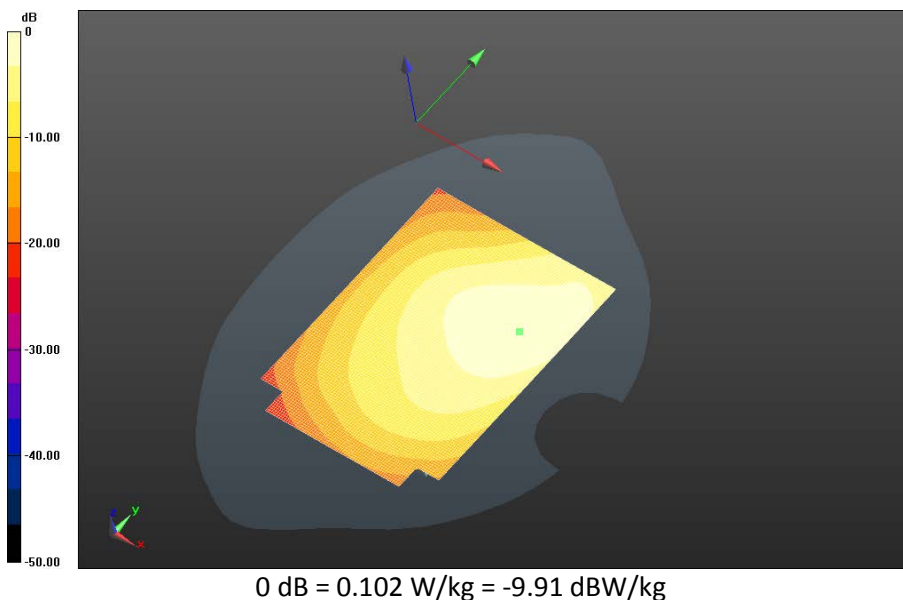



0 dB = 0.0973 W/kg = -10.12 dBW/kg

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**Body Worn MSL - LTE Band 17/15mm Device Back - LTE band 17\_chan23780\_10MHz\_BW\_RB25\_Offset\_High\_amb\_temp\_24.0C\_liq\_temp\_22.0C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 5.757 V/m; **Power Drift = -0.036 dB**

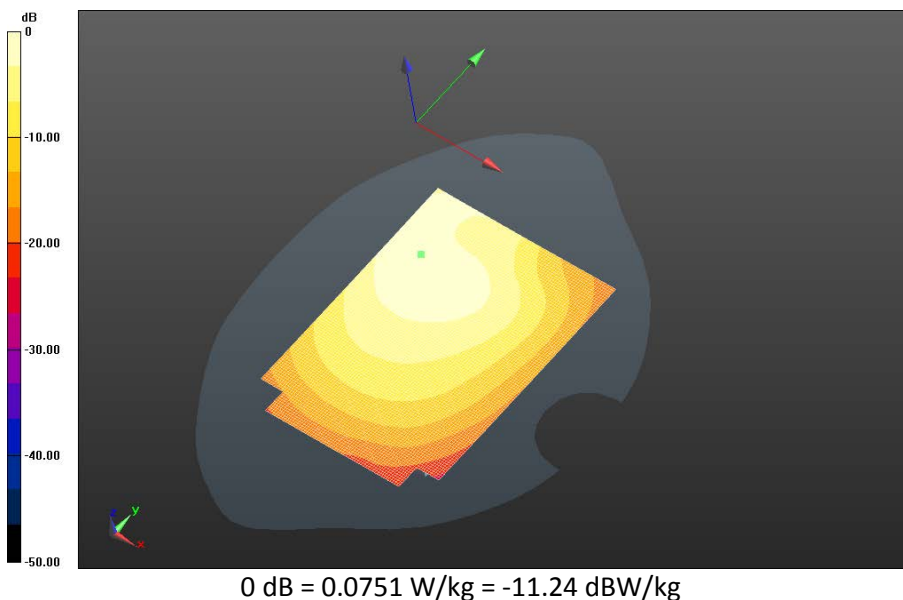
**Fast SAR: SAR(1g) = 0.0724 W/kg; SAR(10g) = 0.0500 W/kg**  
Maximum value of SAR (interpolated) = 0.0751 W/kg




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**Body Worn MSL - LTE Band 17/15mm Device Front - LTE band  
17\_chan23800\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_24.0C\_liq\_temp\_22.1C/Area Scan  
(121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 5.881 V/m; Power Drift = 0.025 dB**

**Fast SAR: SAR(1g) = 0.0899 W/kg; SAR(10g) = 0.0618 W/kg  
Maximum value of SAR (interpolated) = 0.0945 W/kg**



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## LTE Band 13

Date: 5/9/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FF3D3C**

### Configuration: Body Worn MSL - LTE Band 13

Communication System: LTE band 13 (0); Communication System Band: LTE band 13; Frequency: 782 MHz

Medium Parameters used:  $f=782$  MHz;  $\sigma = 0.986$  S/m;  $\epsilon_r = 54.018$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

#### Body Worn MSL - LTE Band 13/15mm Device Back - LTE band

**13\_chan23230\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_22.0C/Area Scan**

**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 14.833 V/m; **Power Drift = -0.012 dB**

**Fast SAR: SAR(1g) = 0.352 W/kg; SAR(10g) = 0.244 W/kg**

Maximum value of SAR (interpolated) = 0.375 W/kg

#### Body Worn MSL - LTE Band 13/15mm Device Back - LTE band

**13\_chan23230\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_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 = 14.833 V/m; **Power Drift = -0.012 dB**

**Averaged SAR: SAR(1g) = 0.382 W/kg; SAR(10g) = 0.259 W/kg**

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

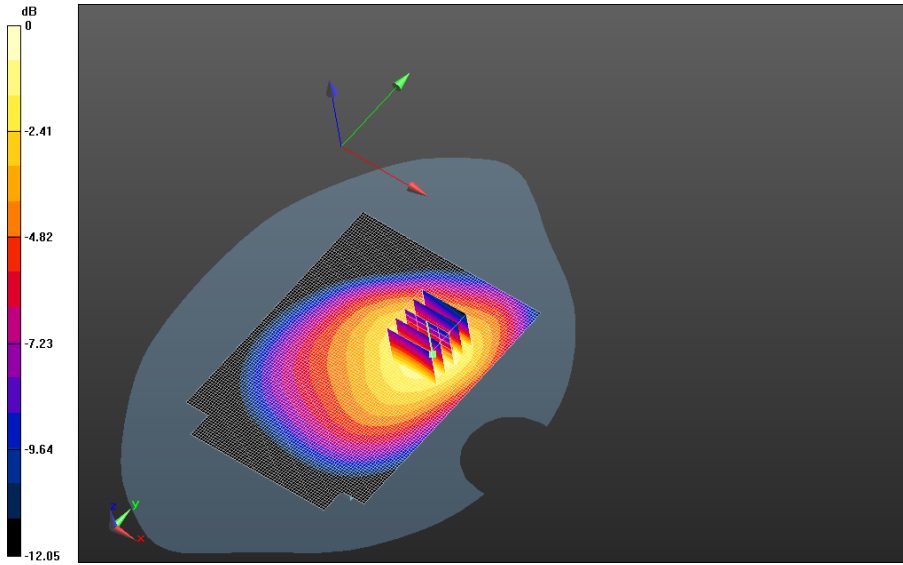


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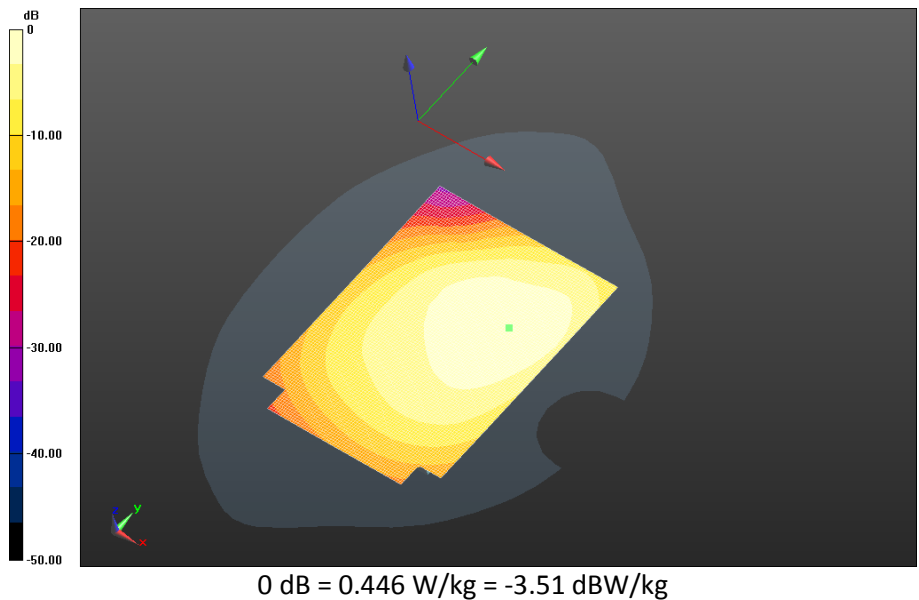



0 dB = 0.446 W/kg = -3.51 dBW/kg

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**Body Worn MSL - LTE Band 13/15mm Device Back - LTE band 13\_chan23230\_10MHz\_BW\_RB25\_Offset\_High\_amb\_temp\_23.4C\_liq\_temp\_22.0C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 13.013 V/m; **Power Drift = -0.011 dB**

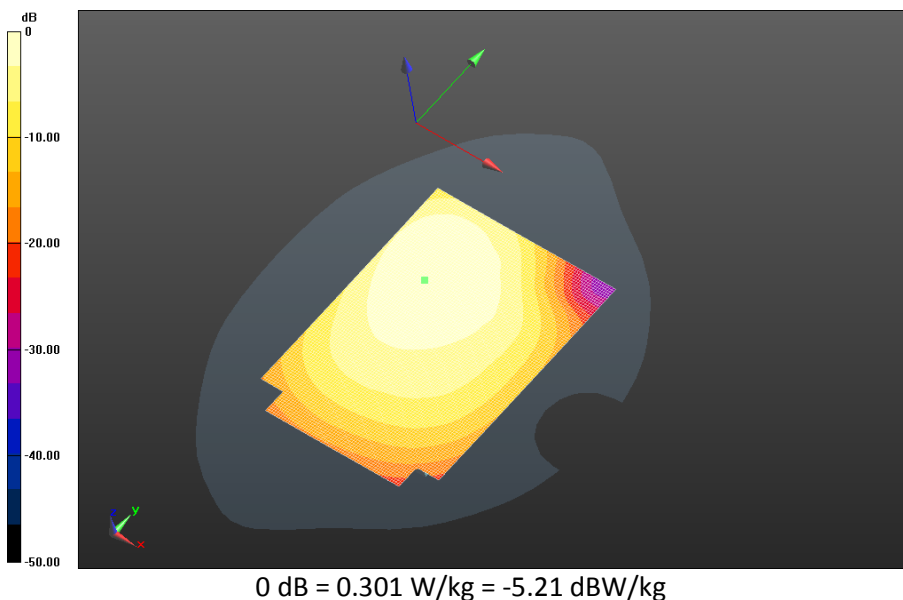
**Fast SAR: SAR(1g) = 0.283 W/kg; SAR(10g) = 0.196 W/kg**  
Maximum value of SAR (interpolated) = 0.301 W/kg




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**Body Worn MSL - LTE Band 13/15mm Device Front - LTE band 13\_chan23230\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.2C\_liq\_temp\_21.8C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 13.911 V/m; **Power Drift = 0.042 dB**

**Fast SAR: SAR(1g) = 0.328 W/kg; SAR(10g) = 0.228 W/kg**  
Maximum value of SAR (interpolated) = 0.350 W/kg



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## LTE Band 5

Date: 5/2/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D3C**

### Configuration: Body Worn MSL - LTE Band 5

Communication System: LTE 5 (0); Communication System Band: LTE 5; Frequency: 829 MHz

Medium Parameters used:  $f=829$  MHz;  $\sigma = 0.975$  S/m;  $\epsilon_r = 53.524$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

### Body Worn MSL - LTE Band 5/15mm Device Back - LTE band

**5\_chan20450\_10MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_24.6C\_liq\_temp\_22.1C/Area Scan**

**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 15.918 V/m; **Power Drift = -0.00942 dB**

**Fast SAR: SAR(1g) = 0.359 W/kg; SAR(10g) = 0.250 W/kg**

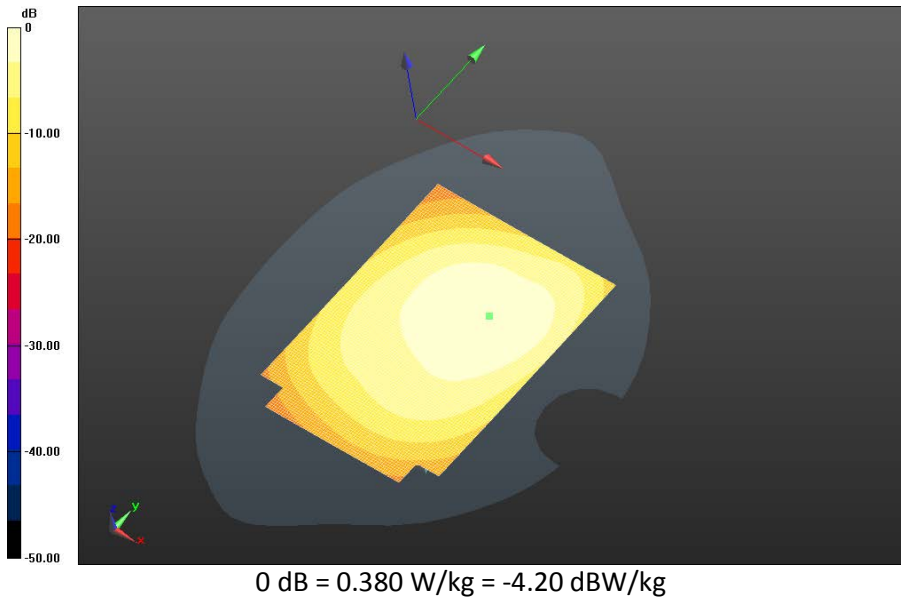
Maximum value of SAR (interpolated) = 0.380 W/kg

Author Data  
**Andrew Becker**

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**Body Worn MSL - LTE Band 5/15mm Device Back - LTE band  
5\_chan20525\_10MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_24.5C\_liq\_temp\_22.2C/Area Scan  
(121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 15.811 V/m; Power Drift = -0.00528 dB**

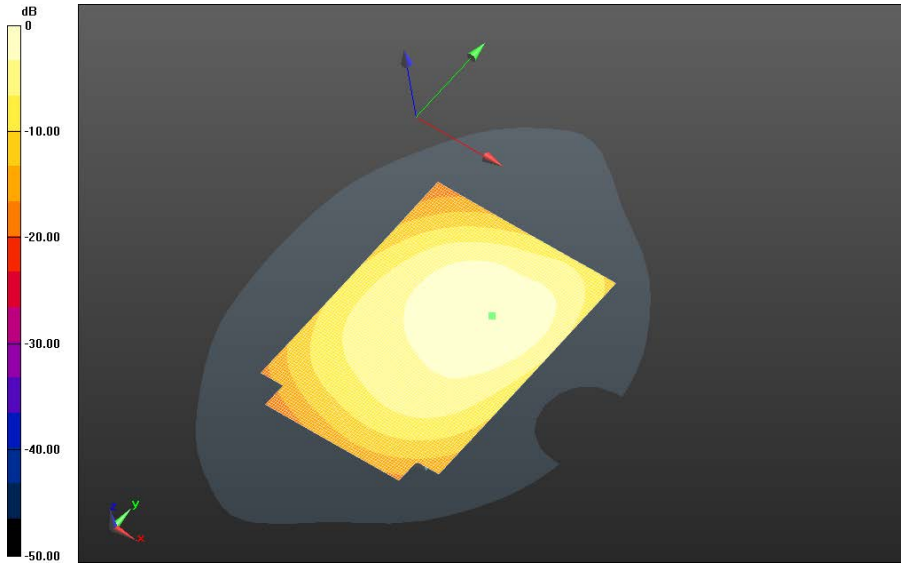
**Fast SAR: SAR(1g) = 0.358 W/kg; SAR(10g) = 0.249 W/kg  
Maximum value of SAR (interpolated) = 0.380 W/kg**

Author Data  
**Andrew Becker**


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0 dB = 0.380 W/kg = -4.20 dBW/kg

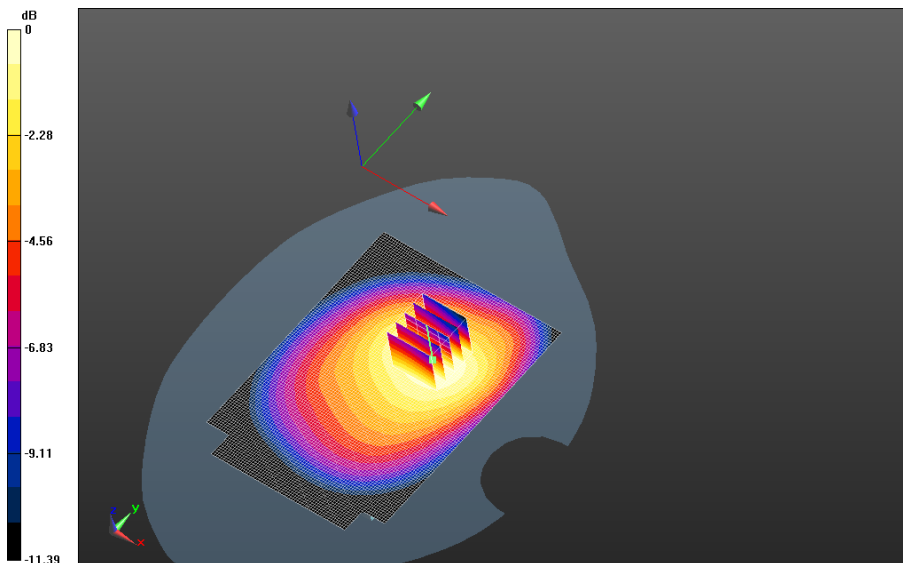
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**Body Worn MSL - LTE Band 5/15mm Device Back - LTE band**  
**5\_chan20600\_10MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_24.2C\_liq\_temp\_22.2C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 15.970 V/m; **Power Drift = -0.016 dB**


**Fast SAR: SAR(1g) = 0.361 W/kg; SAR(10g) = 0.252 W/kg**  
 Maximum value of SAR (interpolated) = 0.383 W/kg

**Body Worn MSL - LTE Band 5/15mm Device Back - LTE band**  
**5\_chan20600\_10MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_24.2C\_liq\_temp\_22.2C/Zoom Scan**  
**(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 15.970 V/m; **Power Drift = -0.016 dB**

**Averaged SAR: SAR(1g) = 0.364 W/kg; SAR(10g) = 0.262 W/kg**  
 Maximum value of SAR (interpolated) = 0.493 W/kg

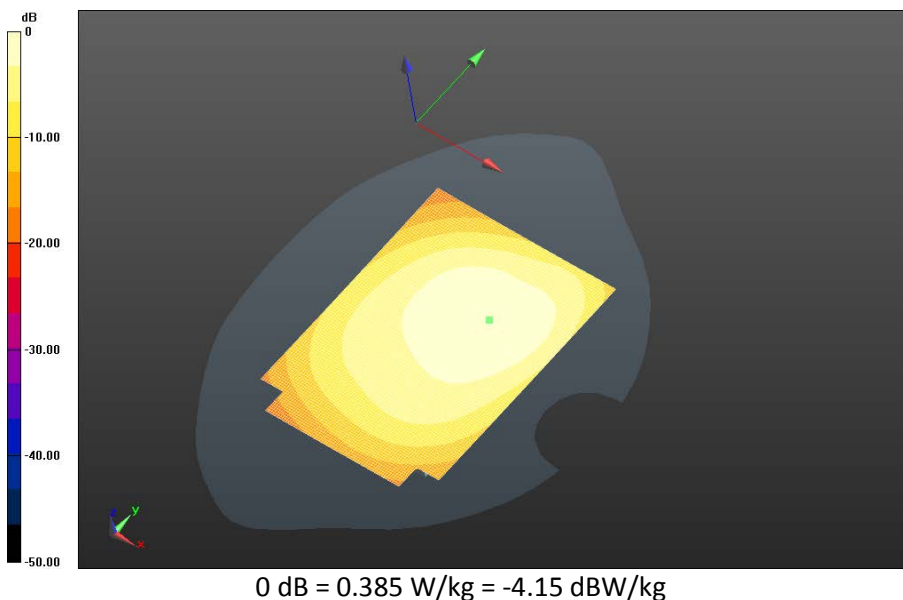


0 dB = 0.380 W/kg = -4.20 dBW/kg


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**Body Worn MSL - LTE Band 5/15mm Device Back - LTE band  
5\_chan20450\_10MHz\_BW\_RB25\_Offset\_High\_amb\_temp\_24.0C\_liq\_temp\_22.0C/Area Scan  
(121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 14.275 V/m; Power Drift = -0.00306 dB**

**Fast SAR: SAR(1g) = 0.293 W/kg; SAR(10g) = 0.204 W/kg  
Maximum value of SAR (interpolated) = 0.310 W/kg**

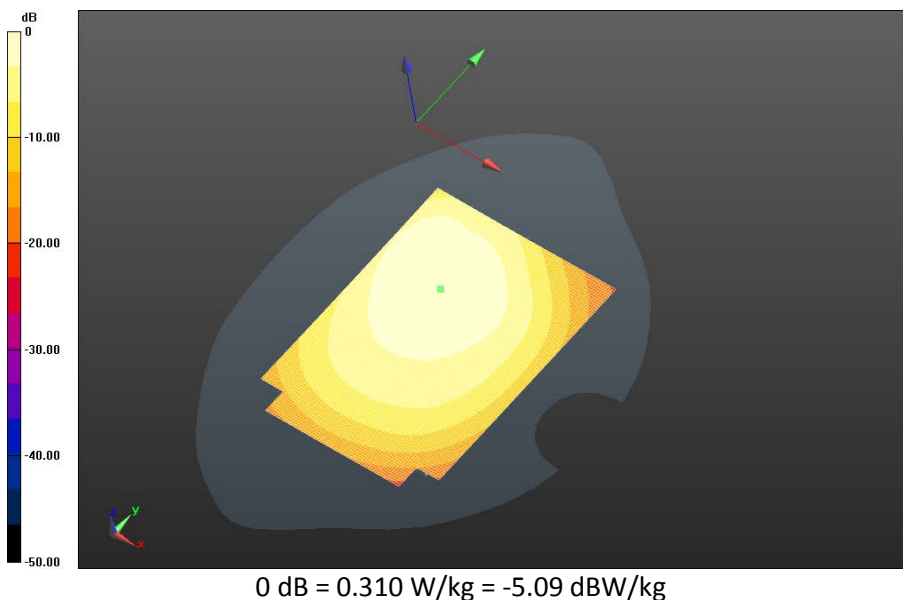





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**Body Worn MSL - LTE Band 5/15mm Device Front - LTE band**  
**5\_chan20450\_10MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_24.0C\_liq\_temp\_22.1C/Area Scan**  
**(121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm**  
 Reference Value = 14.260 V/m; **Power Drift = 0.019 dB**

**Fast SAR: SAR(1g) = 0.302 W/kg; SAR(10g) = 0.209 W/kg**  
 Maximum value of SAR (interpolated) = 0.322 W/kg



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## EDGE/GPRS 850

Date: 5/5/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FF3D40**

### **Configuration: Body Worn MSL - GPRS 850**

Communication System: GSM 850 (0); Communication System Band: GSM 850; Frequency: 836.8 MHz

Medium Parameters used:  $f=836.8$  MHz;  $\sigma = 0.994$  S/m;  $\epsilon_r = 53.843$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

### **Body Worn MSL - GPRS 850/15mm Device Back - GSM 850\_1-**

**Slot\_chan190\_amb\_temp\_23.6C\_liq\_temp\_22.0C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm

Reference Value = 15.856 V/m; **Power Drift = -0.00101 dB**

**Fast SAR: SAR(1g) = 0.363 W/kg; SAR(10g) = 0.252 W/kg**

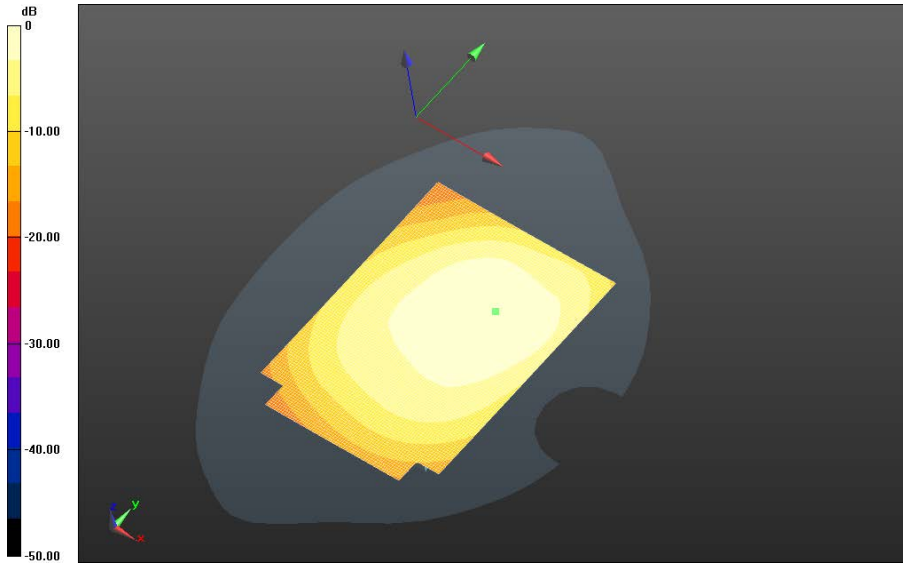
Maximum value of SAR (interpolated) = 0.385 W/kg

Author Data  
**Andrew Becker**


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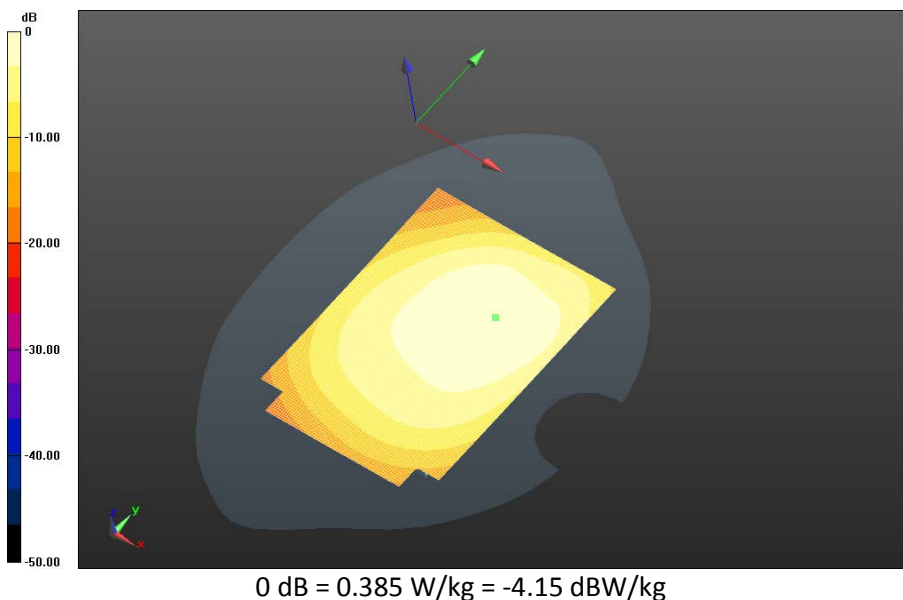



0 dB = 0.385 W/kg = -4.15 dBW/kg

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**Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850\_2-Slot\_chan190\_amb\_temp\_23.7C\_liq\_temp\_22.1C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 15.646 V/m; **Power Drift = -0.016 dB**

**Fast SAR: SAR(1g) = 0.349 W/kg; SAR(10g) = 0.242 W/kg**  
Maximum value of SAR (interpolated) = 0.370 W/kg



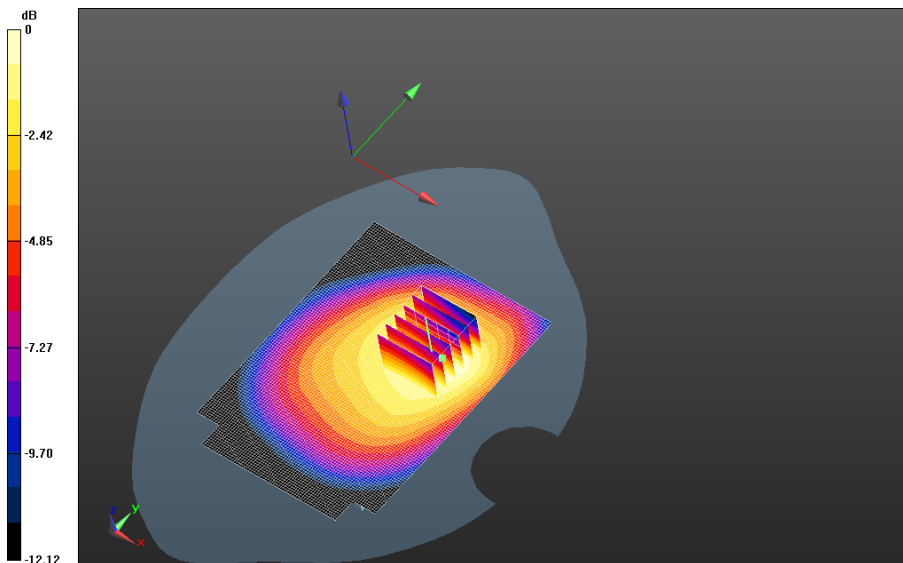
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**Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850\_3-Slot\_chan128\_amb\_temp\_24.0C\_liq\_temp\_22.1C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 17.890 V/m; **Power Drift = 0.00188 dB**


**Fast SAR: SAR(1g) = 0.458 W/kg; SAR(10g) = 0.317 W/kg**  
Maximum value of SAR (interpolated) = 0.490 W/kg

**Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850\_3-Slot\_chan128\_amb\_temp\_24.0C\_liq\_temp\_22.1C/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 17.890 V/m; **Power Drift = 0.00188 dB**

**Averaged SAR: SAR(1g) = 0.453 W/kg; SAR(10g) = 0.329 W/kg**  
Maximum value of SAR (interpolated) = 0.618 W/kg

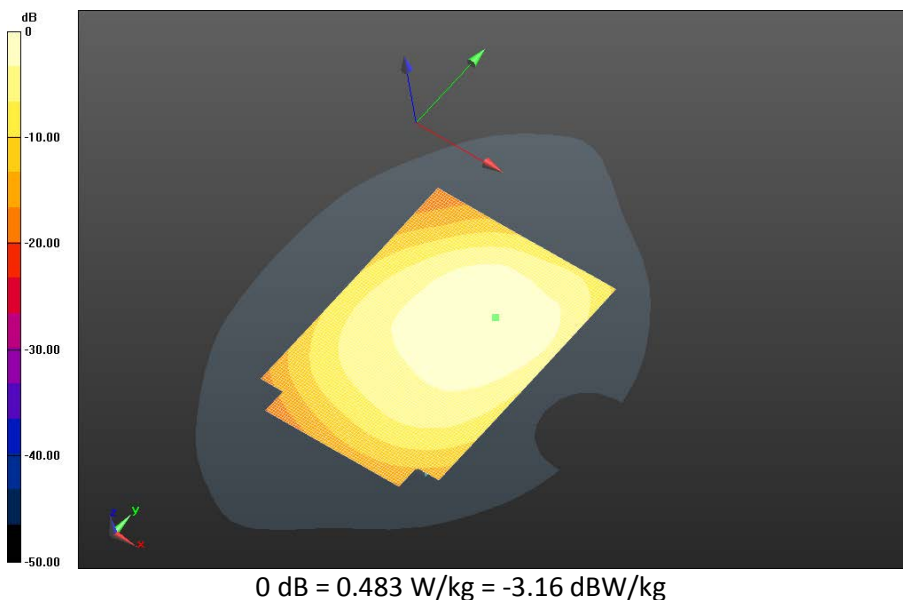



0 dB = 0.370 W/kg = -4.32 dBW/kg

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**Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850\_3-  
Slot\_chan190\_amb\_temp\_23.8C\_liq\_temp\_22.2C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 16.366 V/m; **Power Drift = 0.080 dB**

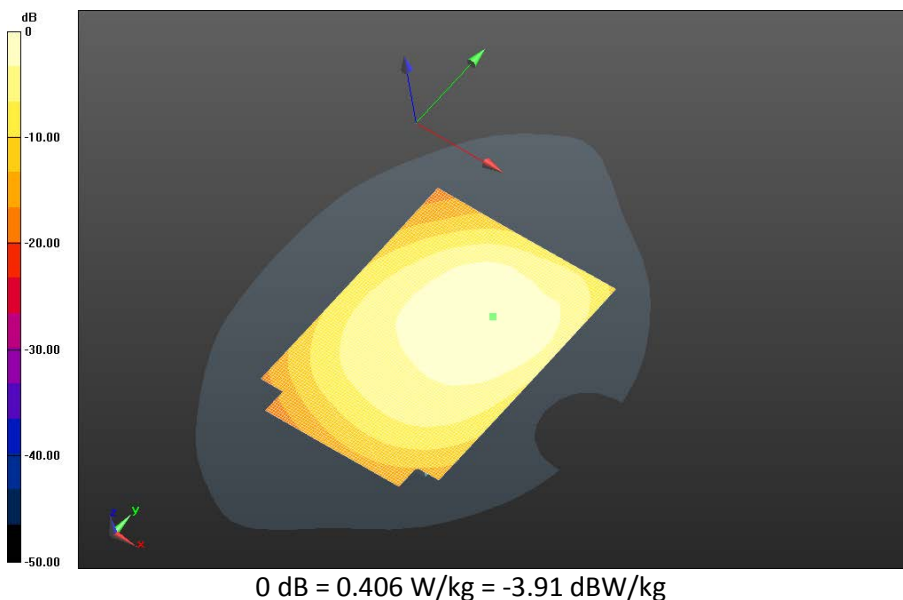
**Fast SAR: SAR(1g) = 0.382 W/kg; SAR(10g) = 0.265 W/kg**  
Maximum value of SAR (interpolated) = 0.406 W/kg




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**Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850\_3-  
Slot\_chan251\_amb\_temp\_23.8C\_liq\_temp\_22.0C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 14.739 V/m; **Power Drift = -0.00572 dB**

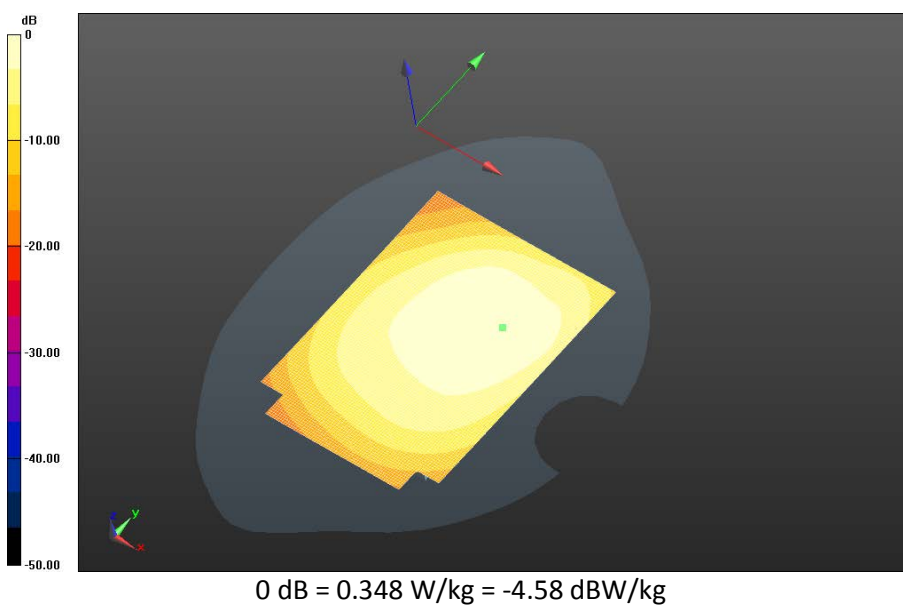
**Fast SAR: SAR(1g) = 0.328 W/kg; SAR(10g) = 0.227 W/kg**  
Maximum value of SAR (interpolated) = 0.348 W/kg




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**Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850\_4-Slot\_chan190\_amb\_temp\_23.8C\_liq\_temp\_22.2C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 14.849 V/m; **Power Drift = 0.036 dB**

**Fast SAR: SAR(1g) = 0.314 W/kg; SAR(10g) = 0.218 W/kg**  
Maximum value of SAR (interpolated) = 0.333 W/kg

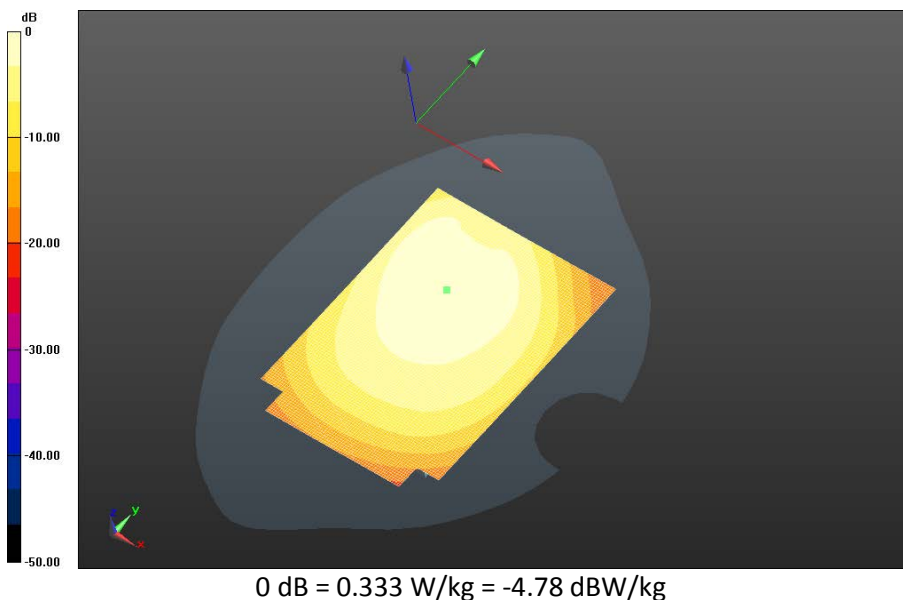





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**Body Worn MSL - GPRS 850/15mm Device Front - GPRS 850\_3-Slot\_chan190\_amb\_temp\_23.8C\_liq\_temp\_22.2C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 15.606 V/m; **Power Drift = 0.019 dB**

**Fast SAR: SAR(1g) = 0.352 W/kg; SAR(10g) = 0.242 W/kg**  
Maximum value of SAR (interpolated) = 0.377 W/kg



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## EDGE/GPRS 850 Rev 2

Date: 6/9/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF46F9**

### **Configuration: Body Worn MSL - GPRS 850 Rev 2**

Communication System: GSM 850 (0); Communication System Band: GSM 850; Frequency: 836.8 MHz

Medium Parameters used:  $f=836.8$  MHz;  $\sigma = 0.976$  S/m;  $\epsilon_r = 53.598$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

### **Body Worn MSL - GPRS 850 Rev 2/15mm Device Back - GSM 850\_1-**

**Slot\_chan190\_amb\_temp\_23.6C\_liq\_temp\_22.0C/Area Scan (121x171x1):** Interpolated grid:

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

Reference Value = 15.472 V/m; **Power Drift = 0.028 dB**

**Fast SAR: SAR(1g) = 0.394 W/kg; SAR(10g) = 0.273 W/kg**

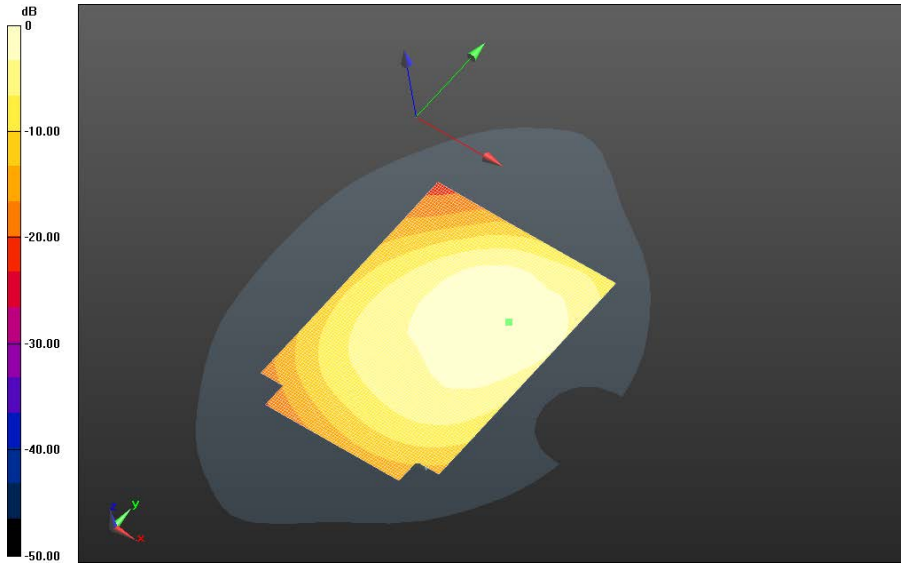
Maximum value of SAR (interpolated) = 0.420 W/kg

Author Data  
**Andrew Becker**


Dates of Test  
**April 15 – June 13, 2014**

Test Report No  
**RTS-6057-1405-01**

FCC ID:  
**L6ARGY180LW**

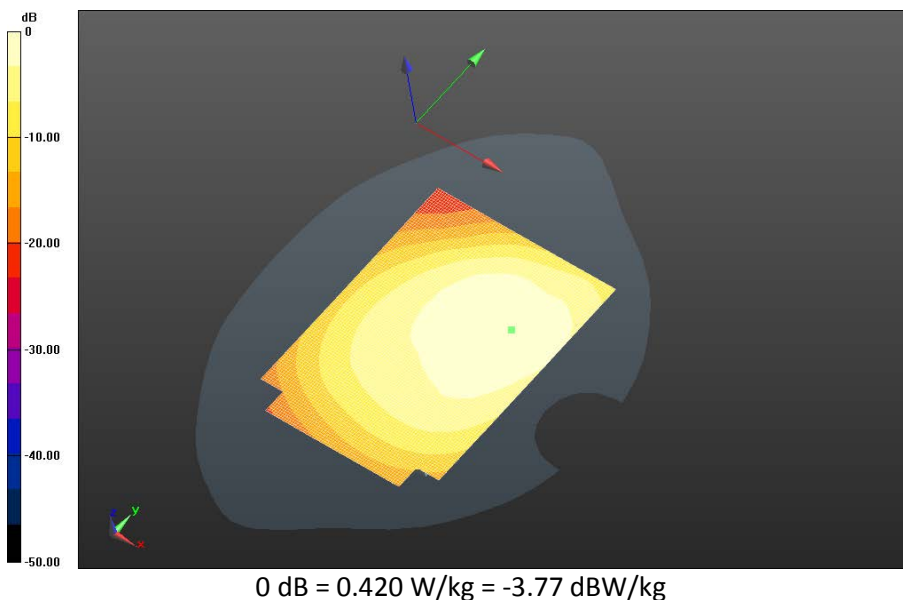



0 dB = 0.420 W/kg = -3.77 dBW/kg

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**Body Worn MSL - GPRS 850 Rev 2/15mm Device Back - GPRS 850\_2-Slot\_chan128\_amb\_temp\_23.7C\_liq\_temp\_22.1C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 17.068 V/m; **Power Drift = -0.0042 dB**

**Fast SAR: SAR(1g) = 0.456 W/kg; SAR(10g) = 0.318 W/kg**  
Maximum value of SAR (interpolated) = 0.486 W/kg



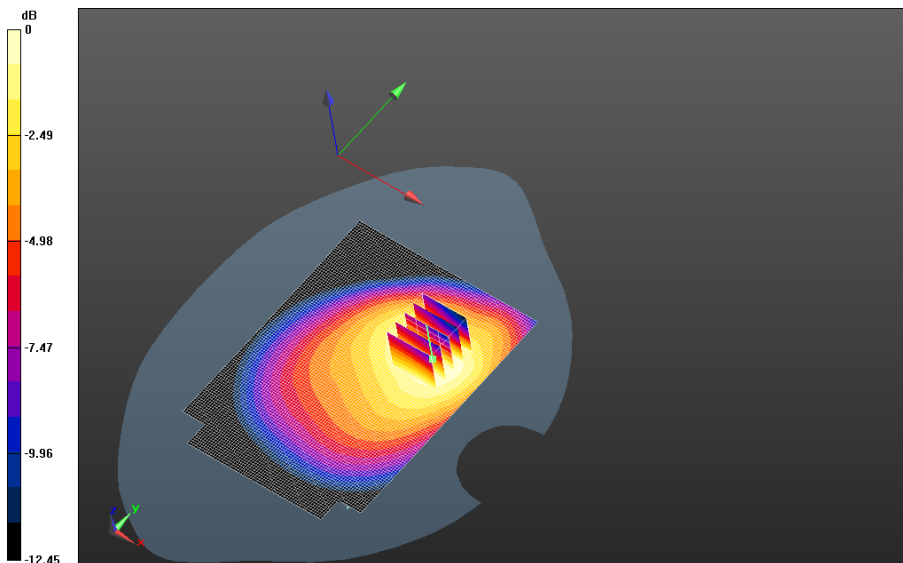
	Document <b>Appendix C1 for the BlackBerry® Smartphone Model RGY181LW</b> <b>SAR Report</b>			Page <b>29(103)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>April 15 – June 13, 2014</b>	Test Report No <b>RTS-6057-1405-01</b>	FCC ID: <b>L6ARGY180LW</b>

**Body Worn MSL - GPRS 850 Rev 2/15mm Device Back - GPRS 850\_3-Slot\_chan128\_amb\_temp\_24.0C\_liq\_temp\_22.1C/Area Scan (121x171x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 16.736 V/m; **Power Drift = 0.039 dB**


**Fast SAR: SAR(1g) = 0.504 W/kg; SAR(10g) = 0.350 W/kg**  
 Maximum value of SAR (interpolated) = 0.536 W/kg

**Body Worn MSL - GPRS 850 Rev 2/15mm Device Back - GPRS 850\_3-Slot\_chan128\_amb\_temp\_24.0C\_liq\_temp\_22.1C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 16.736 V/m; **Power Drift = 0.039 dB**

**Averaged SAR: SAR(1g) = 0.516 W/kg; SAR(10g) = 0.365 W/kg**  
 Maximum value of SAR (interpolated) = 0.718 W/kg

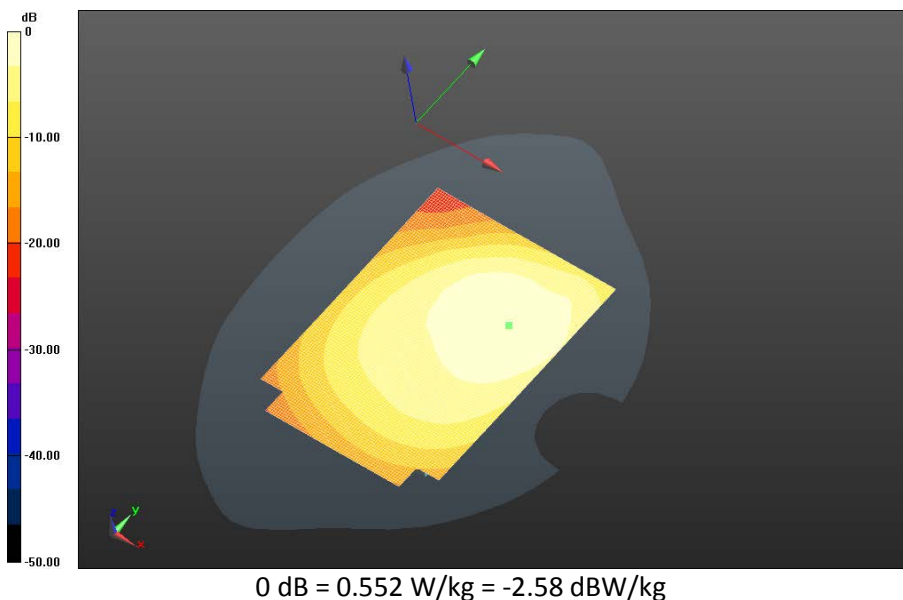



0 dB = 0.486 W/kg = -3.13 dBW/kg

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**Body Worn MSL - GPRS 850 Rev 2/15mm Device Back - GPRS 850\_3-Slot\_chan190\_amb\_temp\_23.8C\_liq\_temp\_22.2C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 15.297 V/m; **Power Drift = -0.011 dB**

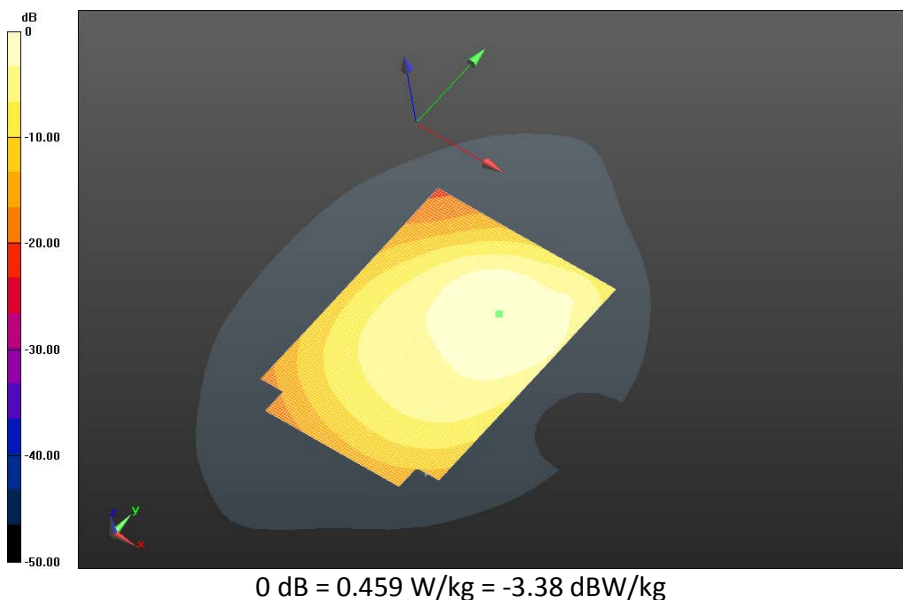
**Fast SAR: SAR(1g) = 0.431 W/kg; SAR(10g) = 0.297 W/kg**  
Maximum value of SAR (interpolated) = 0.459 W/kg




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**Body Worn MSL - GPRS 850 Rev 2/15mm Device Back - GPRS 850\_3-  
Slot\_chan251\_amb\_temp\_23.8C\_liq\_temp\_22.0C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 14.686 V/m; **Power Drift = -0.039 dB**

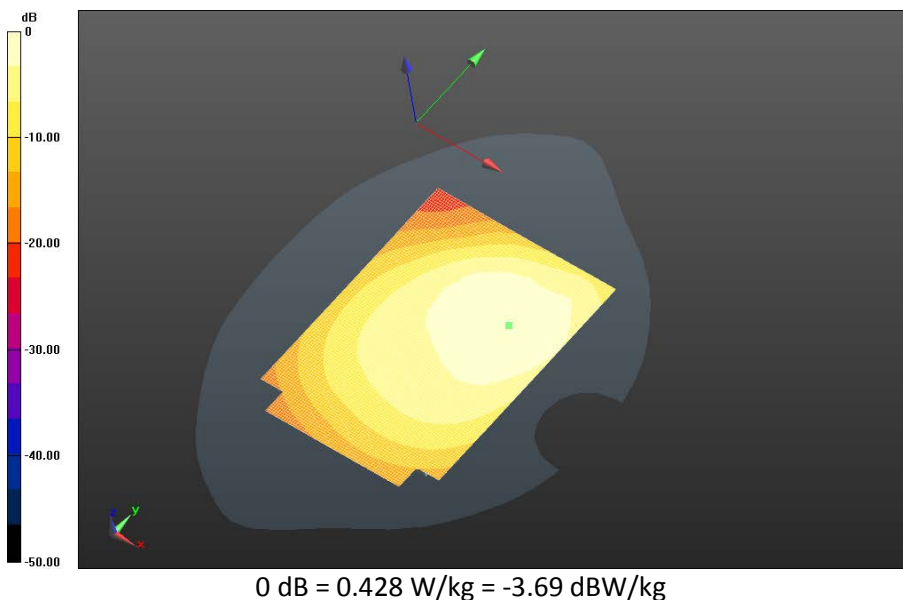
**Fast SAR: SAR(1g) = 0.402 W/kg; SAR(10g) = 0.276 W/kg**  
Maximum value of SAR (interpolated) = 0.428 W/kg




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**Body Worn MSL - GPRS 850 Rev 2/15mm Device Back - GPRS 850\_4-  
Slot\_chan128\_amb\_temp\_23.8C\_liq\_temp\_22.2C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 15.224 V/m; **Power Drift = -0.011 dB**

**Fast SAR: SAR(1g) = 0.417 W/kg; SAR(10g) = 0.289 W/kg**  
Maximum value of SAR (interpolated) = 0.444 W/kg





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## UMTS Band V

Date: 5/2/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FF3D40**

### **Configuration: Body Worn MSL - UMTS V**

Communication System: WCDMA FDD V (0); Communication System Band: UMTS band V;

Frequency: 826.4 MHz

Medium Parameters used:  $f=826.4$  MHz;  $\sigma = 0.972$  S/m;  $\epsilon_r = 53.561$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

### **Body Worn MSL - UMTS V/15mm Device Back - UMTS**

**V\_chan4132\_amb\_temp\_23.8C\_liq\_temp\_22.2C/Area Scan (121x171x1):** Interpolated grid:

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

Reference Value = 19.477 V/m; **Power Drift = -0.023 dB**

**Fast SAR: SAR(1g) = 0.519 W/kg; SAR(10g) = 0.362 W/kg**

Maximum value of SAR (interpolated) = 0.551 W/kg

### **Body Worn MSL - UMTS V/15mm Device Back - UMTS**

**V\_chan4132\_amb\_temp\_23.8C\_liq\_temp\_22.2C/Zoom Scan (26x26x36)/Cube 0:** Interpolated

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

Reference Value = 19.477 V/m; **Power Drift = -0.023 dB**

**Averaged SAR: SAR(1g) = 0.523 W/kg; SAR(10g) = 0.375 W/kg**

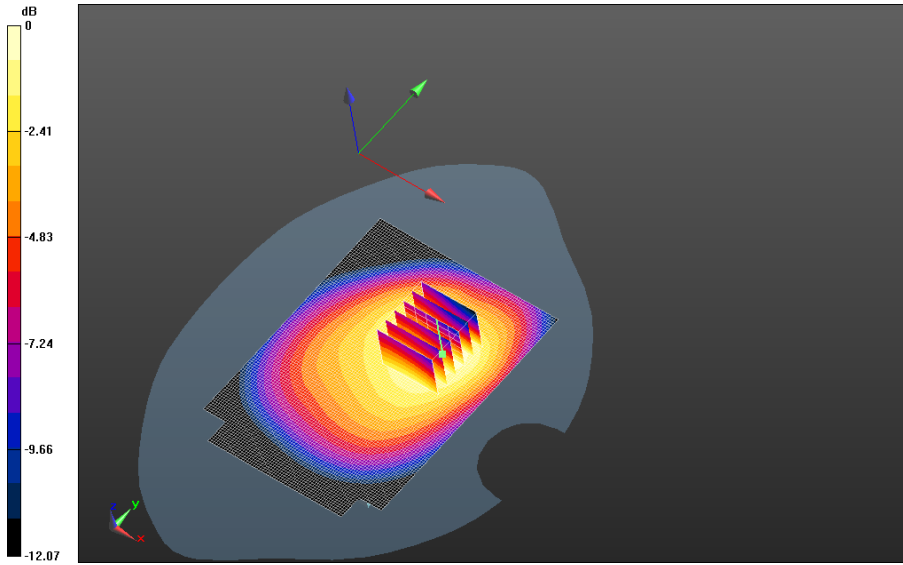
Maximum value of SAR (interpolated) = 0.721 W/kg

Author Data  
**Andrew Becker**


Dates of Test  
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0 dB = 0.556 W/kg = -2.55 dBW/kg

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**Body Worn MSL - UMTS V/15mm Device Back - UMTS**

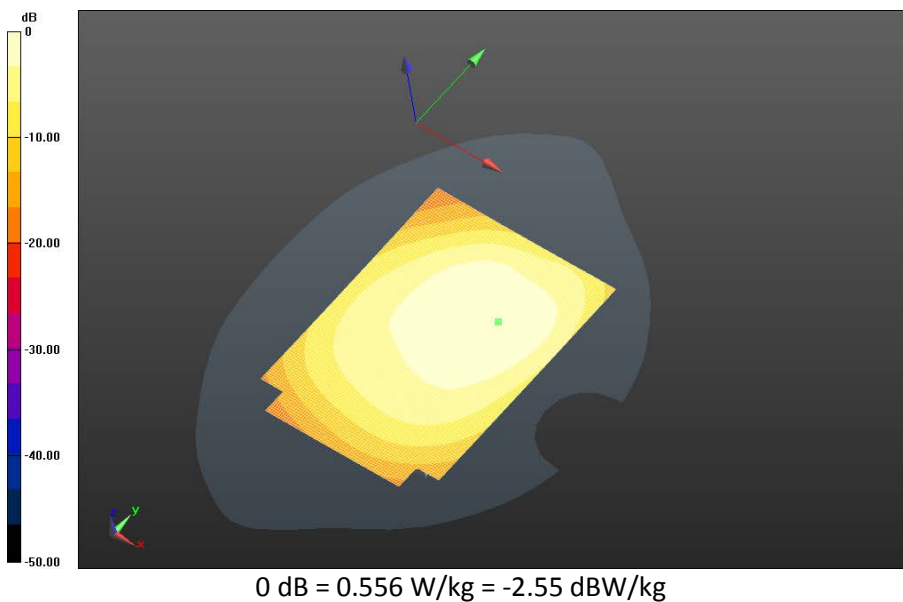
**V\_chan4182\_amb\_temp\_23.7C\_liq\_temp\_22.1C/Area Scan (121x171x1):** Interpolated grid:


dx=1.500 mm, dy=1.500 mm

Reference Value = 19.942 V/m; **Power Drift = -0.068 dB**

**Fast SAR: SAR(1g) = 0.513 W/kg; SAR(10g) = 0.357 W/kg**

Maximum value of SAR (interpolated) = 0.545 W/kg



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**Body Worn MSL - UMTS V/15mm Device Back - UMTS**

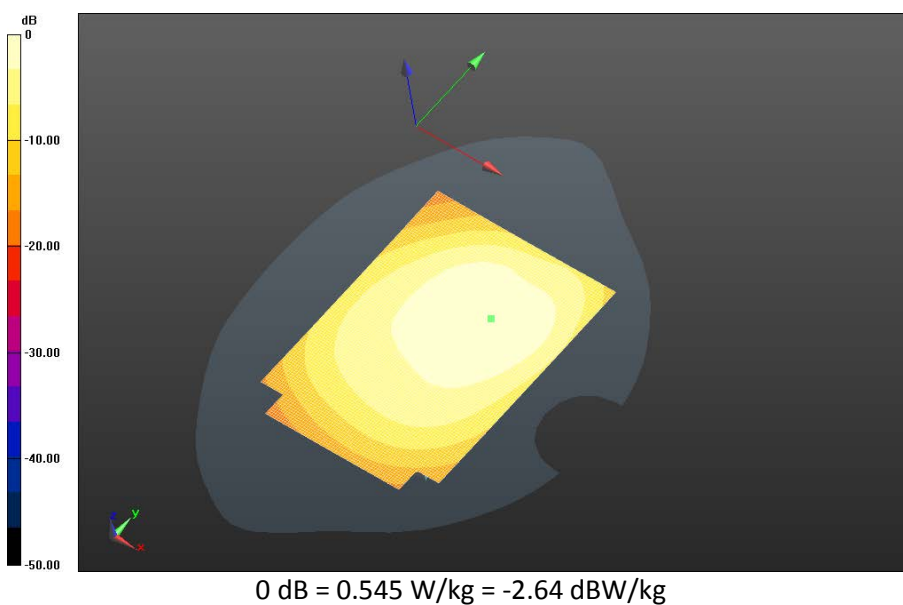
**V\_chan4233\_amb\_temp\_23.8C\_liq\_temp\_22.2C/Area Scan (121x171x1):** Interpolated grid:


dx=1.500 mm, dy=1.500 mm

Reference Value = 18.000 V/m; **Power Drift = 0.00997 dB**

**Fast SAR: SAR(1g) = 0.466 W/kg; SAR(10g) = 0.323 W/kg**

Maximum value of SAR (interpolated) = 0.496 W/kg



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**Body Worn MSL - UMTS V/15mm Device Front - UMTS**

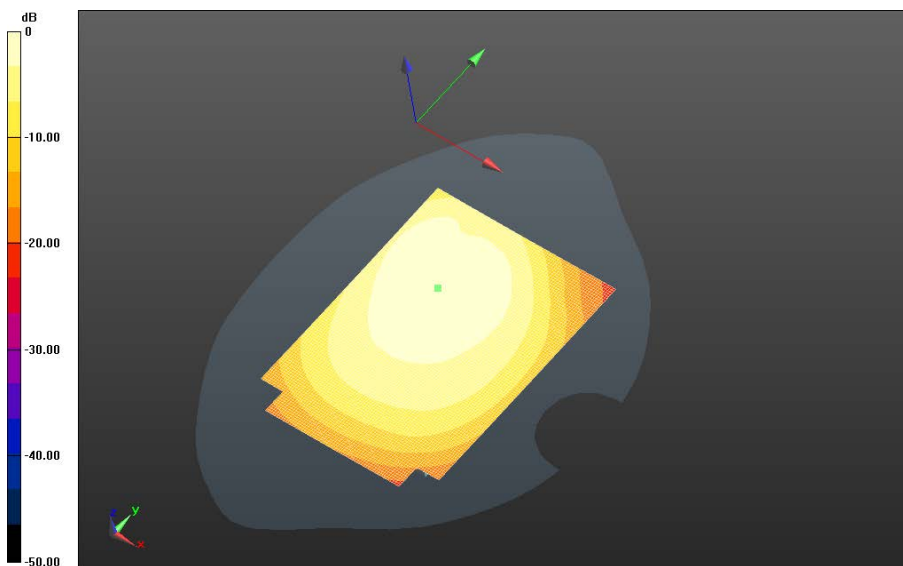
**V\_chan4182\_amb\_temp\_24.0C\_liq\_temp\_22.2C/Area Scan (121x171x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm


Reference Value = 17.805 V/m; **Power Drift = -0.00679 dB**

**Fast SAR: SAR(1g) = 0.465 W/kg; SAR(10g) = 0.322 W/kg**

Maximum value of SAR (interpolated) = 0.496 W/kg



0 dB = 0.496 W/kg = -3.05 dBW/kg

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## LTE Band 4

Date: 5/13/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FF3D40**

### **Configuration: Body Worn MSL - LTE band 4**

Communication System: LTE 4 (0); Communication System Band: LTE 4; Frequency: 1720 MHz

Medium Parameters used:  $f=1720$  MHz;  $\sigma = 1.499$  S/m;  $\epsilon_r = 51.474$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

### **Body Worn MSL - LTE band 4/15mm Device Back - LTE band**

**4\_chan20050\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.8C\_liq\_temp\_22.1C/Area Scan**

**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.153 V/m; **Power Drift = -0.017 dB**

**Fast SAR: SAR(1g) = 0.365 W/kg; SAR(10g) = 0.208 W/kg**

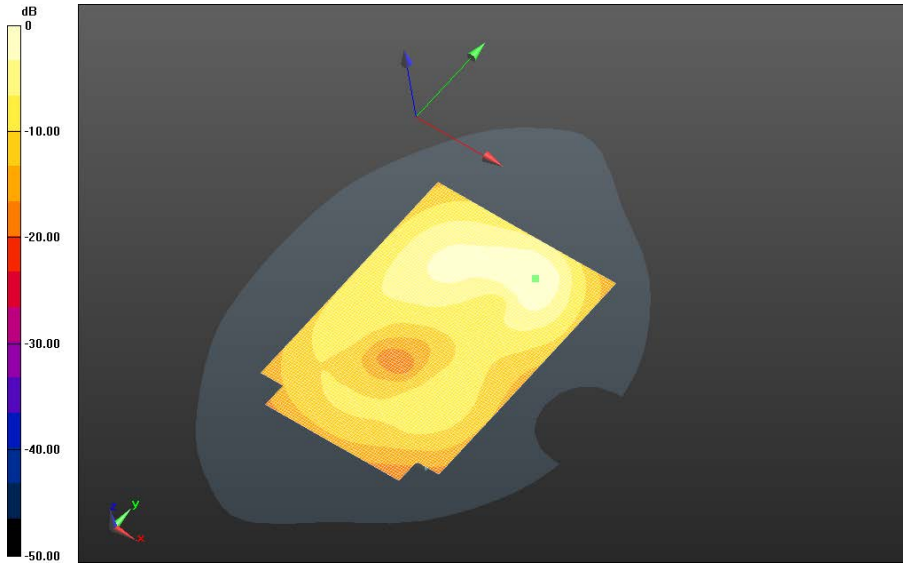
Maximum value of SAR (interpolated) = 0.425 W/kg


Author Data  
**Andrew Becker**

Dates of Test  
**April 15 – June 13, 2014**

Test Report No  
**RTS-6057-1405-01**

FCC ID:  
**L6ARGY180LW**



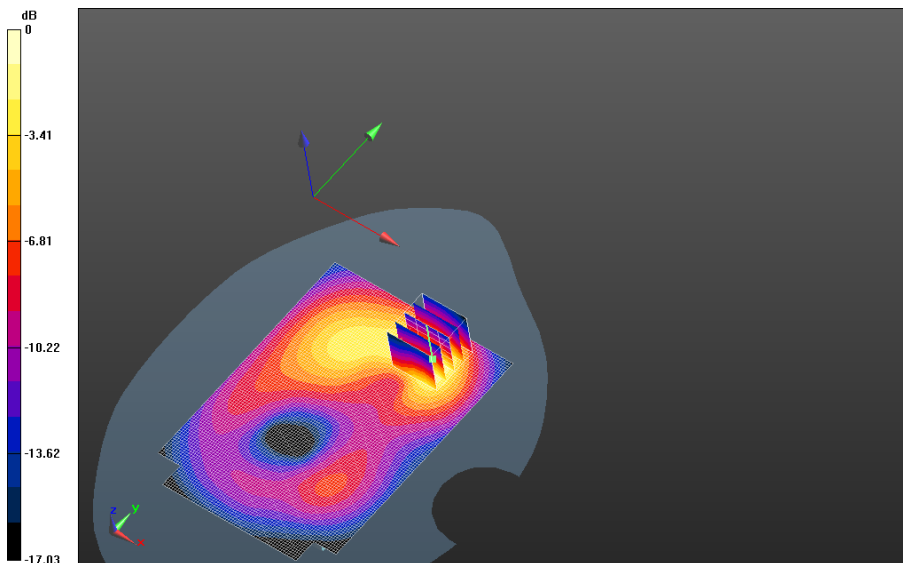
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**Body Worn MSL - LTE band 4/15mm Device Back - LTE band 4\_chan20175\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.8C\_liq\_temp\_22.1C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 5.291 V/m; **Power Drift = -0.116 dB**

**Fast SAR: SAR(1g) = 0.387 W/kg; SAR(10g) = 0.220 W/kg**  
Maximum value of SAR (interpolated) = 0.451 W/kg


**Body Worn MSL - LTE band 4/15mm Device Back - LTE band 4\_chan20175\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.8C\_liq\_temp\_22.1C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 5.291 V/m; **Power Drift = -0.116 dB**

**Averaged SAR: SAR(1g) = 0.415 W/kg; SAR(10g) = 0.230 W/kg**  
Maximum value of SAR (interpolated) = 0.647 W/kg



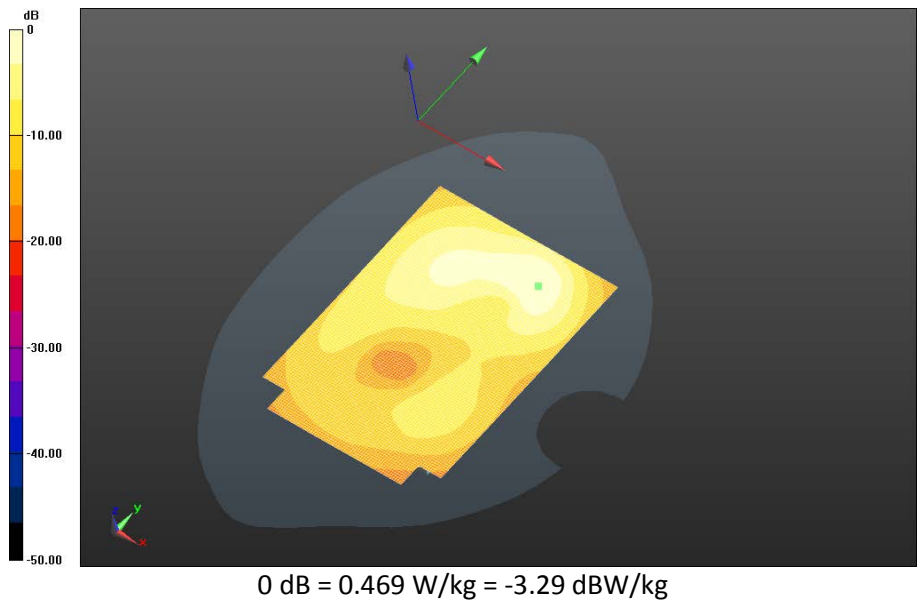
0 dB = 0.425 W/kg = -3.72 dBW/kg




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**Body Worn MSL - LTE band 4/15mm Device Back - LTE band 4\_chan20300\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.8C\_liq\_temp\_22.0C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 5.132 V/m; **Power Drift = -0.059 dB**

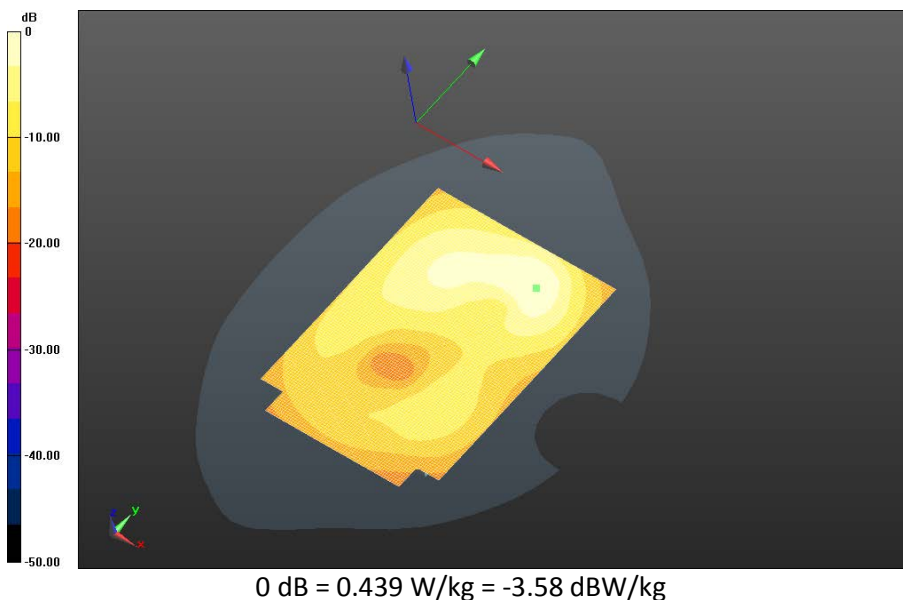
**Fast SAR: SAR(1g) = 0.373 W/kg; SAR(10g) = 0.211 W/kg**  
Maximum value of SAR (interpolated) = 0.439 W/kg




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**Body Worn MSL - LTE band 4/15mm Device Back - LTE band**  
**4\_chan20175\_20MHz\_BW\_RB50\_Offset\_Low\_amb\_temp\_23.8C\_liq\_temp\_22.0C/Area Scan**  
**(121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm**  
 Reference Value = 4.701 V/m; **Power Drift = -0.050 dB**

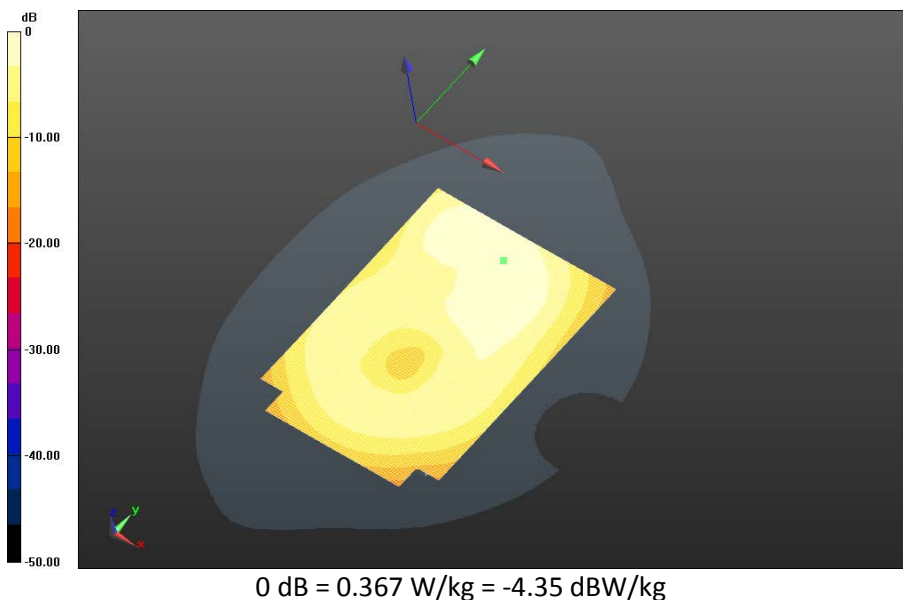
**Fast SAR: SAR(1g) = 0.313 W/kg; SAR(10g) = 0.177 W/kg**  
 Maximum value of SAR (interpolated) = 0.367 W/kg




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**Body Worn MSL - LTE band 4/15mm Device Front - LTE band**  
**4\_chan20175\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.6C\_liq\_temp\_22.0C/Area Scan**  
**(121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm**  
 Reference Value = 5.151 V/m; **Power Drift = -0.037 dB**

**Fast SAR: SAR(1g) = 0.156 W/kg; SAR(10g) = 0.0980 W/kg**  
 Maximum value of SAR (interpolated) = 0.171 W/kg



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## UMTS Band IV

Date: 5/14/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40**

### **Configuration: Body Worn MSL - UMTS band IV**

Communication System: WCDMA FDD IV (0); Communication System Band: UMTS band IV;

Frequency: 1712.4 MHz

Medium Parameters used:  $f=1712.4$  MHz;  $\sigma = 1.493$  S/m;  $\epsilon_r = 51.476$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

### **Body Worn MSL - UMTS band IV/15mm Device Back - UMTS**

**IV\_chan1312\_amb\_temp\_23.4C\_liq\_temp\_22.2C/Area Scan (121x171x1):** Interpolated grid:

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

Reference Value = 7.424 V/m; **Power Drift = 0.057 dB**

**Fast SAR: SAR(1g) = 0.544 W/kg; SAR(10g) = 0.296 W/kg**

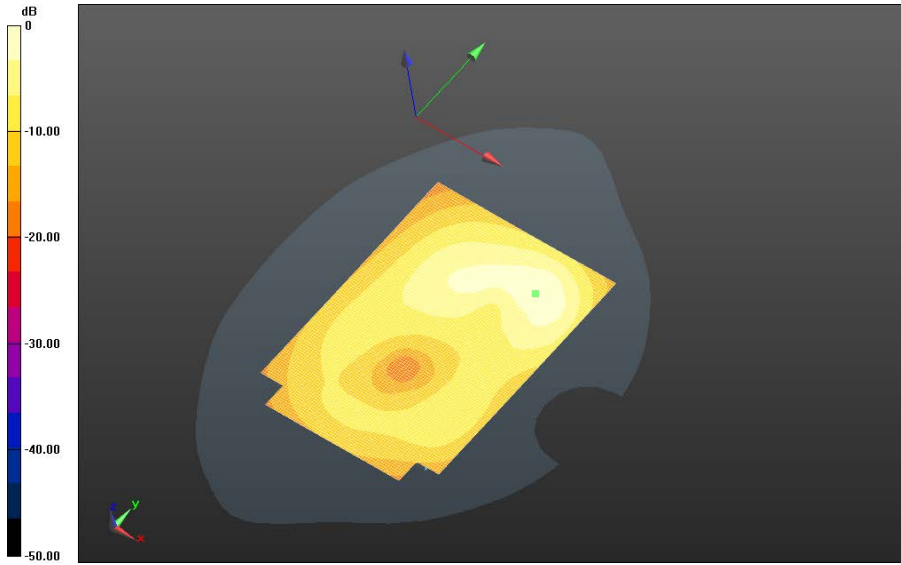
Maximum value of SAR (interpolated) = 0.625 W/kg

Author Data  
**Andrew Becker**


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

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**Body Worn MSL - UMTS band IV/15m Device Back - UMTS**

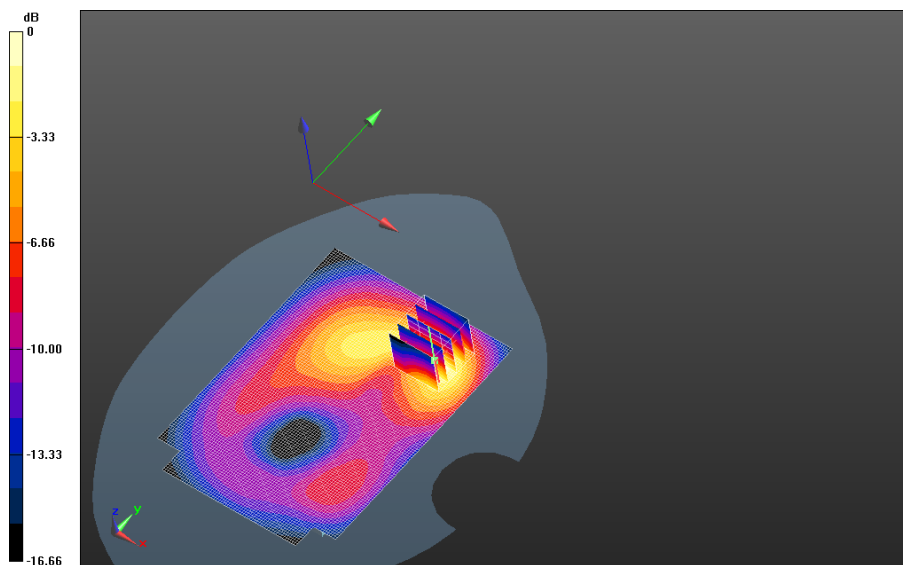
**IV\_chan1413\_amb\_temp\_23.5C\_liq\_temp\_22.3C/Area Scan (121x171x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 7.771 V/m; **Power Drift = -0.087 dB**

**Fast SAR: SAR(1g) = 0.553 W/kg; SAR(10g) = 0.300 W/kg**  
 Maximum value of SAR (interpolated) = 0.634 W/kg


**Body Worn MSL - UMTS band IV/15m Device Back - UMTS**

**IV\_chan1413\_amb\_temp\_23.5C\_liq\_temp\_22.3C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 7.771 V/m; **Power Drift = -0.087 dB**

**Averaged SAR: SAR(1g) = 0.571 W/kg; SAR(10g) = 0.317 W/kg**  
 Maximum value of SAR (interpolated) = 0.884 W/kg



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

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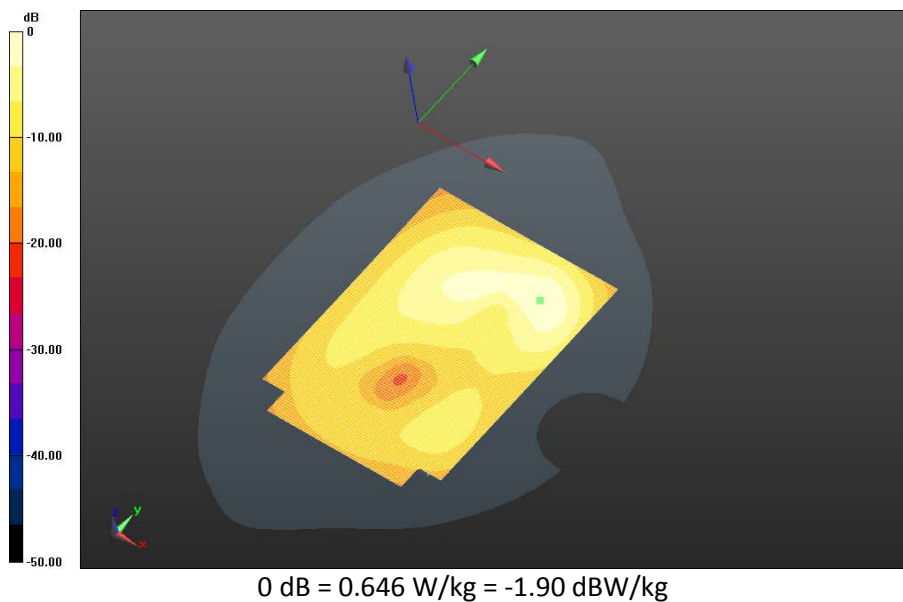
**Body Worn MSL - UMTS band IV/15mm Device Back - UMTS**


**IV\_chan1513\_amb\_temp\_23.7C\_liq\_temp\_22.3C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm

Reference Value = 6.975 V/m; **Power Drift = 0.052 dB**

**Fast SAR: SAR(1g) = 0.462 W/kg; SAR(10g) = 0.247 W/kg**

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



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**Body Worn MSL - UMTS band IV/15m Device Front - UMTS**

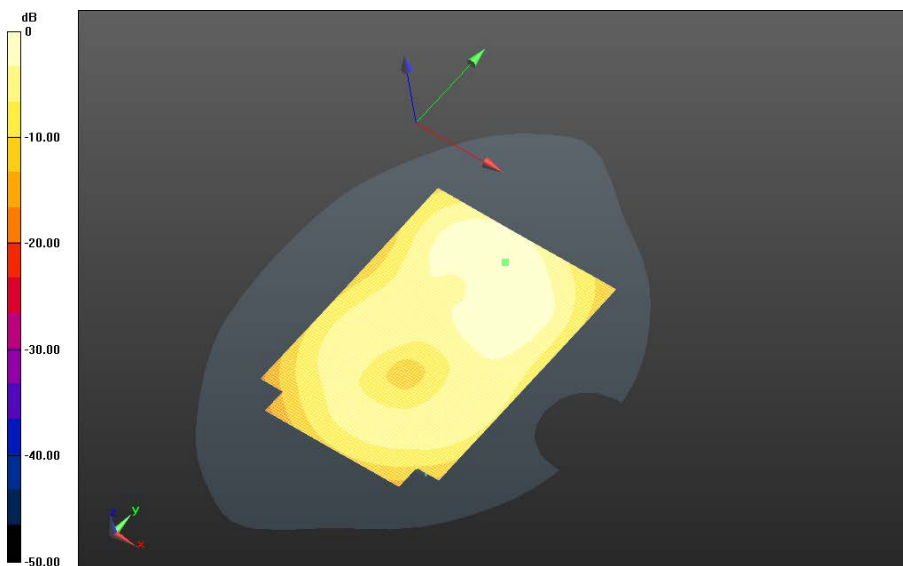
**IV\_chan1413\_amb\_temp\_23.8C\_liq\_temp\_22.3C/Area Scan (121x171x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 7.298 V/m; **Power Drift = 0.011 dB**


**Fast SAR: SAR(1g) = 0.240 W/kg; SAR(10g) = 0.148 W/kg**

Maximum value of SAR (interpolated) = 0.266 W/kg



0 dB = 0.533 W/kg = -2.73 dBW/kg



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## LTE Band 2

Date: 4/28/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40**

### Configuration: Body Worn MSL - LTE band 2

Communication System: LTE 2 (0); Communication System Band: LTE Band 2; Frequency: 1860 MHz

Medium Parameters used:  $f=1860$  MHz;  $\sigma = 1.481$  S/m;  $\epsilon_r = 51.563$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

#### Body Worn MSL - LTE band 2/15mm Device Back - LTE band

**2\_chan18700\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.8C\_liq\_temp\_22.1C/Area Scan**

**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.162 V/m; **Power Drift = 0.031 dB**

**Fast SAR: SAR(1g) = 0.517 W/kg; SAR(10g) = 0.277 W/kg**

Maximum value of SAR (interpolated) = 0.615 W/kg

#### Body Worn MSL - LTE band 2/15mm Device Back - LTE band

**2\_chan18700\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.8C\_liq\_temp\_22.1C/Zoom Scan**

**(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 5.162 V/m; **Power Drift = 0.031 dB**

**Averaged SAR: SAR(1g) = 0.572 W/kg; SAR(10g) = 0.313 W/kg**

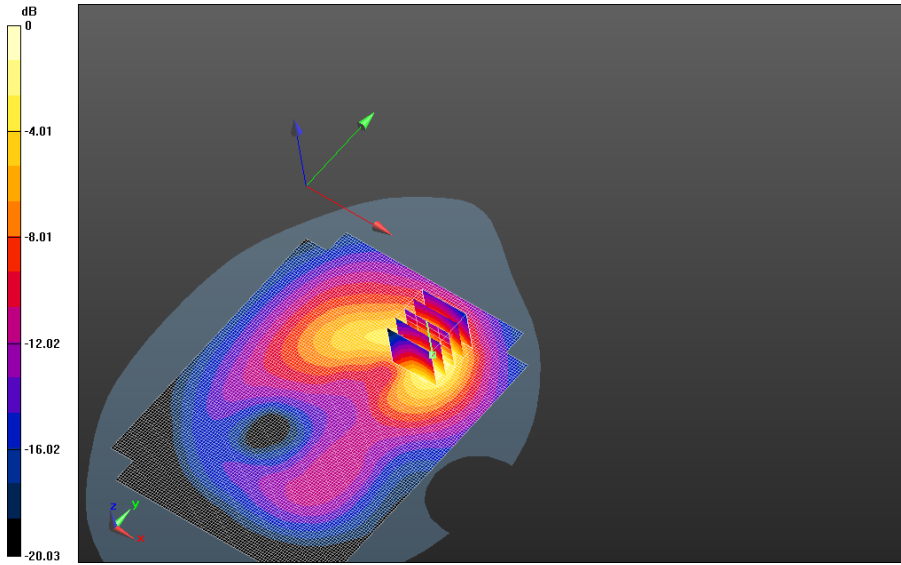
Maximum value of SAR (interpolated) = 0.898 W/kg


Author Data  
**Andrew Becker**

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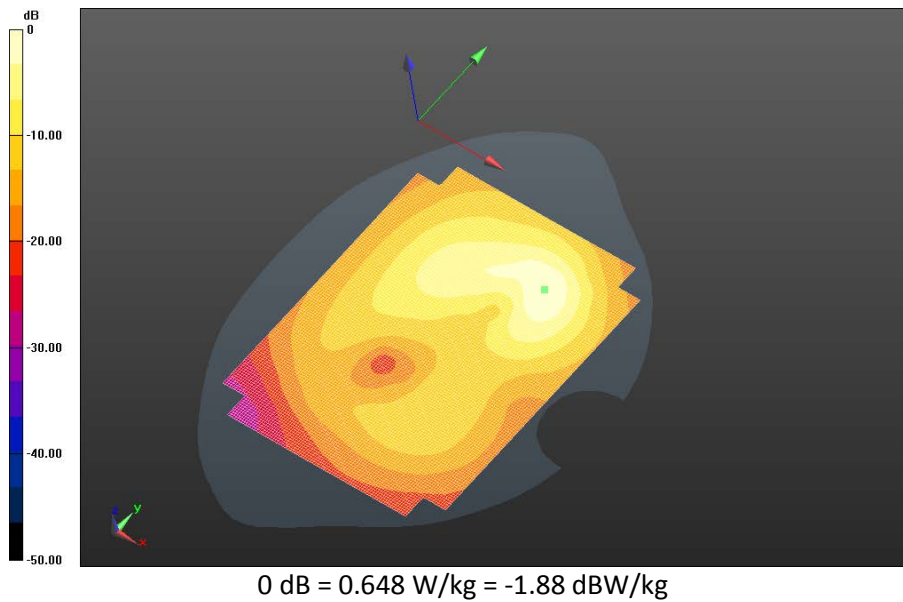
FCC ID:  
**L6ARGY180LW**




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**Body Worn MSL - LTE band 2/15mm Device Back - LTE band 2\_chan18900\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.8C\_liq\_temp\_22.1C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 5.195 V/m; **Power Drift = -0.00965 dB**

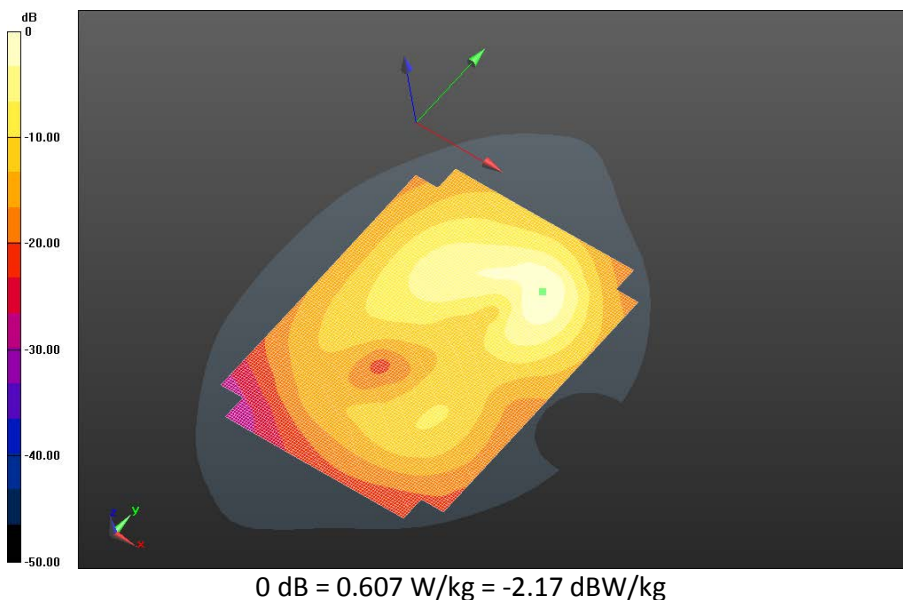
**Fast SAR: SAR(1g) = 0.505 W/kg; SAR(10g) = 0.271 W/kg**  
Maximum value of SAR (interpolated) = 0.607 W/kg




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**Body Worn MSL - LTE band 2/15mm Device Back - LTE band**  
**2\_chan19100\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.8C\_liq\_temp\_22.0C/Area Scan**  
**(121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm**  
 Reference Value = 4.889 V/m; **Power Drift = -0.021 dB**

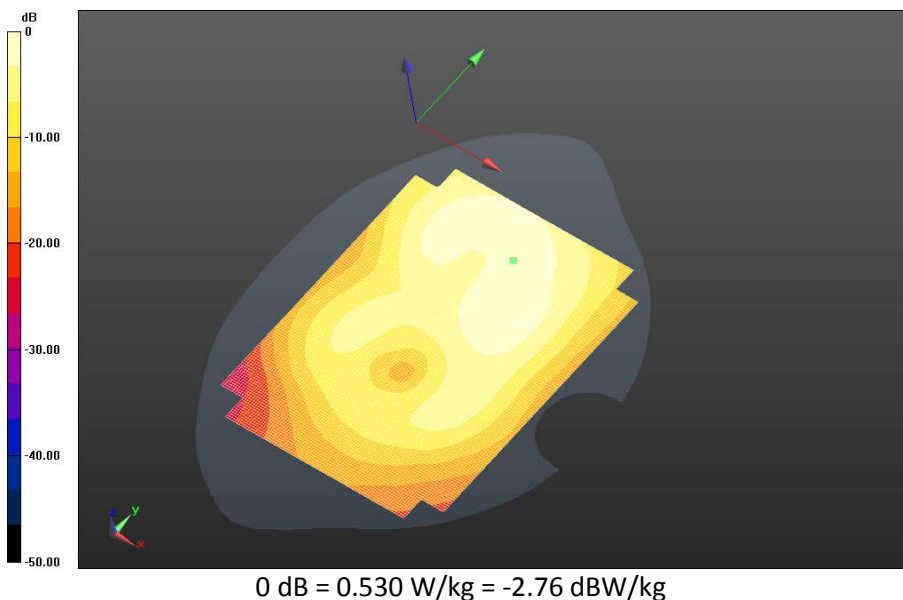
**Fast SAR: SAR(1g) = 0.439 W/kg; SAR(10g) = 0.234 W/kg**  
 Maximum value of SAR (interpolated) = 0.530 W/kg




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**Body Worn MSL - LTE band 2/15mm Device Front - LTE band 2\_chan18900\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.6C\_liq\_temp\_22.0C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 4.793 V/m; **Power Drift = -0.042 dB**

**Fast SAR: SAR(1g) = 0.128 W/kg; SAR(10g) = 0.0778 W/kg**  
Maximum value of SAR (interpolated) = 0.143 W/kg



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## GPRS 1900

Date: 5/30/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF46F9**

### **Configuration: Body Worn MSL - GPRS 1900**

Communication System: GSM 1900 (0); Communication System Band: GSM 1900; Frequency: 1880 MHz

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.552$  S/m;  $\epsilon_r = 52.740$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

### **Body Worn MSL - GPRS 1900/15mm Device Back -GSM 1900\_1-**

**slot\_chan661\_amb\_temp\_23.7C\_liq\_temp\_22.0C/Area Scan (121x171x1):** Interpolated grid:

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

Reference Value = 3.457 V/m; **Power Drift = -0.066 dB**

**Fast SAR: SAR(1g) = 0.244 W/kg; SAR(10g) = 0.135 W/kg**

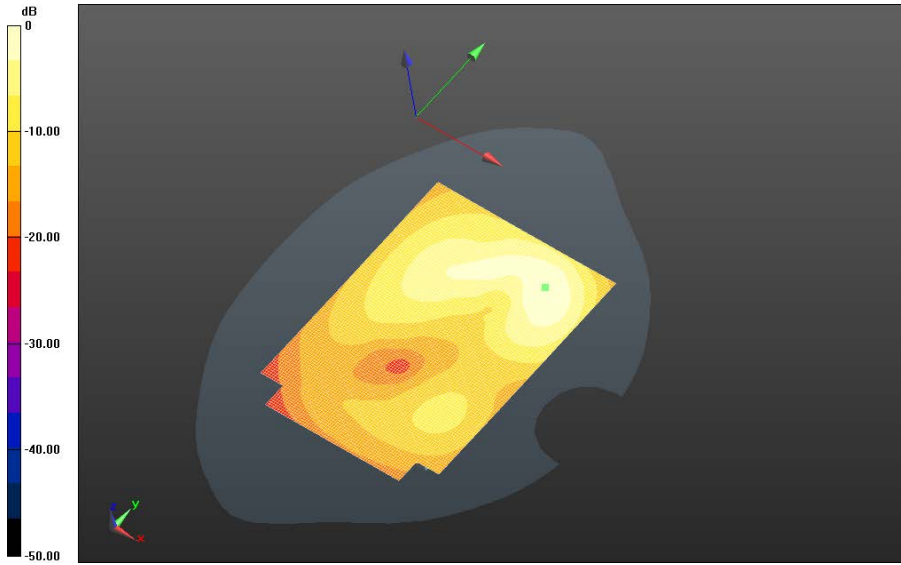
Maximum value of SAR (interpolated) = 0.278 W/kg

Author Data  
**Andrew Becker**


Dates of Test  
**April 15 – June 13, 2014**

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FCC ID:  
**L6ARGY180LW**

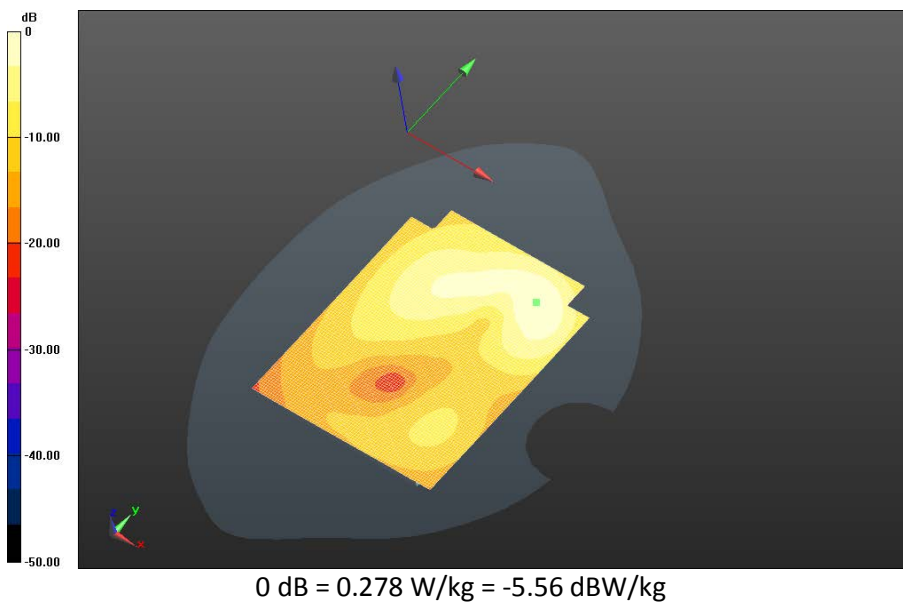


0 dB = 0.278 W/kg = -5.56 dBW/kg


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**Body Worn MSL - GPRS 1900/15mm Device Back -GPRS 1900\_2-  
slot\_chan512\_amb\_temp\_23.9C\_liq\_temp\_22.0C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 4.119 V/m; **Power Drift = -0.025 dB**

**Fast SAR: SAR(1g) = 0.313 W/kg; SAR(10g) = 0.174 W/kg**  
Maximum value of SAR (interpolated) = 0.354 W/kg

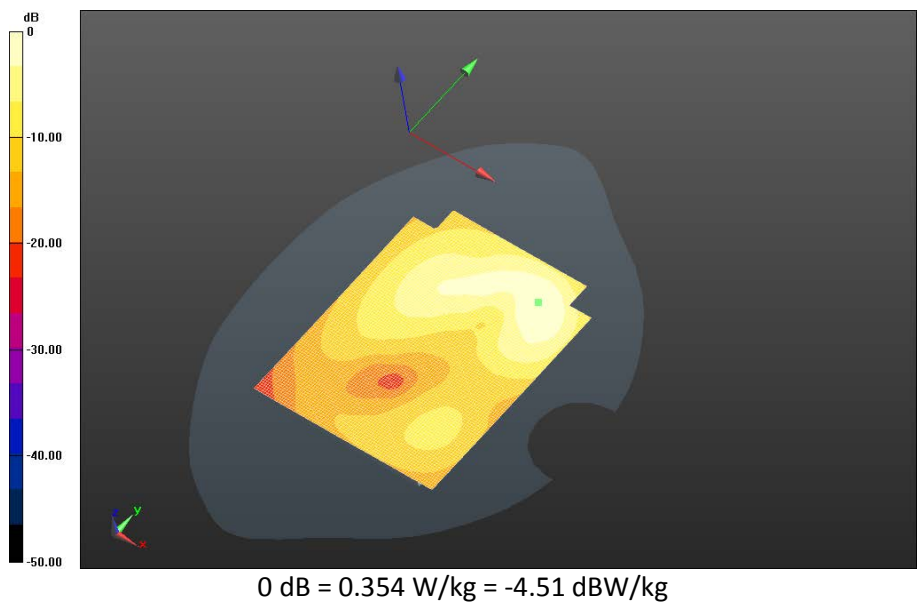





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**Body Worn MSL - GPRS 1900/15mm Device Back -GPRS 1900\_2-  
slot\_chan661\_amb\_temp\_24.0C\_liq\_temp\_22.2C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 4.075 V/m; **Power Drift = -0.160 dB**

**Fast SAR: SAR(1g) = 0.338 W/kg; SAR(10g) = 0.188 W/kg**  
Maximum value of SAR (interpolated) = 0.382 W/kg



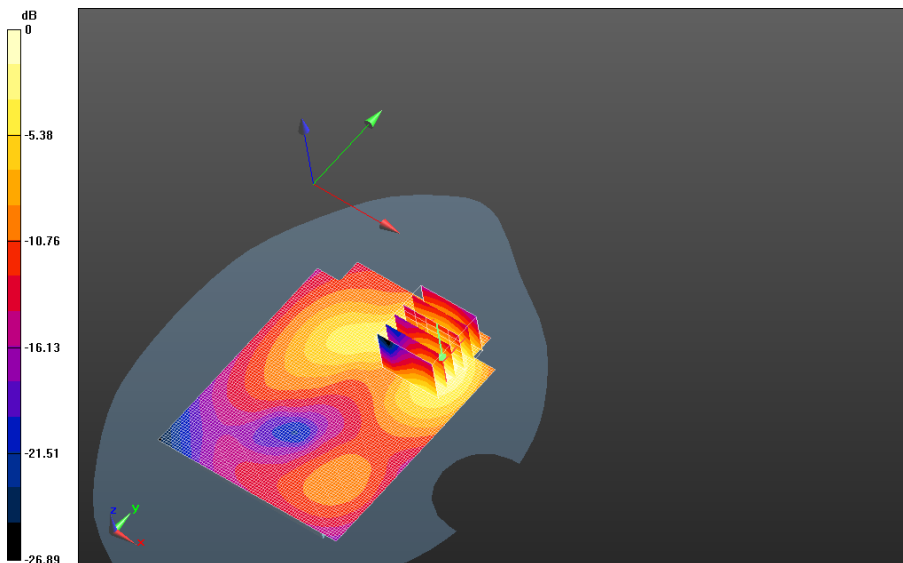
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**Body Worn MSL - GPRS 1900/15mm Device Back -GPRS 1900\_2-slots\_chan810\_amb\_temp\_23.5C\_liq\_temp\_22.0C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 3.798 V/m; **Power Drift = 0.193 dB**


**Fast SAR: SAR(1g) = 0.358 W/kg; SAR(10g) = 0.199 W/kg**  
Maximum value of SAR (interpolated) = 0.404 W/kg

**Body Worn MSL - GPRS 1900/15mm Device Back -GPRS 1900\_2-slots\_chan810\_amb\_temp\_23.5C\_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 = 3.798 V/m; **Power Drift = 0.193 dB**

**Averaged SAR: SAR(1g) = 0.394 W/kg; SAR(10g) = 0.218 W/kg**  
Maximum value of SAR (interpolated) = 0.630 W/kg

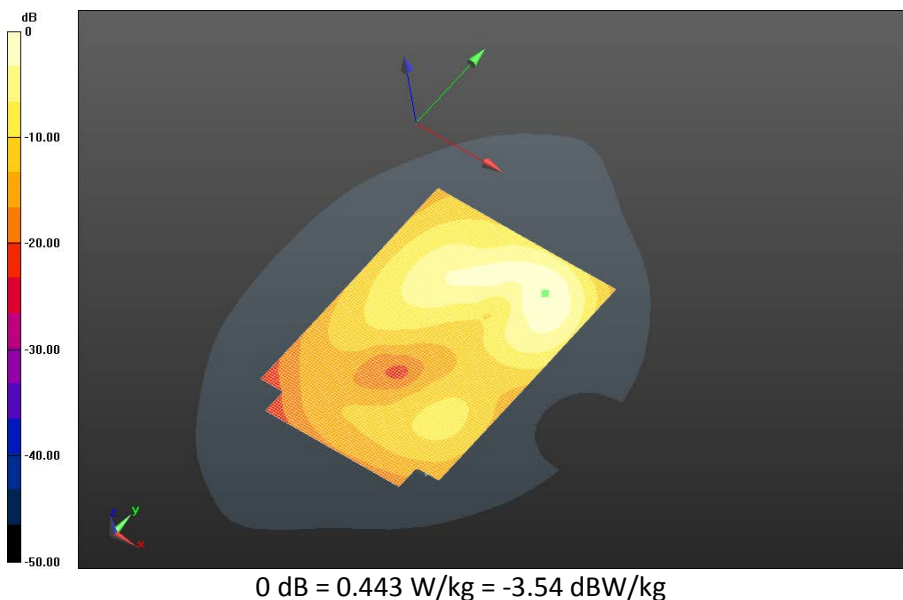



0 dB = 0.382 W/kg = -4.18 dBW/kg

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**Body Worn MSL - GPRS 1900/15mm Device Back -GPRS 1900\_3-  
slot\_chan661\_amb\_temp\_23.7C\_liq\_temp\_22.1C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 3.544 V/m; **Power Drift = -0.068 dB**

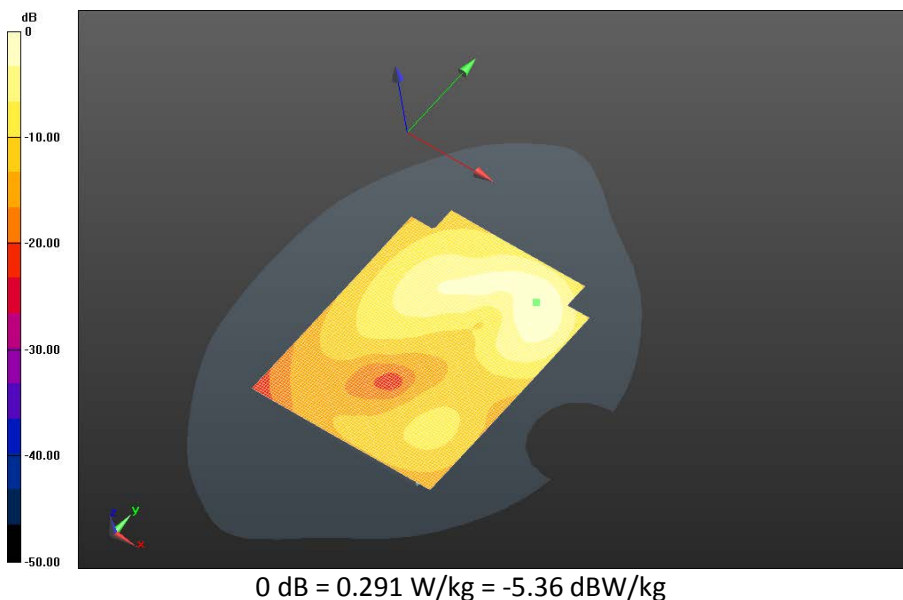
**Fast SAR: SAR(1g) = 0.255 W/kg; SAR(10g) = 0.141 W/kg**  
Maximum value of SAR (interpolated) = 0.291 W/kg




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**Body Worn MSL - GPRS 1900/15mm Device Back -GPRS 1900\_4-  
slot\_chan661\_amb\_temp\_23.9C\_liq\_temp\_22.3C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 3.762 V/m; **Power Drift = 0.138 dB**

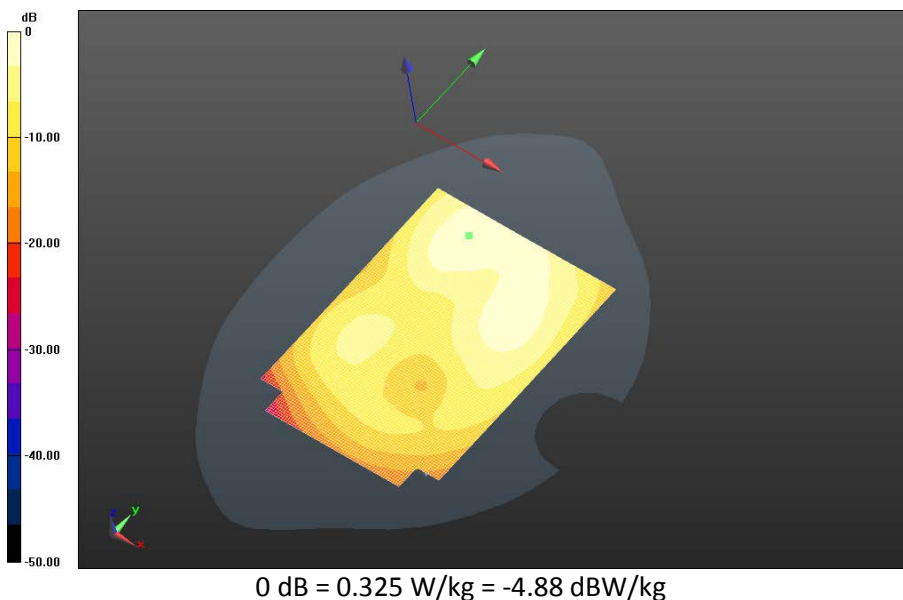
**Fast SAR: SAR(1g) = 0.288 W/kg; SAR(10g) = 0.160 W/kg**  
Maximum value of SAR (interpolated) = 0.325 W/kg




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**Body Worn MSL - GPRS 1900/15mm Device Front -GPRS 1900\_2-  
slot\_chan661\_amb\_temp\_23.5C\_liq\_temp\_22.0C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 3.989 V/m; **Power Drift = -0.096 dB**

**Fast SAR: SAR(1g) = 0.121 W/kg; SAR(10g) = 0.0713 W/kg**  
Maximum value of SAR (interpolated) = 0.135 W/kg



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## UMTS Band II

Date: 4/25/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40**

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

Communication System: WCDMA FDD II (0); Communication System Band: UMTS FDD II;

Frequency: 1852.4 MHz

Medium Parameters used:  $f=1852.4$  MHz;  $\sigma = 1.473$  S/m;  $\epsilon_r = 51.590$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

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

**II\_chan9262\_amb\_temp\_24.1C\_liq\_temp\_21.1C/Area Scan (121x171x1):** Interpolated grid:

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

Reference Value = 3.915 V/m; **Power Drift = -0.034 dB**

**Fast SAR: SAR(1g) = 0.403 W/kg; SAR(10g) = 0.214 W/kg**

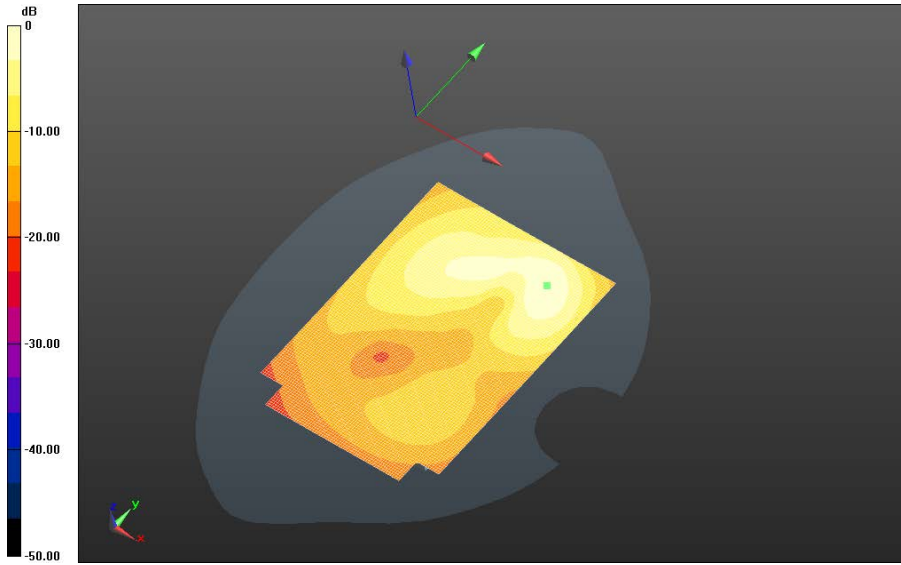
Maximum value of SAR (interpolated) = 0.468 W/kg


Author Data  
**Andrew Becker**

Dates of Test  
**April 15 – June 13, 2014**

Test Report No  
**RTS-6057-1405-01**

FCC ID:  
**L6ARGY180LW**



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

**II\_chan9400\_amb\_temp\_24.0C\_liq\_temp\_21.1C/Area Scan (121x171x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 4.342 V/m; **Power Drift = -0.027 dB**

**Fast SAR: SAR(1g) = 0.589 W/kg; SAR(10g) = 0.304 W/kg**

Maximum value of SAR (interpolated) = 0.728 W/kg

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

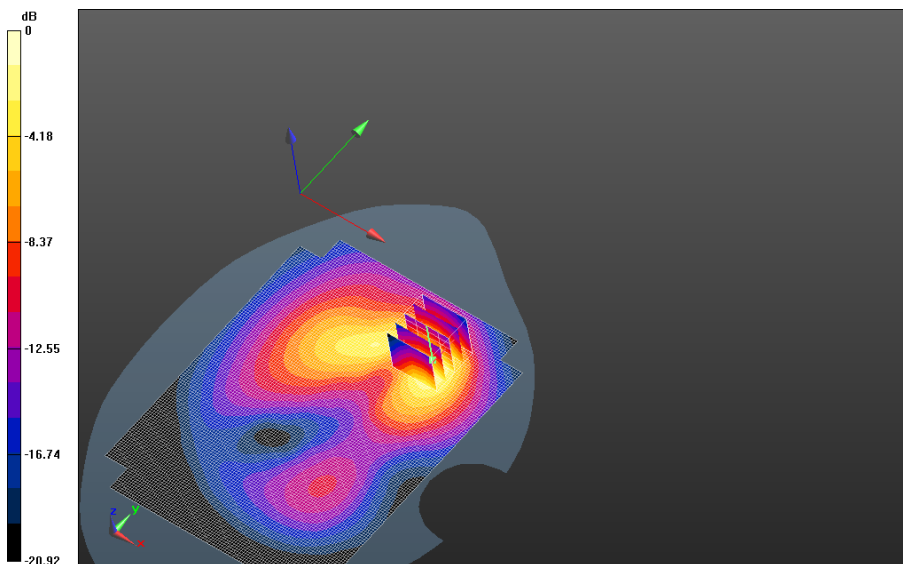
**II\_chan9400\_amb\_temp\_24.0C\_liq\_temp\_21.1C/Zoom Scan (21x21x36)/Cube 0:** Interpolated

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

Reference Value = 4.342 V/m; **Power Drift = -0.027 dB**


**Averaged SAR: SAR(1g) = 0.652 W/kg; SAR(10g) = 0.348 W/kg**

Maximum value of SAR (interpolated) = 1.05 W/kg



0 dB = 0.468 W/kg = -3.30 dBW/kg



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

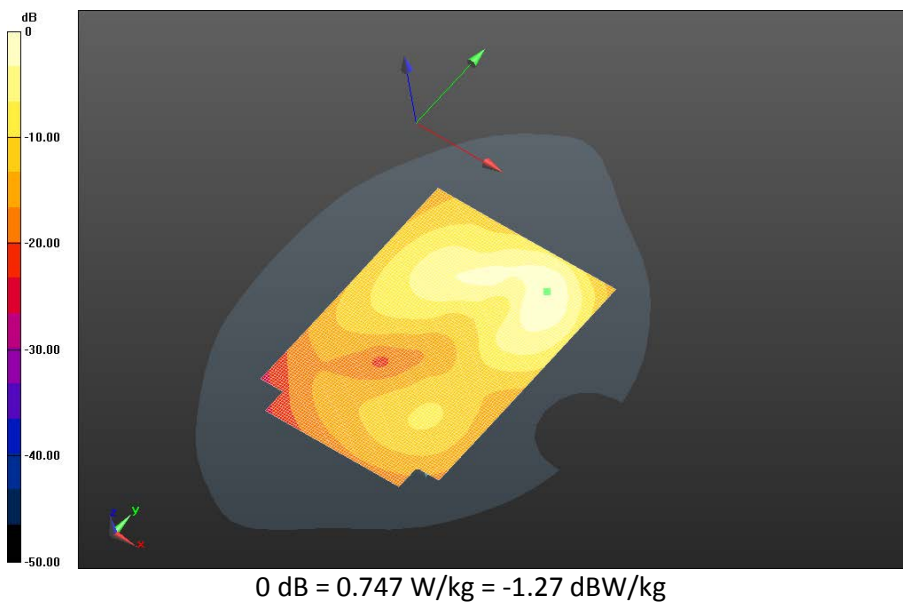
**II\_chan9538\_amb\_temp\_24.1C\_liq\_temp\_21.1C/Area Scan (121x171x1):** Interpolated grid:


dx=1.500 mm, dy=1.500 mm

Reference Value = 3.383 V/m; **Power Drift = -0.025 dB**

**Fast SAR: SAR(1g) = 0.365 W/kg; SAR(10g) = 0.198 W/kg**

Maximum value of SAR (interpolated) = 0.428 W/kg



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

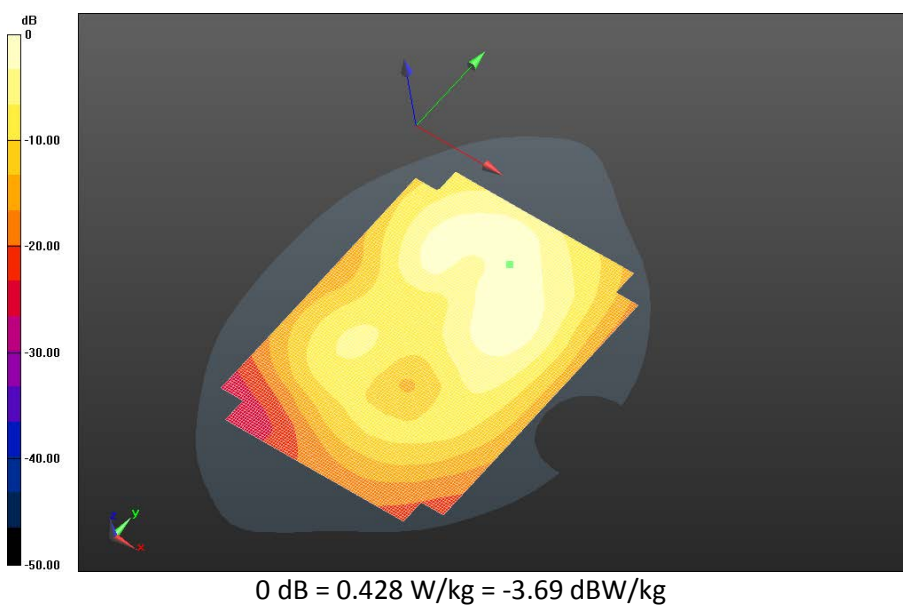
**II\_chan9400\_amb\_temp\_24.0C\_liq\_temp\_21.1C/Area Scan (121x171x1):** Interpolated grid:


dx=1.500 mm, dy=1.500 mm

Reference Value = 4.879 V/m; **Power Drift = -0.026 dB**

**Fast SAR: SAR(1g) = 0.164 W/kg; SAR(10g) = 0.0944 W/kg**

Maximum value of SAR (interpolated) = 0.187 W/kg



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## 802.11b

Date: 5/20/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FF3D40**

### **Configuration: Body Worn MSL - 802.11b**

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

Medium Parameters used:  $f=2437$  MHz;  $\sigma = 1.996$  S/m;  $\epsilon_r = 50.931$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (4.28,4.28,4.28); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

### **Body Worn MSL - 802.11b/15mm Device Back -**

**802.11b\_chan6\_amb\_temp\_23.9C\_liq\_temp\_22.0C/Area Scan (151x201x1):** Interpolated grid:

$dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 0.145 W/kg

### **Body Worn MSL - 802.11b/15mm Device Back -**

**802.11b\_chan6\_amb\_temp\_23.9C\_liq\_temp\_22.0C/Zoom Scan (31x31x36)/Cube 0:**

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

Reference Value = 4.473 V/m; **Power Drift = 0.075 dB**

**Averaged SAR: SAR(1g) = 0.113 W/kg; SAR(10g) = 0.0602 W/kg**

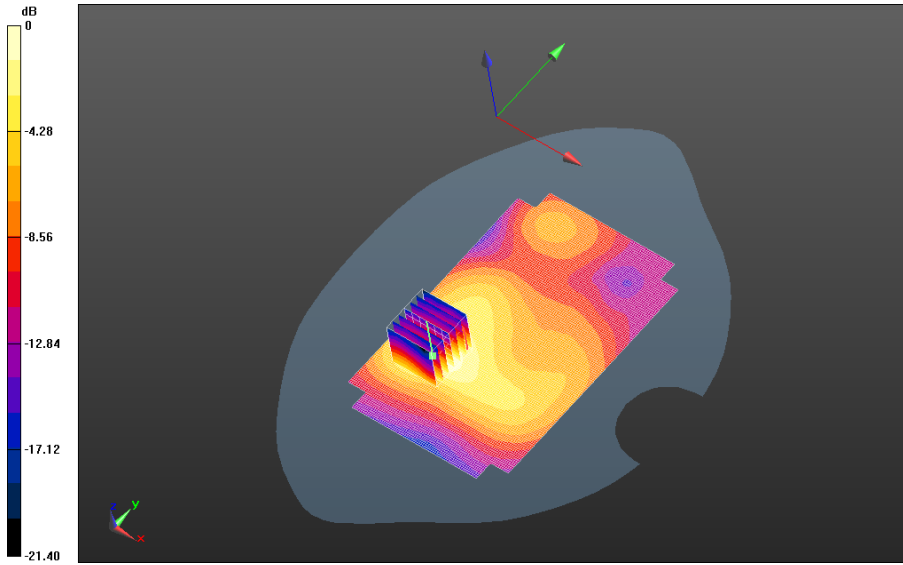
Maximum value of SAR (interpolated) = 0.212 W/kg

Author Data  
**Andrew Becker**


Dates of Test  
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0 dB = 0.141 W/kg = -8.51 dBW/kg

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**Body Worn MSL - 802.11b/15mm Device Back -**

**802.11g\_chan6\_amb\_temp\_23.3C\_liq\_temp\_22.0C/Area Scan (151x201x1):** Interpolated grid:  
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.200 W/kg

**Body Worn MSL - 802.11b/15mm Device Back -**

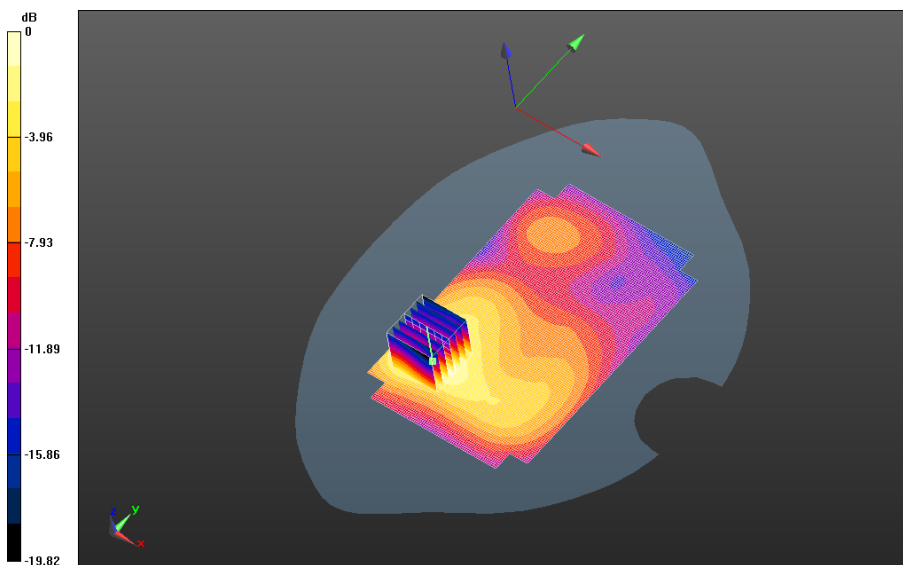
**802.11g\_chan6\_amb\_temp\_23.3C\_liq\_temp\_22.0C/Zoom Scan (31x31x36)/Cube 0:**

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


Reference Value = 4.514 V/m; **Power Drift = -0.042 dB**

**Averaged SAR: SAR(1g) = 0.153 W/kg; SAR(10g) = 0.0807 W/kg**

Maximum value of SAR (interpolated) = 0.292 W/kg



0 dB = 0.141 W/kg = -8.51 dBW/kg

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**Body Worn MSL - 802.11b/15mm Device Front -**

**802.11b\_chan6\_amb\_temp\_23.9C\_liq\_temp\_21.9C/Area Scan (151x201x1):** Interpolated grid:  
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0254 W/kg

**Body Worn MSL - 802.11b/15mm Device Front -**

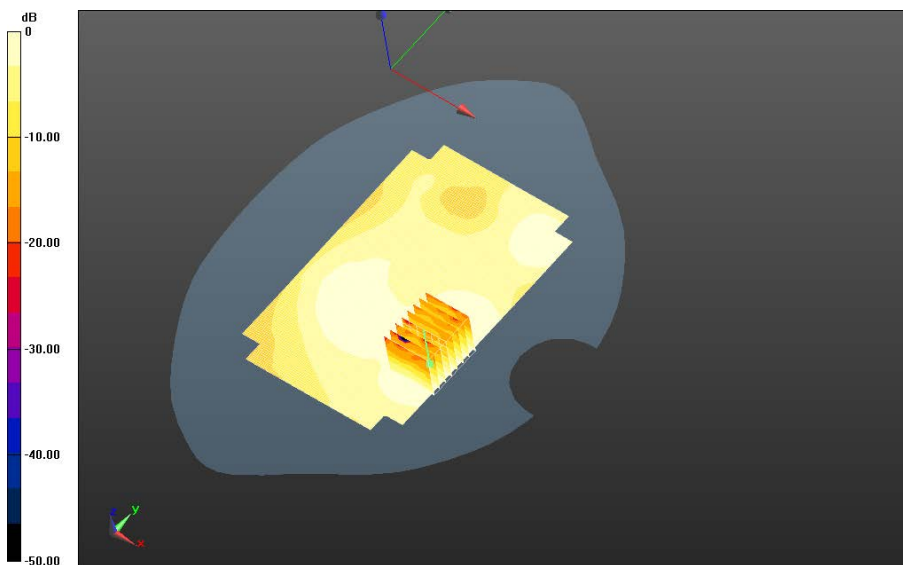
**802.11b\_chan6\_amb\_temp\_23.9C\_liq\_temp\_21.9C/Zoom Scan (31x36x36)/Cube 0:**

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


Reference Value = 2.338 V/m; **Power Drift = -0.121 dB**

**Averaged SAR: SAR(1g) = 0.0203 W/kg; SAR(10g) = 0.0115 W/kg**

Maximum value of SAR (interpolated) = 0.0393 W/kg



0 dB = 0.193 W/kg = -7.14 dBW/kg

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## Bluetooth

Date: 5/20/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FF3D40**

### **Configuration: Body Worn MSL - BT**

Communication System: Bluetooth (0); Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz

Medium Parameters used:  $f=2441$  MHz;  $\sigma = 2.001$  S/m;  $\epsilon_r = 50.918$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (4.28,4.28,4.28); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

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

**Bluetooth\_chan39\_amb\_temp\_24.3C\_liq\_temp\_22.2C/Area Scan (151x201x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0173 W/kg

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

**Bluetooth\_chan39\_amb\_temp\_24.3C\_liq\_temp\_22.2C/Zoom Scan (31x31x36)/Cube 0:**

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

Reference Value = 1.286 V/m; **Power Drift = 0.013 dB**

**Averaged SAR: SAR(1g) = 0.0140 W/kg; SAR(10g) = 0.00739 W/kg**

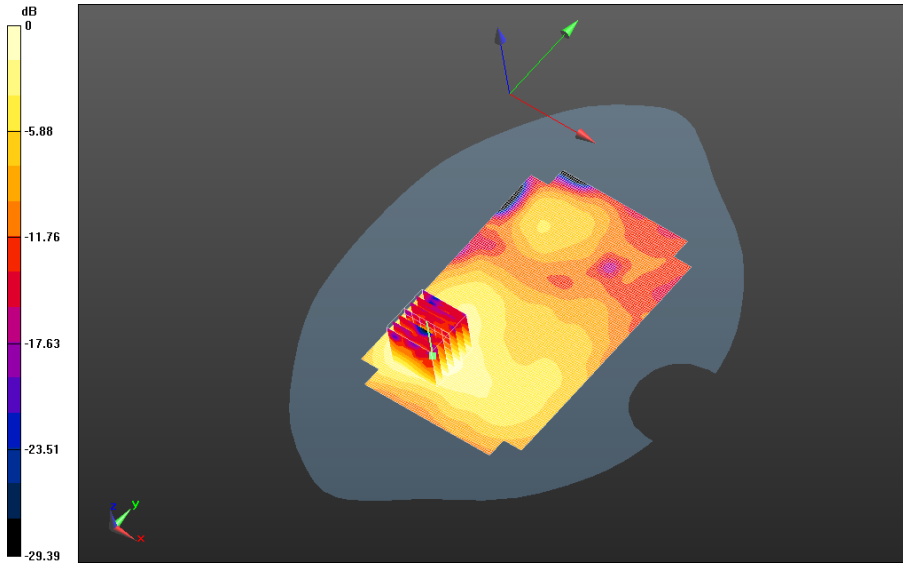
Maximum value of SAR (interpolated) = 0.0268 W/kg

Author Data  
**Andrew Becker**

Dates of Test  
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0 dB = 0.0174 W/kg = -17.59 dBW/kg



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**Body Worn MSL - BT/15mm Device Front -**

**Bluetooth\_chan39\_amb\_temp\_24.2C\_liq\_temp\_22.2C/Area Scan (151x201x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.00364 W/kg

**Body Worn MSL - BT/15mm Device Front -**

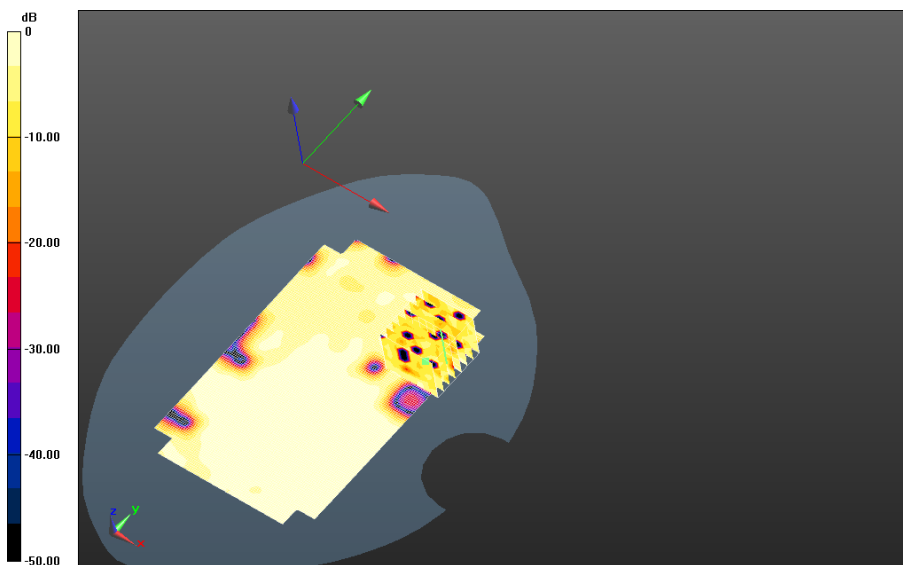
**Bluetooth\_chan39\_amb\_temp\_24.2C\_liq\_temp\_22.2C/Zoom Scan (36x36x36)/Cube 0:**

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


Reference Value = 0.861 V/m; **Power Drift = -0.109 dB**

**Averaged SAR: SAR(1g) = 0.00152 W/kg; SAR(10g) = 0.000661 W/kg**

Maximum value of SAR (interpolated) = 0.00814 W/kg



0 dB = 0.0174 W/kg = -17.59 dBW/kg

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## LTE Band 7

Date: 5/22/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FF3D40**

### **Configuration: Body Worn MSL - LTE 7 FCC**

Communication System: LTE 7 (0); Communication System Band: LTE band 7; Frequency: 2510 MHz

Medium Parameters used:  $f=2510$  MHz;  $\sigma = 2.092$  S/m;  $\epsilon_r = 50.621$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (4.03,4.03,4.03); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

### **Body Worn MSL - LTE 7 FCC/15mm Device Back - LTE band**

**7\_chan20850\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.9C\_liq\_temp\_22.0C/Area Scan**

**(151x201x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 1.397 V/m; **Power Drift = -0.117 dB**

**Fast SAR: SAR(1g) = 0.481 W/kg; SAR(10g) = 0.238 W/kg**

Maximum value of SAR (interpolated) = 0.645 W/kg

### **Body Worn MSL - LTE 7 FCC/15mm Device Back - LTE band**

**7\_chan20850\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.9C\_liq\_temp\_22.0C/Zoom Scan**

**(36x41x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 1.397 V/m; **Power Drift = -0.117 dB**

**Averaged SAR: SAR(1g) = 0.480 W/kg; SAR(10g) = 0.236 W/kg**

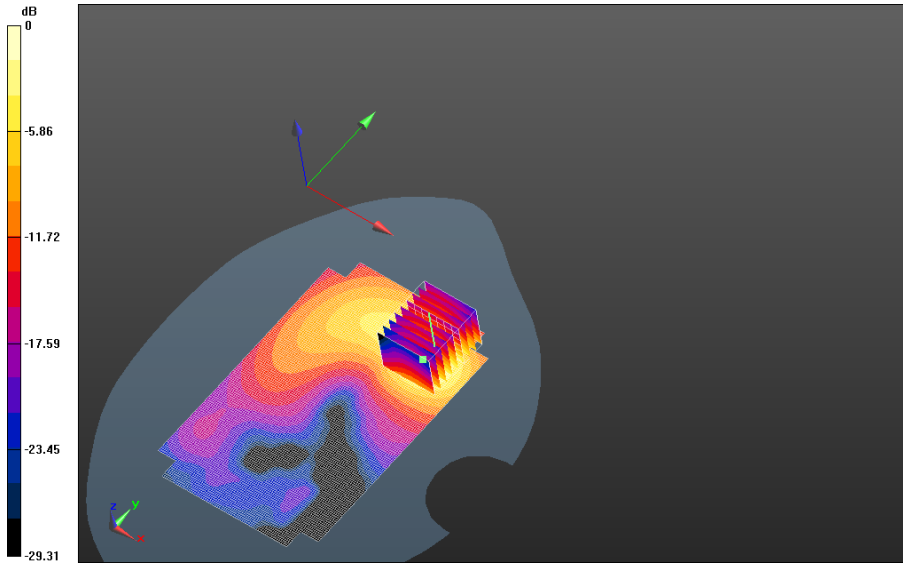
Maximum value of SAR (interpolated) = 0.980 W/kg

Author Data  
**Andrew Becker**


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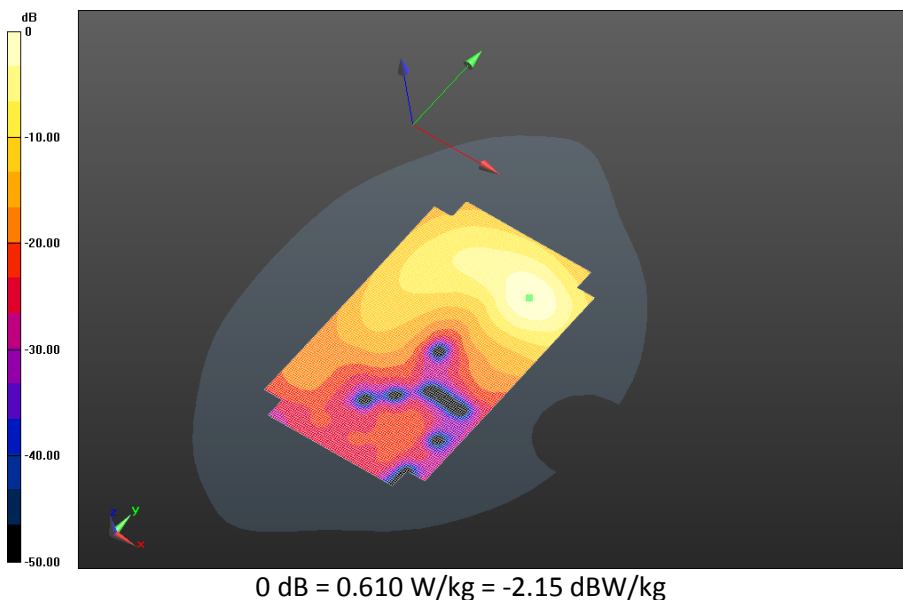



0 dB = 0.610 W/kg = -2.15 dBW/kg

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**Body Worn MSL - LTE 7 FCC/15mm Device Back - LTE band**  
**7\_chan21100\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_24.0C\_liq\_temp\_22.0C/Area Scan**  
**(151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm**  
 Reference Value = 1.256 V/m; **Power Drift = 0.163 dB**

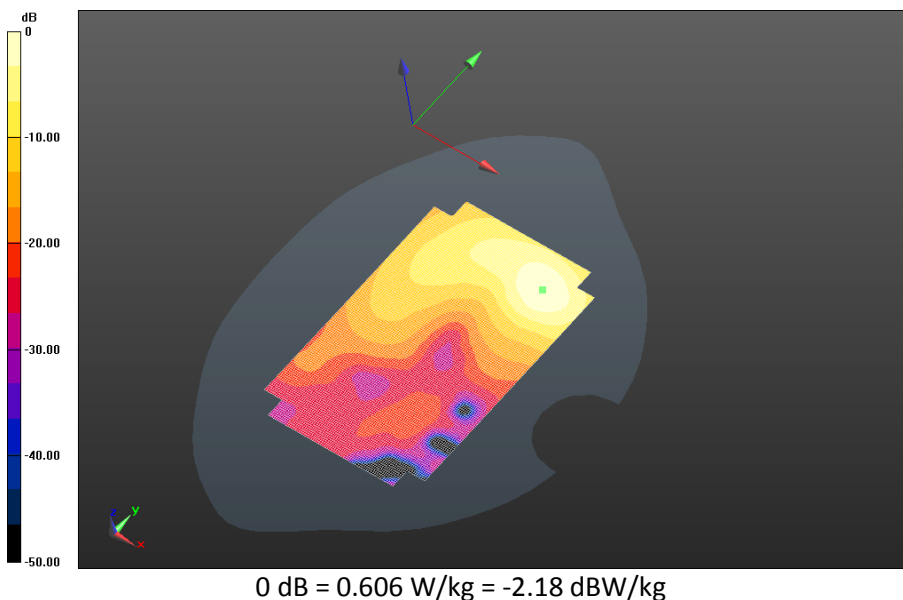
**Fast SAR: SAR(1g) = 0.453 W/kg; SAR(10g) = 0.223 W/kg**  
 Maximum value of SAR (interpolated) = 0.606 W/kg




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**Body Worn MSL - LTE 7 FCC/15mm Device Back - LTE band**  
**7\_chan21350\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.9C\_liq\_temp\_21.9C/Area Scan**  
**(151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm**  
Reference Value = 1.276 V/m; **Power Drift = -0.174 dB**

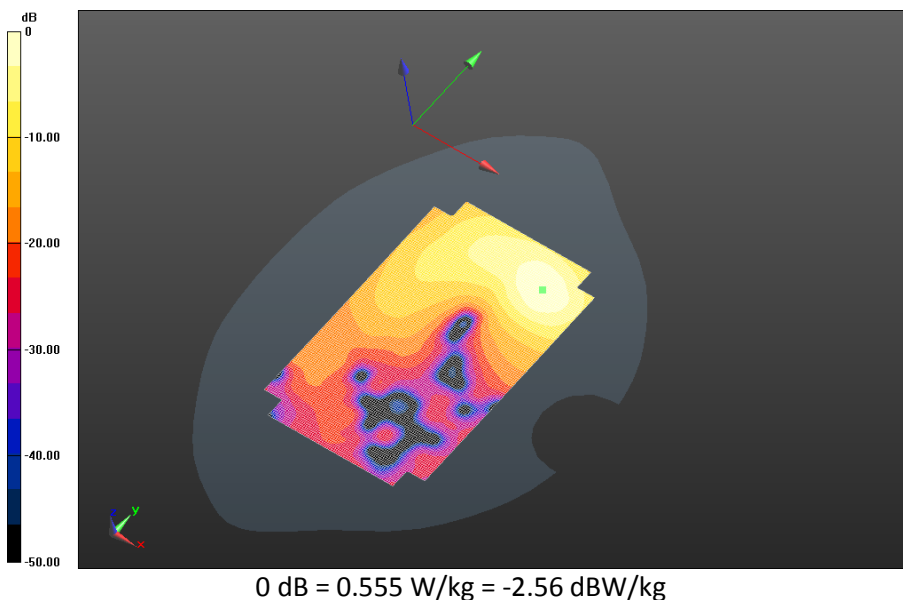
**Fast SAR: SAR(1g) = 0.422 W/kg; SAR(10g) = 0.205 W/kg**  
Maximum value of SAR (interpolated) = 0.555 W/kg




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**Body Worn MSL - LTE 7 FCC/15mm Device Back - LTE band**  
**7\_chan20850\_20MHz\_BW\_RB50\_Offset\_High\_amb\_temp\_24.0C\_liq\_temp\_22.0C/Area Scan**  
**(151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm**  
 Reference Value = 1.105 V/m; **Power Drift = 0.179 dB**

**Fast SAR: SAR(1g) = 0.228 W/kg; SAR(10g) = 0.112 W/kg**  
 Maximum value of SAR (interpolated) = 0.298 W/kg



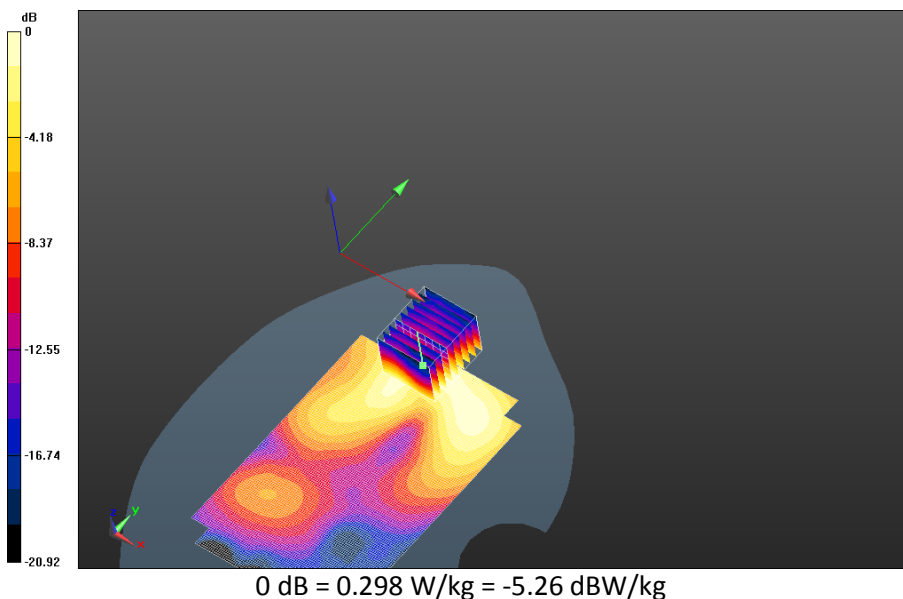
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**Body Worn MSL - LTE 7 FCC/15mm Device Front - LTE band**  
**7\_chan20850\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.9C\_liq\_temp\_22.0C/Area Scan**  
**(151x201x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
 Reference Value = 1.896 V/m; **Power Drift = 0.055 dB**

**Fast SAR: SAR(1g) = 0.0873 W/kg; SAR(10g) = 0.0483 W/kg**  
 Maximum value of SAR (interpolated) = 0.109 W/kg  
 10g avg. SAR maximum on border.

**Body Worn MSL - LTE 7 FCC/15mm Device Front - LTE band**  
**7\_chan20850\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.9C\_liq\_temp\_22.0C/Zoom Scan**  
**(36x41x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
 Reference Value = 1.896 V/m; **Power Drift = 0.055 dB**

**Averaged SAR: SAR(1g) = 0.0915 W/kg; SAR(10g) = 0.0506 W/kg**  
 Maximum value of SAR (interpolated) = 0.174 W/kg



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## LTE Band 7 Rev 2

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Date: 6/5/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF4703**

### **Configuration: Body Worn MSL - LTE 7 FCC Rev2**

Communication System: LTE 7 (0); Communication System Band: LTE band 7; Frequency: 2510 MHz

Medium Parameters used:  $f=2510$  MHz;  $\sigma = 2.089$  S/m;  $\epsilon_r = 50.993$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (4.03,4.03,4.03); Calibrated: 1/22/2014;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

### **Body Worn MSL - LTE 7 FCC Rev2/15mm Device Back - LTE band**

**7\_chan20850\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_22.6C\_liq\_temp\_22.3C/Area Scan**

**(151x201x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 2.375 V/m; **Power Drift = 0.238 dB**

**Fast SAR: SAR(1g) = 0.587 W/kg; SAR(10g) = 0.292 W/kg**

Maximum value of SAR (interpolated) = 0.760 W/kg

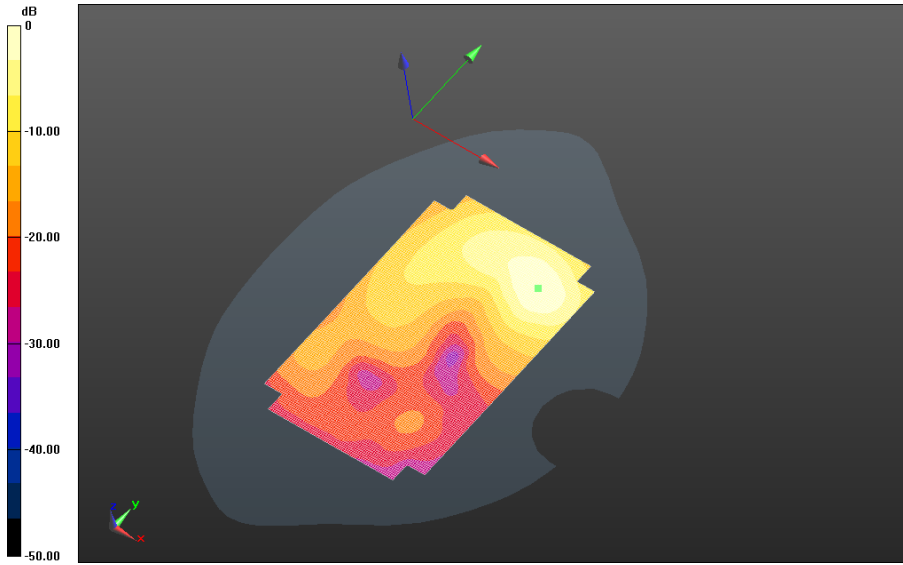


Author Data  
**Andrew Becker**


Dates of Test  
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FCC ID:  
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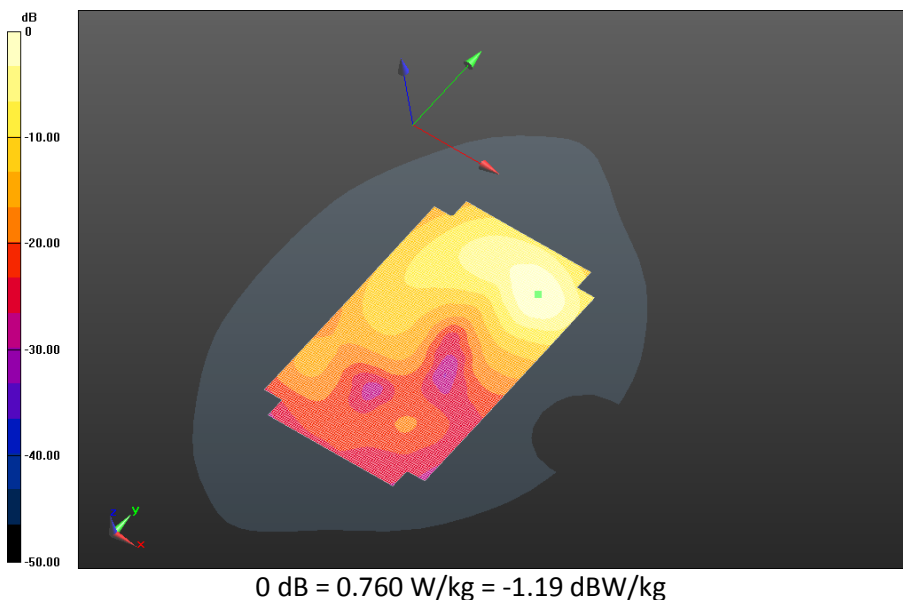



0 dB = 0.760 W/kg = -1.19 dBW/kg

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**Body Worn MSL - LTE 7 FCC Rev2/15mm Device Back - LTE band**  
**7\_chan21100\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_22.6C\_liq\_temp\_22.3C/Area Scan**  
**(151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm**  
Reference Value = 2.152 V/m; **Power Drift = 0.178 dB**

**Fast SAR: SAR(1g) = 0.585 W/kg; SAR(10g) = 0.289 W/kg**  
Maximum value of SAR (interpolated) = 0.764 W/kg



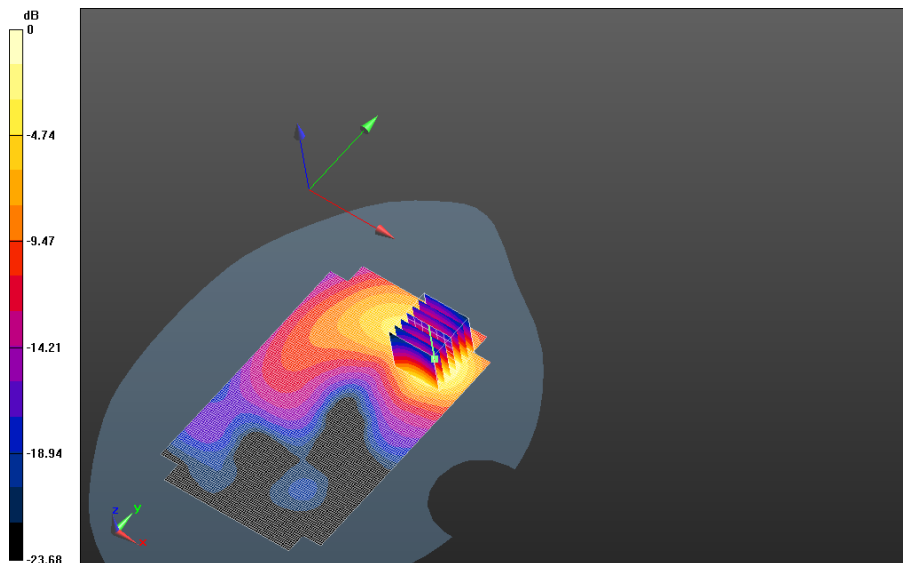
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**Body Worn MSL - LTE 7 FCC Rev2/15mm Device Back - LTE band**  
**7\_chan21350\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_22.6C\_liq\_temp\_22.3C/Area Scan**  
**(151x201x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Reference Value = 2.136 V/m; **Power Drift = 0.075 dB**


**Fast SAR: SAR(1g) = 0.603 W/kg; SAR(10g) = 0.297 W/kg**  
Maximum value of SAR (interpolated) = 0.785 W/kg

**Body Worn MSL - LTE 7 FCC Rev2/15mm Device Back - LTE band**  
**7\_chan21350\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_22.6C\_liq\_temp\_22.3C/Zoom Scan**  
**(31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
Reference Value = 2.136 V/m; **Power Drift = 0.075 dB**

**Averaged SAR: SAR(1g) = 0.616 W/kg; SAR(10g) = 0.303 W/kg**  
Maximum value of SAR (interpolated) = 1.28 W/kg



0 dB = 0.764 W/kg = -1.17 dBW/kg

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## 802.11a

Date: 5/27/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40**

### **Configuration: Body Worn MSL - 802.11a 5200 MHz**

Communication System: 802.11a (0); Communication System Band: Low and Mid Bands; Frequency: 5180 MHz

Medium Parameters used:  $f=5180$  MHz;  $\sigma = 5.472$  S/m;  $\epsilon_r = 47.069$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.83,4.83,4.83); Calibrated: 1/17/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

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

**802.11a\_chan36\_low\_band\_Amb\_Temp\_23.4C\_Liquid\_Temp\_21.7C/Area Scan**

**(181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 2.124 V/m; **Power Drift = -0.319 dB**

**Fast SAR: SAR(1g) = 0.463 W/kg; SAR(10g) = 0.174 W/kg**

Maximum value of SAR (interpolated) = 0.890 W/kg

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

**802.11a\_chan36\_low\_band\_Amb\_Temp\_23.4C\_Liquid\_Temp\_21.7C/Zoom Scan**

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

Reference Value = 2.124 V/m; **Power Drift = -0.319 dB**

**Averaged SAR: SAR(1g) = 0.497 W/kg; SAR(10g) = 0.184 W/kg**

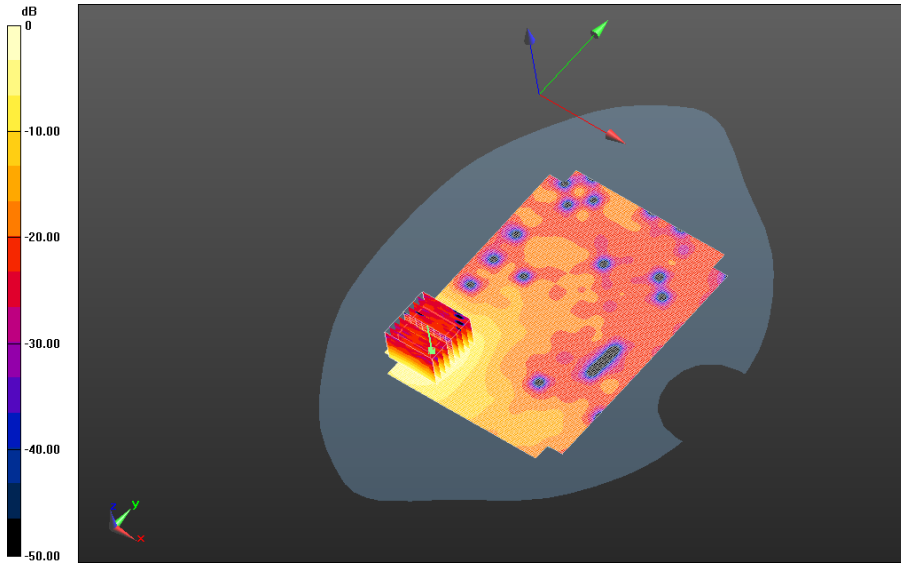
Maximum value of SAR (interpolated) = 1.84 W/kg

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**Andrew Becker**


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0 dB = 0.902 W/kg = -0.45 dBW/kg

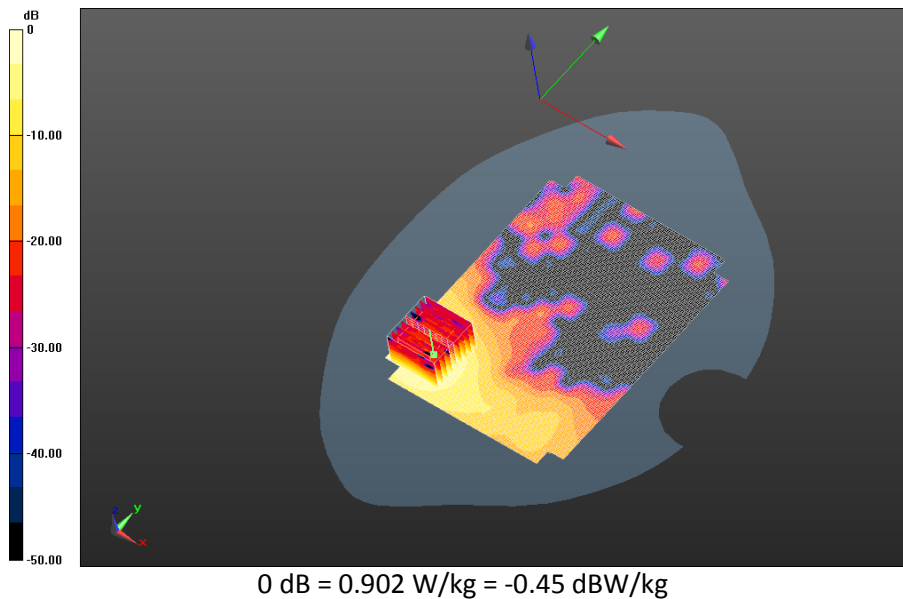
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**Body Worn MSL - 802.11a 5200 MHz/15mm Device Back - 802.11a\_chan48\_low\_band\_Amb\_Temp\_22.8C\_Liquid\_Temp\_21.4C/Area Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Reference Value = 2.048 V/m; **Power Drift = -0.447 dB**

**Fast SAR: SAR(1g) = 0.585 W/kg; SAR(10g) = 0.221 W/kg**  
Maximum value of SAR (interpolated) = 1.13 W/kg

**Body Worn MSL - 802.11a 5200 MHz/15mm Device Back - 802.11a\_chan48\_low\_band\_Amb\_Temp\_22.8C\_Liquid\_Temp\_21.4C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 2.048 V/m; **Power Drift = -0.447 dB**

**Averaged SAR: SAR(1g) = 0.616 W/kg; SAR(10g) = 0.231 W/kg**  
Maximum value of SAR (interpolated) = 2.35 W/kg



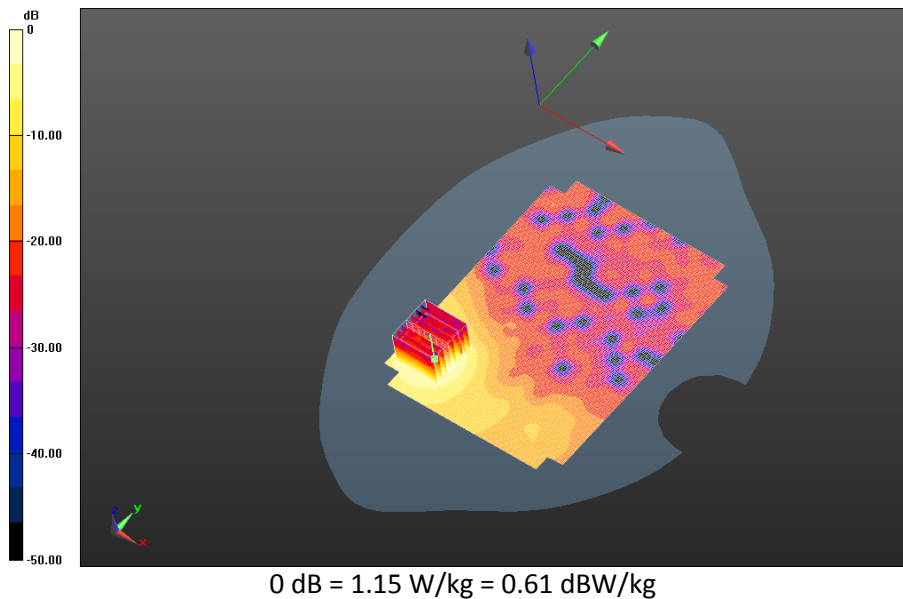
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**Body Worn MSL - 802.11a 5200 MHz/15mm Device Back - 802.11a\_chan52\_low\_band\_Amb\_Temp\_23.3C\_Liquid\_Temp\_21.7C/Area Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Reference Value = 1.806 V/m; **Power Drift = 0.088 dB**

**Fast SAR: SAR(1g) = 0.818 W/kg; SAR(10g) = 0.298 W/kg**  
Maximum value of SAR (interpolated) = 1.61 W/kg

**Body Worn MSL - 802.11a 5200 MHz/15mm Device Back - 802.11a\_chan52\_low\_band\_Amb\_Temp\_23.3C\_Liquid\_Temp\_21.7C/Zoom Scan (36x36x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 1.806 V/m; **Power Drift = 0.088 dB**

**Averaged SAR: SAR(1g) = 0.854 W/kg; SAR(10g) = 0.313 W/kg**  
Maximum value of SAR (interpolated) = 3.14 W/kg



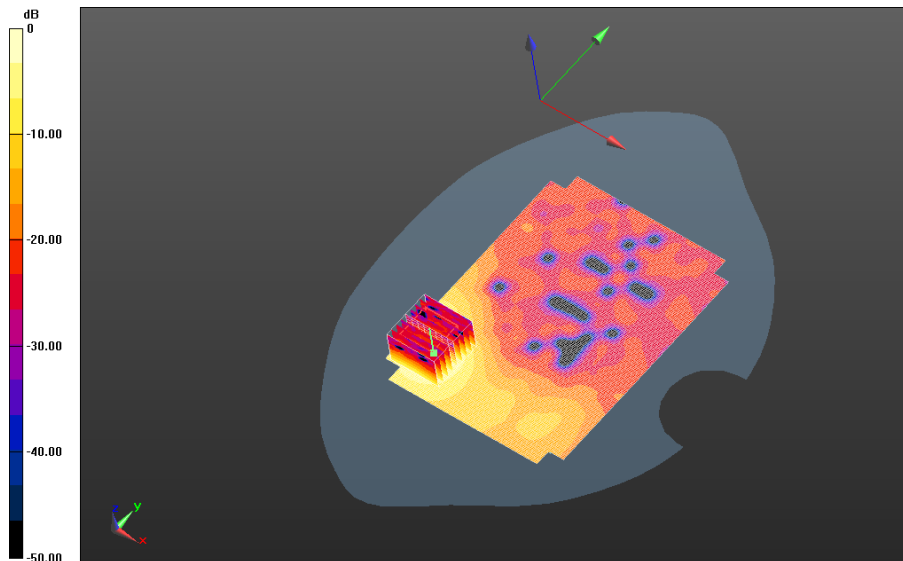
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**Body Worn MSL - 802.11a 5200 MHz/15mm Device Back - 802.11a\_chan64\_low\_band\_Amb\_Temp\_23.3C\_Liquid\_Temp\_21.5C/Area Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Reference Value = 1.746 V/m; **Power Drift = 0.125 dB**

**Fast SAR: SAR(1g) = 0.818 W/kg; SAR(10g) = 0.302 W/kg**  
Maximum value of SAR (interpolated) = 1.61 W/kg


**Body Worn MSL - 802.11a 5200 MHz/15mm Device Back - 802.11a\_chan64\_low\_band\_Amb\_Temp\_23.3C\_Liquid\_Temp\_21.5C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 1.746 V/m; **Power Drift = 0.125 dB**

**Averaged SAR: SAR(1g) = 0.874 W/kg; SAR(10g) = 0.321 W/kg**  
Maximum value of SAR (interpolated) = 3.27 W/kg



0 dB = 1.60 W/kg = 2.04 dBW/kg



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Date: 5/28/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40**

**Configuration: Body Worn MSL - 802.11a 5500 MHz**

Communication System: 802.11a; Communication System Band: Low and Mid Bands;

Frequency: 5520 MHz

Medium Parameters used:  $f=5520$  MHz;  $\sigma = 5.940$  S/m;  $\epsilon_r = 46.367$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.33,4.33,4.33); Calibrated: 1/17/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

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

**802.11a\_chan104\_upper\_bandI\_Amb\_Temp\_23.0C\_Liquid\_Temp\_21.4C/Area**

**Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 2.394 V/m; **Power Drift = -0.436 dB**

**Fast SAR: SAR(1g) = 0.796 W/kg; SAR(10g) = 0.302 W/kg**

Maximum value of SAR (interpolated) = 1.56 W/kg

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

**802.11a\_chan104\_upper\_bandI\_Amb\_Temp\_23.0C\_Liquid\_Temp\_21.4C/Zoom Scan**

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

Reference Value = 2.394 V/m; **Power Drift = -0.436 dB**

**Averaged SAR: SAR(1g) = 0.828 W/kg; SAR(10g) = 0.315 W/kg**

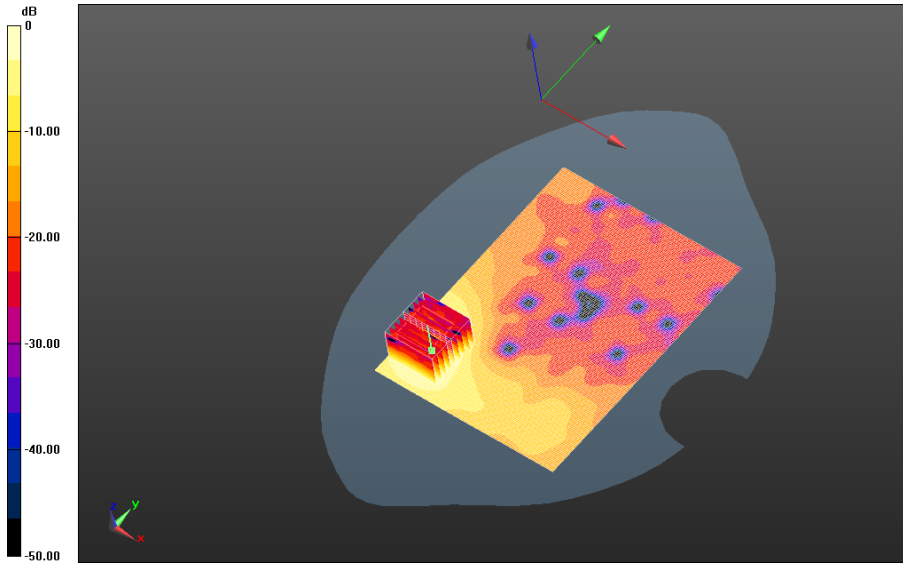
Maximum value of SAR (interpolated) = 3.01 W/kg

Author Data  
**Andrew Becker**


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FCC ID:  
**L6ARGY180LW**



0 dB = 1.52 W/kg = 1.82 dBW/kg

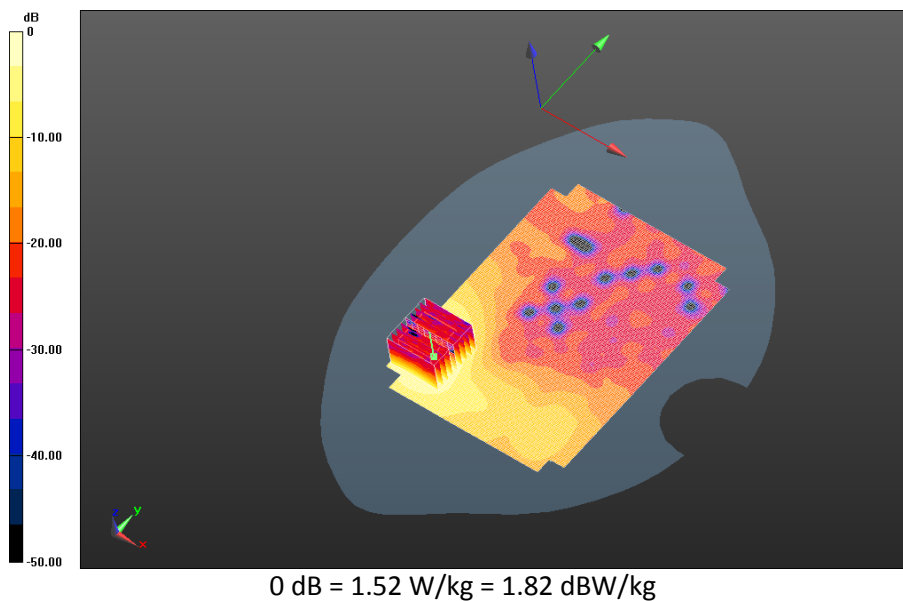
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**Body Worn MSL - 802.11a 5500 MHz/15mm Device Back - 802.11a\_chan116\_upper\_bandI\_Amb\_Temp\_23.3C\_Liquid\_Temp\_21.6C/Area Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Reference Value = 2.043 V/m; **Power Drift = 0.092 dB**

**Fast SAR: SAR(1g) = 0.942 W/kg; SAR(10g) = 0.355 W/kg**  
Maximum value of SAR (interpolated) = 1.86 W/kg

**Body Worn MSL - 802.11a 5500 MHz/15mm Device Back - 802.11a\_chan116\_upper\_bandI\_Amb\_Temp\_23.3C\_Liquid\_Temp\_21.6C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 2.043 V/m; **Power Drift = 0.092 dB**

**Averaged SAR: SAR(1g) = 0.981 W/kg; SAR(10g) = 0.372 W/kg**  
Maximum value of SAR (interpolated) = 3.66 W/kg



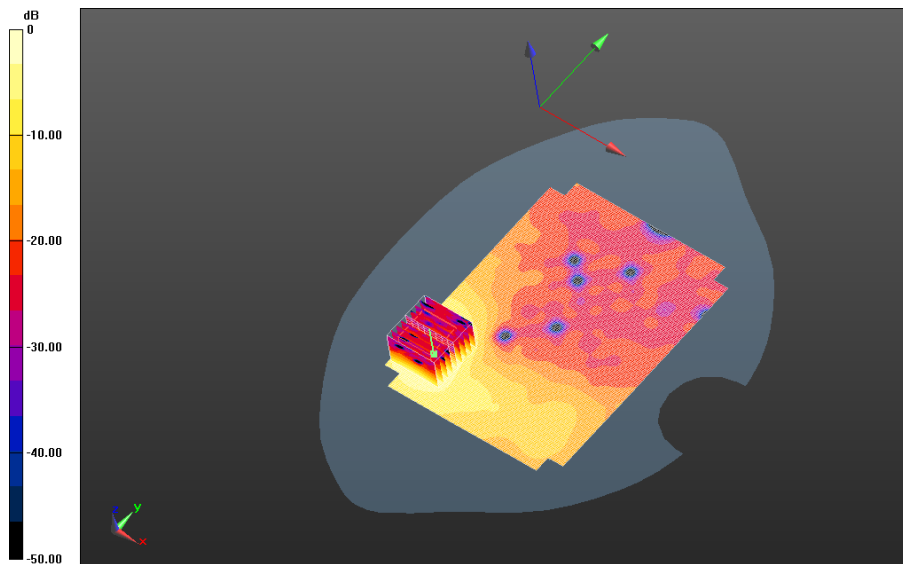
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**Body Worn MSL - 802.11a 5500 MHz/15mm Device Back - 802.11a\_chan124\_upper\_bandI\_Amb\_Temp\_22.9C\_Liquid\_Temp\_21.3C/Area Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Reference Value = 2.185 V/m; **Power Drift = -0.020 dB**


**Fast SAR: SAR(1g) = 1.05 W/kg; SAR(10g) = 0.394 W/kg**  
Maximum value of SAR (interpolated) = 2.10 W/kg

**Body Worn MSL - 802.11a 5500 MHz/15mm Device Back - 802.11a\_chan124\_upper\_bandI\_Amb\_Temp\_22.9C\_Liquid\_Temp\_21.3C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 2.185 V/m; **Power Drift = -0.020 dB**

**Averaged SAR: SAR(1g) = 1.11 W/kg; SAR(10g) = 0.421 W/kg**  
Maximum value of SAR (interpolated) = 4.17 W/kg



0 dB = 1.84 W/kg = 2.65 dBW/kg

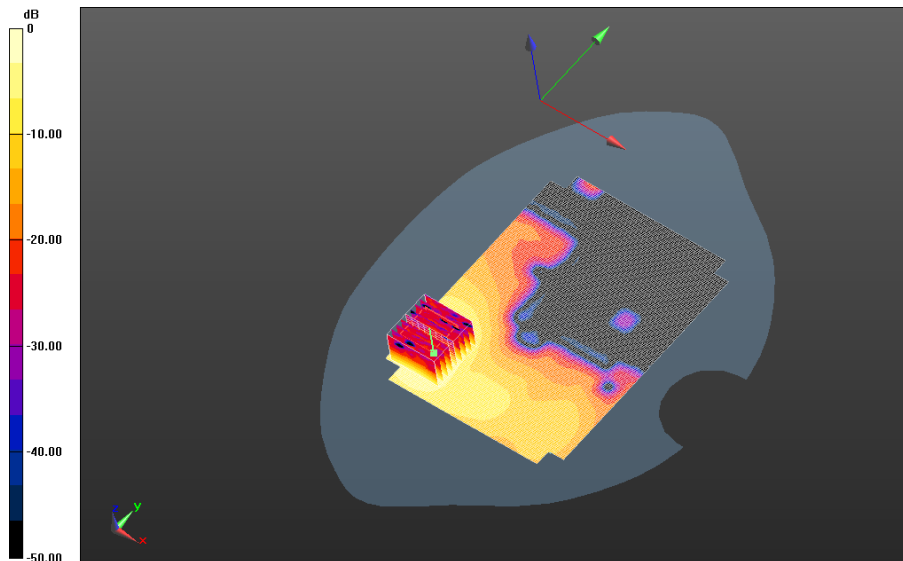
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**Body Worn MSL - 802.11a 5500 MHz/15mm Device Back -**  
**802.11a\_chan136\_upper\_bandI\_Amb\_Temp\_23.2C\_Liquid\_Temp\_22.0C/Area**  
**Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Reference Value = 1.685 V/m; **Power Drift = 0.457 dB**


**Fast SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.396 W/kg**  
Maximum value of SAR (interpolated) = 2.03 W/kg

**Body Worn MSL - 802.11a 5500 MHz/15mm Device Back -**  
**802.11a\_chan136\_upper\_bandI\_Amb\_Temp\_23.2C\_Liquid\_Temp\_22.0C/Zoom Scan**  
**(41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 1.685 V/m; **Power Drift = 0.457 dB**

**Averaged SAR: SAR(1g) = 1.10 W/kg; SAR(10g) = 0.416 W/kg**  
Maximum value of SAR (interpolated) = 4.14 W/kg



0 dB = 2.05 W/kg = 3.12 dBW/kg

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Date: 5/28/2014

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF3D40**

**Configuration: Body Worn MSL - 802.11a 5800 MHz**

Communication System: 802.11a; Communication System Band: Low and Mid Bands;

Frequency: 5745 MHz

Medium Parameters used:  $f=5745$  MHz;  $\sigma = 6.271$  S/m;  $\epsilon_r = 45.931$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.36,4.36,4.36); Calibrated: 1/17/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

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

**802.11a\_chan149\_upper\_bandII\_Amb\_Temp\_23.1C\_Liquid\_Temp\_22.0C/Area**

**Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 1.771 V/m; **Power Drift = 0.220 dB**

**Fast SAR: SAR(1g) = 1.12 W/kg; SAR(10g) = 0.417 W/kg**

Maximum value of SAR (interpolated) = 2.21 W/kg

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

**802.11a\_chan149\_upper\_bandII\_Amb\_Temp\_23.1C\_Liquid\_Temp\_22.0C/Zoom Scan**

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

Reference Value = 1.771 V/m; **Power Drift = 0.220 dB**

**Averaged SAR: SAR(1g) = 1.18 W/kg; SAR(10g) = 0.441 W/kg**

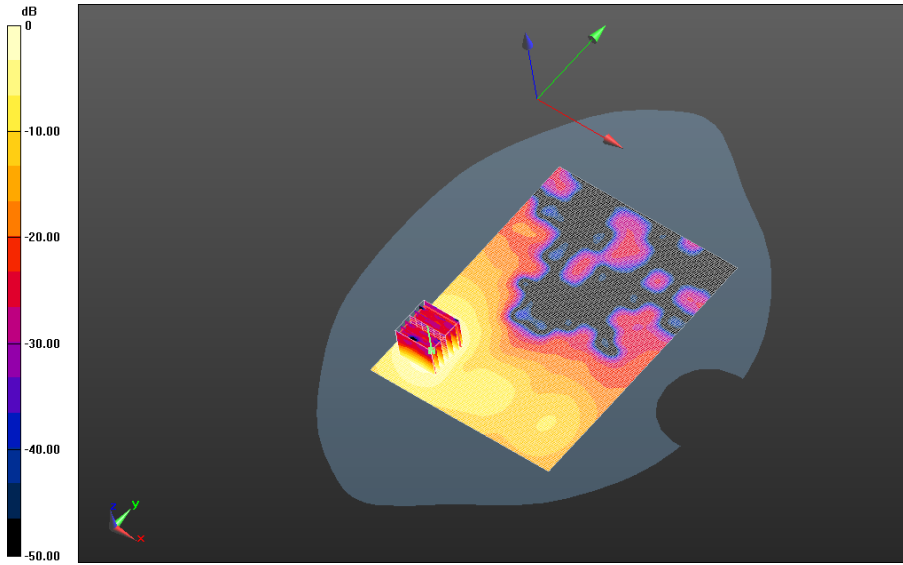
Maximum value of SAR (interpolated) = 4.58 W/kg

Author Data  
**Andrew Becker**


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0 dB = 2.25 W/kg = 3.52 dBW/kg

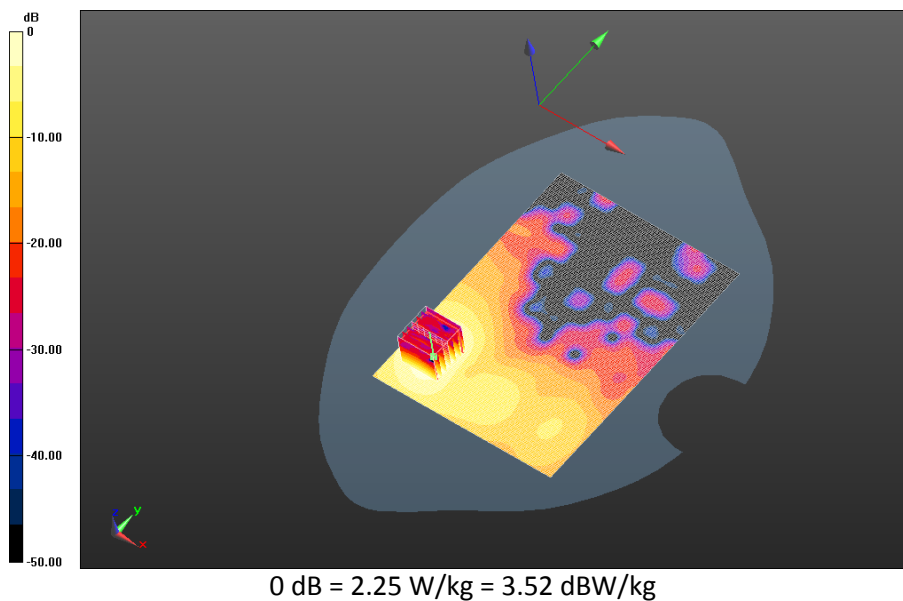
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**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back - 802.11a\_chan157\_upper\_bandII\_Amb\_Temp\_23.0C\_Liquid\_Temp\_22.0C/Area Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Reference Value = 1.855 V/m; **Power Drift = 0.274 dB**


**Fast SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.382 W/kg**  
Maximum value of SAR (interpolated) = 2.03 W/kg

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back - 802.11a\_chan157\_upper\_bandII\_Amb\_Temp\_23.0C\_Liquid\_Temp\_22.0C/Zoom Scan (31x31x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 1.855 V/m; **Power Drift = 0.274 dB**

**Averaged SAR: SAR(1g) = 1.06 W/kg; SAR(10g) = 0.397 W/kg**  
Maximum value of SAR (interpolated) = 4.16 W/kg





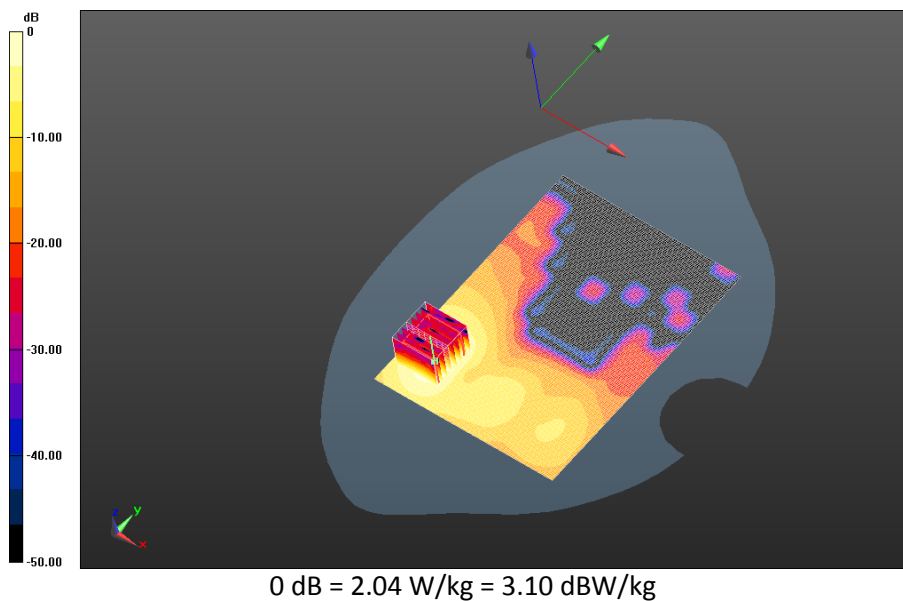
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**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back -**  
**802.11a\_chan165\_upper\_bandII\_Amb\_Temp\_22.8C\_Liquid\_Temp\_21.9C/Area**  
**Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Reference Value = 2.176 V/m; **Power Drift = 0.064 dB**

**Fast SAR: SAR(1g) = 0.955 W/kg; SAR(10g) = 0.352 W/kg**  
Maximum value of SAR (interpolated) = 1.89 W/kg

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back -**  
**802.11a\_chan165\_upper\_bandII\_Amb\_Temp\_22.8C\_Liquid\_Temp\_21.9C/Zoom Scan**  
**(36x36x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 2.176 V/m; **Power Drift = 0.064 dB**

**Averaged SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.378 W/kg**  
Maximum value of SAR (interpolated) = 4.14 W/kg



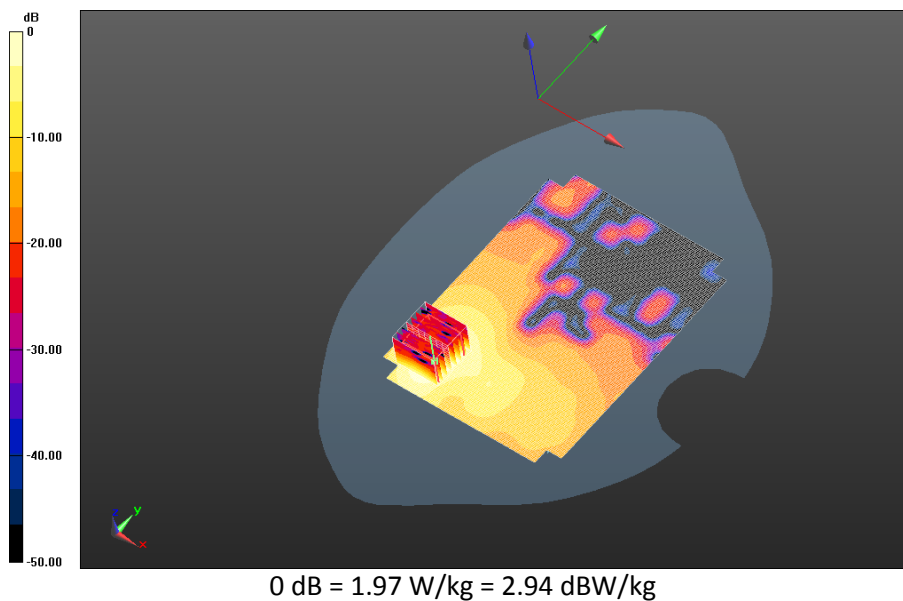
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**Body Worn MSL - 802.11a 5800 MHz/Headset 15mm Device Back - 802.11a\_chan149\_upper\_bandII\_Amb\_Temp\_23.4C\_Liquid\_Temp\_21.7C/Area Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Reference Value = 2.042 V/m; **Power Drift = -0.093 dB**

**Fast SAR: SAR(1g) = 0.547 W/kg; SAR(10g) = 0.206 W/kg**  
Maximum value of SAR (interpolated) = 1.09 W/kg

**Body Worn MSL - 802.11a 5800 MHz/Headset 15mm Device Back - 802.11a\_chan149\_upper\_bandII\_Amb\_Temp\_23.4C\_Liquid\_Temp\_21.7C/Zoom Scan (36x36x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 2.042 V/m; **Power Drift = -0.093 dB**

**Averaged SAR: SAR(1g) = 0.574 W/kg; SAR(10g) = 0.216 W/kg**  
Maximum value of SAR (interpolated) = 2.23 W/kg



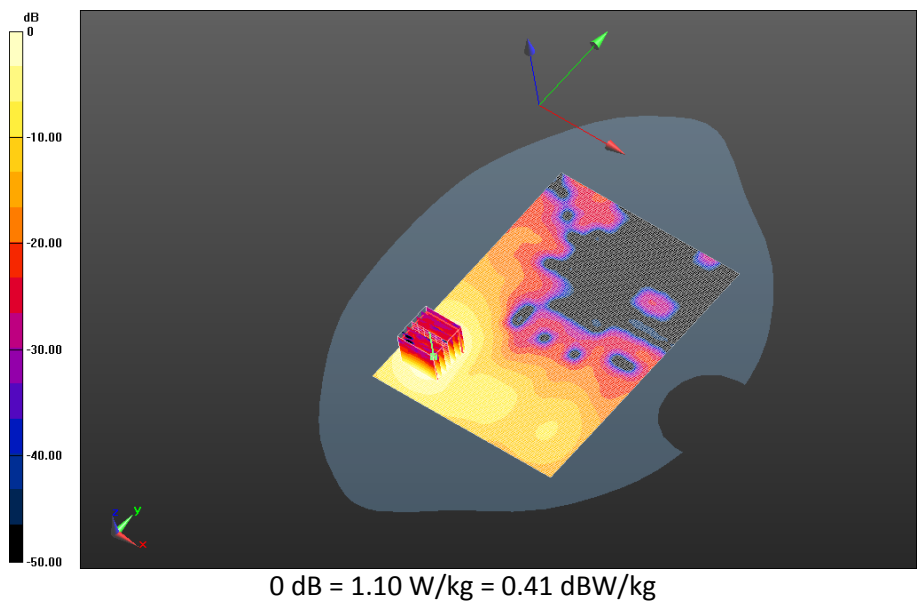
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RGY181LW</b> <b>SAR Report</b>		Page <b>99(103)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>April 15 – June 13, 2014</b>	Test Report No <b>RTS-6057-1405-01</b>


**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back 2nd Scan - 802.11a\_chan149\_upper\_bandII\_Amb\_Temp\_22.9C\_Liquid\_Temp\_21.9C/Area Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
 Reference Value = 1.693 V/m; **Power Drift = -0.087 dB**

**Fast SAR: SAR(1g) = 1.10 W/kg; SAR(10g) = 0.413 W/kg**  
 Maximum value of SAR (interpolated) = 2.17 W/kg

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back 2nd Scan - 802.11a\_chan149\_upper\_bandII\_Amb\_Temp\_22.9C\_Liquid\_Temp\_21.9C/Zoom Scan (31x31x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
 Reference Value = 1.693 V/m; **Power Drift = -0.087 dB**

**Averaged SAR: SAR(1g) = 1.18 W/kg; SAR(10g) = 0.441 W/kg**  
 Maximum value of SAR (interpolated) = 4.63 W/kg



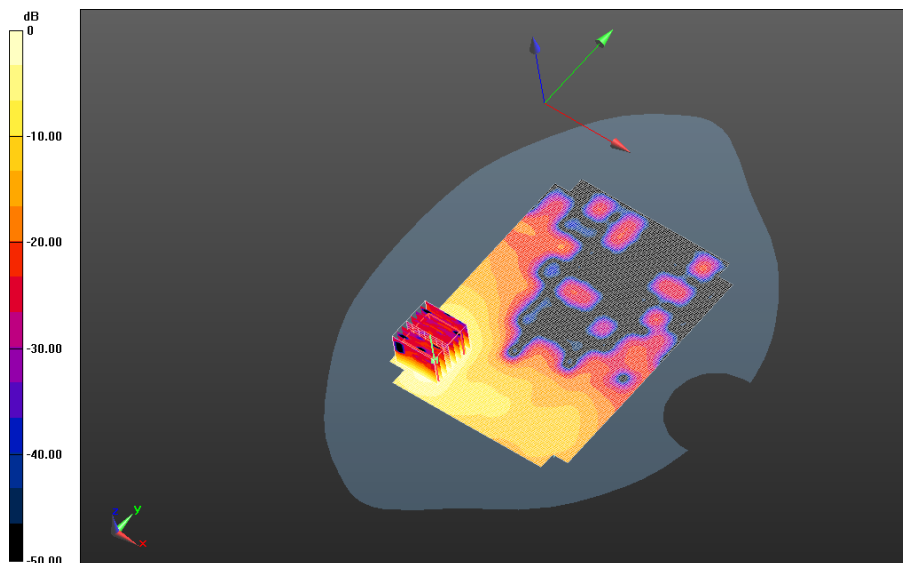
	Document <b>Appendix C1 for the BlackBerry® Smartphone Model RGY181LW</b> <b>SAR Report</b>			Page <b>100(103)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>April 15 – June 13, 2014</b>	Test Report No <b>RTS-6057-1405-01</b>	FCC ID: <b>L6ARGY180LW</b>


**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back - 802.11ac\_chan149\_BW20\_upper\_bandII\_Amb\_Temp\_23.0C\_Liquid\_Temp\_21.4C/ Area Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Reference Value = 2.119 V/m; **Power Drift = -0.411 dB**

**Fast SAR: SAR(1g) = 0.890 W/kg; SAR(10g) = 0.329 W/kg**  
Maximum value of SAR (interpolated) = 1.76 W/kg

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back - 802.11ac\_chan149\_BW20\_upper\_bandII\_Amb\_Temp\_23.0C\_Liquid\_Temp\_21.4C/Zoo m Scan (36x36x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 2.119 V/m; **Power Drift = -0.411 dB**

**Averaged SAR: SAR(1g) = 0.917 W/kg; SAR(10g) = 0.341 W/kg**  
Maximum value of SAR (interpolated) = 3.66 W/kg



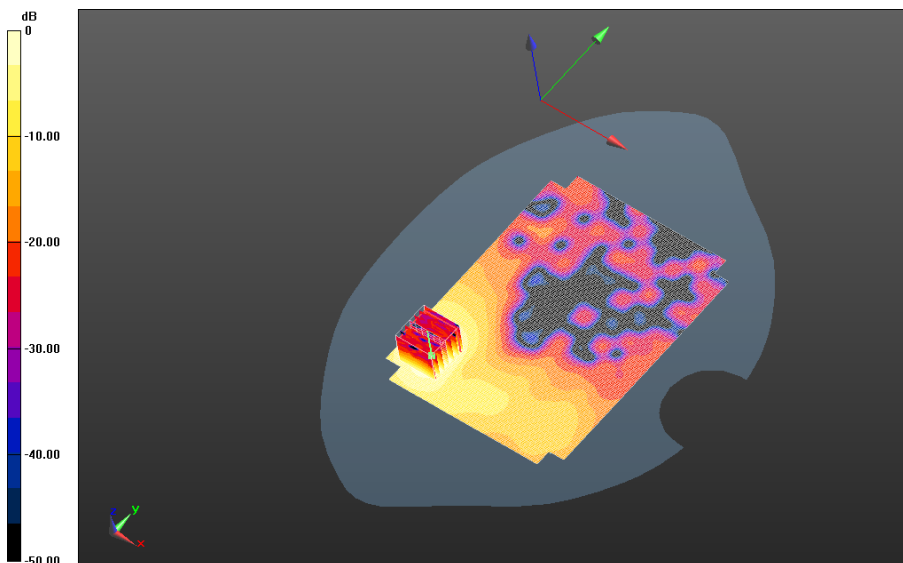
	Document <b>Appendix C1 for the BlackBerry® Smartphone Model RGY181LW</b> <b>SAR Report</b>			Page <b>101(103)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>April 15 – June 13, 2014</b>	Test Report No <b>RTS-6057-1405-01</b>	FCC ID: <b>L6ARGY180LW</b>

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back - 802.11ac\_chan149\_BW40\_upper\_bandII\_Amb\_Temp\_23.2C\_Liquid\_Temp\_21.8C/ Area Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Reference Value = 1.811 V/m; **Power Drift = 0.147 dB**


**Fast SAR: SAR(1g) = 0.561 W/kg; SAR(10g) = 0.208 W/kg**  
Maximum value of SAR (interpolated) = 1.11 W/kg

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back - 802.11ac\_chan149\_BW40\_upper\_bandII\_Amb\_Temp\_23.2C\_Liquid\_Temp\_21.8C/Zoo m Scan (31x31x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 1.811 V/m; **Power Drift = 0.147 dB**

**Averaged SAR: SAR(1g) = 0.587 W/kg; SAR(10g) = 0.218 W/kg**  
Maximum value of SAR (interpolated) = 2.35 W/kg



0 dB = 1.71 W/kg = 2.33 dBW/kg

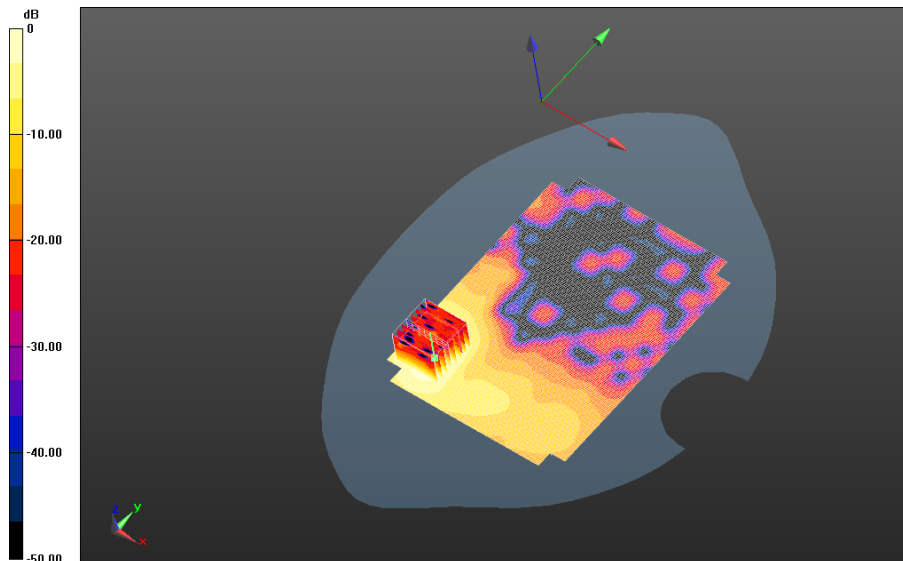
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	Author Data <b>Andrew Becker</b>	Dates of Test <b>April 15 – June 13, 2014</b>	Test Report No <b>RTS-6057-1405-01</b>	FCC ID: <b>L6ARGY180LW</b>

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back - 802.11ac\_chan149\_BW80\_upper\_bandII\_Amb\_Temp\_23.7C\_Liquid\_Temp\_21.9C/ Area Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Reference Value = 2.073 V/m; **Power Drift = 0.228 dB**


**Fast SAR: SAR(1g) = 0.372 W/kg; SAR(10g) = 0.136 W/kg**  
Maximum value of SAR (interpolated) = 0.740 W/kg

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back - 802.11ac\_chan149\_BW80\_upper\_bandII\_Amb\_Temp\_23.7C\_Liquid\_Temp\_21.9C/Zoo m Scan (36x36x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 2.073 V/m; **Power Drift = 0.228 dB**

**Averaged SAR: SAR(1g) = 0.392 W/kg; SAR(10g) = 0.145 W/kg**  
Maximum value of SAR (interpolated) = 1.57 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>April 15 – June 13, 2014</b>	Test Report No <b>RTS-6057-1405-01</b>	FCC ID: <b>L6ARGY180LW</b>

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Front -  
802.11a\_chan149\_upper\_bandII\_Amb\_Temp\_23.9C\_Liquid\_Temp\_22.0C/Area  
Scan (181x241x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Reference Value = 1.939 V/m; **Power Drift = 0.187 dB**

**Fast SAR: SAR(1g) = 0.0584 W/kg; SAR(10g) = 0.0182 W/kg**  
Maximum value of SAR (interpolated) = 0.156 W/kg

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Front -  
802.11a\_chan149\_upper\_bandII\_Amb\_Temp\_23.9C\_Liquid\_Temp\_22.0C/Zoom Scan  
(41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 1.939 V/m; **Power Drift = 0.187 dB**

**Averaged SAR: SAR(1g) = 0.0485 W/kg; SAR(10g) = 0.0171 W/kg**  
Maximum value of SAR (interpolated) = 0.183 W/kg

