

|                                                                                   |                                                                                        |                                           |                               |                      |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                      |

## APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

|                                                                                   |                                                                                        |                                           |                               |                      |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                      |

# DTM/GSM 850

|                                                                                   |                                                                                        |                                           |                               |                      |
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Date: 7/13/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

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

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

Medium Parameters used:  $f=836.8$  MHz;  $\sigma = 0.900$  S/m;  $\epsilon_r = 41.540$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

### **DASY Configuration:**

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

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

**GSM850\_chan190\_amb\_temp\_23.0C\_liq\_temp\_22.7C/Area Scan (61x101x1):** Interpolated

grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.004 V/m; **Power Drift = 0.037 dB**

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

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

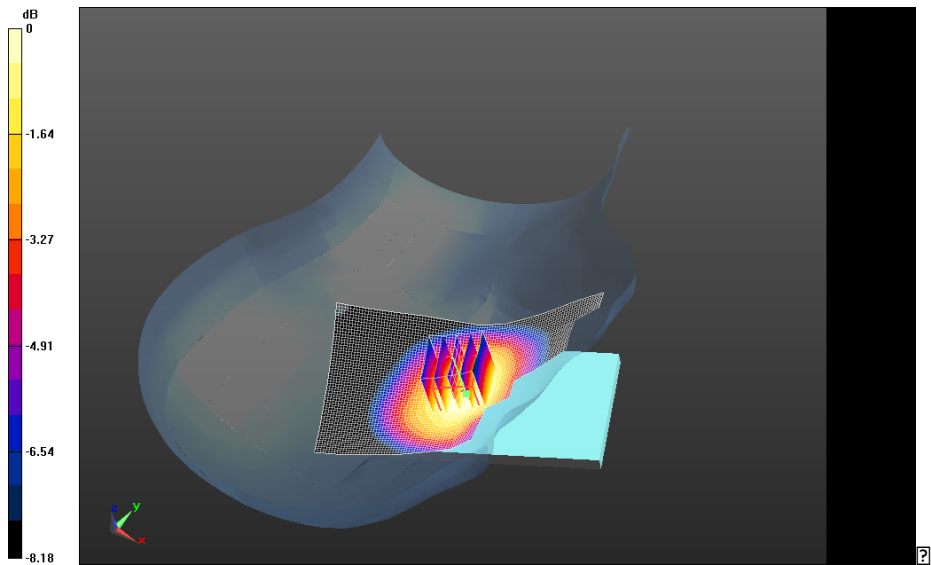
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.004 V/m; **Power Drift = 0.037 dB**

**Averaged SAR: SAR(1g) = 0.425 W/kg; SAR(10g) = 0.326 W/kg**

Maximum value of SAR (interpolated) = 0.522 W/kg

|                                                                                   |                                                                                        |                                           |                               |                      |
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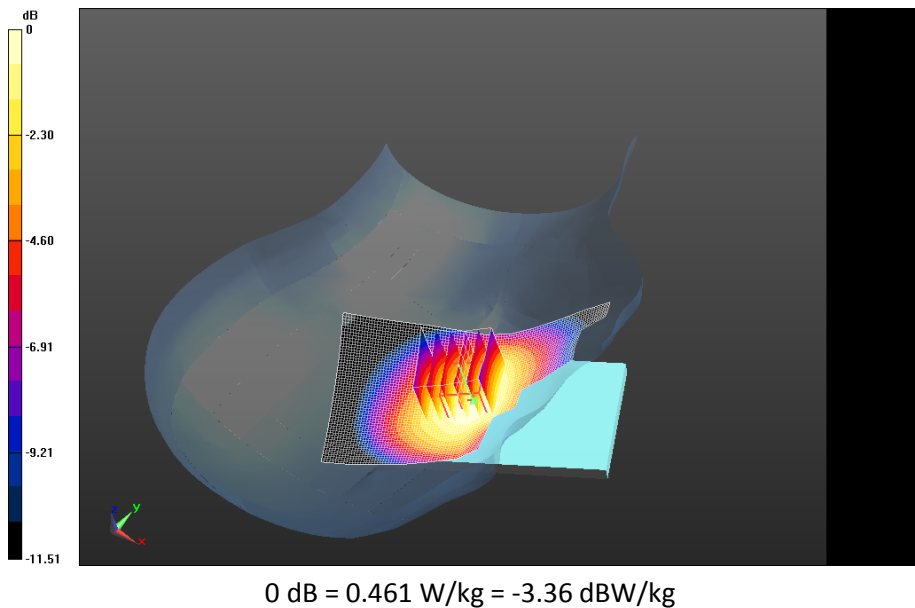
0 dB = 0.461 W/kg = -3.36 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                      |
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**Right-Hand-Side HSL - DTM 850/Touch Position - DTM850\_3-Slots\_chan190\_amb\_temp\_22.8C\_liq\_temp\_22.6C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.210 V/m; **Power Drift = 0.156 dB**

**Right-Hand-Side HSL - DTM 850/Touch Position - DTM850\_3-Slots\_chan190\_amb\_temp\_22.8C\_liq\_temp\_22.6C/Zoom Scan (26x26x36)/Cube 0:**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 8.210 V/m; **Power Drift = 0.156 dB**

**Averaged SAR: SAR(1g) = 0.548 W/kg; SAR(10g) = 0.421 W/kg**  
Maximum value of SAR (interpolated) = 0.672 W/kg



|                                                                                   |                                                                                        |                                           |                               |                      |
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**Right-Hand-Side HSL - DTM 850/Tilt Position - DTM850\_3-**

**Slots\_chan190\_amb\_temp\_23.0C\_liq\_temp\_22.7C/Area Scan (61x101x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 15.479 V/m; **Power Drift = -0.066 dB**

**Right-Hand-Side HSL - DTM 850/Tilt Position - DTM850\_3-**

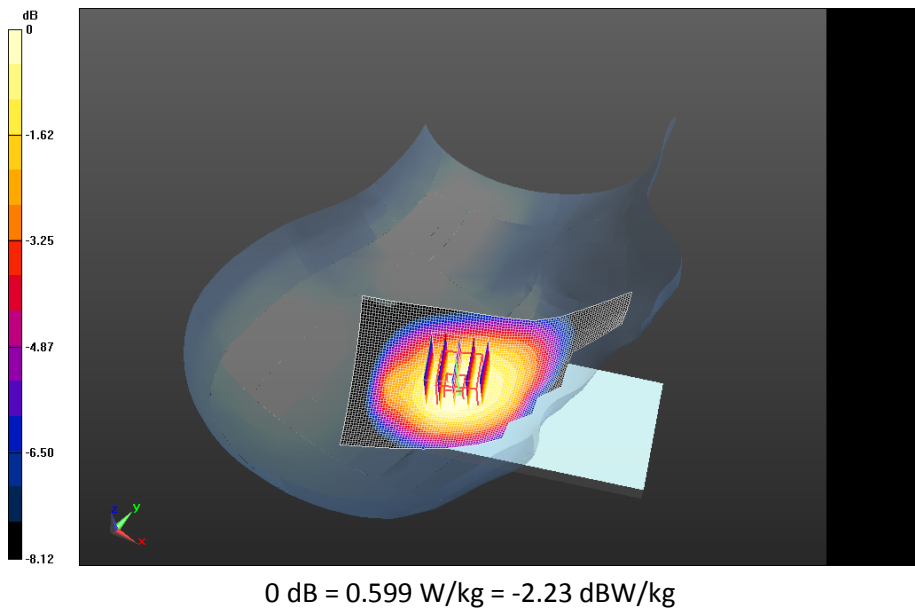
**Slots\_chan190\_amb\_temp\_23.0C\_liq\_temp\_22.7C/Zoom Scan (21x21x36)/Cube 0:**

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

Reference Value = 15.479 V/m; **Power Drift = -0.066 dB**

**Averaged SAR: SAR(1g) = 0.321 W/kg; SAR(10g) = 0.246 W/kg**

Maximum value of SAR (interpolated) = 0.397 W/kg



|                                                                                   |                                                                                        |                                           |                               |                      |
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Date: 7/13/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

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

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

Medium Parameters used:  $f=836.8$  MHz;  $\sigma = 0.900$  S/m;  $\epsilon_r = 41.540$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

#### **DASY Configuration:**

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

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

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

Reference Value = 6.737 V/m; **Power Drift = -0.020 dB**

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

**GSM850\_chan190\_amb\_temp\_23.2C\_liq\_temp\_22.7C/Zoom Scan (21x21x36)/Cube 0:**

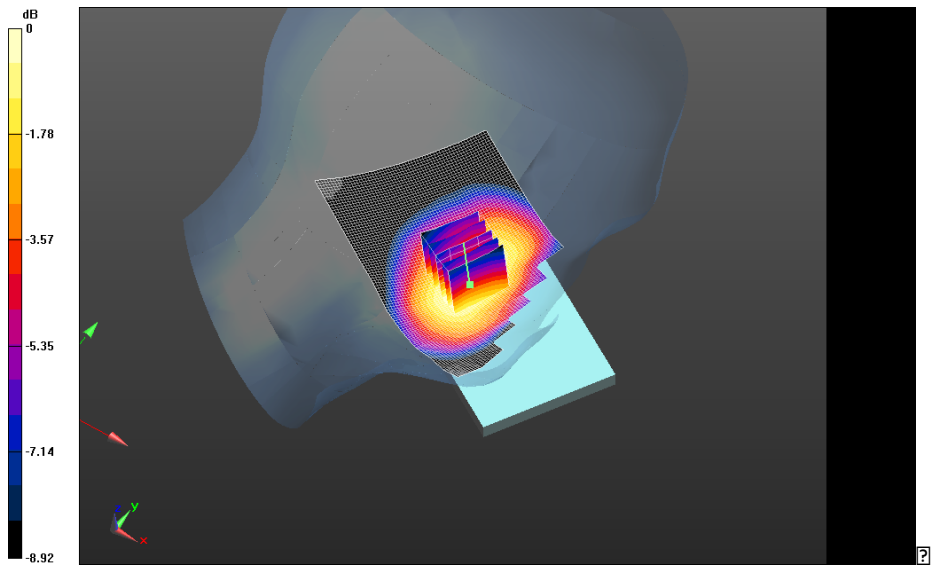
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.737 V/m; **Power Drift = -0.020 dB**

**Averaged SAR: SAR(1g) = 0.473 W/kg; SAR(10g) = 0.356 W/kg**

Maximum value of SAR (interpolated) = 0.605 W/kg

|                                                                                   |                                                                                        |                                           |                               |                      |
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0 dB = 0.524 W/kg = -2.81 dBW/kg

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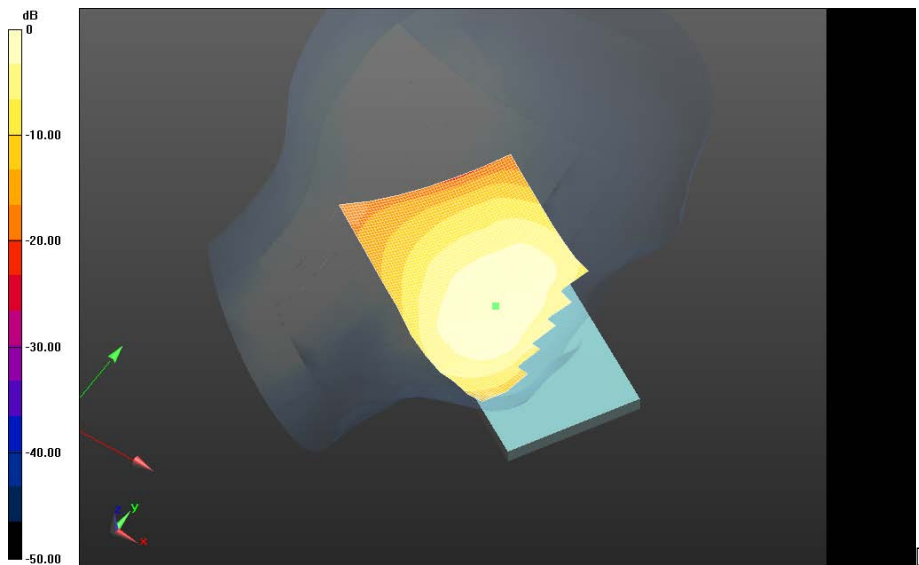
**Left-Hand-Side HSL - DTM 850/Touch Position -**

**DTM850\_chan190\_amb\_temp\_23.2C\_liq\_temp\_22.7C/Area Scan (61x101x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.369 V/m; **Power Drift = -0.044 dB**

**Fast SAR: SAR(1g) = 0.545 W/kg; SAR(10g) = 0.371 W/kg**

Maximum value of SAR (interpolated) = 0.624 W/kg



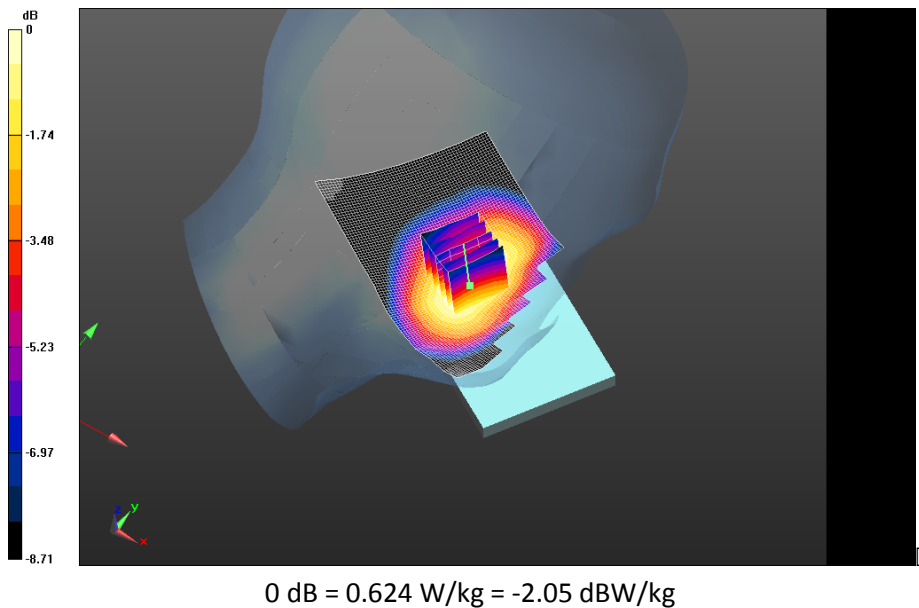
0 dB = 0.524 W/kg = -2.81 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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**Left-Hand-Side HSL - DTM 850/Touch Position - DTM850\_3-Slots\_chan190\_amb\_temp\_23.3C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 7.484 V/m; **Power Drift = -0.024 dB**

**Left-Hand-Side HSL - DTM 850/Touch Position - DTM850\_3-Slots\_chan190\_amb\_temp\_23.3C\_liq\_temp\_22.5C/Zoom Scan (21x21x36)/Cube 0:**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 7.484 V/m; **Power Drift = -0.024 dB**

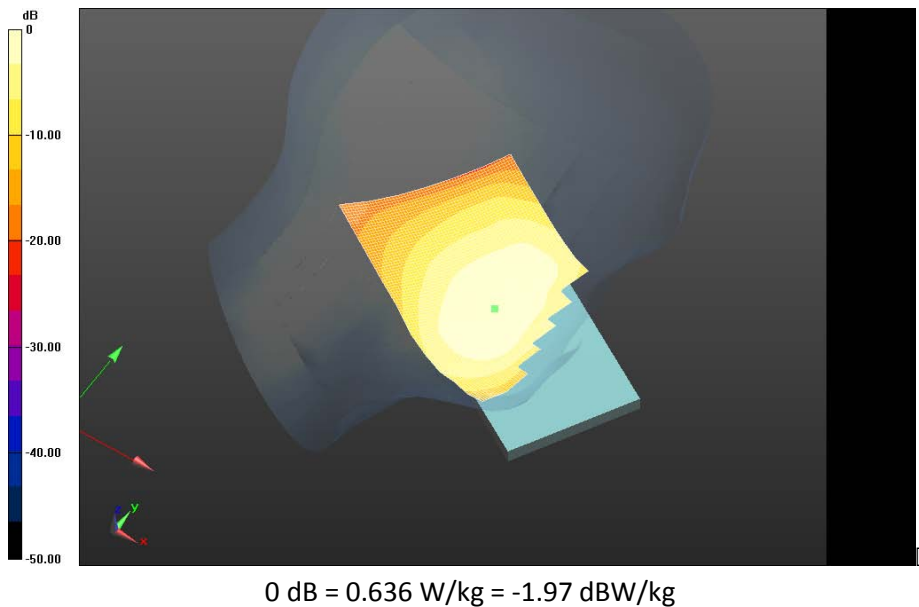
**Averaged SAR: SAR(1g) = 0.573 W/kg; SAR(10g) = 0.434 W/kg**  
Maximum value of SAR (interpolated) = 0.737 W/kg



|                                                                                   |                                                                                        |                                           |                               |                       |
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**Left-Hand-Side HSL - DTM 850/Touch Position - EDGE850\_4-**  
**Slots\_chan190\_amb\_temp\_22.7C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 7.192 V/m; **Power Drift = -0.060 dB**

**Fast SAR: SAR(1g) = 0.522 W/kg; SAR(10g) = 0.356 W/kg**  
Maximum value of SAR (interpolated) = 0.599 W/kg

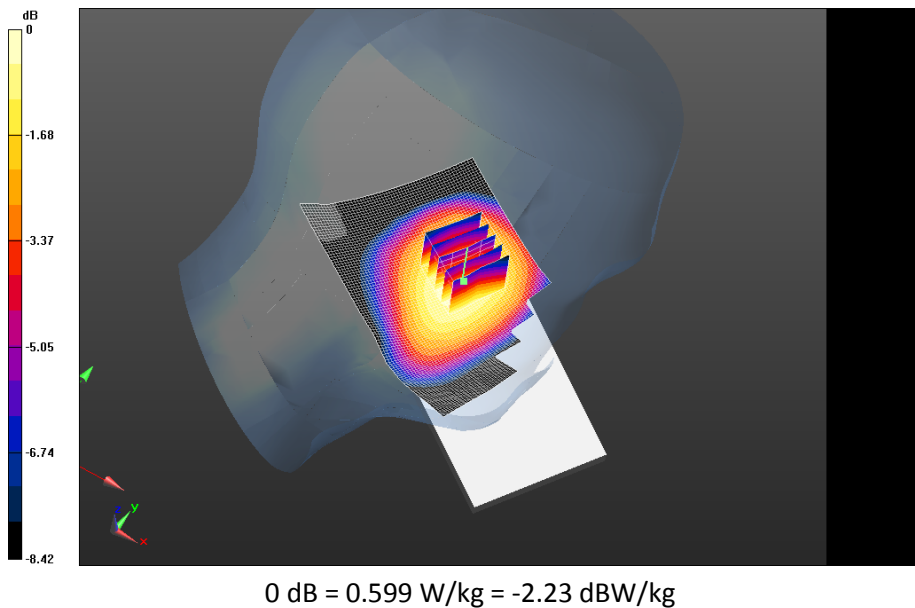


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**Left-Hand-Side HSL - DTM 850/Tilt Position - DTM850\_3-Slots\_chan190\_amb\_temp\_23.0C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 14.427 V/m; **Power Drift = 0.091 dB**

**Left-Hand-Side HSL - DTM 850/Tilt Position - DTM850\_3-Slots\_chan190\_amb\_temp\_23.0C\_liq\_temp\_22.5C/Zoom Scan (21x21x36)/Cube 0:**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 14.427 V/m; **Power Drift = 0.091 dB**

**Averaged SAR: SAR(1g) = 0.331 W/kg; SAR(10g) = 0.252 W/kg**  
Maximum value of SAR (interpolated) = 0.415 W/kg



|                                                                                   |                                                                                        |                                                  |                                           |                               |
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# UMTS Band V

|                                                                                   |                                                                                        |                                           |                               |                       |
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Date: 7/15/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

### **Configuration: Right-Hand-Side HSL - UMTS band V**

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

Frequency: 836.4 MHz

Medium Parameters used:  $f=836.4$  MHz;  $\sigma = 0.899$  S/m;  $\epsilon_r = 41.545$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

### **DASY Configuration:**

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

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

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

Reference Value = 6.556 V/m; **Power Drift = 0.075 dB**

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

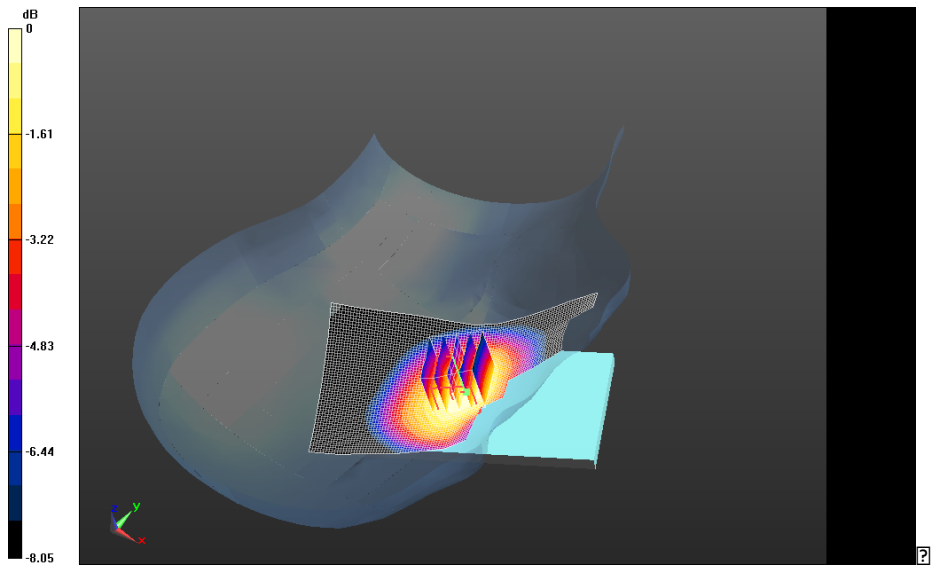
**\_amb\_temp\_23.6C\_liq\_temp\_23.0C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.556 V/m; **Power Drift = 0.075 dB**

**Averaged SAR: SAR(1g) = 0.390 W/kg; SAR(10g) = 0.299 W/kg**

Maximum value of SAR (interpolated) = 0.472 W/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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0 dB = 0.424 W/kg = -3.73 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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**Right-Hand-Side HSL - UMTS band V/Tilt Position - UMTS band**

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

dx=1.500 mm, dy=1.500 mm

Reference Value = 12.136 V/m; **Power Drift = 0.039 dB**

**Right-Hand-Side HSL - UMTS band V/Tilt Position - UMTS band**

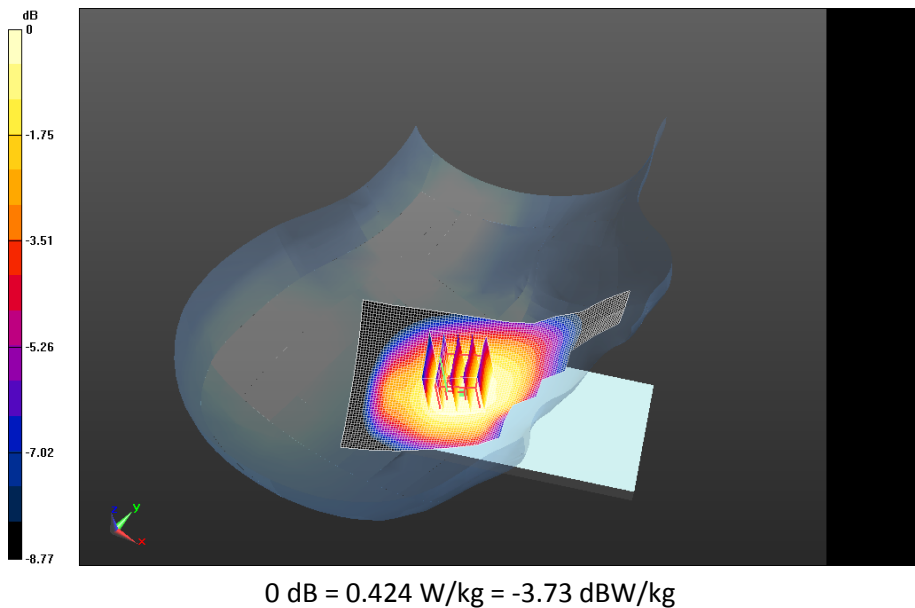
**V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_23.0C/Zoom Scan (21x21x36)/Cube 0:** Interpolated

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

Reference Value = 12.136 V/m; **Power Drift = 0.039 dB**

**Averaged SAR: SAR(1g) = 0.222 W/kg; SAR(10g) = 0.174 W/kg**

Maximum value of SAR (interpolated) = 0.270 W/kg



|                                                                                   |                                                                                        |                                           |                               |                       |
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Date: 7/15/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

### **Configuration: Left-Hand-Side HSL - UMTS band V**

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

Frequency: 836.4 MHz

Medium Parameters used:  $f=836.4$  MHz;  $\sigma = 0.899$  S/m;  $\epsilon_r = 41.545$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

#### **DASY Configuration:**

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

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

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

dx=1.500 mm, dy=1.500 mm

Reference Value = 6.804 V/m; **Power Drift = 0.056 dB**

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

**V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_23.0C/Zoom Scan (21x21x36)/Cube 0:** Interpolated

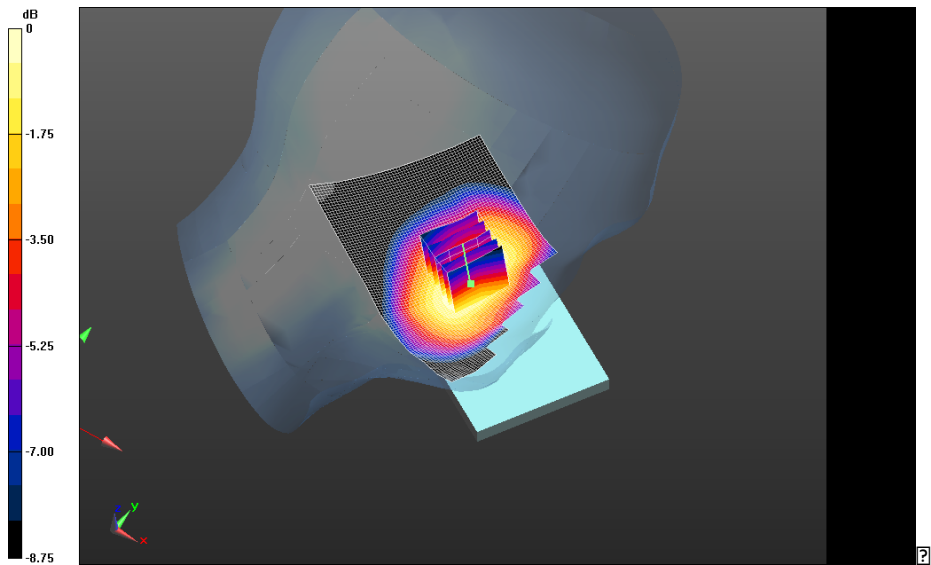
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.804 V/m; **Power Drift = 0.056 dB**

**Averaged SAR: SAR(1g) = 0.448 W/kg; SAR(10g) = 0.341 W/kg**

Maximum value of SAR (interpolated) = 0.557 W/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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0 dB = 0.493 W/kg = -3.07 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

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

**V\_chan4182\_amb\_temp\_23.4C\_liq\_temp\_23.0C/Area Scan (61x101x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 11.625 V/m; **Power Drift = 0.061 dB**

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

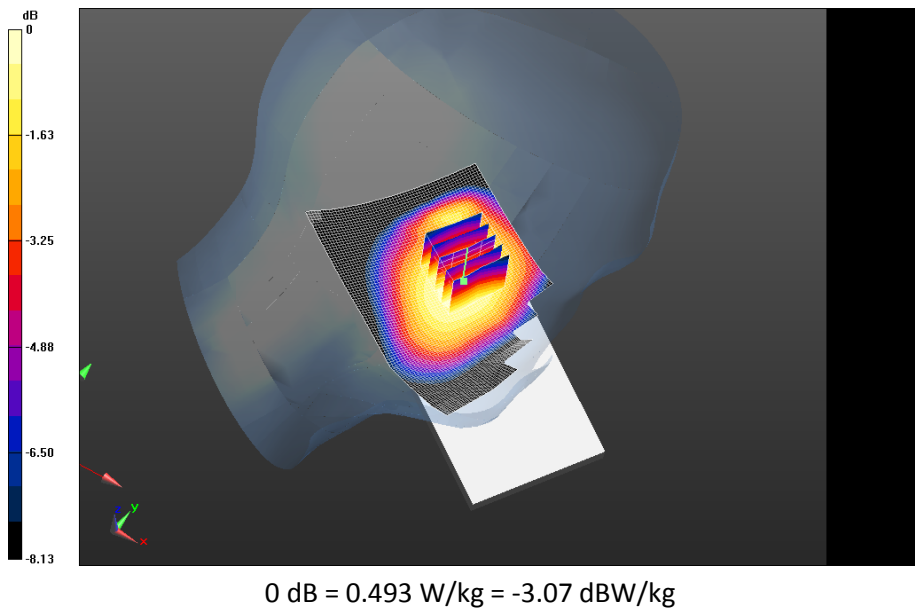
**V\_chan4182\_amb\_temp\_23.4C\_liq\_temp\_23.0C/Zoom Scan (21x21x36)/Cube 0:** Interpolated

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

Reference Value = 11.625 V/m; **Power Drift = 0.061 dB**

**Averaged SAR: SAR(1g) = 0.255 W/kg; SAR(10g) = 0.197 W/kg**

Maximum value of SAR (interpolated) = 0.312 W/kg



|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

# DTM/GSM 1900

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

Date: 7/8/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

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

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.524$  S/m;  $\epsilon_r = 50.997$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right 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 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

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

**GSM1900\_chan661\_amb\_temp\_24.1C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.277 V/m; **Power Drift = 0.060 dB**

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

**GSM1900\_chan661\_amb\_temp\_24.1C\_liq\_temp\_22.5C/Zoom Scan (21x21x36)/Cube 0:**

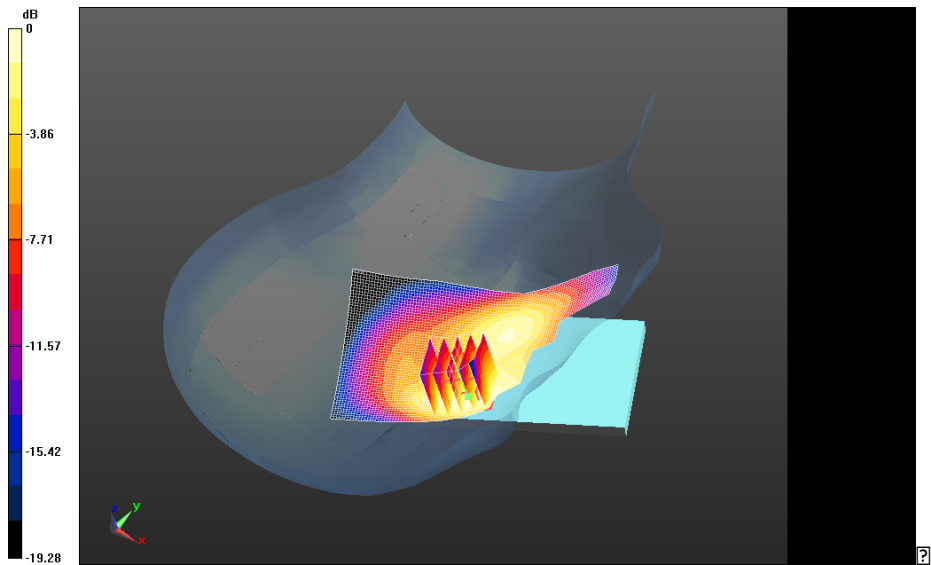
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 5.277 V/m; **Power Drift = 0.060 dB**

**Averaged SAR: SAR(1g) = 0.240 W/kg; SAR(10g) = 0.152 W/kg**

Maximum value of SAR (interpolated) = 0.352 W/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

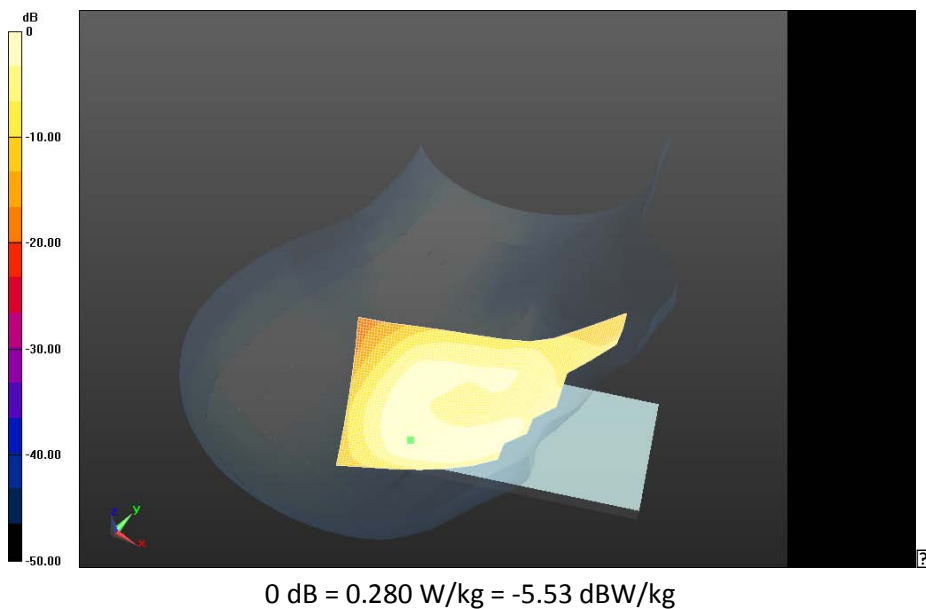


0 dB = 0.280 W/kg = -5.53 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

**Right-Hand-Side HSL - DTM 1900/Tilt Position -**  
**GSM1900\_chan661\_amb\_temp\_24.1C\_liq\_temp\_22.6C/Area Scan (61x101x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 7.482 V/m; **Power Drift = 0.050 dB**

**Fast SAR: SAR(1g) = 0.0922 W/kg; SAR(10g) = 0.0541 W/kg**  
Maximum value of SAR (interpolated) = 0.116 W/kg



|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

Date: 7/8/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

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

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.524$  S/m;  $\epsilon_r = 50.997$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left 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 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

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

**GSM1900\_chan661\_amb\_temp\_23.9C\_liq\_temp\_22.7C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.433 V/m; **Power Drift = -0.133 dB**

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

**GSM1900\_chan661\_amb\_temp\_23.9C\_liq\_temp\_22.7C/Zoom Scan (21x21x36)/Cube 0:**

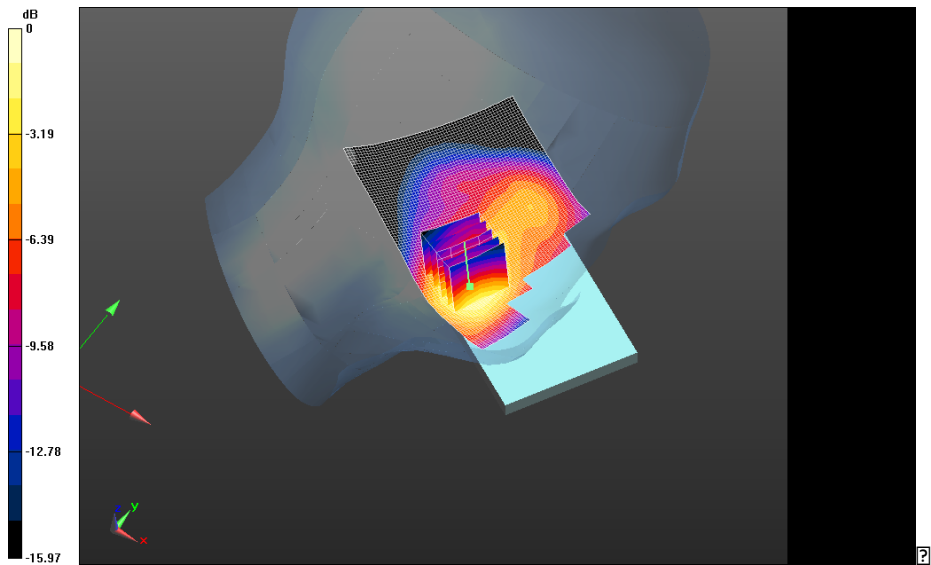
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 5.433 V/m; **Power Drift = -0.133 dB**

**Averaged SAR: SAR(1g) = 0.440 W/kg; SAR(10g) = 0.271 W/kg**

Maximum value of SAR (interpolated) = 0.661 W/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |



0 dB = 0.525 W/kg = -2.80 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

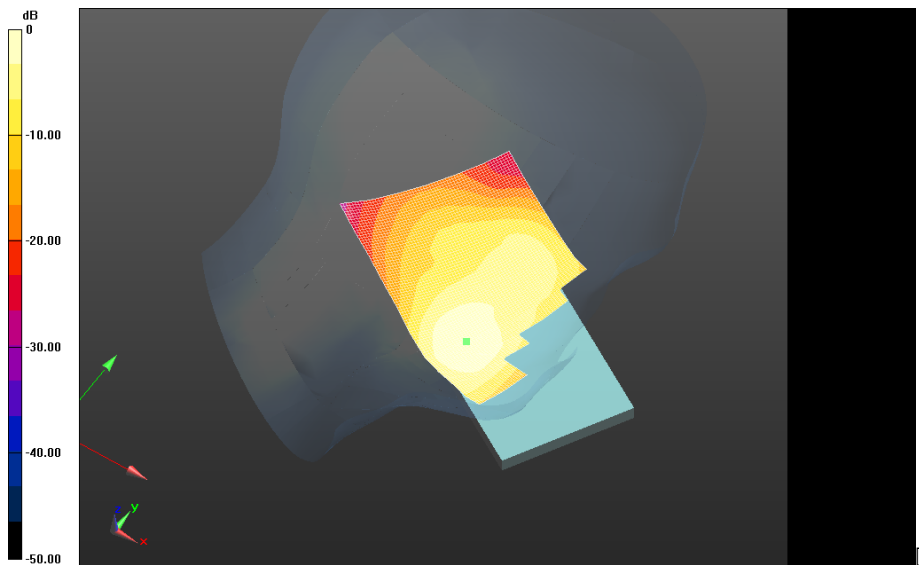
**Left-Hand-Side HSL - DTM 1900/Touch Position -**

**DTM1900\_chan661\_amb\_temp\_23.8C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.326 V/m; **Power Drift = 0.101 dB**

**Fast SAR: SAR(1g) = 0.410 W/kg; SAR(10g) = 0.238 W/kg**

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

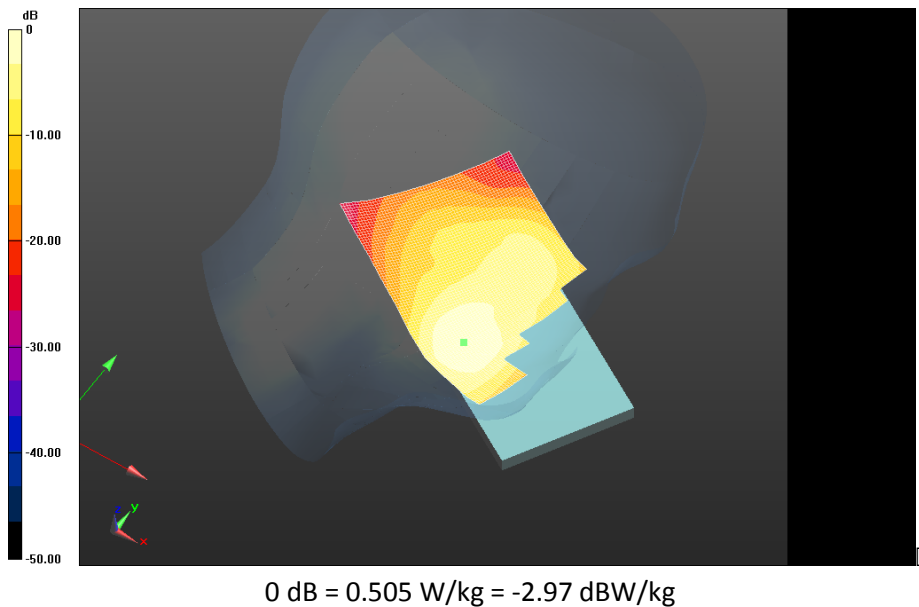


0 dB = 0.525 W/kg = -2.80 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

**Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900\_3-**  
**Slots\_chan661\_amb\_temp\_23.8C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 5.476 V/m; **Power Drift = 0.027 dB**

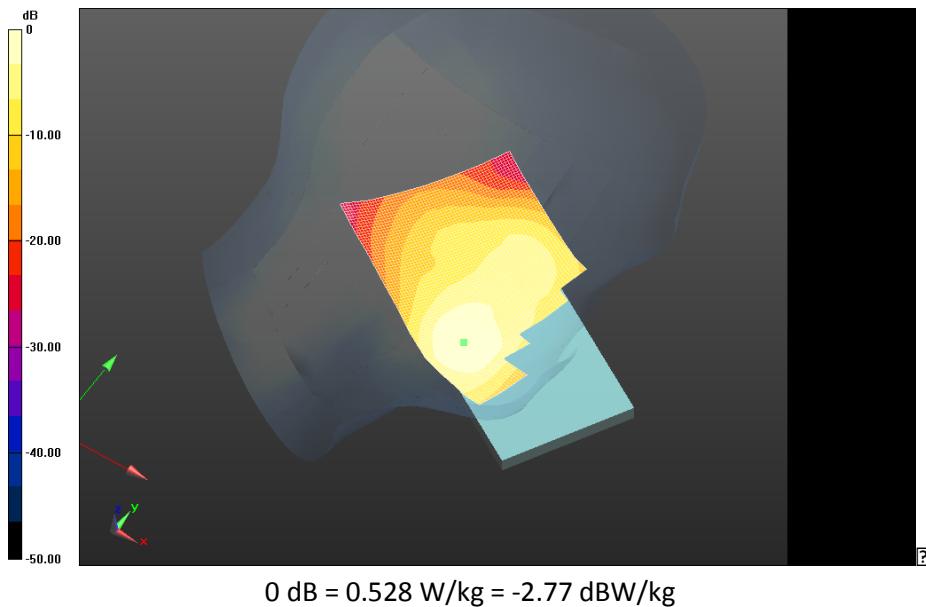
**Fast SAR: SAR(1g) = 0.428 W/kg; SAR(10g) = 0.248 W/kg**  
Maximum value of SAR (interpolated) = 0.528 W/kg



|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

**Left-Hand-Side HSL - DTM 1900/Touch Position - EDGE1900\_4-**  
**Slots\_chan661\_amb\_temp\_23.8C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 5.321 V/m; **Power Drift = -0.027 dB**

**Fast SAR: SAR(1g) = 0.399 W/kg; SAR(10g) = 0.231 W/kg**  
Maximum value of SAR (interpolated) = 0.492 W/kg



|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

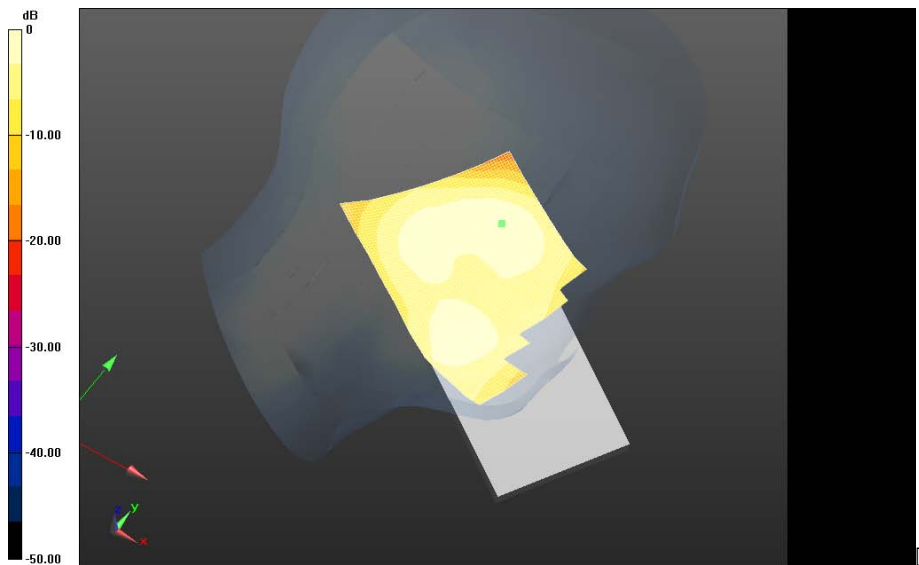
**Left-Hand-Side HSL - DTM 1900/Tilt Position -**

**GSM1900\_chan661\_amb\_temp\_23.8C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.711 V/m; **Power Drift = 0.019 dB**

**Fast SAR: SAR(1g) = 0.0909 W/kg; SAR(10g) = 0.0530 W/kg**

Maximum value of SAR (interpolated) = 0.113 W/kg



0 dB = 0.492 W/kg = -3.08 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

# UMTS Band II

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

Date: 7/5/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

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

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.387$  S/m;  $\epsilon_r = 38.747$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

### **DASY Configuration:**

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

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

**UMTS\_II\_chan9400\_amb\_temp\_23.4C\_liq\_temp\_21.8C/Area Scan (61x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.911 V/m; **Power Drift = 0.025 dB**

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

**UMTS\_II\_chan9400\_amb\_temp\_23.4C\_liq\_temp\_21.8C/Zoom Scan (26x26x36)/Cube 0:**

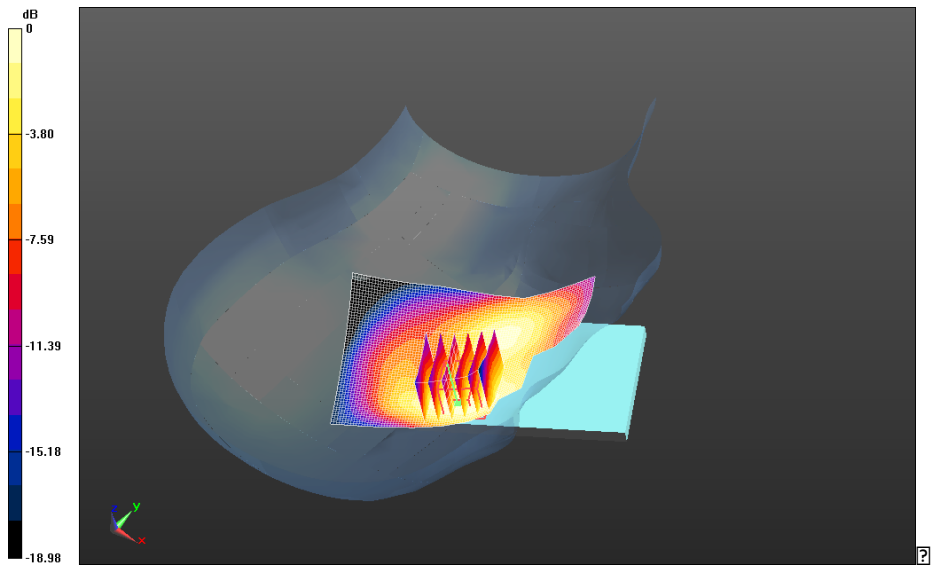
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.911 V/m; **Power Drift = 0.025 dB**

**Averaged SAR: SAR(1g) = 0.340 W/kg; SAR(10g) = 0.215 W/kg**

Maximum value of SAR (interpolated) = 0.511 W/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |



0 dB = 0.397 W/kg = -4.01 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

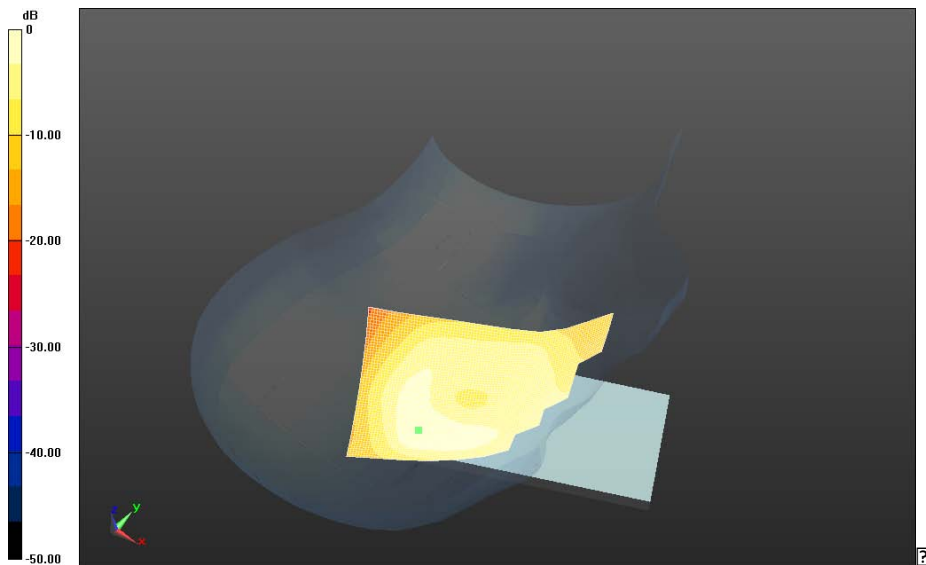
**Right-Hand-Side HSL - UMTS II/Tilt Position -**

**UMTS\_II\_chan9400\_amb\_temp\_23.2C\_liq\_temp\_21.8C/Area Scan (61x91x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 9.689 V/m; **Power Drift = 0.084 dB**

**Fast SAR: SAR(1g) = 0.168 W/kg; SAR(10g) = 0.0937 W/kg**

Maximum value of SAR (interpolated) = 0.220 W/kg



0 dB = 0.397 W/kg = -4.01 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

Date: 7/5/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

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

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.387$  S/m;  $\epsilon_r = 38.747$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

#### **DASY Configuration:**

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

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

**UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_21.9C/Area Scan (61x91x1):** Interpolated

grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.824 V/m; **Power Drift = 0.108 dB**

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

**UMTS\_II\_chan9400\_amb\_temp\_23.3C\_liq\_temp\_21.9C/Zoom Scan (21x21x36)/Cube 0:**

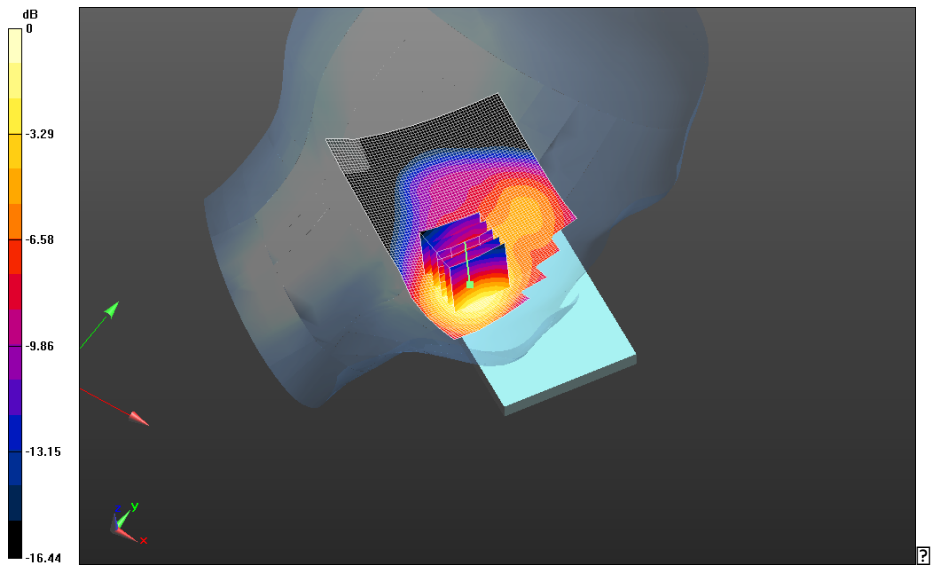
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.824 V/m; **Power Drift = 0.108 dB**

**Averaged SAR: SAR(1g) = 0.704 W/kg; SAR(10g) = 0.432 W/kg**

Maximum value of SAR (interpolated) = 1.07 W/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |



0 dB = 0.837 W/kg = -0.77 dBW/kg

|                                                                                  |                                                                     |                                    |                        |  |        |
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| Author Data<br>Andrew Becker                                                     | Dates of Test<br>July 02 –August 15, 2013                           | Test Report No<br>RTS-6046-1307-42 | FCC ID:<br>L6ARFW120LW |  |        |

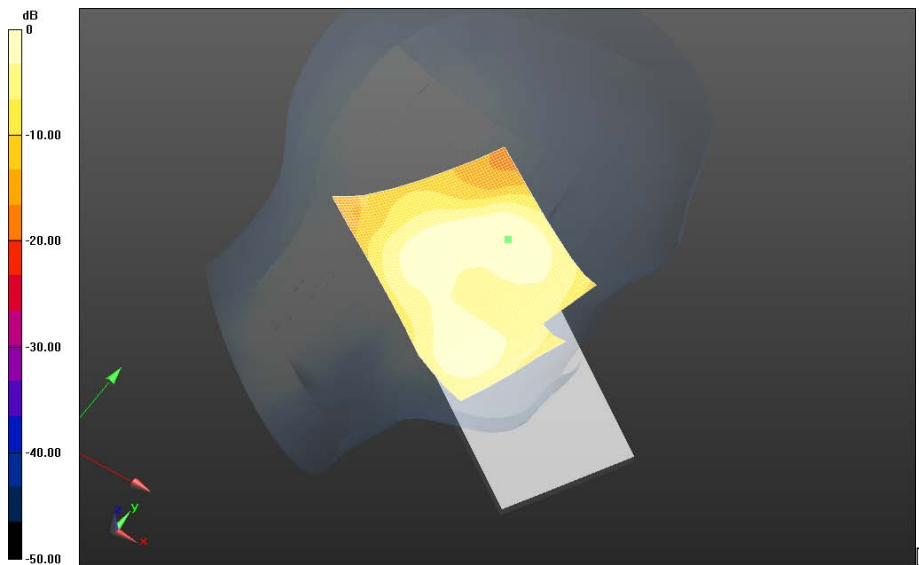
**Left-Hand-Side HSL - UMTS II/Tilt Position -**

**UMTS\_II\_chan9400\_amb\_temp\_23.1C\_liq\_temp\_21.9C/Area Scan (61x91x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 9.779 V/m; **Power Drift = -0.128 dB**

**Fast SAR: SAR(1g) = 0.139 W/kg; SAR(10g) = 0.0802 W/kg**

Maximum value of SAR (interpolated) = 0.177 W/kg



0 dB = 0.837 W/kg = -0.77 dBW/kg

|                                                                                   |                                                                                        |                                                  |                                           |                               |
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|  | Document<br><b>Appendix B for the BlackBerry® Smartphone Model RFW121LW SAR Report</b> |                                                  |                                           | Page<br><b>37(69)</b>         |
|                                                                                   | Author Data<br><b>Andrew Becker</b>                                                    | Dates of Test<br><b>July 02 –August 15, 2013</b> | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |

Test Laboratory: RIM Testing Services

## SAR\_UMTS\_II

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2FFFE461**

Communication System: UID 0 - n/a, WCDMA FDD II; Frequency: 1852.4 MHz,  
Frequency: 1907.6 MHz  
Medium parameters used (interpolated):  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.335 \text{ S/m}$ ;  $\epsilon_r = 38.361$ ;  $\rho = 1000 \text{ kg/m}^3$ , Medium parameters used (interpolated):  $f = 1907.6 \text{ MHz}$ ;  $\sigma = 1.385 \text{ S/m}$ ;  $\epsilon_r = 38.153$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.35, 5.35, 5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.6(1115); SEMCAD X 14.6.9(7117)

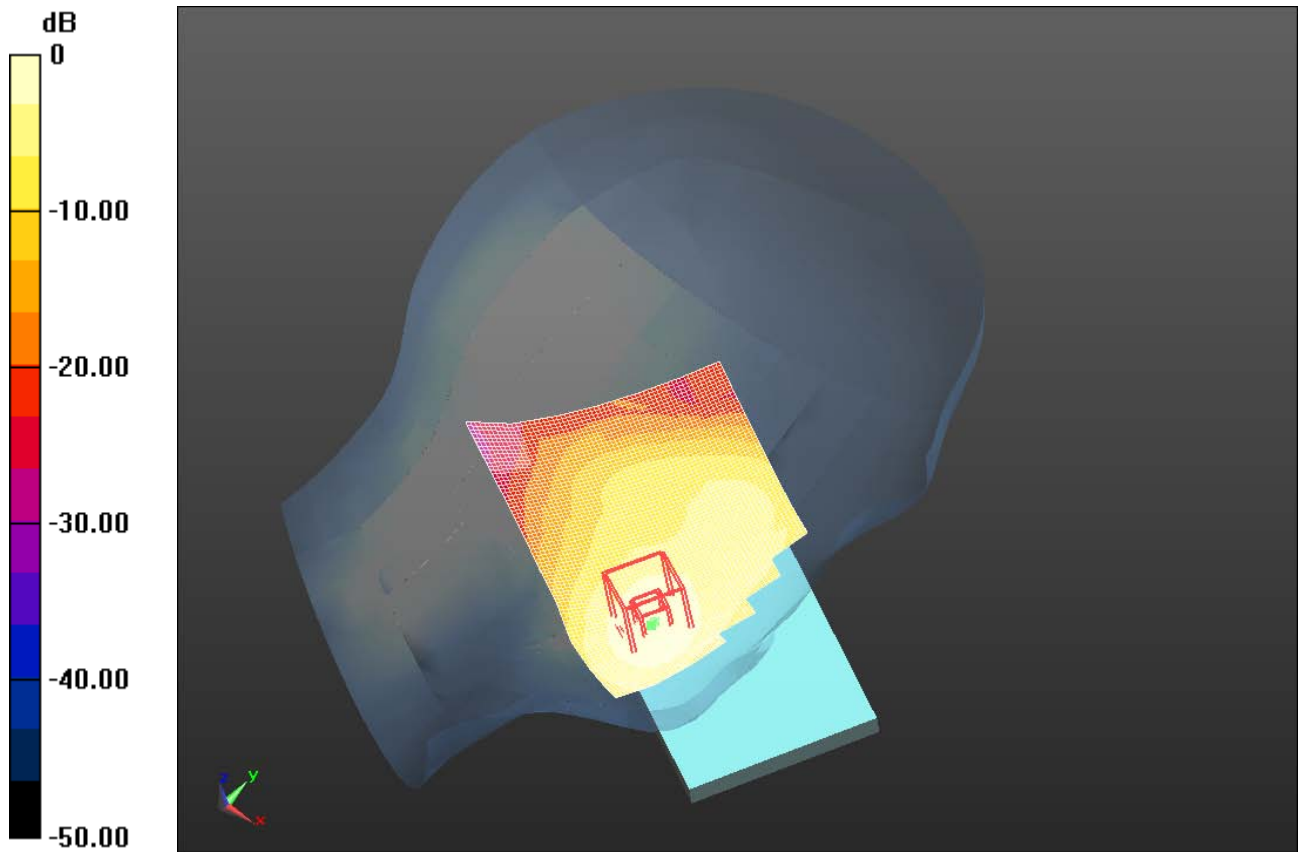
**Left-Hand-Side HSL - UMTS II\_/Touch Position -**  
**UMTS\_II\_chan9262\_amb\_temp\_23.7C\_liq\_temp\_22.2C/Area Scan**  
**(61x91x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Reference Value =  $6.899 \text{ V/m}$ ; Power Drift =  $0.15 \text{ dB}$   
**Fast SAR: SAR(1 g) =  $0.535 \text{ W/kg}$ ; SAR(10 g) =  $0.310 \text{ W/kg}$**

Maximum value of SAR (interpolated) =  $0.657 \text{ W/kg}$

**Left-Hand-Side HSL - UMTS II\_/Touch Position -**  
**UMTS\_II\_chan9538\_amb\_temp\_23.4C\_liq\_temp\_22.3C/Area Scan**  
**(61x91x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Reference Value =  $6.542 \text{ V/m}$ ; Power Drift =  $0.00 \text{ dB}$   
**Fast SAR: SAR(1 g) =  $0.557 \text{ W/kg}$ ; SAR(10 g) =  $0.320 \text{ W/kg}$**

Maximum value of SAR (interpolated) =  $0.688 \text{ W/kg}$

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |



0 dB = 0.688 W/kg = -1.62 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

802.11b

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

Date: 7/19/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2**

### **Configuration: Right-Hand-Side HSL - 802.11b**

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

Medium Parameters used:  $f=2437$  MHz;  $\sigma = 1.816$  S/m;  $\epsilon_r = 37.833$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

#### **DASY Configuration:**

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

#### **Right-Hand-Side HSL - 802.11b/Touch Position -**

**802.11b\_chan6\_amb\_temp\_22.9C\_liq\_temp\_22.5C/Area Scan (81x131x1):** Interpolated grid:

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

Reference Value = 3.881 V/m; **Power Drift = 0.570 dB**

#### **Right-Hand-Side HSL - 802.11b/Touch Position -**

**802.11b\_chan6\_amb\_temp\_22.9C\_liq\_temp\_22.5C/Zoom Scan (36x36x36)/Cube 0:**

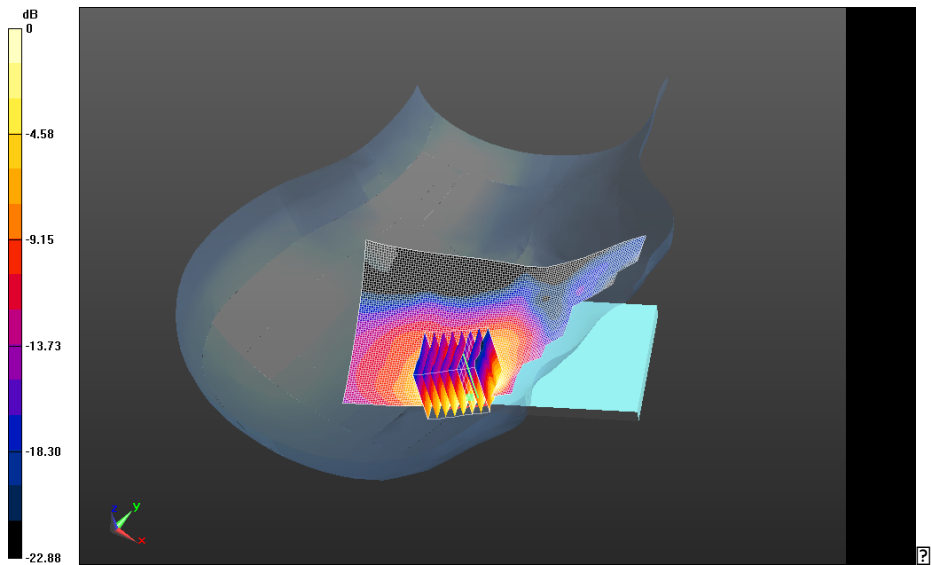
Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm,  $dz=1.000$  mm

Reference Value = 1.308 V/m; **Power Drift = 0.570 dB**

**Averaged SAR: SAR(1g) = 0.219 W/kg; SAR(10g) = 0.126 W/kg**

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

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |



0 dB = 0.268 W/kg = -5.72 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

**Right-Hand-Side HSL - 802.11b/Tilt Position -**

**802.11b\_chan6\_amb\_temp\_23.0C\_liq\_temp\_22.5C/Area Scan (81x131x1):** Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 9.023 V/m; **Power Drift = 0.069 dB**

**Right-Hand-Side HSL - 802.11b/Tilt Position -**

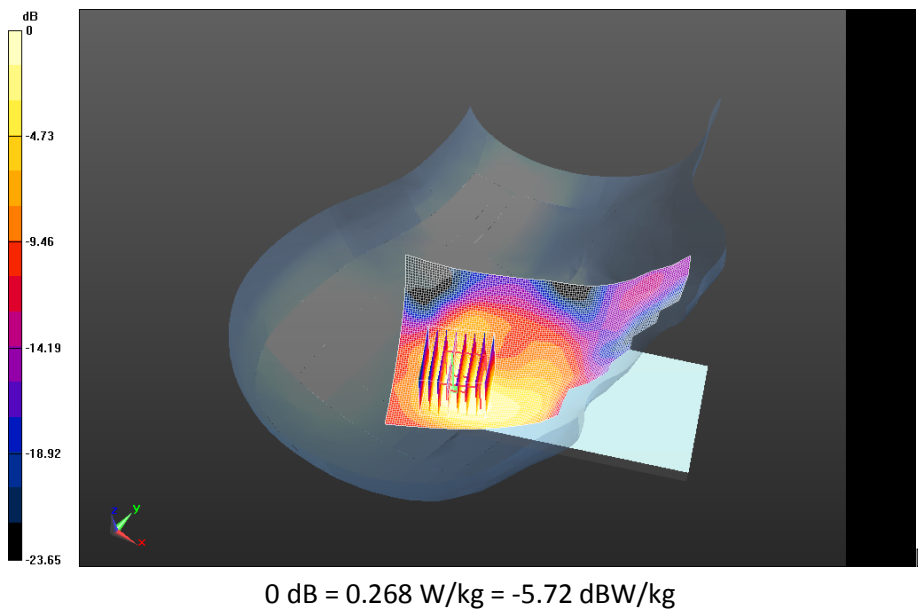
**802.11b\_chan6\_amb\_temp\_23.0C\_liq\_temp\_22.5C/Zoom Scan (36x36x36)/Cube 0:**

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

Reference Value = 9.023 V/m; **Power Drift = 0.069 dB**

**Averaged SAR: SAR(1g) = 0.226 W/kg; SAR(10g) = 0.123 W/kg**

Maximum value of SAR (interpolated) = 0.392 W/kg



|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

Date: 7/19/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2**

### **Configuration: Left-Hand-Side HSL - 802.11b**

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

Medium Parameters used:  $f=2437$  MHz;  $\sigma = 1.816$  S/m;  $\epsilon_r = 37.833$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

#### **DASY Configuration:**

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

#### **Left-Hand-Side HSL - 802.11b/Touch Position -**

**802.11b\_chan6\_amb\_temp\_23.0C\_liq\_temp\_22.4C/Area Scan (81x111x1):** Interpolated grid:

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

Reference Value = 4.149 V/m; **Power Drift = -0.233 dB**

#### **Left-Hand-Side HSL - 802.11b/Touch Position -**

**802.11b\_chan6\_amb\_temp\_23.0C\_liq\_temp\_22.4C/Zoom Scan (31x31x36)/Cube 0:**

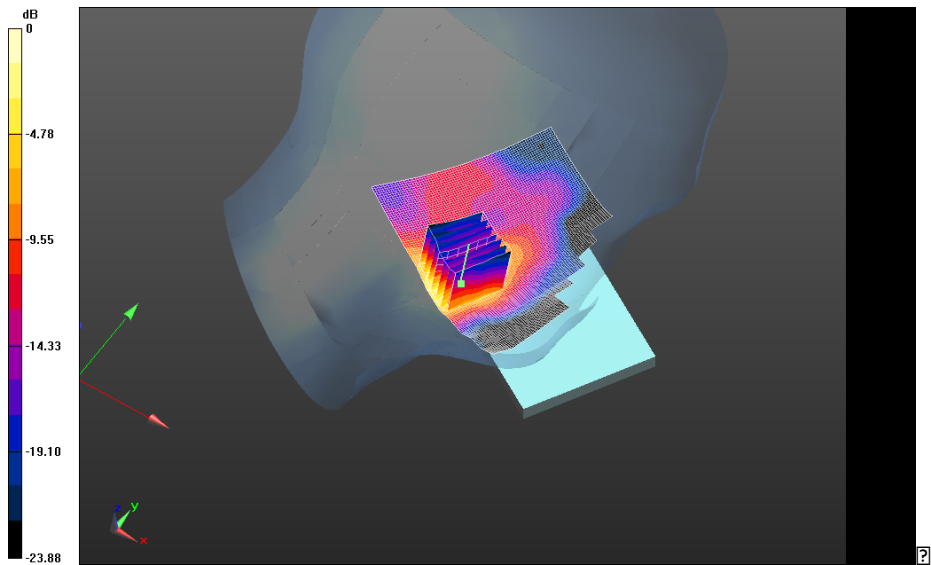
Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm,  $dz=1.000$  mm

Reference Value = 4.149 V/m; **Power Drift = -0.233 dB**

**Averaged SAR: SAR(1g) = 0.303 W/kg; SAR(10g) = 0.133 W/kg**

Maximum value of SAR (interpolated) = 0.667 W/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |



0 dB = 0.406 W/kg = -3.91 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

**Left-Hand-Side HSL - 802.11b/Tilt Position -**

**802.11b\_chan6\_amb\_temp\_23.0C\_liq\_temp\_22.5C/Area Scan (81x131x1):** Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 10.117 V/m; **Power Drift = -0.698 dB**

**Left-Hand-Side HSL - 802.11b/Tilt Position -**

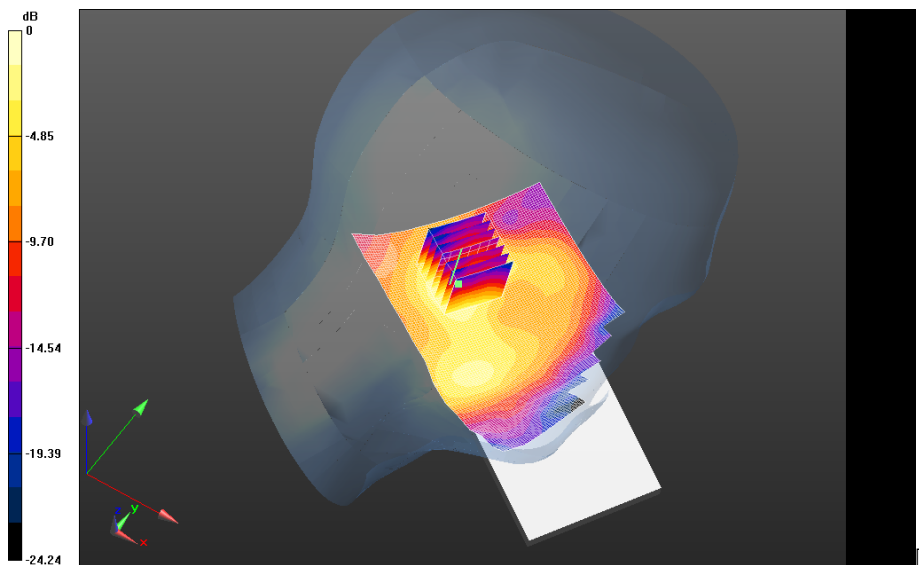
**802.11b\_chan6\_amb\_temp\_23.0C\_liq\_temp\_22.5C/Zoom Scan (31x31x36)/Cube 0:**

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

Reference Value = 10.117 V/m; **Power Drift = -0.698 dB**

**Averaged SAR: SAR(1g) = 0.169 W/kg; SAR(10g) = 0.0909 W/kg**

Maximum value of SAR (interpolated) = 0.294 W/kg



0 dB = 0.406 W/kg = -3.91 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

# Bluetooth

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

Date: 7/19/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE447**

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

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

Medium Parameters used:  $f=2441$  MHz;  $\sigma = 1.821$  S/m;  $\epsilon_r = 37.819$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

#### **DASY Configuration:**

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

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

**Bluetooth\_chan39\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0109 W/kg

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

**Bluetooth\_chan39\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Zoom Scan (41x41x36)/Cube 0:**

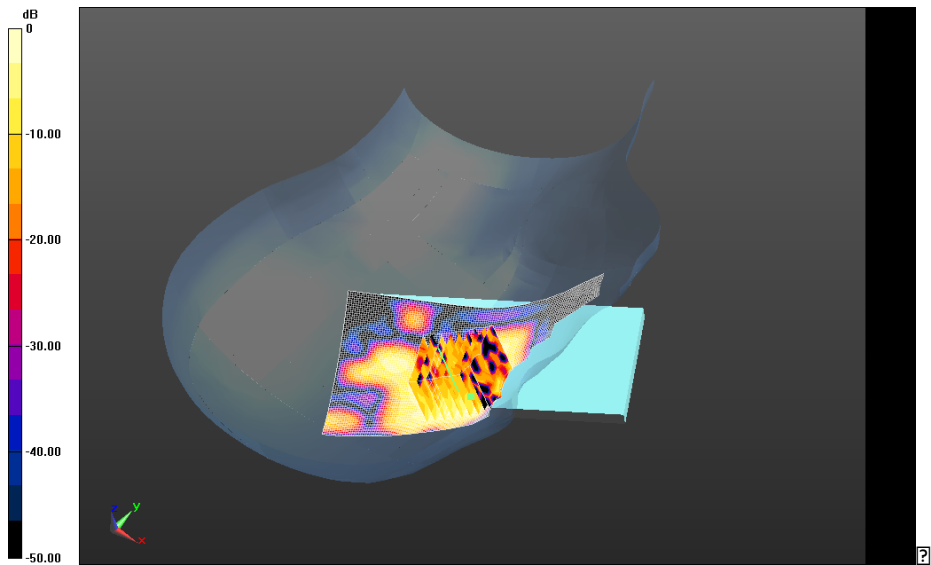
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 2.084 V/m; **Power Drift = 0.372 dB**

**Averaged SAR: SAR(1g) = 0.00725 W/kg; SAR(10g) = 0.00354 W/kg**

Maximum value of SAR (interpolated) = 0.0295 W/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |



0 dB = 0.00862 W/kg = -20.64 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

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

**Bluetooth\_chan39\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.00689 W/kg

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

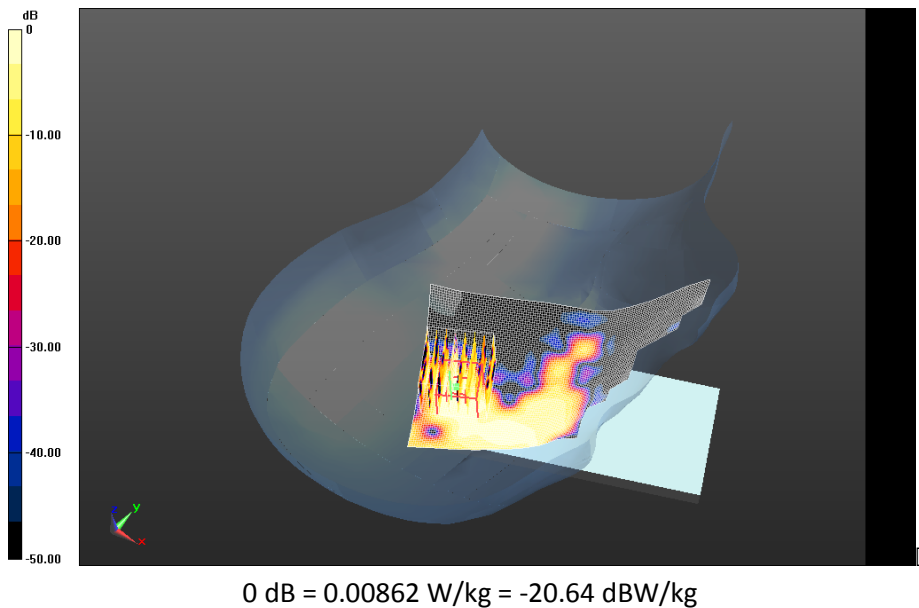
**Bluetooth\_chan39\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Zoom Scan (36x36x36)/Cube 0:**

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

Reference Value = 1.361 V/m; **Power Drift = -0.089 dB**

**Averaged SAR: SAR(1g) = 0.00228 W/kg; SAR(10g) = 0.000887 W/kg**

Maximum value of SAR (interpolated) = 0.00832 W/kg



|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

Date: 7/19/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE447**

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

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

Medium Parameters used:  $f=2441$  MHz;  $\sigma = 1.821$  S/m;  $\epsilon_r = 37.819$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

#### **DASY Configuration:**

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

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

**Bluetooth\_chan39\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Area Scan (81x111x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0122 W/kg

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

**Bluetooth\_chan39\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Zoom Scan (31x31x36)/Cube 0:**

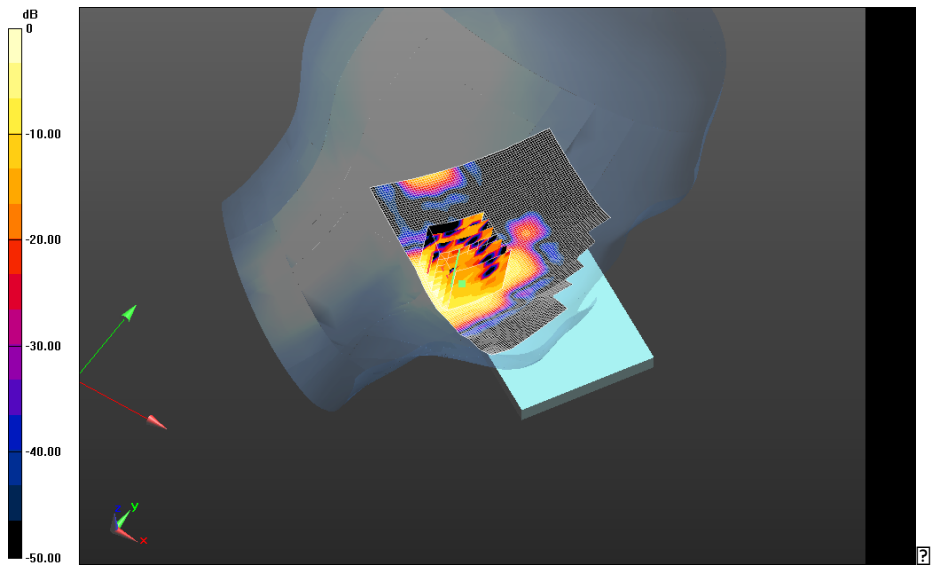
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 2.644 V/m; **Power Drift = 0.409 dB**

**Averaged SAR: SAR(1g) = 0.00938 W/kg; SAR(10g) = 0.00377 W/kg**

Maximum value of SAR (interpolated) = 0.0195 W/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |



0 dB = 0.0127 W/kg = -18.96 dBW/kg

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

**Bluetooth\_chan39\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.00484 W/kg

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

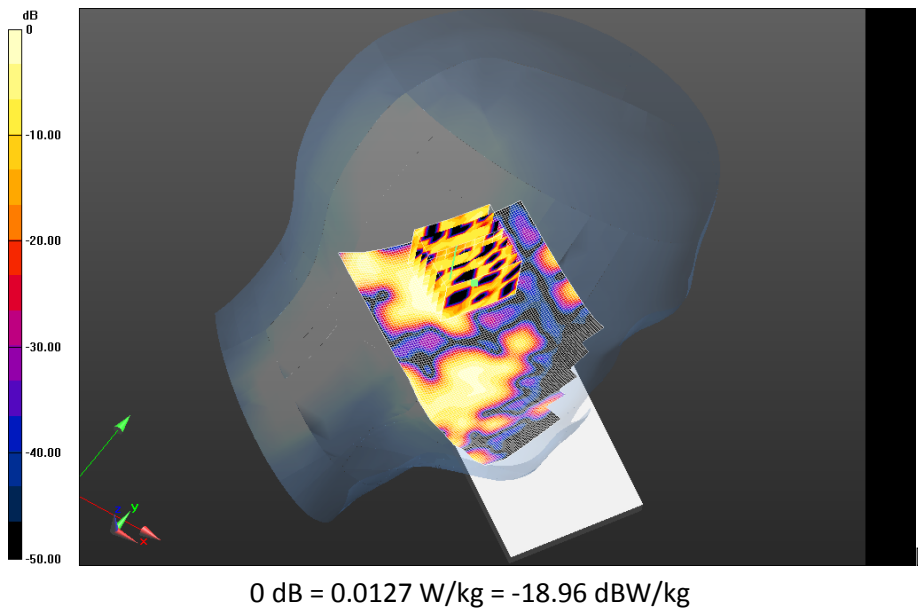
**Bluetooth\_chan39\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Zoom Scan (41x36x36)/Cube 0:**

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

Reference Value = 0.914 V/m; **Power Drift = -0.035 dB**

**Averaged SAR: SAR(1g) = 0.00190 W/kg; SAR(10g) = 0.000880 W/kg**

Maximum value of SAR (interpolated) = 0.00377 W/kg



|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

# 802.11a

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

Date: 7/22/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

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

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5180 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1  
Medium Parameters used:  $f=5180$  MHz;  $\sigma = 4.621$  S/m;  $\epsilon_r = 35.239$ ;  $\rho = 1.000$  g/cm<sup>3</sup>  
Phantom section: Right Section

**DASY Configuration:**

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

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

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

Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0.192 W/kg

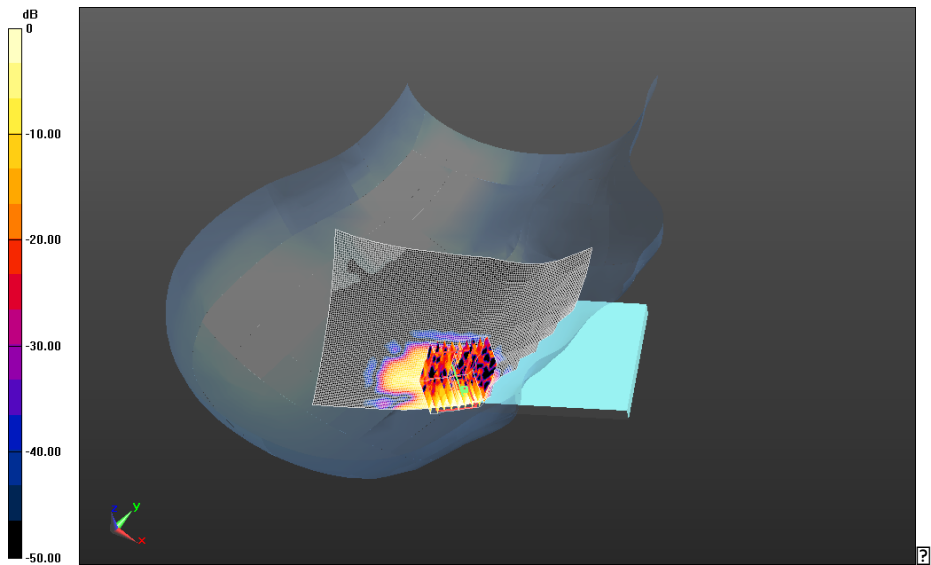
**Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -**

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

**0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 6.578 V/m; Power Drift = -0.069 dB

Averaged SAR: SAR(1g) = 0.0926 W/kg; SAR(10g) = 0.0332 W/kg  
Maximum value of SAR (interpolated) = 0.531 W/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |



0 dB = 0.181 W/kg = -7.42 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

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

**802.11a\_chan52\_low\_band\_amb\_temp\_23.4C\_liq\_temp\_21.7C/Area Scan (101x141x1):**

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

Maximum value of SAR (interpolated) = 0.260 W/kg

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

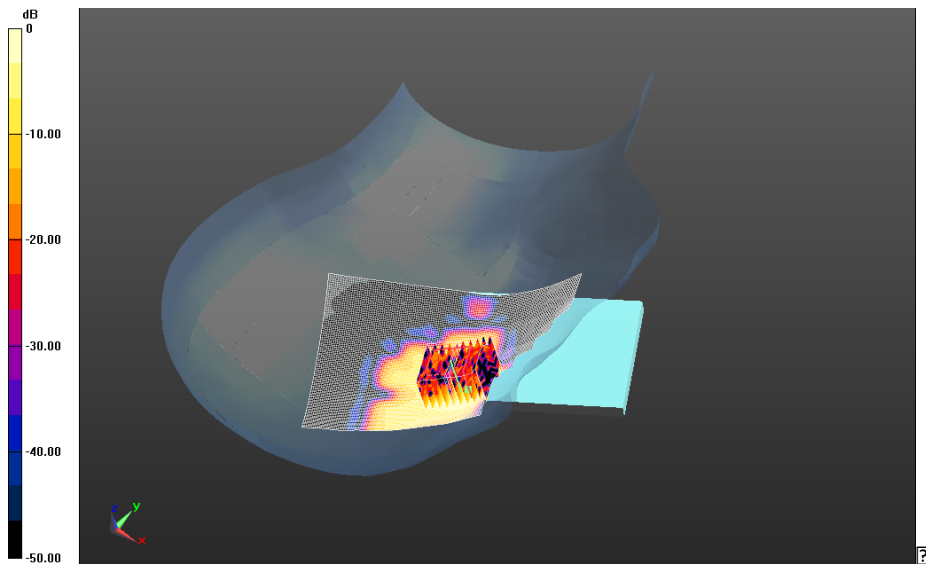
**802.11a\_chan52\_low\_band\_amb\_temp\_23.4C\_liq\_temp\_21.7C/Zoom Scan (41x46x61)/Cube**

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

Reference Value = 7.517 V/m; Power Drift = -0.079 dB

Averaged SAR: SAR(1g) = 0.123 W/kg; SAR(10g) = 0.0445 W/kg

Maximum value of SAR (interpolated) = 0.417 W/kg



0 dB = 0.181 W/kg = -7.42 dBW/kg

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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

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

**802.11a\_chan52\_low\_band\_amb\_temp\_23.2C\_liq\_temp\_22.2C/Area Scan (101x141x1):**

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

Maximum value of SAR (interpolated) = 0.0638 W/kg

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

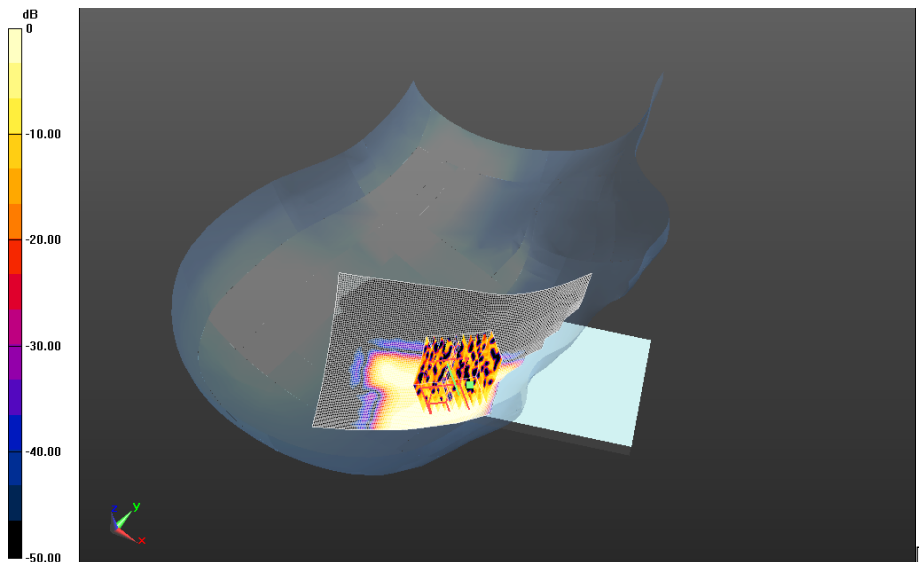
**802.11a\_chan52\_low\_band\_amb\_temp\_23.2C\_liq\_temp\_22.2C/Zoom Scan (51x46x61)/Cube**

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

Reference Value = 2.150 V/m; Power Drift = 0.438 dB

Averaged SAR: SAR(1g) = 0.0175 W/kg; SAR(10g) = 0.00681 W/kg

Maximum value of SAR (interpolated) = 0.0874 W/kg



0 dB = 0.238 W/kg = -6.23 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

Date: 7/22/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

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

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5520 MHz, Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1  
Medium Parameters used:  $f=5520$  MHz;  $\sigma = 4.982$  S/m;  $\epsilon_r = 34.504$ ;  $\rho = 1.000$  g/cm<sup>3</sup>  
Phantom section: Right Section

#### **DASY Configuration:**

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

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

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

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

Maximum value of SAR (interpolated) = 0.294 W/kg

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

**802.11a\_chan104\_Upper\_bandI\_amb\_temp\_23.4C\_liq\_temp\_21.7C/Zoom Scan**

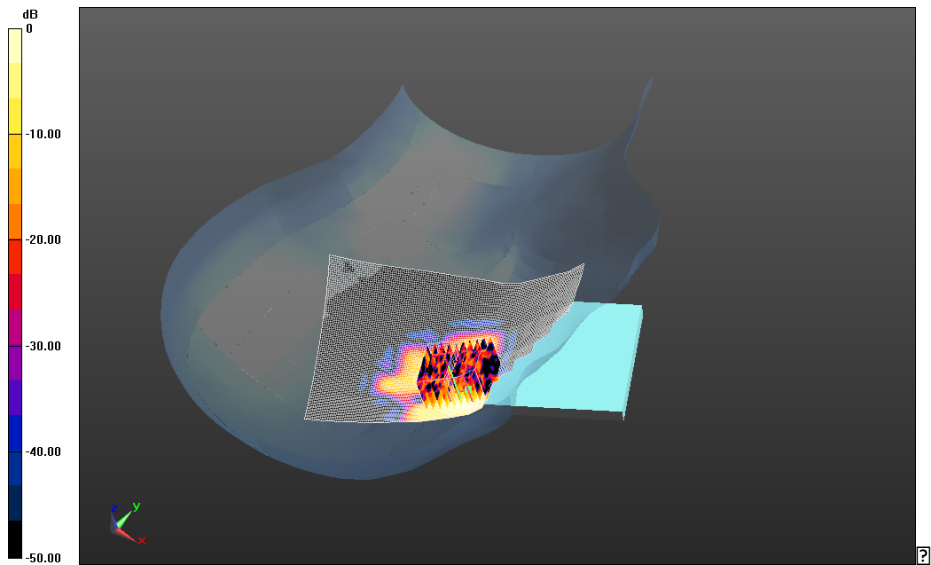
**(41x46x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 7.094 V/m; Power Drift = -0.162 dB

Averaged SAR: SAR(1g) = 0.0997 W/kg; SAR(10g) = 0.0335 W/kg

Maximum value of SAR (interpolated) = 0.368 W/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |



0 dB = 0.198 W/kg = -7.03 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

Date: 7/22/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

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

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5765 MHz, Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1  
Medium Parameters used:  $f=5765$  MHz;  $\sigma = 5.290$  S/m;  $\epsilon_r = 34.219$ ;  $\rho = 1.000$  g/cm<sup>3</sup>  
Phantom section: Right Section

#### **DASY Configuration:**

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

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

##### **802.11a\_chan153\_Upper\_bandII\_amb\_temp\_23.1C\_liq\_temp\_22.1C/Area Scan (101x141x1):**

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

Maximum value of SAR (interpolated) = 0.284 W/kg

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

##### **802.11a\_chan153\_Upper\_bandII\_amb\_temp\_23.1C\_liq\_temp\_22.1C/Zoom Scan**

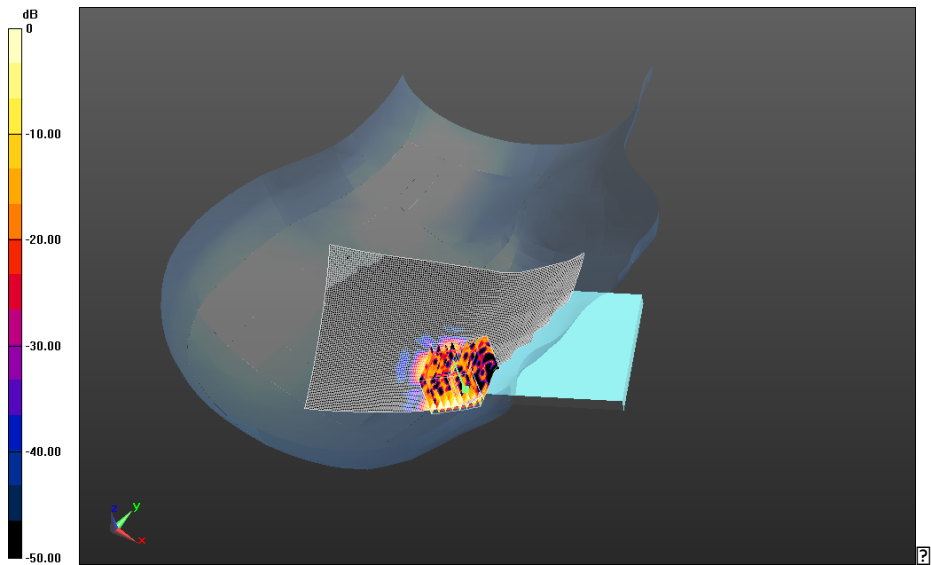
**(41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 4.388 V/m; Power Drift = -0.044 dB

Averaged SAR: SAR(1g) = 0.0426 W/kg; SAR(10g) = 0.0124 W/kg

Maximum value of SAR (interpolated) = 0.186 W/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |



0 dB = 0.100 W/kg = -10.00 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

Date: 7/22/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

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

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5180 MHz, Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1  
Medium Parameters used:  $f=5180$  MHz;  $\sigma = 4.621$  S/m;  $\epsilon_r = 35.239$ ;  $\rho = 1.000$  g/cm<sup>3</sup>  
Phantom section: Left Section

#### **DASY Configuration:**

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

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

##### **802.11a\_chan36\_low\_band\_amb\_temp\_222.8C\_liq\_temp\_22.1C/Area Scan (101x141x1):**

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

Maximum value of SAR (interpolated) = 0.285 W/kg

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

##### **802.11a\_chan36\_low\_band\_amb\_temp\_222.8C\_liq\_temp\_22.1C/Zoom Scan (36x36x61)/Cube**

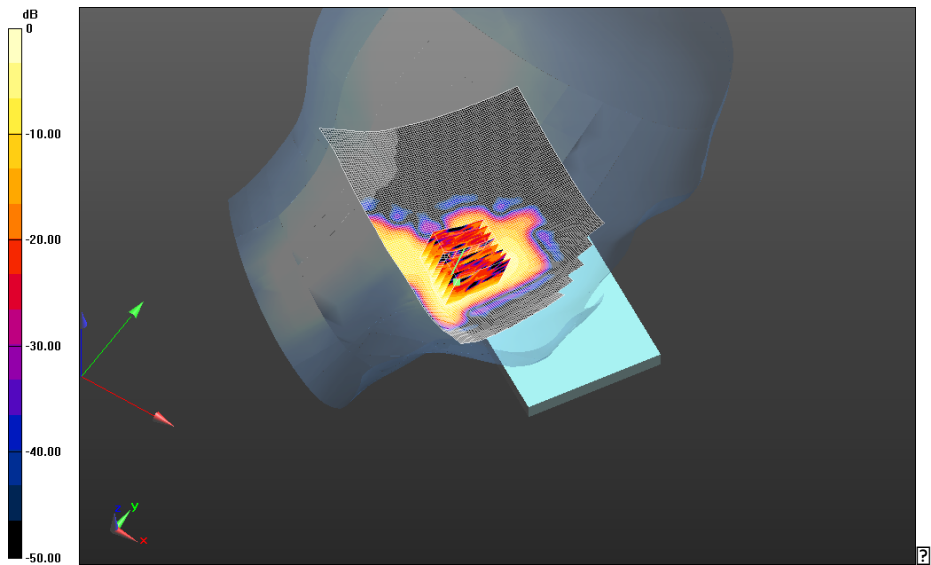
**0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 8.139 V/m; Power Drift = 0.116 dB

Averaged SAR: SAR(1g) = 0.140 W/kg; SAR(10g) = 0.0487 W/kg

Maximum value of SAR (interpolated) = 0.525 W/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |



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

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

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

**802.11a\_chan52\_low\_band\_amb\_temp\_23.6C\_liq\_temp\_22.2C/Area Scan (101x141x1):**

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

Maximum value of SAR (interpolated) = 0.472 W/kg

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

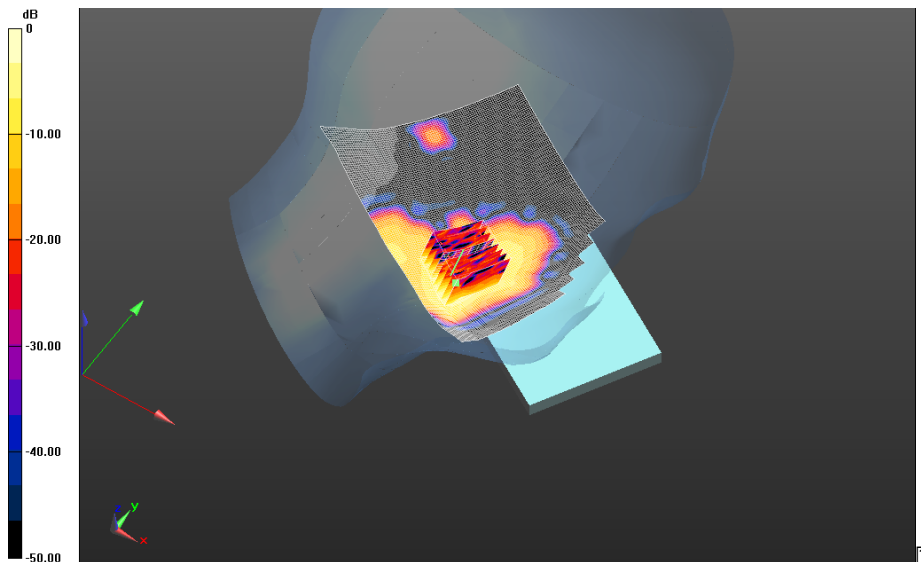
**802.11a\_chan52\_low\_band\_amb\_temp\_23.6C\_liq\_temp\_22.2C/Zoom Scan (36x36x61)/Cube**

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

Reference Value = 10.156 V/m; Power Drift = 0.043 dB

Averaged SAR: SAR(1g) = 0.234 W/kg; SAR(10g) = 0.0784 W/kg

Maximum value of SAR (interpolated) = 0.965 W/kg



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

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

Date: 7/22/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

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

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5520 MHz, Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1  
Medium Parameters used:  $f=5520$  MHz;  $\sigma = 4.982$  S/m;  $\epsilon_r = 34.504$ ;  $\rho = 1.000$  g/cm<sup>3</sup>  
Phantom section: Left Section

#### **DASY Configuration:**

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

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

**802.11a\_chan104\_Upper\_bandI\_amb\_temp\_22.9C\_liq\_temp\_22.1C/Area Scan (101x141x1):**

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

Maximum value of SAR (interpolated) = 0.632 W/kg

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

**802.11a\_chan104\_Upper\_bandI\_amb\_temp\_22.9C\_liq\_temp\_22.1C/Zoom Scan**

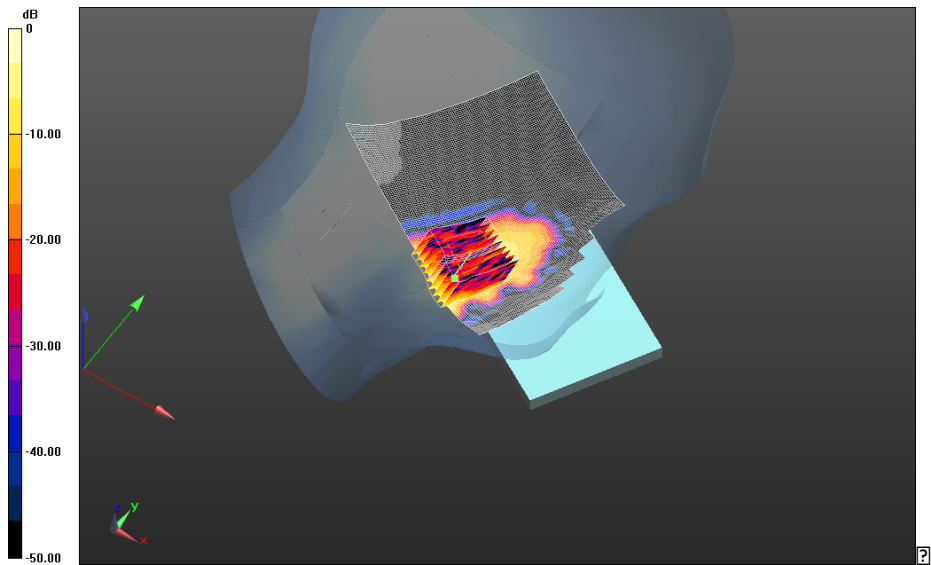
**(41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 11.385 V/m; Power Drift = 0.020 dB

Averaged SAR: SAR(1g) = 0.281 W/kg; SAR(10g) = 0.0864 W/kg

Maximum value of SAR (interpolated) = 1.15 W/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |



0 dB = 0.557 W/kg = -2.54 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

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

**802.11a\_chan104\_Upper\_bandI\_amb\_temp\_23.4C\_liq\_temp\_22.5C/Area Scan (101x151x1):**

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

Maximum value of SAR (interpolated) = 0.0813 W/kg

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

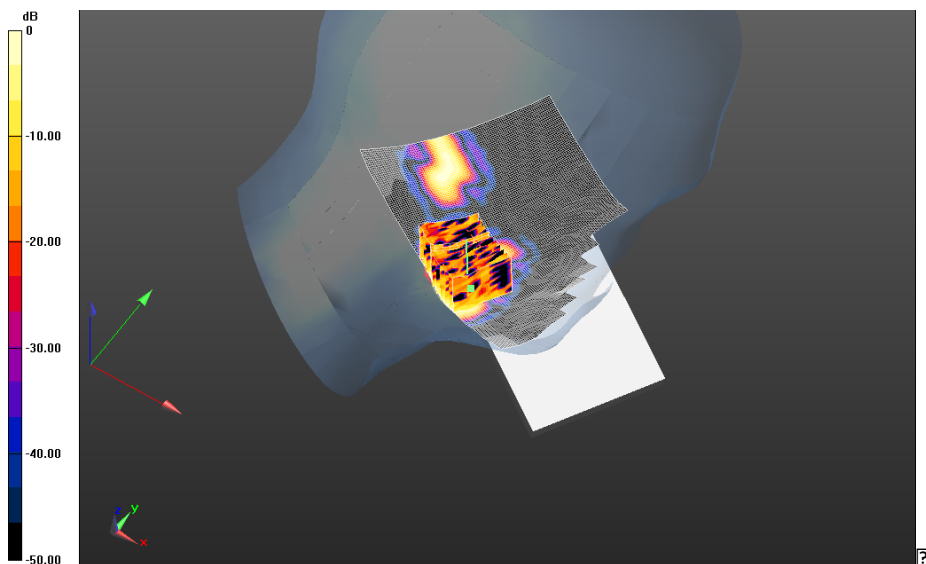
**802.11a\_chan104\_Upper\_bandI\_amb\_temp\_23.4C\_liq\_temp\_22.5C/Zoom Scan**

**(41x46x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 1.584 V/m; Power Drift = -0.167 dB

Averaged SAR: SAR(1g) = 0.0329 W/kg; SAR(10g) = 0.0111 W/kg

Maximum value of SAR (interpolated) = 0.189 W/kg



0 dB = 0.557 W/kg = -2.54 dBW/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |

Date: 7/22/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

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

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5745 MHz, Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1  
Medium Parameters used:  $f=5745$  MHz;  $\sigma = 5.303$  S/m;  $\epsilon_r = 34.341$ ;  $\rho = 1.000$  g/cm<sup>3</sup>  
Phantom section: Left Section

#### **DASY Configuration:**

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

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

##### **802.11a\_chan149\_Upper\_bandII\_amb\_temp\_22.9C\_liq\_temp\_22.5C/Area Scan (101x141x1):**

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

Maximum value of SAR (interpolated) = 0.274 W/kg

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

##### **802.11a\_chan149\_Upper\_bandII\_amb\_temp\_22.9C\_liq\_temp\_22.5C/Zoom Scan**

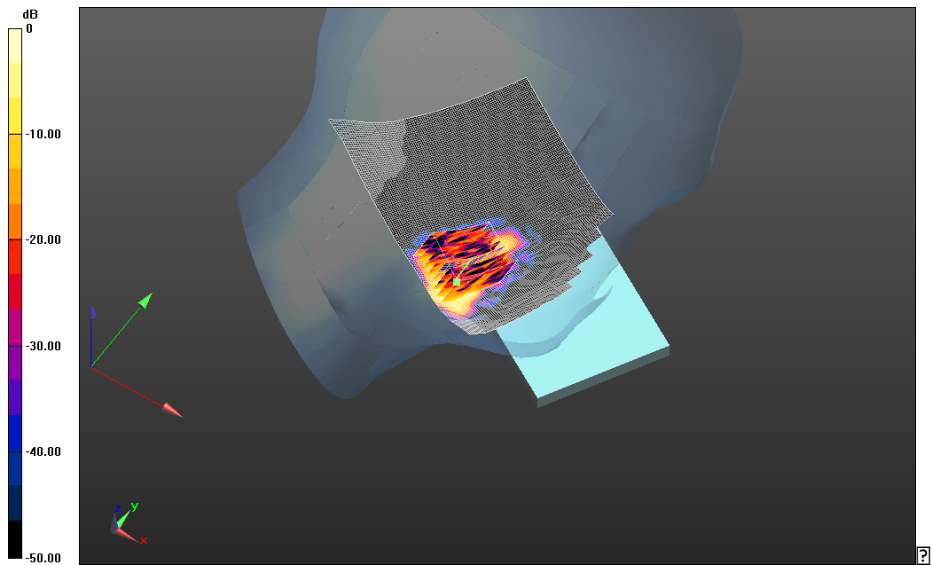
**(41x36x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 7.005 V/m; Power Drift = 0.309 dB

Averaged SAR: SAR(1g) = 0.120 W/kg; SAR(10g) = 0.0307 W/kg

Maximum value of SAR (interpolated) = 0.462 W/kg

|                                                                                   |                                                                                        |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>July 02 –August 15, 2013</b>                                       | Test Report No<br><b>RTS-6046-1307-42</b> | FCC ID:<br><b>L6ARFW120LW</b> |                       |



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