

|                                                                                   |                                               |                                                                                                                      |                               |                             |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |                       |

**APPENDIX B: SAR DISTRIBUTION PLOTS FOR EACH CONFIGURATION PART 2 of 3**  
**(1800 – 1900 MHz)**

|                                                                                   |                              |                                                                                                |                    |                       |  |
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| Author Data                                                                       | Dates of Test                | Test Report No                                                                                 | FCC ID:            | IC                    |  |
| <b>Andrew Becker</b>                                                              | <b>Mar 30 – May 14, 2015</b> | <b>RTS-6067-1505-05 Rev2</b>                                                                   | <b>L6ARHR190LW</b> | <b>2503A-RHR190LW</b> |  |

## LTE Band 4

Date: 4/14/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

### Configuration: Right-Hand-Side HSL -LTE band 4

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

Medium Parameters used:  $f=1720$  MHz;  $\sigma = 1.372$  S/m;  $\epsilon_r = 38.574$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (5.18,5.18,5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

### Right-Hand-Side HSL -LTE band 4/Touch Position -LTE band

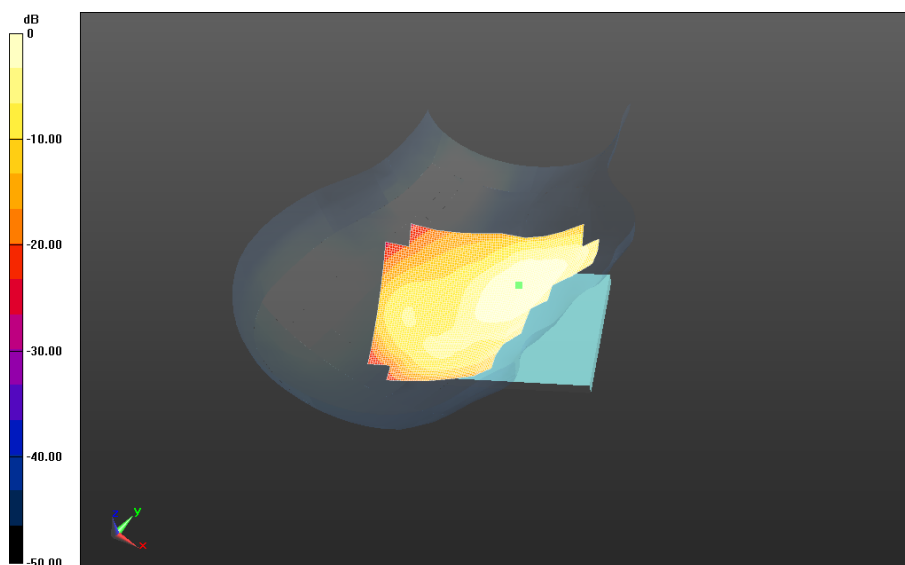
**4\_chan20050\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_24.2C\_liq\_temp\_20.7C/Area Scan**

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

Reference Value = 10.032 V/m; **Power Drift = 0.00349 dB**

**Fast SAR: SAR(1g) = 0.493 W/kg; SAR(10g) = 0.299 W/kg**

Maximum value of SAR (interpolated) = 0.534 W/kg



0 dB = 0.534 W/kg = -2.72 dBW/kg

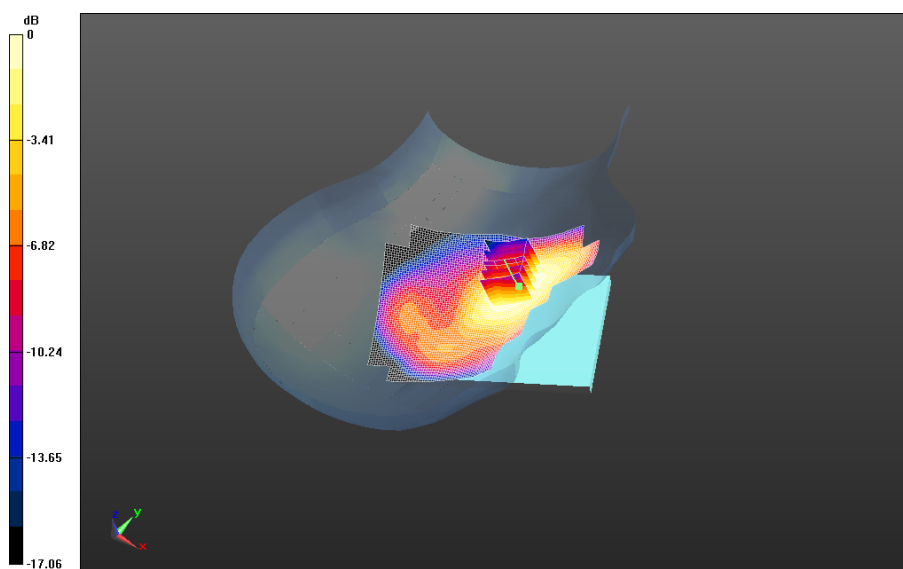
|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Right-Hand-Side HSL -LTE band 4/Touch Position -LTE band**  
**4\_chan20175\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_24.2C\_liq\_temp\_20.7C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 10.048 V/m; **Power Drift = -0.039 dB**

**Fast SAR: SAR(1g) = 0.512 W/kg; SAR(10g) = 0.311 W/kg**  
Maximum value of SAR (interpolated) = 0.557 W/kg

**Right-Hand-Side HSL -LTE band 4/Touch Position -LTE band**  
**4\_chan20175\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_24.2C\_liq\_temp\_20.7C/Zoom Scan**  
**(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 10.048 V/m; **Power Drift = -0.039 dB**

**Averaged SAR: SAR(1g) = 0.483 W/kg; SAR(10g) = 0.325 W/kg**  
Maximum value of SAR (interpolated) = 0.634 W/kg

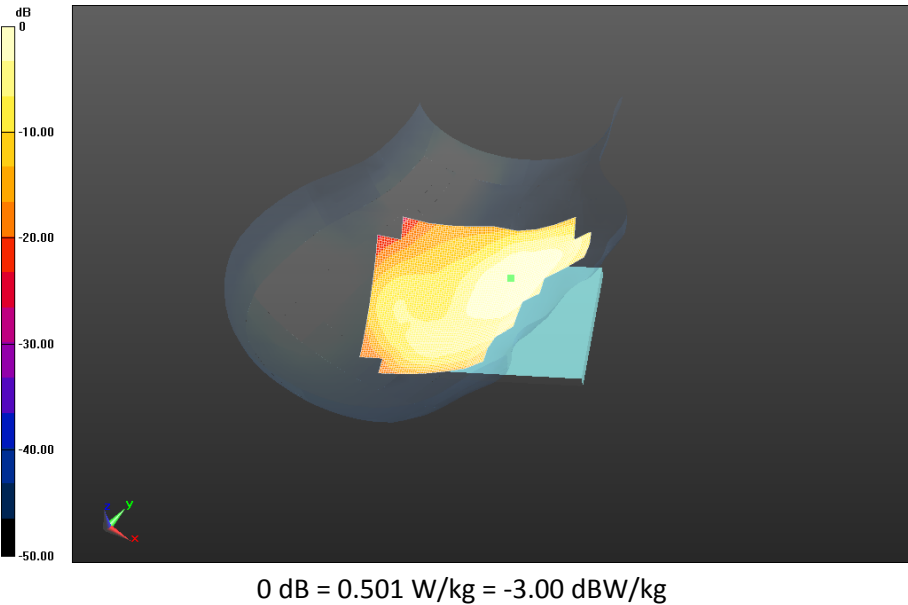


0 dB = 0.520 W/kg = -2.84 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Right-Hand-Side HSL -LTE band 4/Touch Position -LTE band**  
**4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_24.2C\_liq\_temp\_20.7C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 9.700 V/m; **Power Drift = -0.043 dB**

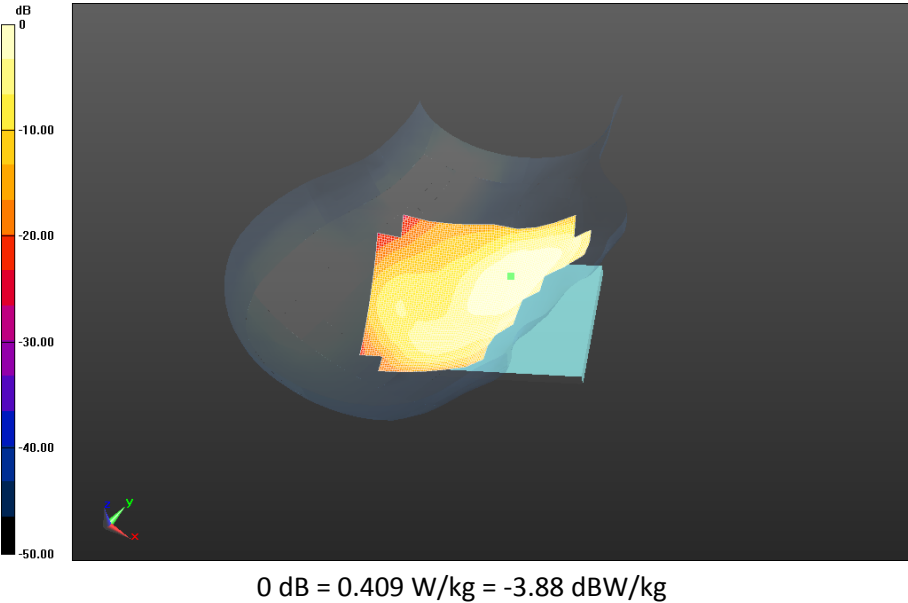
**Fast SAR: SAR(1g) = 0.458 W/kg; SAR(10g) = 0.278 W/kg**  
Maximum value of SAR (interpolated) = 0.501 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Right-Hand-Side HSL -LTE band 4/Touch Position -LTE band**  
**4\_chan20300\_20MHz\_BW\_RB50\_Offset\_High\_amb\_temp\_24.0C\_liq\_temp\_20.7C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.574 V/m; **Power Drift = -0.00783 dB**

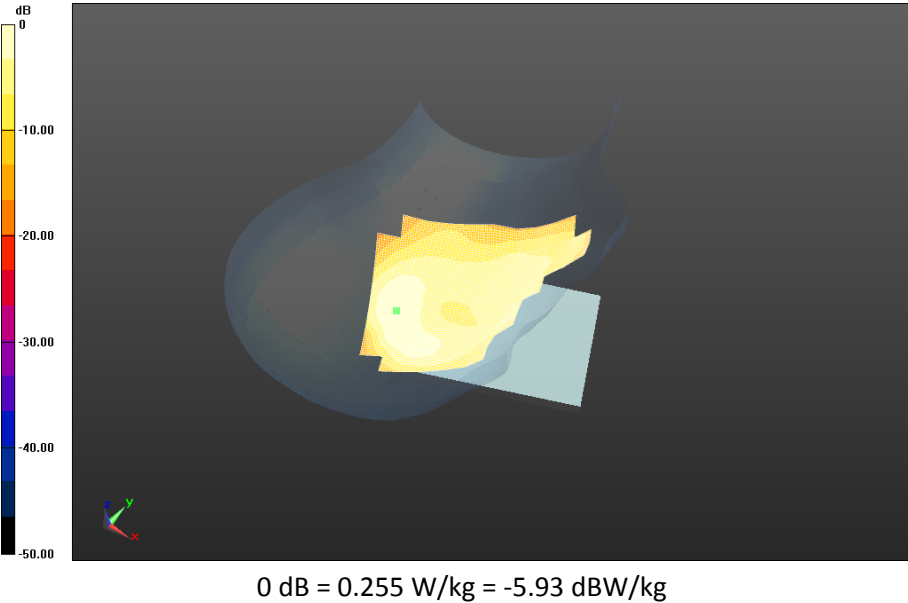
**Fast SAR: SAR(1g) = 0.374 W/kg; SAR(10g) = 0.226 W/kg**  
Maximum value of SAR (interpolated) = 0.409 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Right-Hand-Side HSL -LTE band 4/Tilt Position -LTE band**  
**4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.9C\_liq\_temp\_20.6C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 14.553 V/m; **Power Drift = -0.094 dB**

**Fast SAR: SAR(1g) = 0.228 W/kg; SAR(10g) = 0.128 W/kg**  
Maximum value of SAR (interpolated) = 0.255 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

Date: 4/14/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

### **Configuration: Left-Hand-Side HSL - LTE band 4**

Communication System: LTE 4 (0); Communication System Band: LTE 4; Frequency: 1745 MHz

Medium Parameters used:  $f=1745$  MHz;  $\sigma = 1.399$  S/m;  $\epsilon_r = 38.500$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (5.18,5.18,5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

### **Left-Hand-Side HSL - LTE band 4/Touch Position -LTE band**

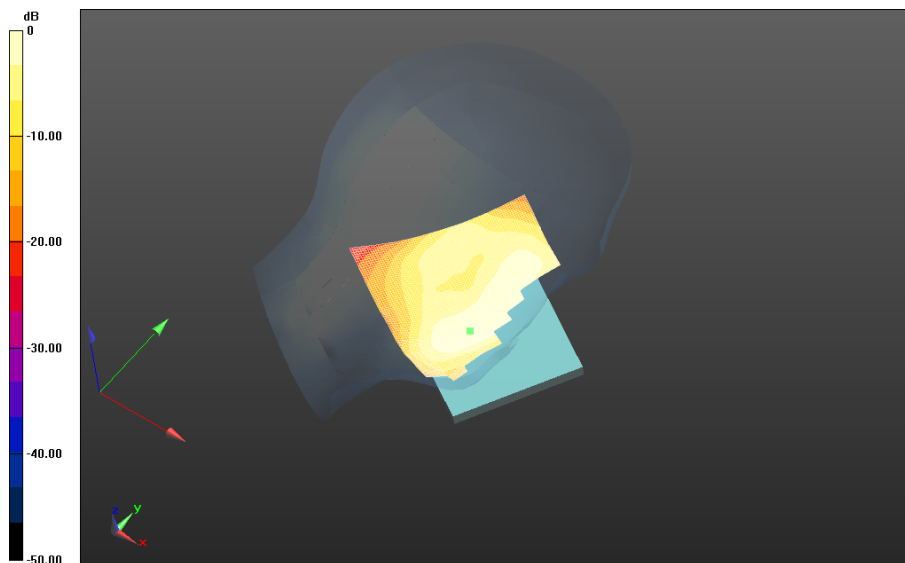
**4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_24.0C\_liq\_temp\_20.7C/Area Scan**

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

Reference Value = 9.135 V/m; **Power Drift = 0.069 dB**

**Fast SAR: SAR(1g) = 0.262 W/kg; SAR(10g) = 0.164 W/kg**

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



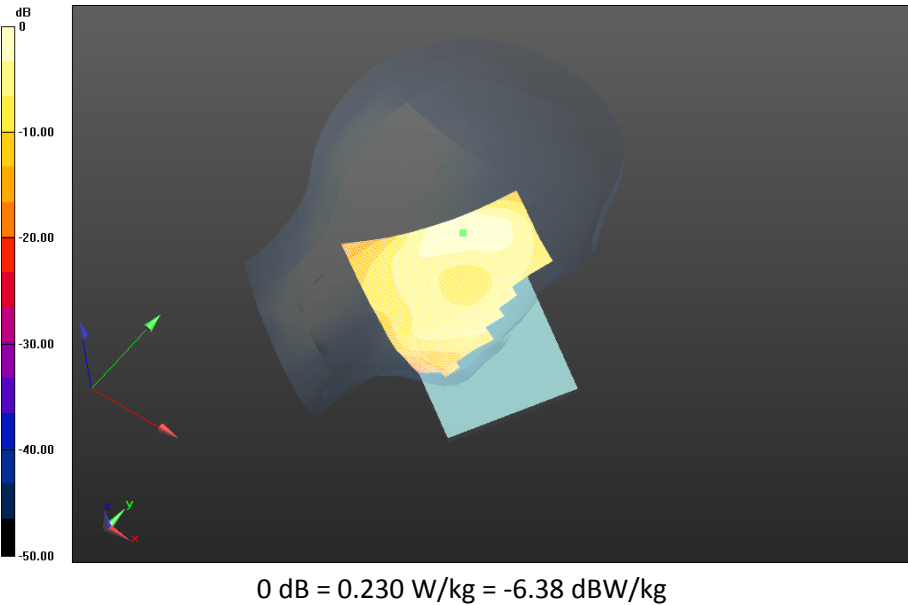
|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

0 dB = 0.284 W/kg = -5.47 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Left-Hand-Side HSL - LTE band 4/Tilt Position -LTE band**  
**4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_24.0C\_liq\_temp\_20.7C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 12.221 V/m; **Power Drift = 0.048 dB**

**Fast SAR: SAR(1g) = 0.205 W/kg; SAR(10g) = 0.121 W/kg**  
Maximum value of SAR (interpolated) = 0.230 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

Date: 4/15/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

### **Configuration: Mobile Hot Spot MSL - LTE Band 4**

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

Medium Parameters used:  $f=1720$  MHz;  $\sigma = 1.501$  S/m;  $\epsilon_r = 51.748$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.5,4.5,4.5); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

#### **Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band**

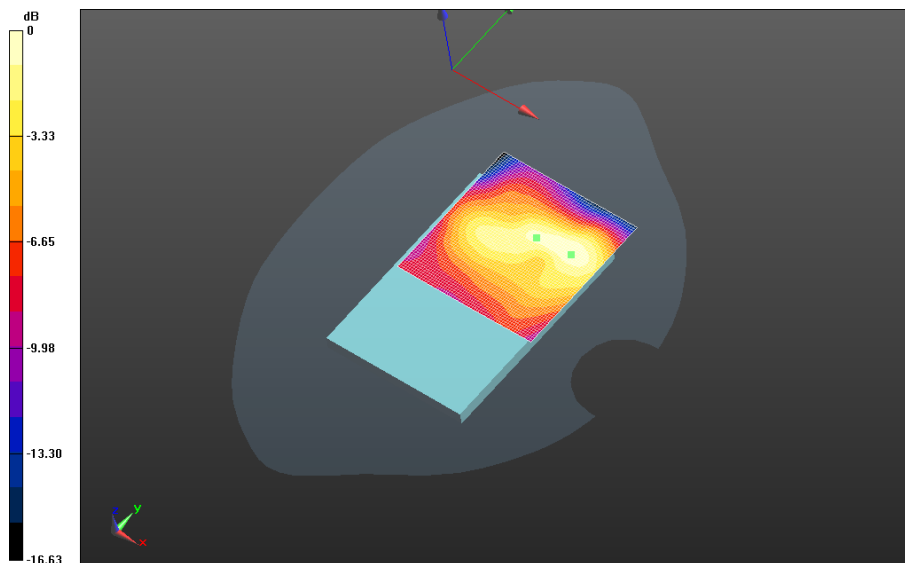
**4\_chan20050\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.7C\_liq\_temp\_20.7C/Area Scan**

**(61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 11.821 V/m; **Power Drift = -0.00985 dB**

**Fast SAR: SAR(1g) = 0.802 W/kg; SAR(10g) = 0.449 W/kg; Secondary SAR(1g) = 0.760 W/kg**

Maximum value of SAR (interpolated) = 0.919 W/kg



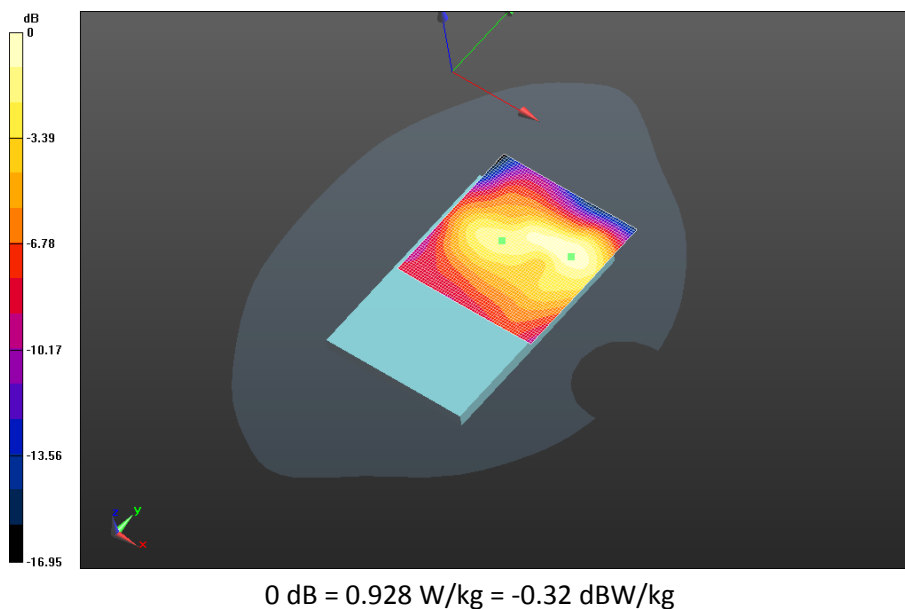
|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

0 dB = 0.919 W/kg = -0.37 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band**  
**4\_chan20175\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.8C\_liq\_temp\_20.7C/Area Scan**  
**(61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 11.919 V/m; **Power Drift = 0.084 dB**

**Fast SAR: SAR(1g) = 0.806 W/kg; SAR(10g) = 0.449 W/kg; Secondary SAR(1g) = 0.756 W/kg**  
Maximum value of SAR (interpolated) = 0.928 W/kg



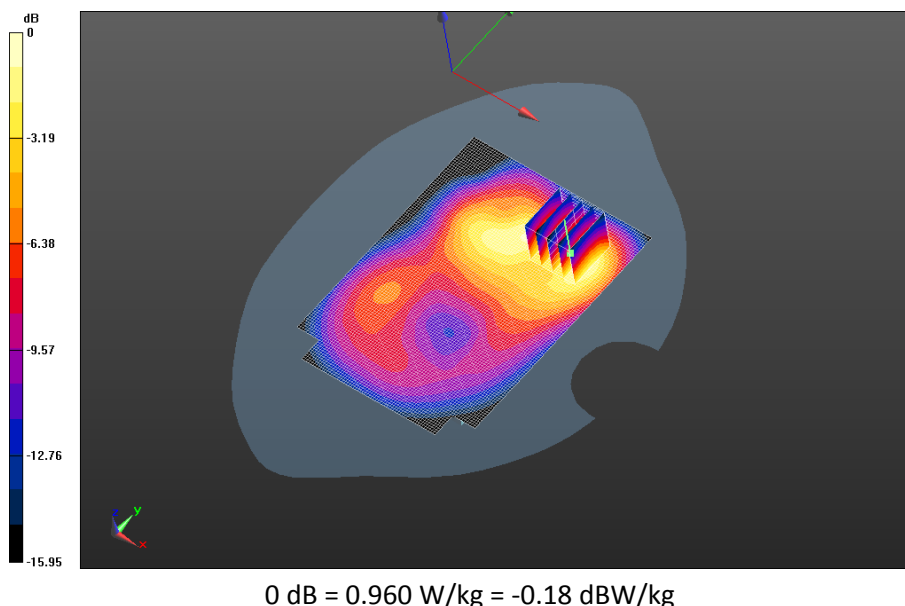
|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band**  
**4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_20.7C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 12.247 V/m; **Power Drift = -0.041 dB**

**Fast SAR: SAR(1g) = 0.919 W/kg; SAR(10g) = 0.504 W/kg; Secondary SAR(1g) = 0.787 W/kg**  
Maximum value of SAR (interpolated) = 1.07 W/kg

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band**  
**4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_20.7C/Zoom Scan**  
**(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 12.247 V/m; **Power Drift = -0.041 dB**

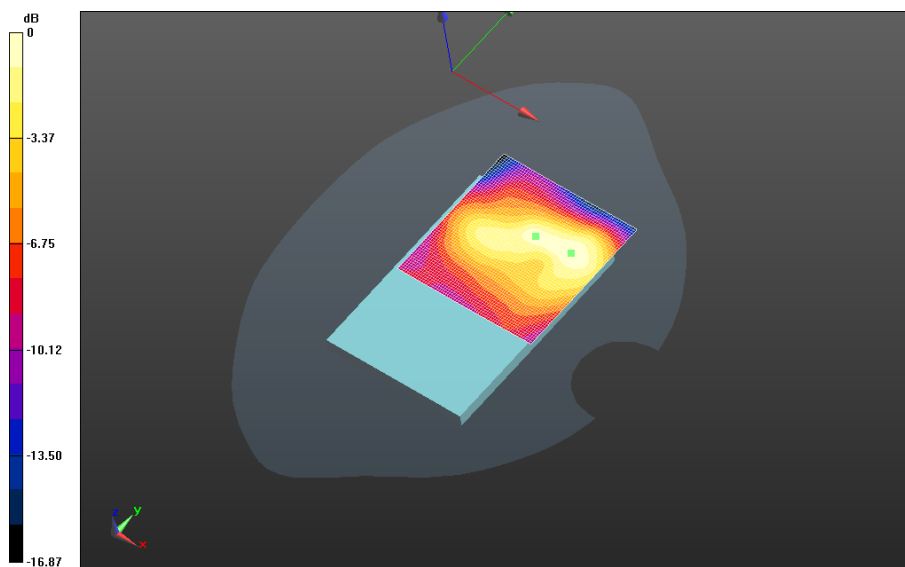
**Averaged SAR: SAR(1g) = 0.901 W/kg; SAR(10g) = 0.497 W/kg**  
Maximum value of SAR (interpolated) = 1.40 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band**  
**4\_chan20050\_20MHz\_BW\_RB50\_Offset\_Low\_amb\_temp\_23.7C\_liq\_temp\_20.7C/Area Scan**  
**(61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 10.580 V/m; **Power Drift = -0.036 dB**

**Fast SAR: SAR(1g) = 0.739 W/kg; SAR(10g) = 0.418 W/kg; Secondary SAR(1g) = 0.667 W/kg**  
Maximum value of SAR (interpolated) = 0.840 W/kg

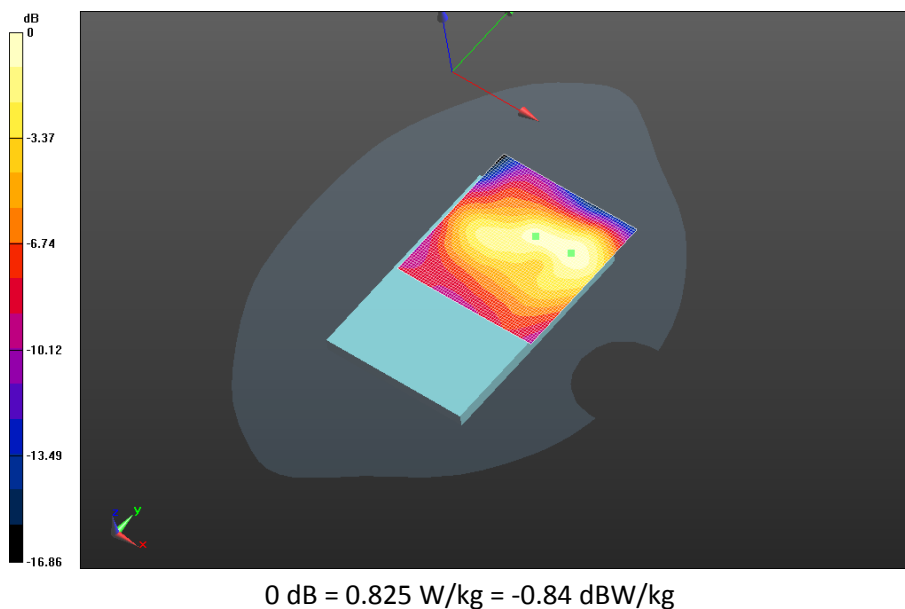


0 dB = 0.840 W/kg = -0.76 dBW/kg

|                                                                                   |                              |                                                                                                          |                    |                       |  |
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| Author Data                                                                       | Dates of Test                | Test Report No                                                                                           | FCC ID:            | IC                    |  |
| <b>Andrew Becker</b>                                                              | <b>Mar 30 – May 14, 2015</b> | <b>RTS-6067-1505-05 Rev2</b>                                                                             | <b>L6ARHR190LW</b> | <b>2503A-RHR190LW</b> |  |

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band**  
**4\_chan20175\_20MHz\_BW\_RB50\_Offset\_Low\_amb\_temp\_23.8C\_liq\_temp\_20.7C/Area Scan**  
**(61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 10.545 V/m; **Power Drift = 0.079 dB**

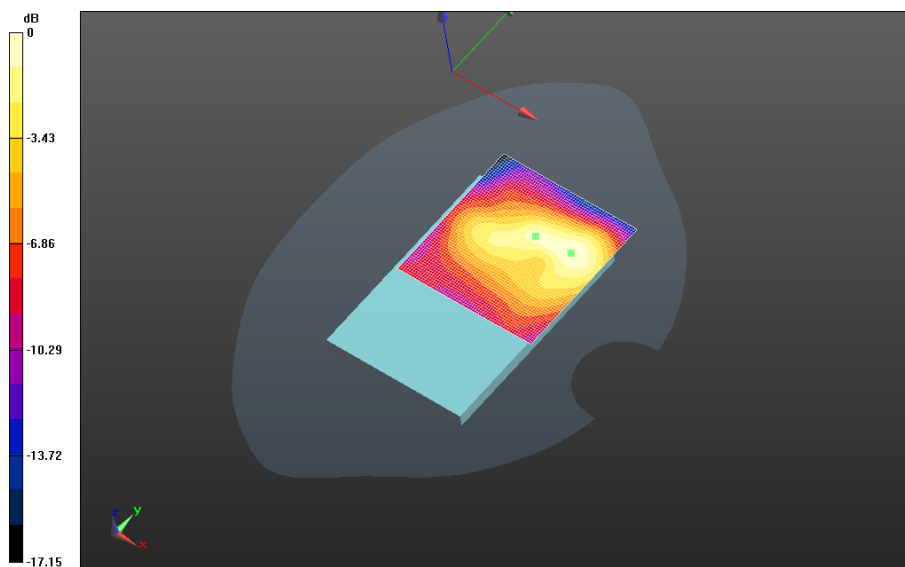
**Fast SAR: SAR(1g) = 0.728 W/kg; SAR(10g) = 0.412 W/kg; Secondary SAR(1g) = 0.654 W/kg**  
 Maximum value of SAR (interpolated) = 0.825 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band**  
**4\_chan20300\_20MHz\_BW\_RB50\_Offset\_High\_amb\_temp\_23.6C\_liq\_temp\_20.6C/Area Scan**  
**(61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 10.828 V/m; **Power Drift = -0.020 dB**

**Fast SAR: SAR(1g) = 0.828 W/kg; SAR(10g) = 0.464 W/kg; Secondary SAR(1g) = 0.717 W/kg**  
Maximum value of SAR (interpolated) = 0.944 W/kg

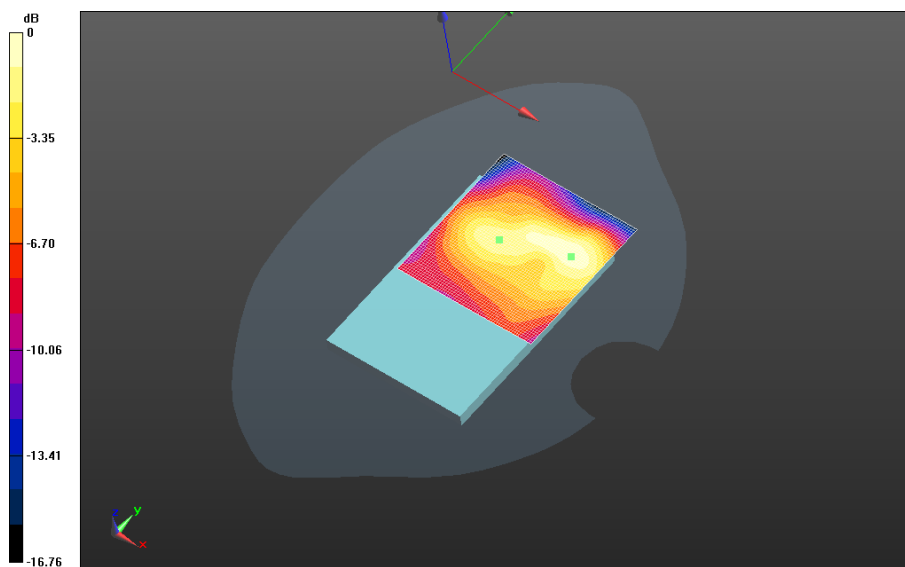


0 dB = 0.944 W/kg = -0.25 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band**  
**4\_chan20050\_20MHz\_BW\_RB100\_Offset\_Low\_amb\_temp\_23.7C\_liq\_temp\_20.7C/Area Scan**  
**(61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 10.757 V/m; **Power Drift = -0.028 dB**

**Fast SAR: SAR(1g) = 0.660 W/kg; SAR(10g) = 0.370 W/kg; Secondary SAR(1g) = 0.627 W/kg**  
Maximum value of SAR (interpolated) = 0.757 W/kg

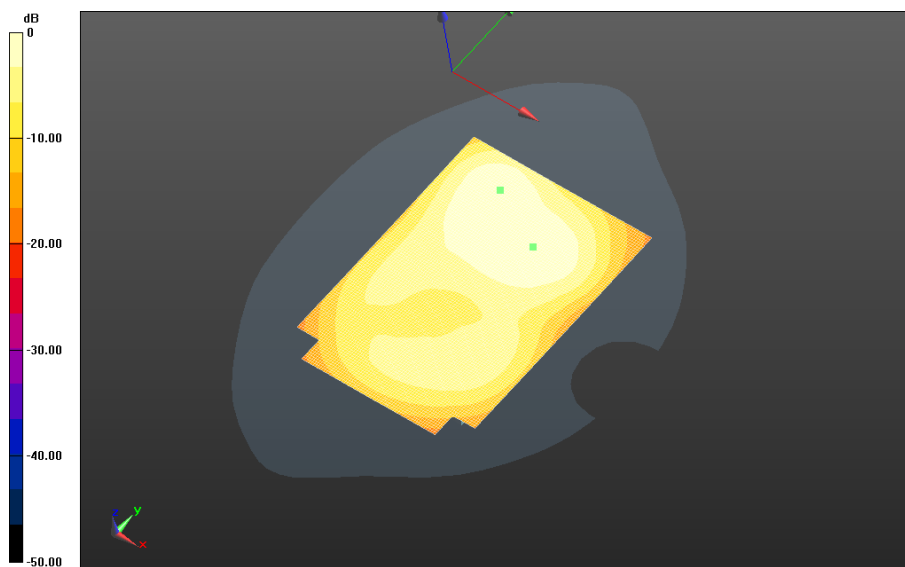


0 dB = 0.757 W/kg = -1.21 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Front - LTE band**  
**4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_24.0C\_liq\_temp\_20.6C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 12.179 V/m; **Power Drift = 0.00184 dB**

**Fast SAR: SAR(1g) = 0.626 W/kg; SAR(10g) = 0.381 W/kg; Secondary SAR(1g) = 0.608 W/kg**  
Maximum value of SAR (interpolated) = 0.700 W/kg

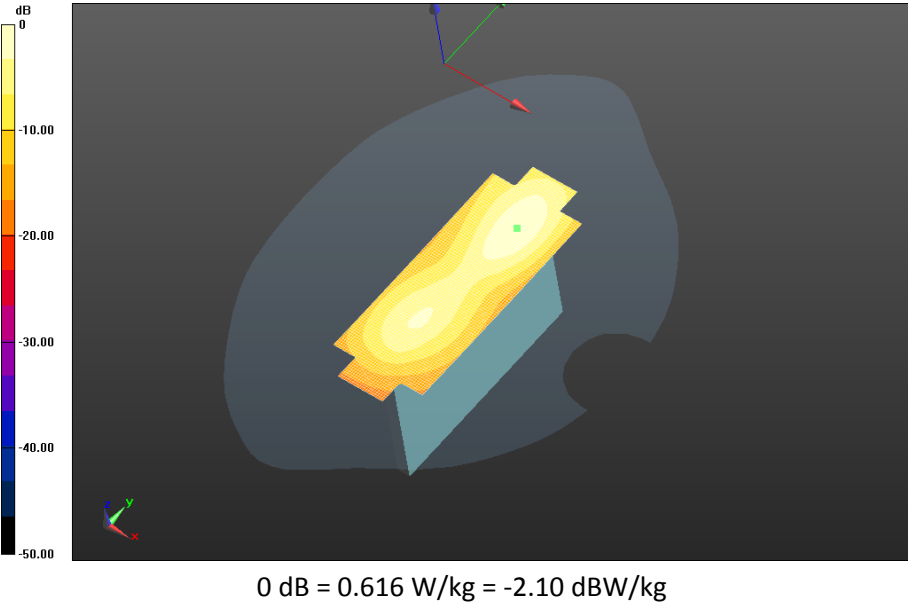


0 dB = 0.700 W/kg = -1.55 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Right - LTE band**  
**4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_24.0C\_liq\_temp\_20.7C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 11.750 V/m; **Power Drift = 0.038 dB**

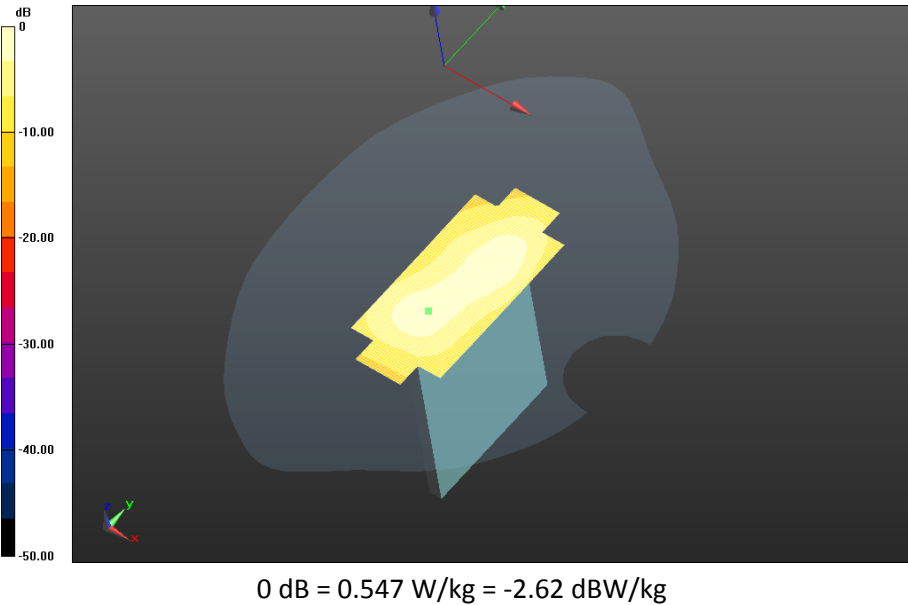
**Fast SAR: SAR(1g) = 0.534 W/kg; SAR(10g) = 0.290 W/kg; Secondary SAR(1g) = 0.608 W/kg**  
Maximum value of SAR (interpolated) = 0.616 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Bottom - LTE band**  
**4\_chan20300\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_24.0C\_liq\_temp\_20.6C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 15.653 V/m; **Power Drift = -0.048 dB**

**Fast SAR: SAR(1g) = 0.473 W/kg; SAR(10g) = 0.260 W/kg; Secondary SAR(1g) = 0.608 W/kg**  
Maximum value of SAR (interpolated) = 0.547 W/kg



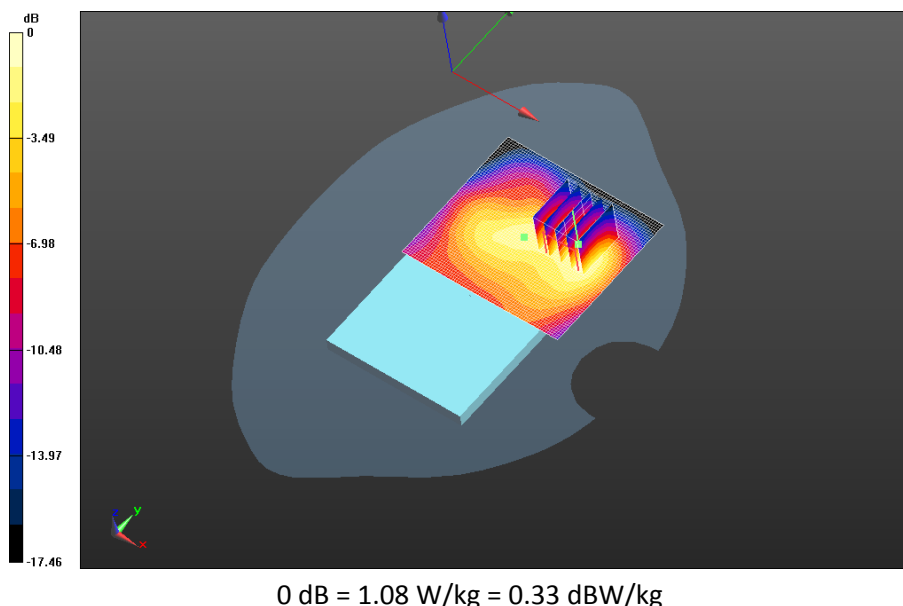
|                                                                                   |                                               |                                                                                                                      |                               |                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------|
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - LTE Band 4/2nd Scan 10mm Device Back - LTE band 4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_20.7C 2/Area Scan (71x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 11.991 V/m; **Power Drift = -0.108 dB**

**Fast SAR: SAR(1g) = 0.921 W/kg; SAR(10g) = 0.523 W/kg; Secondary SAR(1g) = 0.719 W/kg**  
Maximum value of SAR (interpolated) = 1.15 W/kg

**Mobile Hot Spot MSL - LTE Band 4/2nd Scan 10mm Device Back - LTE band 4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_20.7C 2/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 11.991 V/m; **Power Drift = -0.108 dB**

**Averaged SAR: SAR(1g) = 0.947 W/kg; SAR(10g) = 0.528 W/kg**  
Maximum value of SAR (interpolated) = 1.47 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

Date: 4/15/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

### **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;  $\sigma = 1.501$  S/m;  $\epsilon_r = 51.748$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.5,4.5,4.5); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

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

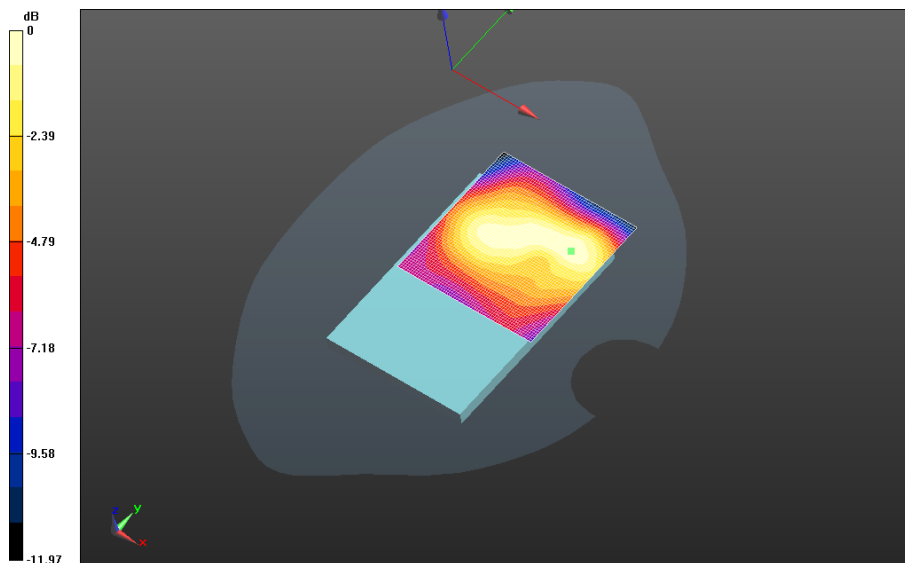
**4\_chan20050\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.5C\_liq\_temp\_20.5C/Area Scan**

**(61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 9.657 V/m; **Power Drift = -0.00672 dB**

**Fast SAR: SAR(1g) = 0.399 W/kg; SAR(10g) = 0.245 W/kg**

Maximum value of SAR (interpolated) = 0.444 W/kg



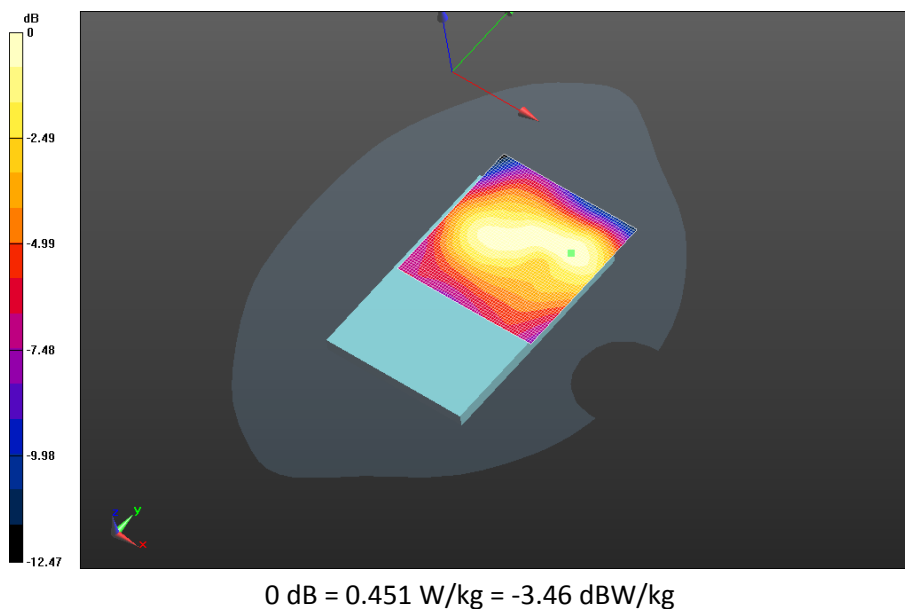
|                                                                                   |                                               |                                                                                                                      |                               |                             |                        |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |                        |

0 dB = 0.444 W/kg = -3.53 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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**Body Worn MSL - LTE band 4/15mm Device Back - LTE band**  
**4\_chan20175\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.5C\_liq\_temp\_20.5C/Area Scan**  
**(61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 9.873 V/m; **Power Drift = -0.028 dB**

**Fast SAR: SAR(1g) = 0.404 W/kg; SAR(10g) = 0.243 W/kg**  
Maximum value of SAR (interpolated) = 0.451 W/kg



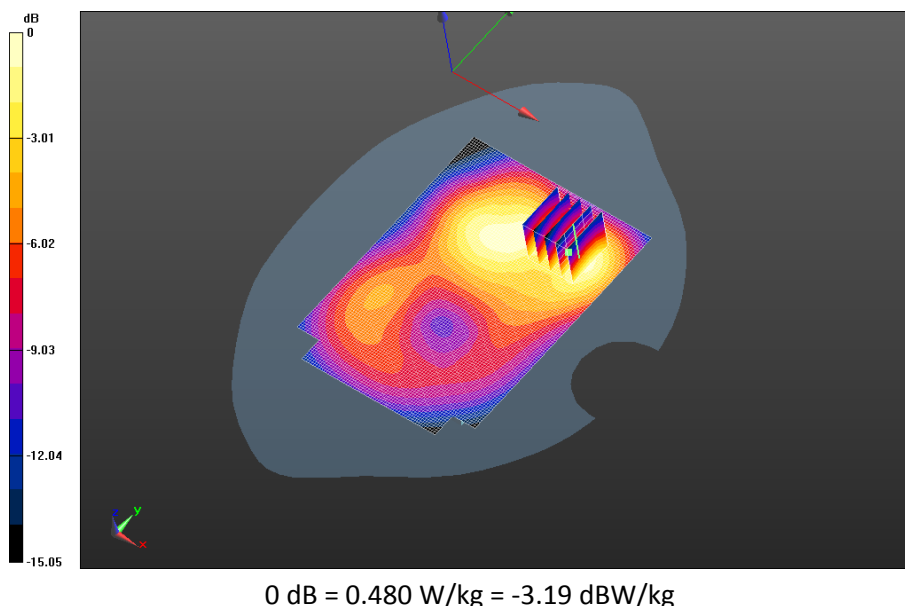
|                                                                                   |                                               |                                                                                                                      |                               |                             |
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|  |                                               | Document<br><b>Appendix B for the BlackBerry® Smartphone Model RHR191LW</b><br><b>(SQW100-4) SAR Report Part 2/3</b> |                               | Page<br><b>25(123)</b>      |
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**Body Worn MSL - LTE band 4/15mm Device Back - LTE band 4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.5C\_liq\_temp\_20.5C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 10.102 V/m; **Power Drift = -0.028 dB**

**Fast SAR: SAR(1g) = 0.453 W/kg; SAR(10g) = 0.262 W/kg**  
Maximum value of SAR (interpolated) = 0.508 W/kg

**Body Worn MSL - LTE band 4/15mm Device Back - LTE band 4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.5C\_liq\_temp\_20.5C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 10.102 V/m; **Power Drift = -0.028 dB**

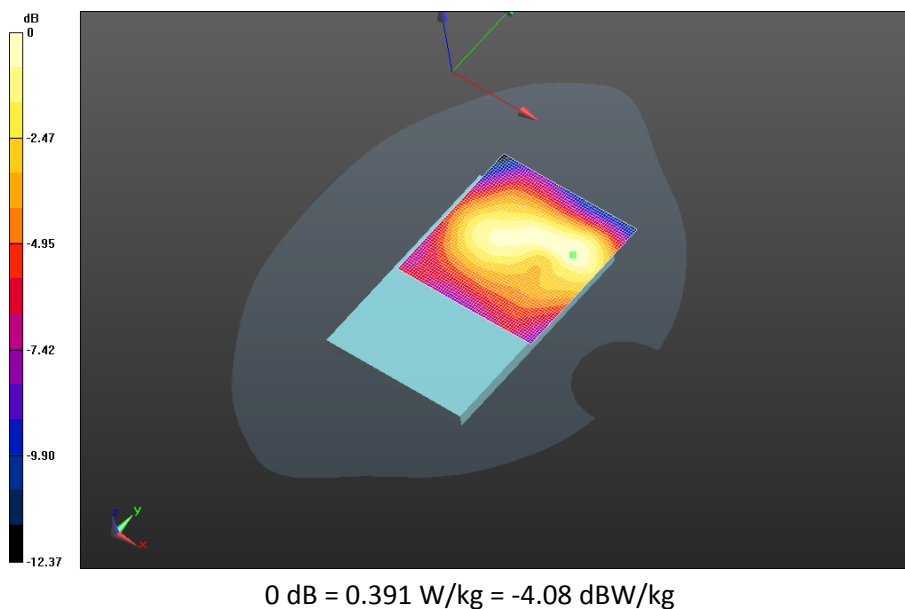
**Averaged SAR: SAR(1g) = 0.457 W/kg; SAR(10g) = 0.270 W/kg**  
Maximum value of SAR (interpolated) = 0.676 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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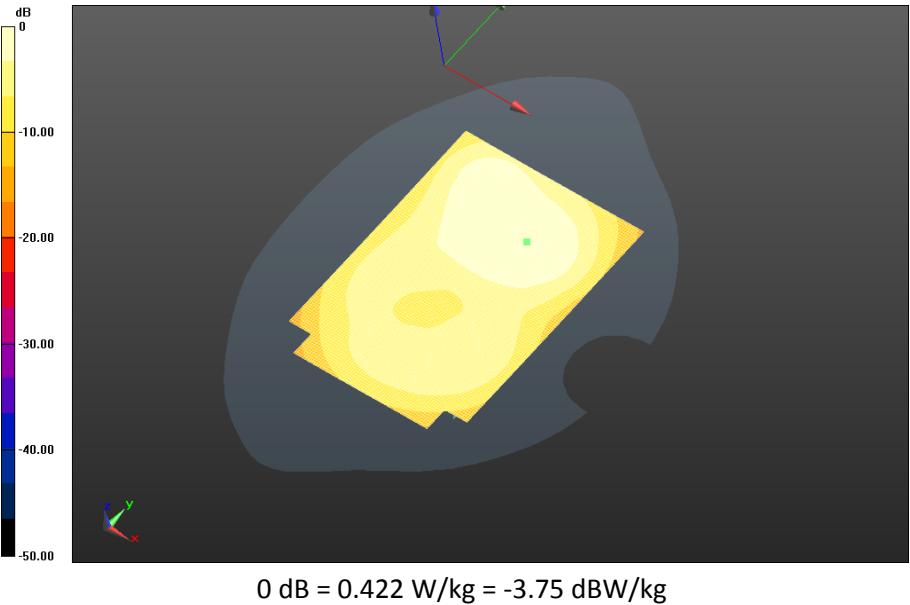
**Body Worn MSL - LTE band 4/15mm Device Back - LTE band**  
**4\_chan20300\_20MHz\_BW\_RB50\_Offset\_High\_amb\_temp\_23.5C\_liq\_temp\_20.5C/Area Scan**  
**(61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.779 V/m; **Power Drift = 0.030 dB**

**Fast SAR: SAR(1g) = 0.349 W/kg; SAR(10g) = 0.203 W/kg**  
Maximum value of SAR (interpolated) = 0.391 W/kg



**Body Worn MSL - LTE band 4/15mm Device Front - LTE band**  
**4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.7C\_liq\_temp\_20.6C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 10.137 V/m; **Power Drift = -0.039 dB**

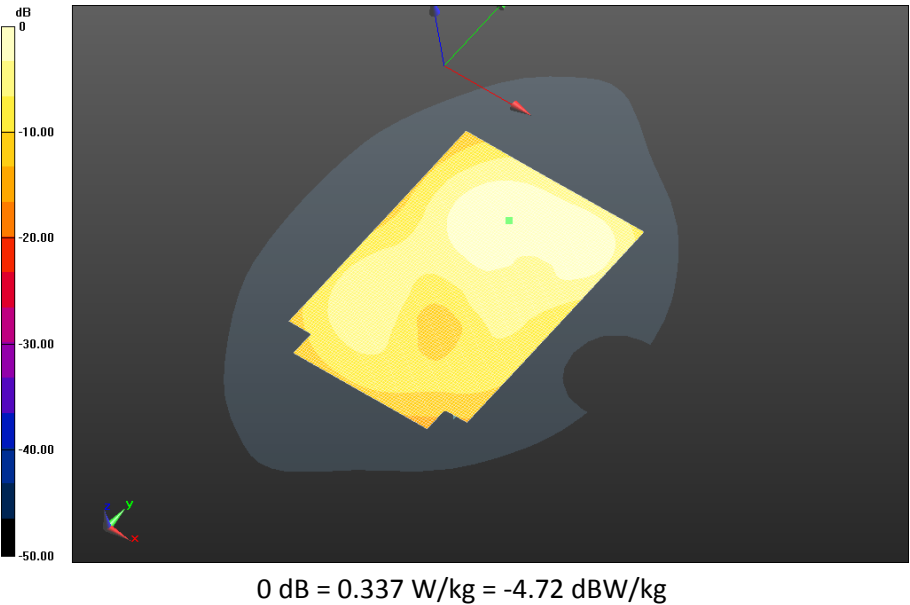
**Fast SAR: SAR(1g) = 0.393 W/kg; SAR(10g) = 0.246 W/kg**  
 Maximum value of SAR (interpolated) = 0.422 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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**Body Worn MSL - LTE band 4/Holster Device Back - LTE band 4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.7C\_liq\_temp\_20.7C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.458 V/m; **Power Drift = 0.00831 dB**

**Fast SAR: SAR(1g) = 0.311 W/kg; SAR(10g) = 0.193 W/kg**  
Maximum value of SAR (interpolated) = 0.337 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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## UMTS Band IV

Date: 4/15/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

### Configuration: Right-Hand-Side HSL -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;  $\sigma = 1.364$  S/m;  $\epsilon_r = 38.597$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (5.18,5.18,5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

### Right-Hand-Side HSL -UMTS band IV/Touch Position -UMTS band

**IV\_chan1312\_amb\_temp\_23.6C\_liq\_temp\_21.4C/Area Scan (121x61x1):** Interpolated grid:

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

Reference Value = 12.587 V/m; **Power Drift = -0.024 dB**

**Fast SAR: SAR(1g) = 0.711 W/kg; SAR(10g) = 0.434 W/kg**

Maximum value of SAR (interpolated) = 0.776 W/kg

### Right-Hand-Side HSL -UMTS band IV/Touch Position -UMTS band

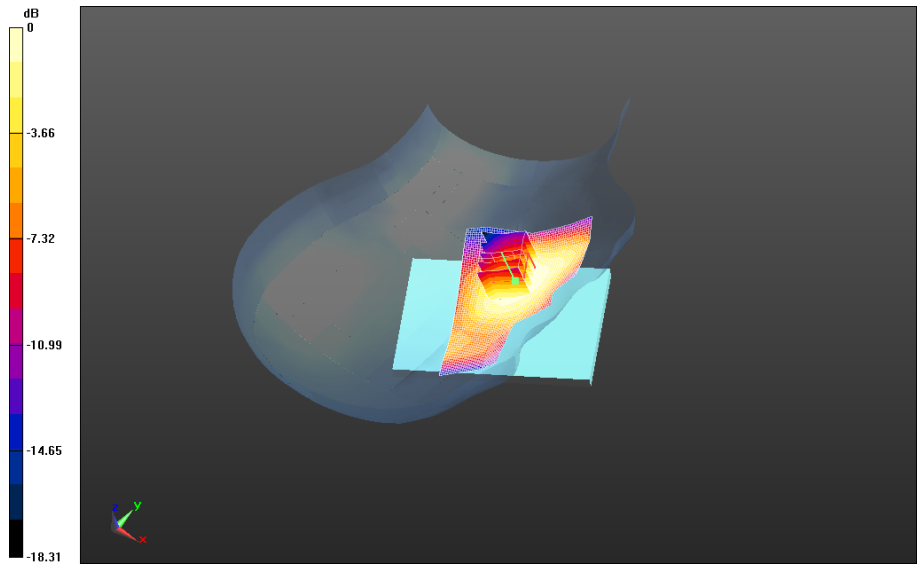
**IV\_chan1312\_amb\_temp\_23.6C\_liq\_temp\_21.4C/Zoom Scan (21x21x36)/Cube 0:** Interpolated

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

Reference Value = 12.587 V/m; **Power Drift = -0.024 dB**

**Averaged SAR: SAR(1g) = 0.684 W/kg; SAR(10g) = 0.466 W/kg**

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

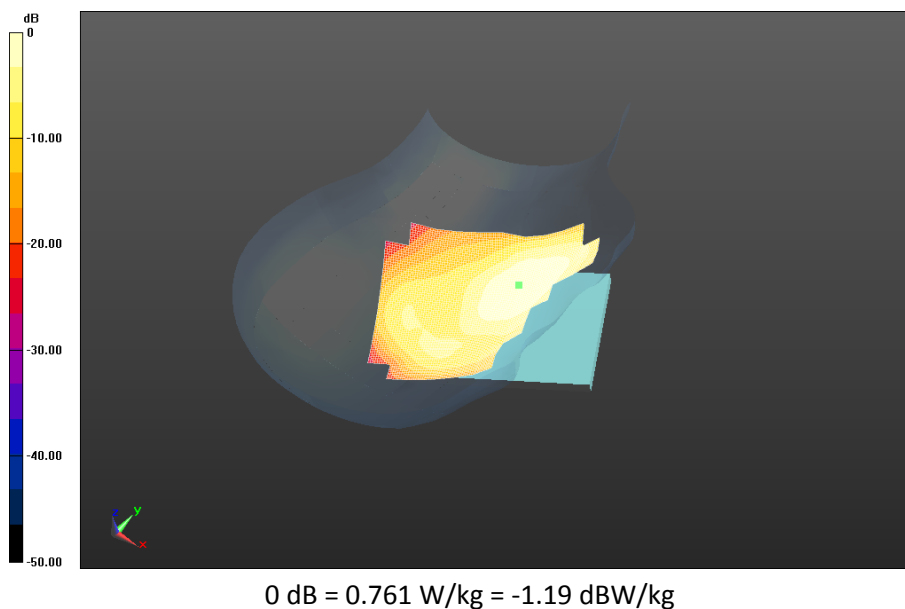


0 dB = 0.732 W/kg = -1.35 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

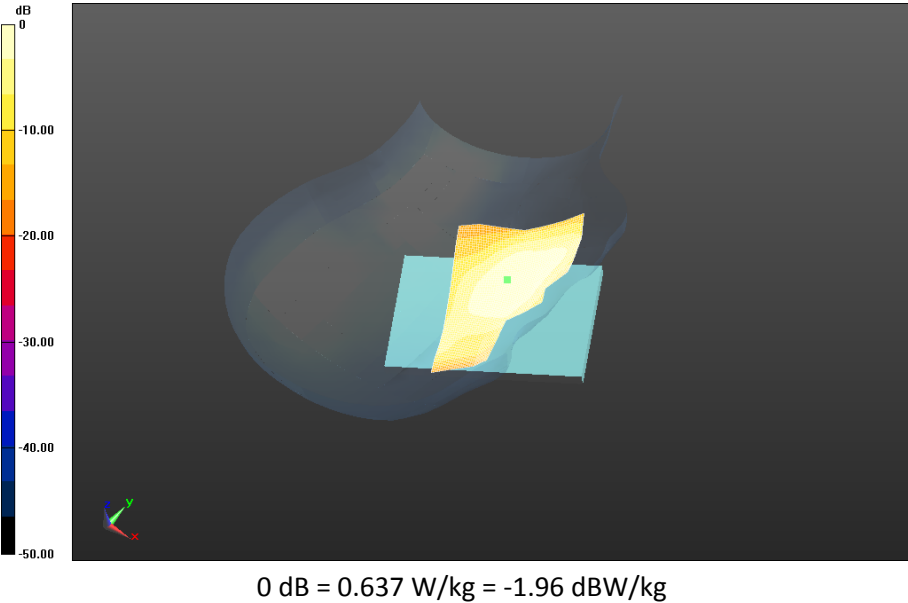
**Right-Hand-Side HSL -UMTS band IV/Touch Position -UMTS band**  
**IV\_chan1413\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 12.218 V/m; **Power Drift = 0.066 dB**

**Fast SAR: SAR(1g) = 0.698 W/kg; SAR(10g) = 0.424 W/kg**  
Maximum value of SAR (interpolated) = 0.761 W/kg



**Right-Hand-Side HSL -UMTS band IV/Touch Position -UMTS band**  
**IV\_chan1513\_amb\_temp\_23.5C\_liq\_temp\_21.5C/Area Scan (121x61x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 11.081 V/m; **Power Drift = -0.0015 dB**

**Fast SAR: SAR(1g) = 0.586 W/kg; SAR(10g) = 0.363 W/kg**  
 Maximum value of SAR (interpolated) = 0.637 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

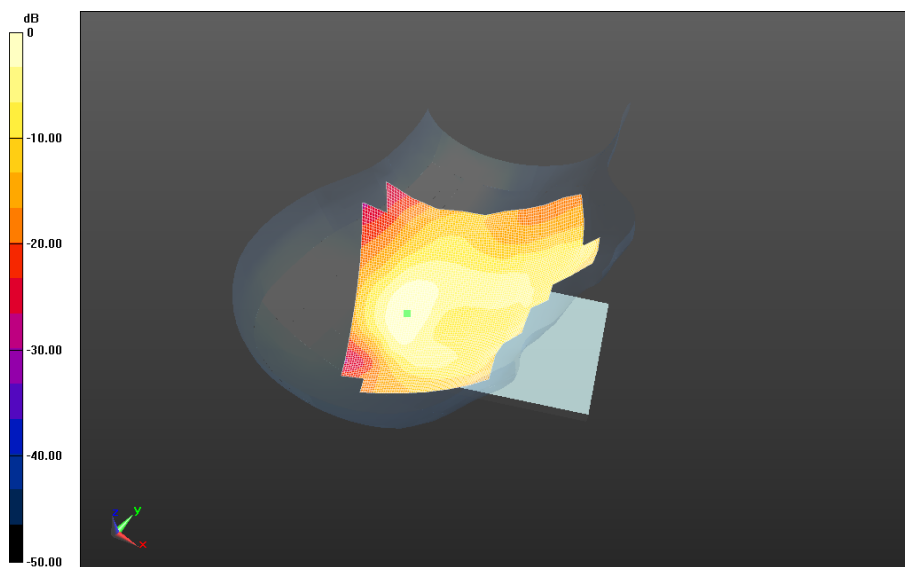
**IV\_chan1413\_amb\_temp\_23.5C\_liq\_temp\_21.4C/Area Scan (121x171x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 16.058 V/m; **Power Drift = 0.00684 dB**

**Fast SAR: SAR(1g) = 0.291 W/kg; SAR(10g) = 0.163 W/kg**

Maximum value of SAR (interpolated) = 0.330 W/kg



0 dB = 0.330 W/kg = -4.81 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

Date: 4/15/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

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

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

Frequency: 1732.6 MHz

Medium Parameters used:  $f=1732.6$  MHz;  $\sigma = 1.388$  S/m;  $\epsilon_r = 38.543$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

#### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (5.18,5.18,5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

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

**IV\_chan1413\_amb\_temp\_23.7C\_liq\_temp\_21.9C/Area Scan (121x171x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 10.408 V/m; **Power Drift = -0.051 dB**

**Fast SAR: SAR(1g) = 0.346 W/kg; SAR(10g) = 0.213 W/kg**

Maximum value of SAR (interpolated) = 0.382 W/kg

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

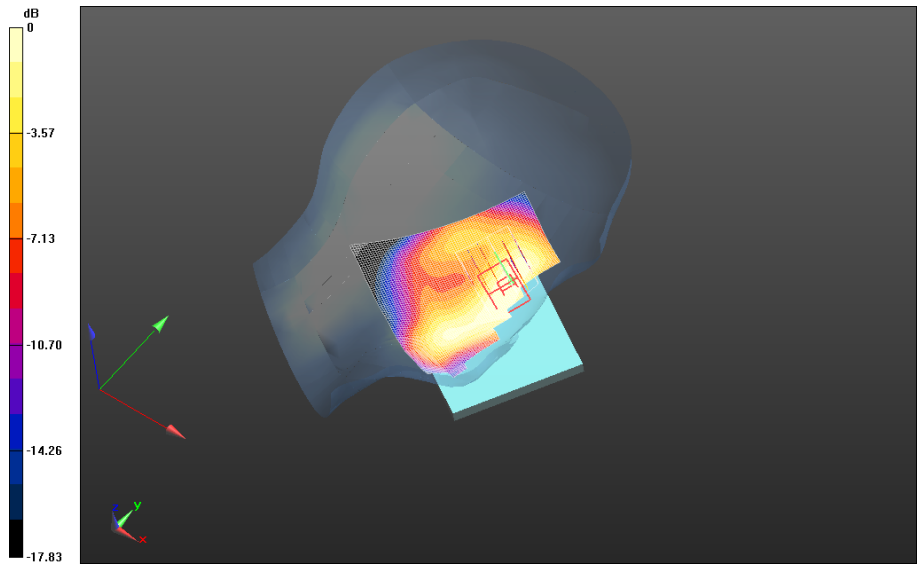
**IV\_chan1413\_amb\_temp\_23.7C\_liq\_temp\_21.9C/Zoom Scan (26x26x36)/Cube 0:** Interpolated

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

Reference Value = 10.408 V/m; **Power Drift = -0.051 dB**

**Averaged SAR: SAR(1g) = 0.360 W/kg; SAR(10g) = 0.241 W/kg**

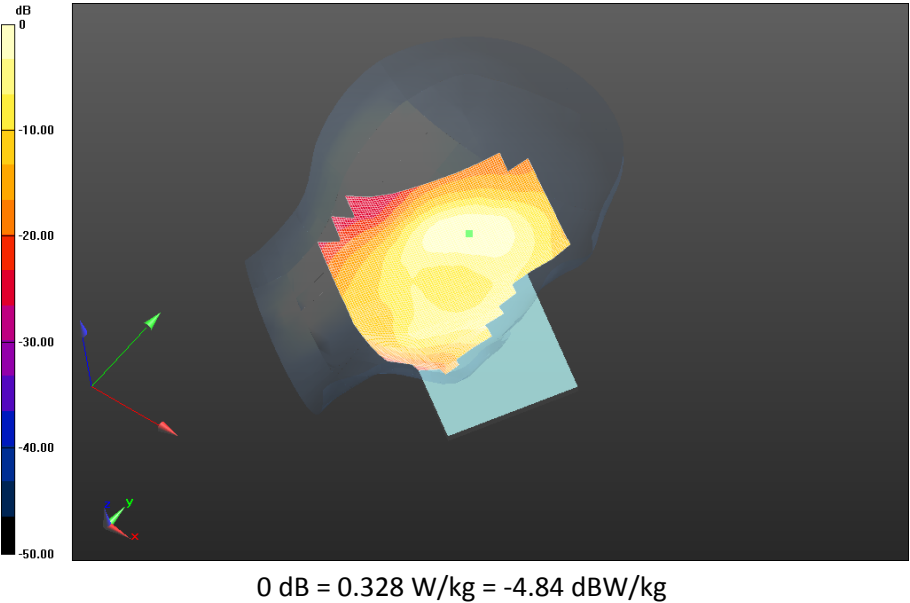
Maximum value of SAR (interpolated) = 0.478 W/kg



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

**Left-Hand-Side HSL - UMTS band IV/Tilt Position - UMTS band**  
**IV\_chan1413\_amb\_temp\_23.8C\_liq\_temp\_21.8C/Area Scan 2 (121x171x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 14.220 V/m; **Power Drift = 0.100 dB**

**Fast SAR: SAR(1g) = 0.290 W/kg; SAR(10g) = 0.167 W/kg**  
 Maximum value of SAR (interpolated) = 0.328 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

Date: 4/15/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686664**

### **Configuration: Mobile Hot Spot MSL - UMTS IV**

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

Frequency: 1712.4 MHz

Medium Parameters used:  $f=1712.4$  MHz;  $\sigma = 1.494$  S/m;  $\epsilon_r = 51.773$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.5,4.5,4.5); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

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

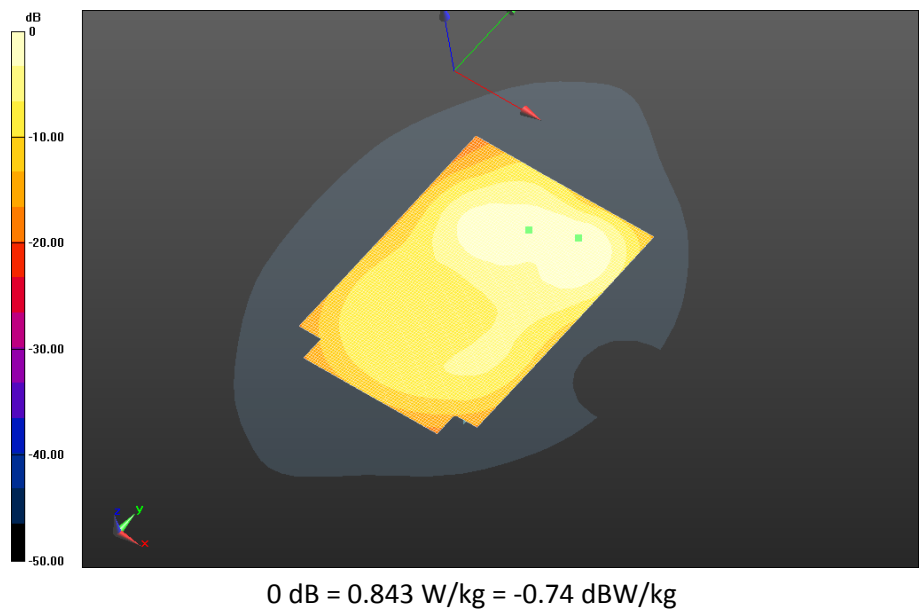
**IV\_chan1312\_amb\_temp\_24.0C\_liq\_temp\_21.5C/Area Scan (121x171x1):** Interpolated grid:

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

Reference Value = 11.589 V/m; **Power Drift = -0.056 dB**

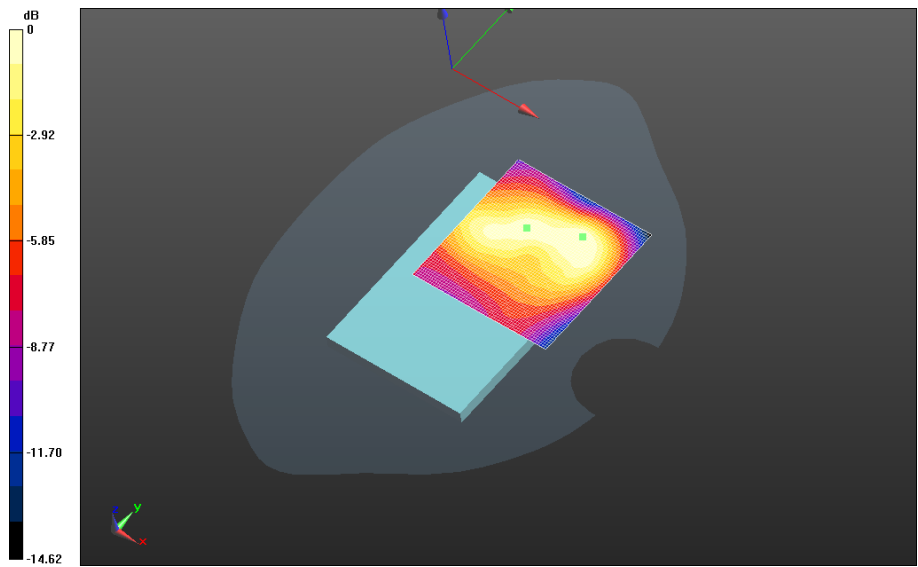
**Fast SAR: SAR(1g) = 0.753 W/kg; SAR(10g) = 0.463 W/kg; Secondary SAR(1g) = 0.750 W/kg**

Maximum value of SAR (interpolated) = 0.843 W/kg



**Mobile Hot Spot MSL - UMTS IV/10mm Device Back - UMTS**  
**IV\_chan1413\_amb\_temp\_23.8C\_liq\_temp\_21.6C/Area Scan (61x61x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 11.705 V/m; **Power Drift = -0.076 dB**

**Fast SAR: SAR(1g) = 0.797 W/kg; SAR(10g) = 0.495 W/kg; Secondary SAR(1g) = 0.781 W/kg**  
Maximum value of SAR (interpolated) = 0.901 W/kg



0 dB = 0.901 W/kg = -0.45 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

**IV\_chan1513\_amb\_temp\_23.7C\_liq\_temp\_21.6C/Area Scan (61x61x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 12.601 V/m; **Power Drift = -0.0067 dB**

**Fast SAR: SAR(1g) = 1.11 W/kg; SAR(10g) = 0.643 W/kg; Secondary SAR(1g) = 0.960 W/kg**

Maximum value of SAR (interpolated) = 1.23 W/kg

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

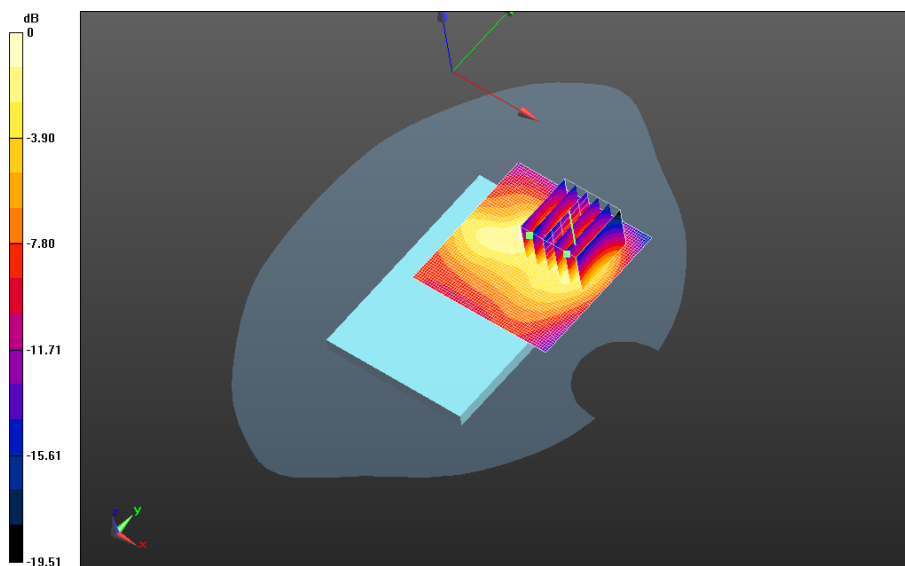
**IV\_chan1513\_amb\_temp\_23.7C\_liq\_temp\_21.6C/Zoom Scan (26x26x36)/Cube 0:** Interpolated

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

Reference Value = 12.601 V/m; **Power Drift = -0.0067 dB**

**Averaged SAR: SAR(1g) = 1.13 W/kg; SAR(10g) = 0.630 W/kg**

Maximum value of SAR (interpolated) = 1.77 W/kg



0 dB = 1.30 W/kg = 1.14 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

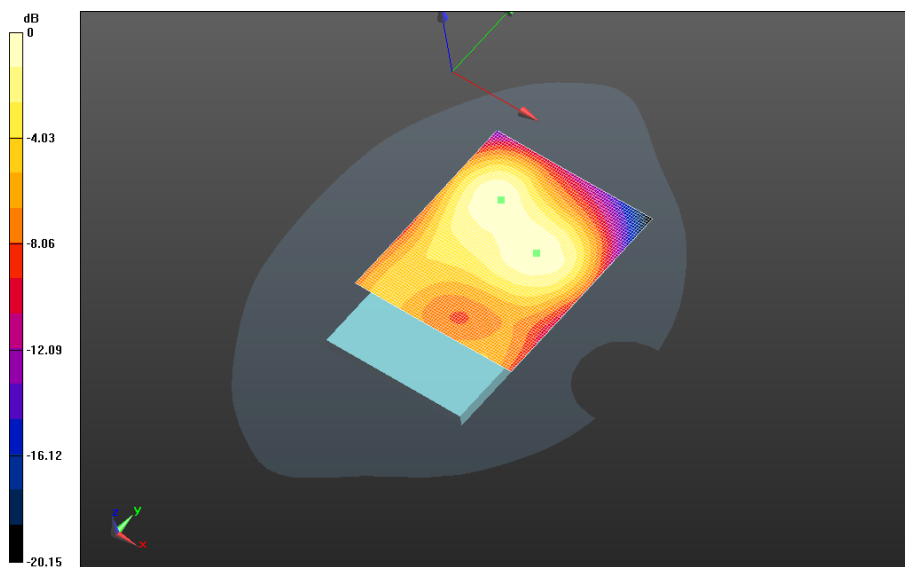
**IV\_chan1312\_amb\_temp\_23.5C\_liq\_temp\_21.6C/Area Scan (71x81x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 13.519 V/m; **Power Drift = -0.125 dB**

**Fast SAR: SAR(1g) = 0.757 W/kg; SAR(10g) = 0.471 W/kg; Secondary SAR(1g) = 0.752 W/kg**

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



0 dB = 0.840 W/kg = -0.76 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

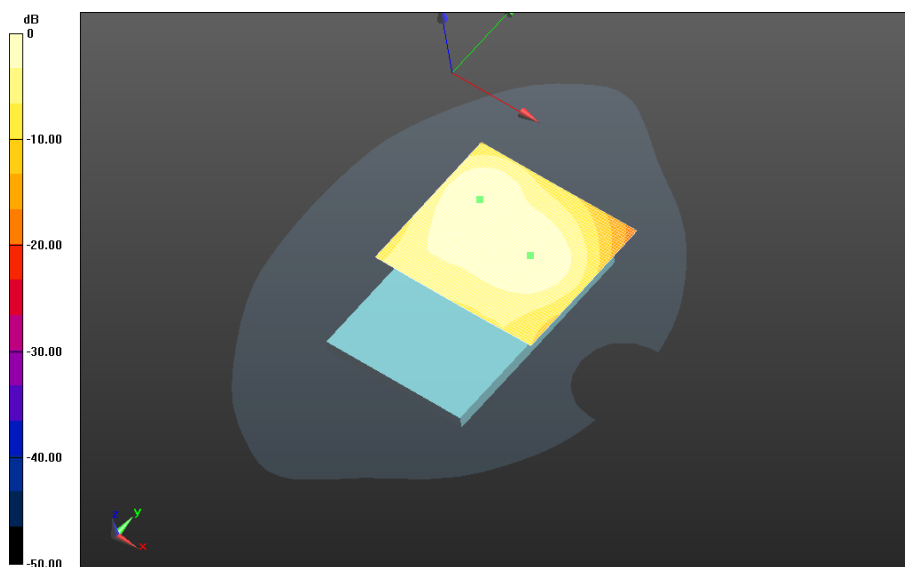
**IV\_chan1413\_amb\_temp\_23.6C\_liq\_temp\_21.5C/Area Scan (71x71x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 14.117 V/m; **Power Drift = -0.048 dB**

**Fast SAR: SAR(1g) = 0.743 W/kg; SAR(10g) = 0.465 W/kg; Secondary SAR(1g) = 0.740 W/kg**

Maximum value of SAR (interpolated) = 0.805 W/kg



0 dB = 0.805 W/kg = -0.94 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

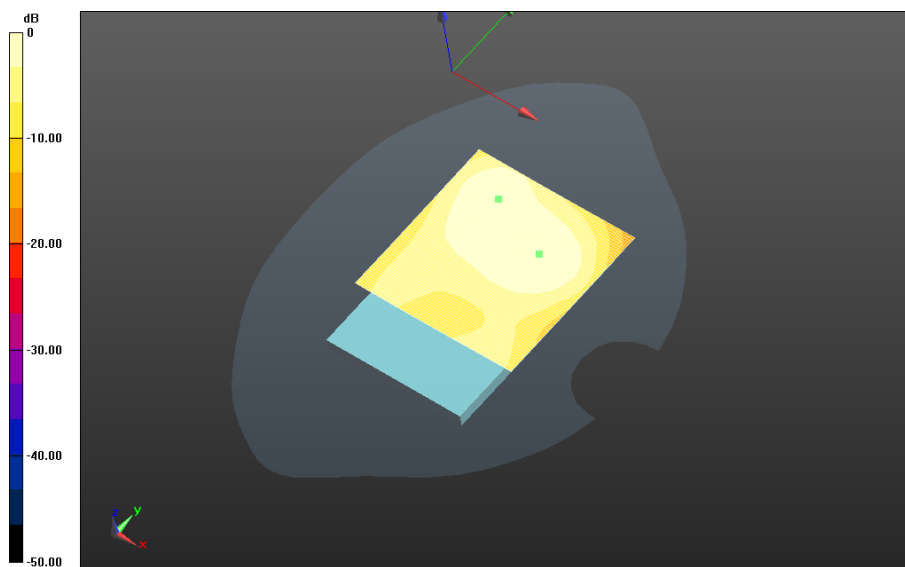
**IV\_chan1513\_amb\_temp\_23.6C\_liq\_temp\_21.6C/Area Scan (71x81x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 13.726 V/m; **Power Drift = -0.052 dB**

**Fast SAR: SAR(1g) = 0.770 W/kg; SAR(10g) = 0.480 W/kg; Secondary SAR(1g) = 0.765 W/kg**

Maximum value of SAR (interpolated) = 0.844 W/kg

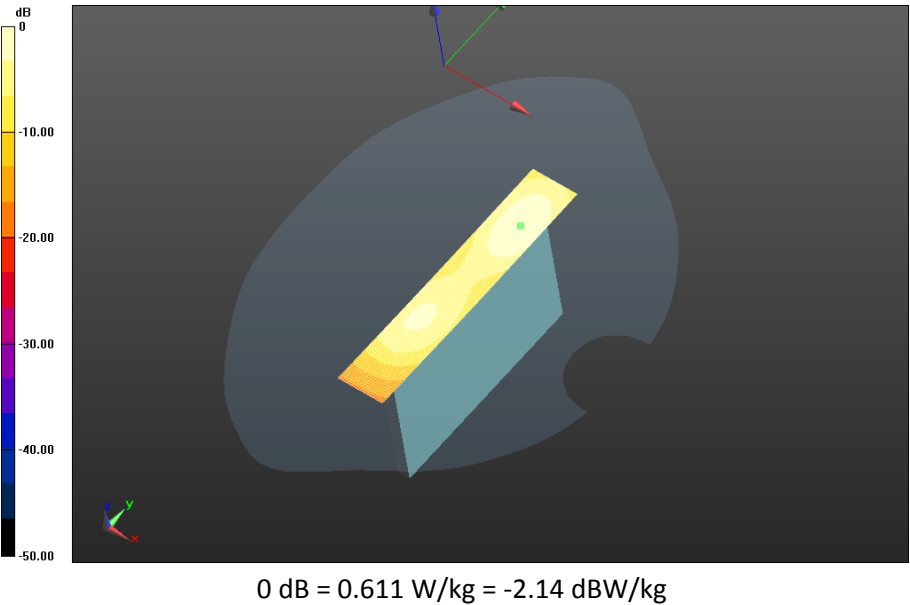


0 dB = 0.844 W/kg = -0.74 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - UMTS IV/10mm Device Right - UMTS**  
**IV\_chan1413\_amb\_temp\_23.9C\_liq\_temp\_22.3C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 11.598 V/m; **Power Drift = 0.015 dB**

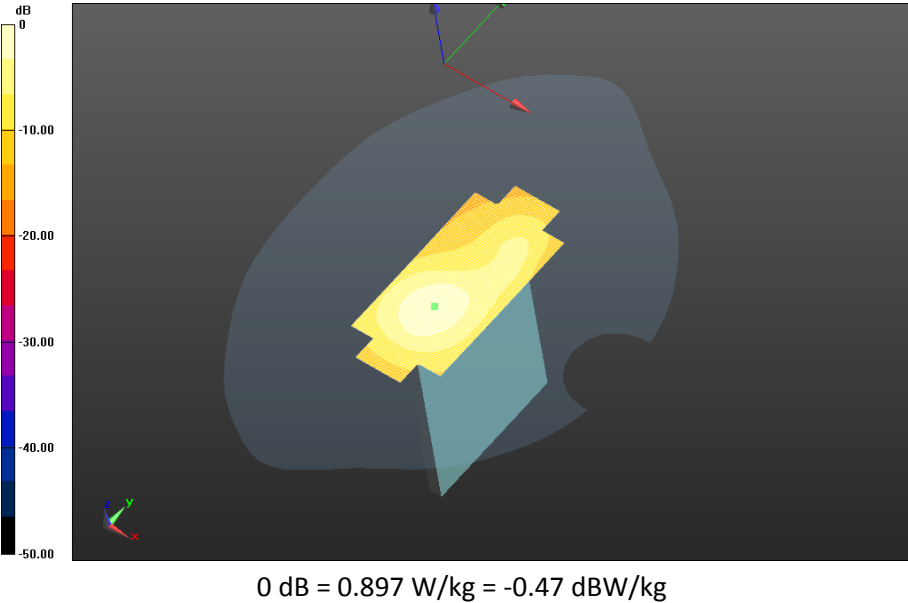
**Fast SAR: SAR(1g) = 0.543 W/kg; SAR(10g) = 0.299 W/kg**  
Maximum value of SAR (interpolated) = 0.611 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - UMTS IV/10mm Device Bottom - UMTS**  
**IV\_chan1312\_amb\_temp\_23.8C\_liq\_temp\_21.3C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 16.426 V/m; **Power Drift = -0.048 dB**

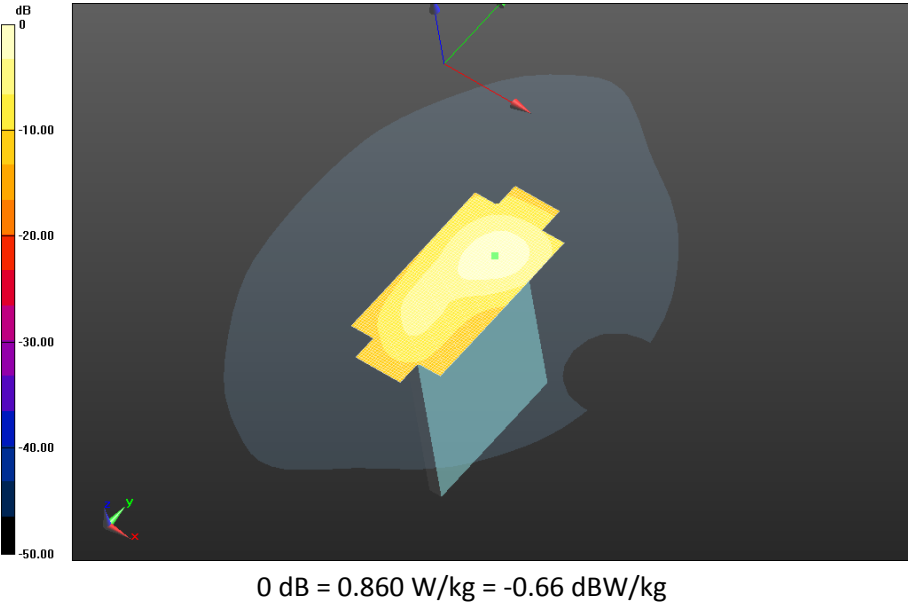
**Fast SAR: SAR(1g) = 0.798 W/kg; SAR(10g) = 0.448 W/kg; Secondary SAR(1g) = 0.765 W/kg**  
Maximum value of SAR (interpolated) = 0.897 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - UMTS IV/10mm Device Bottom - UMTS**  
**IV\_chan1413\_amb\_temp\_23.8C\_liq\_temp\_21.3C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 16.095 V/m; **Power Drift = -0.023 dB**

**Fast SAR: SAR(1g) = 0.755 W/kg; SAR(10g) = 0.421 W/kg; Secondary SAR(1g) = 0.765 W/kg**  
Maximum value of SAR (interpolated) = 0.860 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - UMTS IV/10mm Device Bottom - UMTS**

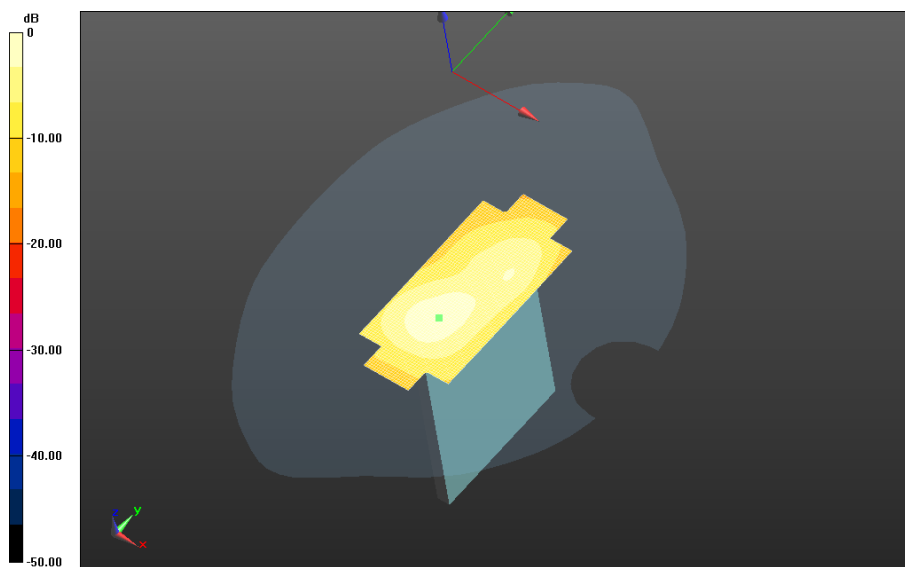
**IV\_chan1513\_amb\_temp\_23.8C\_liq\_temp\_21.3C/Area Scan (121x171x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 15.537 V/m; **Power Drift = -0.034 dB**

**Fast SAR: SAR(1g) = 0.713 W/kg; SAR(10g) = 0.385 W/kg; Secondary SAR(1g) = 0.765 W/kg**

Maximum value of SAR (interpolated) = 0.819 W/kg



0 dB = 0.819 W/kg = -0.87 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - UMTS IV/2nd Scan\_10mm Device Back - UMTS**

**IV\_chan1513\_amb\_temp\_23.5C\_liq\_temp\_21.5C/Area Scan (61x61x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 12.637 V/m; **Power Drift = -0.035 dB**

**Fast SAR: SAR(1g) = 1.09 W/kg; SAR(10g) = 0.633 W/kg; Secondary SAR(1g) = 0.949 W/kg**

Maximum value of SAR (interpolated) = 1.20 W/kg

**Mobile Hot Spot MSL - UMTS IV/2nd Scan\_10mm Device Back - UMTS**

**IV\_chan1513\_amb\_temp\_23.5C\_liq\_temp\_21.5C/Zoom Scan (26x26x36)/Cube 0:** Interpolated

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

Reference Value = 12.637 V/m; **Power Drift = -0.035 dB**

**Averaged SAR: SAR(1g) = 1.14 W/kg; SAR(10g) = 0.631 W/kg**

Maximum value of SAR (interpolated) = 1.77 W/kg

**Mobile Hot Spot MSL - UMTS IV/2nd Scan\_10mm Device Back - UMTS**

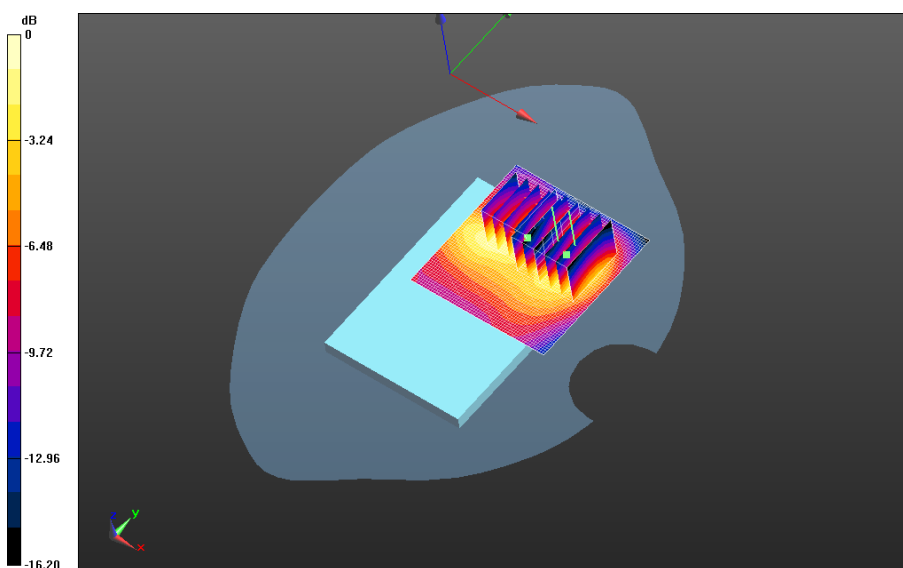
**IV\_chan1513\_amb\_temp\_23.5C\_liq\_temp\_21.5C/Zoom Scan 2 (21x21x36)/Cube 0:**

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

Reference Value = 12.637 V/m; **Power Drift = -0.032 dB**

**Averaged SAR: SAR(1g) = 0.965 W/kg; SAR(10g) = 0.588 W/kg**

Maximum value of SAR (interpolated) = 1.53 W/kg



0 dB = 1.20 W/kg = 0.79 dBW/kg

|                                                                                   |                                               |                                                                                                                 |                               |                             |                        |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                  | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |                        |

Date: 4/15/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686664**

### **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;  $\sigma = 1.494$  S/m;  $\epsilon_r = 51.773$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.5,4.5,4.5); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

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

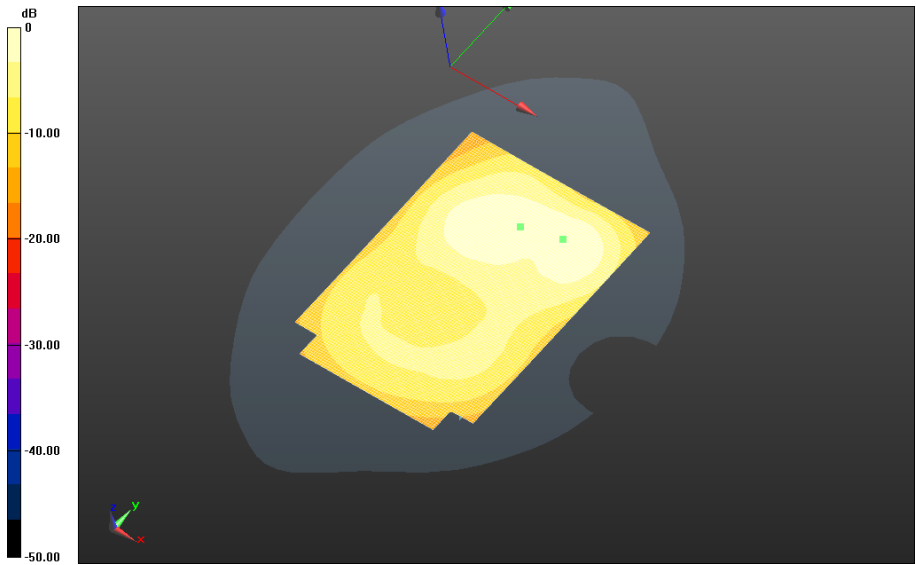
**IV\_chan1312\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Area Scan (121x171x1):** Interpolated grid:

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

Reference Value = 10.769 V/m; **Power Drift = 0.018 dB**

**Fast SAR: SAR(1g) = 0.568 W/kg; SAR(10g) = 0.347 W/kg; Secondary SAR(1g) = 0.544 W/kg**

Maximum value of SAR (interpolated) = 0.633 W/kg



0 dB = 0.633 W/kg = -1.99 dBW/kg

|                                                                                   |                                               |                                                                                                            |                               |                             |
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|  |                                               | Document<br><b>Appendix B for the BlackBerry® Smartphone Model RHR191LW (SQW100-4) SAR Report Part 2/3</b> |                               | Page<br><b>51(123)</b>      |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                             | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

**IV\_chan1413\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Area Scan (61x61x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 10.920 V/m; **Power Drift = 0.079 dB**

**Fast SAR: SAR(1g) = 0.581 W/kg; SAR(10g) = 0.351 W/kg; Secondary SAR(1g) = 0.562 W/kg**

Maximum value of SAR (interpolated) = 0.650 W/kg

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

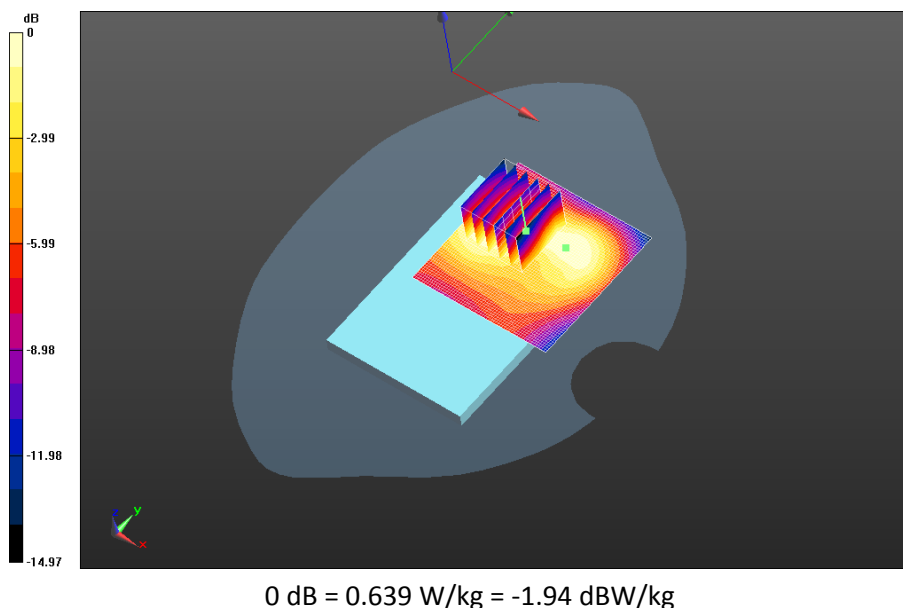
**IV\_chan1413\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Zoom Scan (26x26x36)/Cube 0:** Interpolated

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

Reference Value = 10.920 V/m; **Power Drift = 0.079 dB**

**Averaged SAR: SAR(1g) = 0.579 W/kg; SAR(10g) = 0.372 W/kg**

Maximum value of SAR (interpolated) = 0.788 W/kg



|                                                                                   |                              |                                                                                                          |                    |                       |
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|                                                                                   |                              | <b>Appendix B for the BlackBerry® Smartphone Model RHR191LW</b><br><b>(SQW100-4) SAR Report Part 2/3</b> |                    | <b>52(123)</b>        |
| Author Data                                                                       | Dates of Test                | Test Report No                                                                                           | FCC ID:            | IC                    |
| <b>Andrew Becker</b>                                                              | <b>Mar 30 – May 14, 2015</b> | <b>RTS-6067-1505-05 Rev2</b>                                                                             | <b>L6ARHR190LW</b> | <b>2503A-RHR190LW</b> |

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

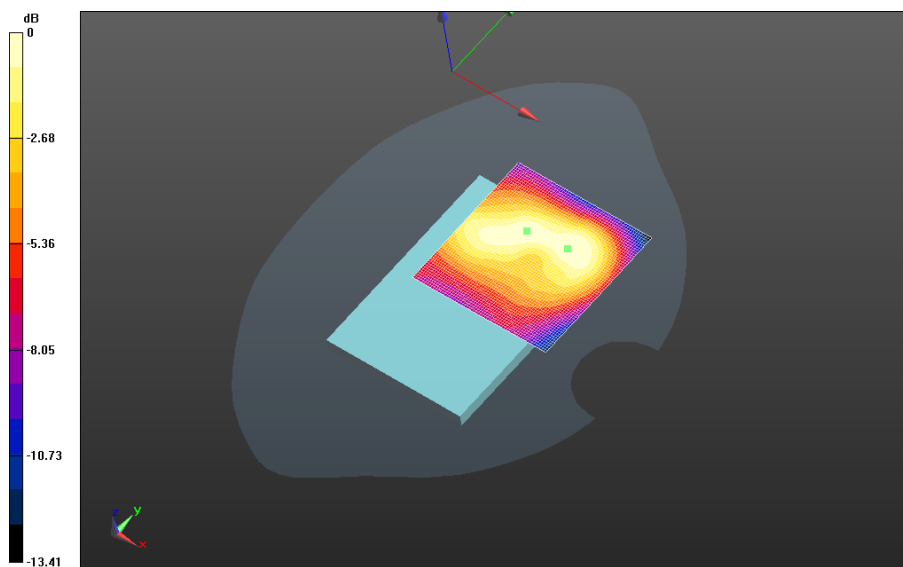
**IV\_chan1513\_amb\_temp\_23.5C\_liq\_temp\_21.2C/Area Scan (61x61x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 10.577 V/m; **Power Drift = -0.00501 dB**

**Fast SAR: SAR(1g) = 0.574 W/kg; SAR(10g) = 0.342 W/kg; Secondary SAR(1g) = 0.566 W/kg**

Maximum value of SAR (interpolated) = 0.639 W/kg



0 dB = 0.639 W/kg = -1.94 dBW/kg

|                                                                                   |                              |                                                                                                          |                    |                       |  |
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|                                                                                   |                              | <b>Appendix B for the BlackBerry® Smartphone Model RHR191LW</b><br><b>(SQW100-4) SAR Report Part 2/3</b> |                    | <b>53(123)</b>        |  |
| Author Data                                                                       | Dates of Test                | Test Report No                                                                                           | FCC ID:            | IC                    |  |
| <b>Andrew Becker</b>                                                              | <b>Mar 30 – May 14, 2015</b> | <b>RTS-6067-1505-05 Rev2</b>                                                                             | <b>L6ARHR190LW</b> | <b>2503A-RHR190LW</b> |  |

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

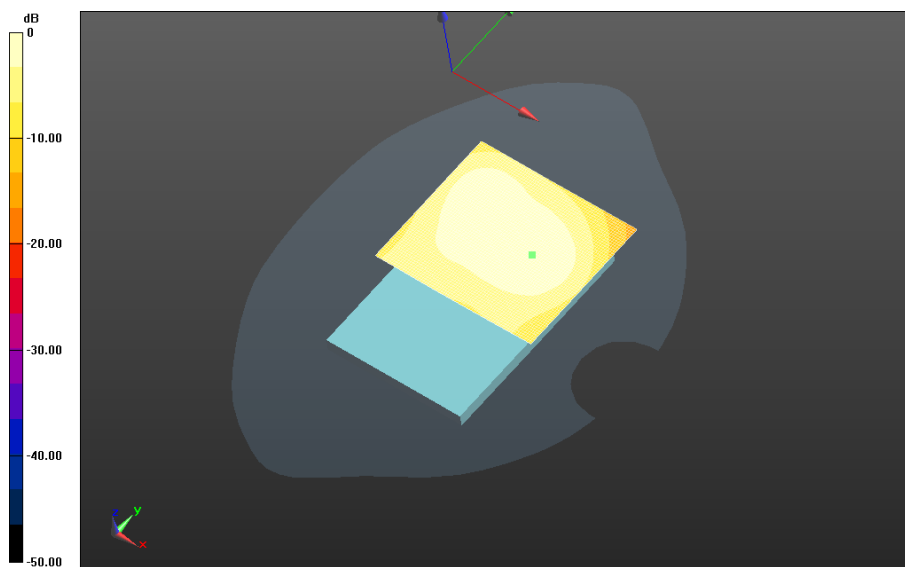
**IV\_chan1413\_amb\_temp\_23.6C\_liq\_temp\_21.2C/Area Scan (71x71x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 11.694 V/m; **Power Drift = 0.019 dB**

**Fast SAR: SAR(1g) = 0.499 W/kg; SAR(10g) = 0.313 W/kg**

Maximum value of SAR (interpolated) = 0.540 W/kg

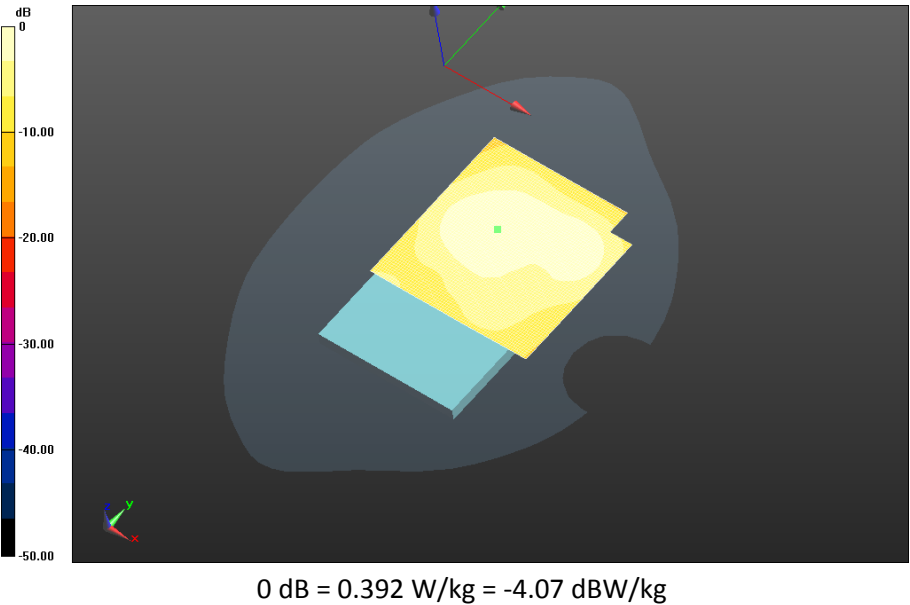


0 dB = 0.540 W/kg = -2.68 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Body Worn MSL - UMTS band IV/Holster Device Back - UMTS**  
**IV\_chan1413\_amb\_temp\_23.4C\_liq\_temp\_21.2C/Area Scan (71x71x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 10.189 V/m; **Power Drift = -0.055 dB**

**Fast SAR: SAR(1g) = 0.363 W/kg; SAR(10g) = 0.226 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>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

## LTE Band 2

Date: 4/10/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

### Configuration: Right-Hand-Side HSL -LTE band 2

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

Medium Parameters used:  $f=1860$  MHz;  $\sigma = 1.369$  S/m;  $\epsilon_r = 38.619$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (5.18,5.18,5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

### Right-Hand-Side HSL -LTE band 2/Touch Position -LTE band

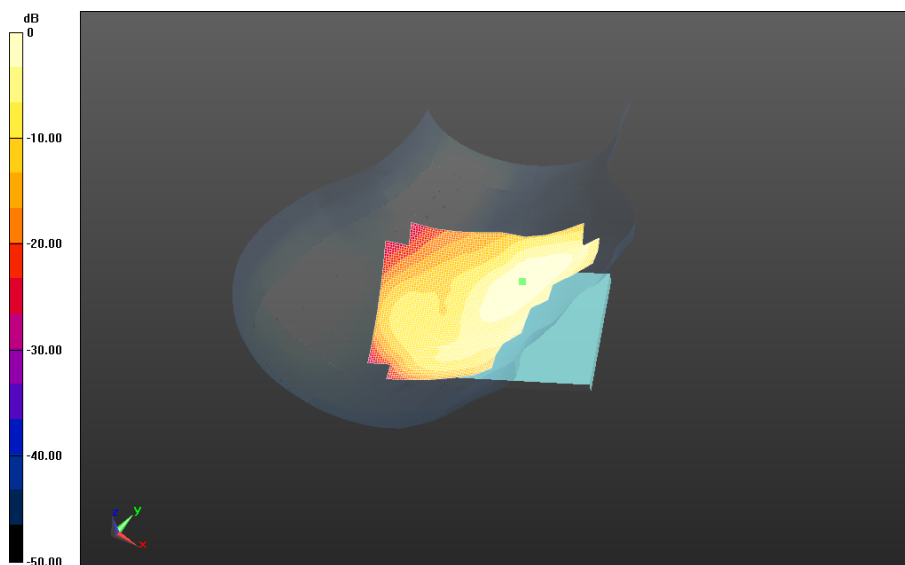
**2\_chan18700\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_24.0C\_liq\_temp\_21.5C/Area Scan**

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

Reference Value = 7.464 V/m; **Power Drift = 0.135 dB**

**Fast SAR: SAR(1g) = 0.338 W/kg; SAR(10g) = 0.196 W/kg**

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

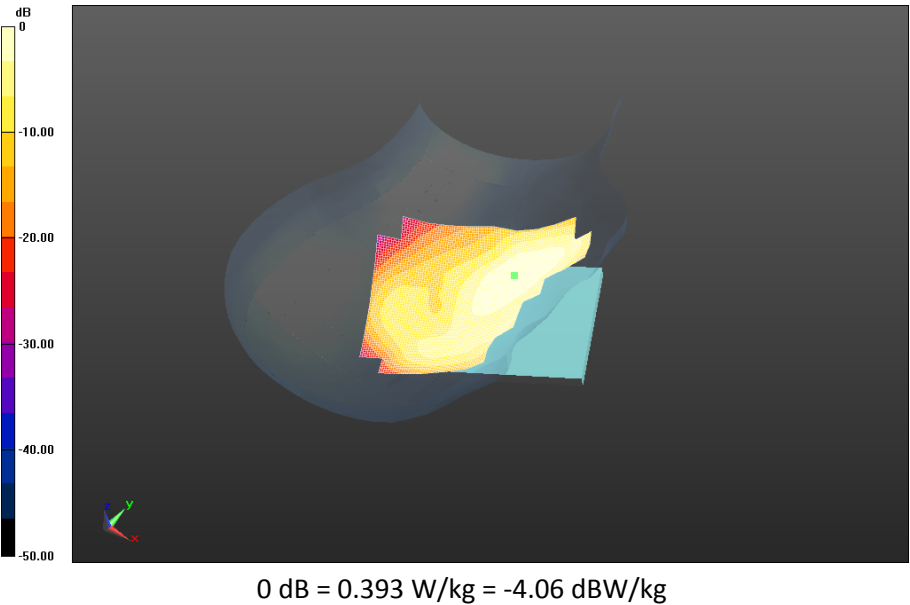


0 dB = 0.375 W/kg = -4.26 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Right-Hand-Side HSL -LTE band 2/Touch Position -LTE band**  
**2\_chan18900\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.9C\_liq\_temp\_21.6C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 7.657 V/m; **Power Drift = 0.096 dB**

**Fast SAR: SAR(1g) = 0.351 W/kg; SAR(10g) = 0.204 W/kg**  
Maximum value of SAR (interpolated) = 0.393 W/kg



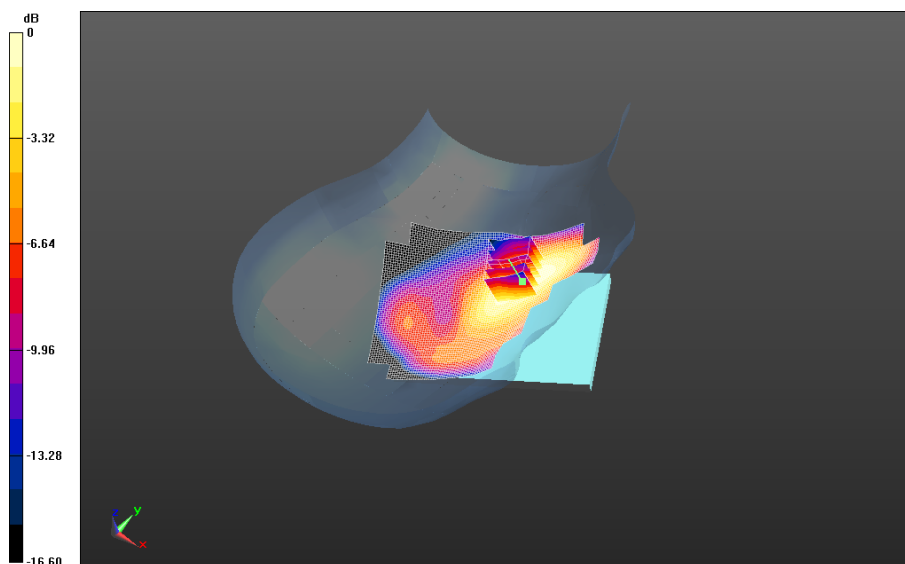
|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Right-Hand-Side HSL -LTE band 2/Touch Position -LTE band**  
**2\_chan19100\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.9C\_liq\_temp\_21.7C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 7.806 V/m; **Power Drift = 0.086 dB**

**Fast SAR: SAR(1g) = 0.362 W/kg; SAR(10g) = 0.210 W/kg**  
Maximum value of SAR (interpolated) = 0.405 W/kg

**Right-Hand-Side HSL -LTE band 2/Touch Position -LTE band**  
**2\_chan19100\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.9C\_liq\_temp\_21.7C/Zoom Scan**  
**(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 7.806 V/m; **Power Drift = 0.086 dB**

**Averaged SAR: SAR(1g) = 0.349 W/kg; SAR(10g) = 0.232 W/kg**  
Maximum value of SAR (interpolated) = 0.485 W/kg

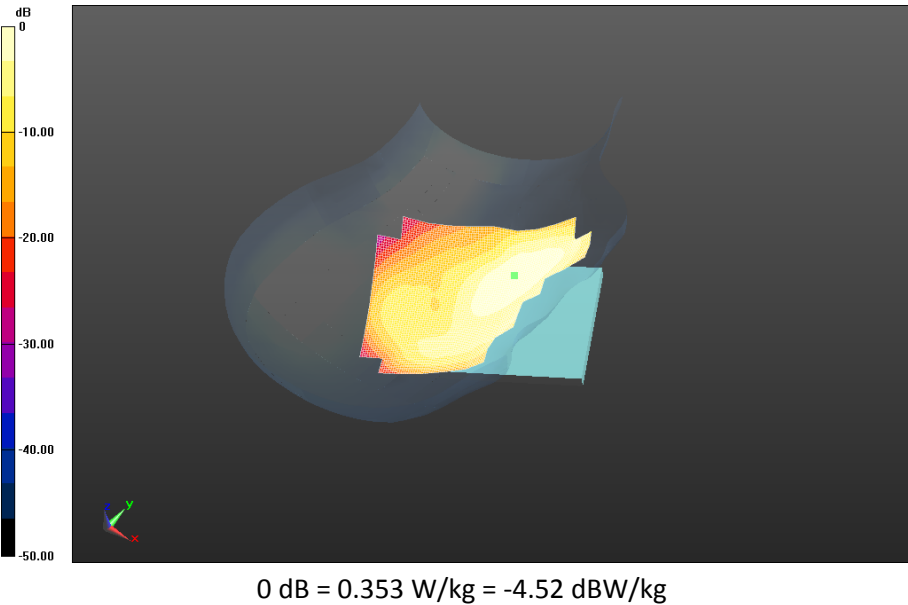


0 dB = 0.372 W/kg = -4.29 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Right-Hand-Side HSL -LTE band 2/Touch Position -LTE band**  
**2\_chan18900\_20MHz\_BW\_RB50\_Offset\_Low\_amb\_temp\_23.9C\_liq\_temp\_21.7C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 7.462 V/m; **Power Drift = -0.086 dB**

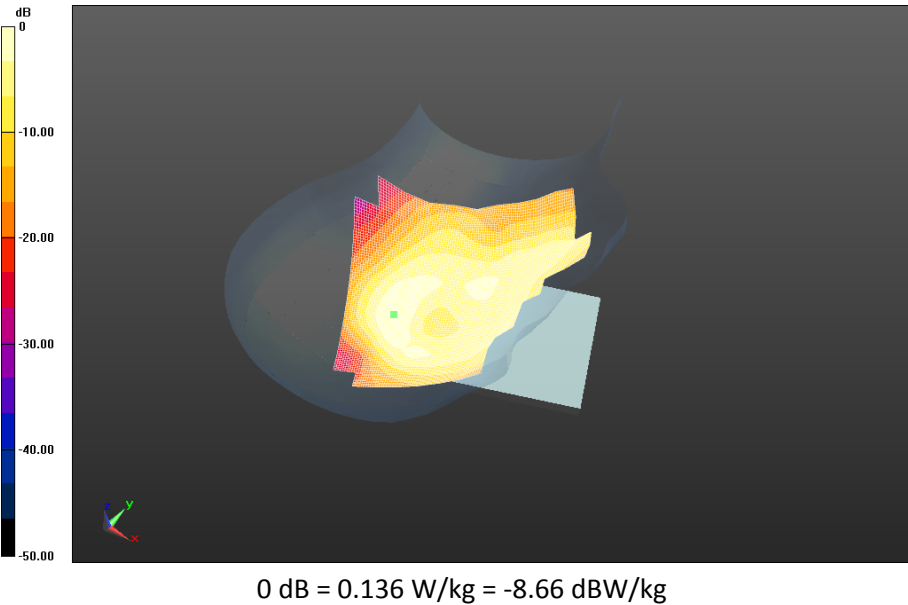
**Fast SAR: SAR(1g) = 0.315 W/kg; SAR(10g) = 0.183 W/kg**  
Maximum value of SAR (interpolated) = 0.353 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Right-Hand-Side HSL -LTE band 2/Tilt Position -LTE band**  
**2\_chan19100\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.9C\_liq\_temp\_21.6C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 10.276 V/m; **Power Drift = -0.178 dB**

**Fast SAR: SAR(1g) = 0.117 W/kg; SAR(10g) = 0.0625 W/kg**  
Maximum value of SAR (interpolated) = 0.136 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

Date: 4/10/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

### **Configuration: Left-Hand-Side HSL - LTE band 2**

Communication System: LTE 2 (0); Communication System Band: LTE Band 2; Frequency: 1900 MHz

Medium Parameters used:  $f=1900$  MHz;  $\sigma = 1.408$  S/m;  $\epsilon_r = 38.405$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

#### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (5.18,5.18,5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

#### **Left-Hand-Side HSL - LTE band 2/Touch Position -LTE band**

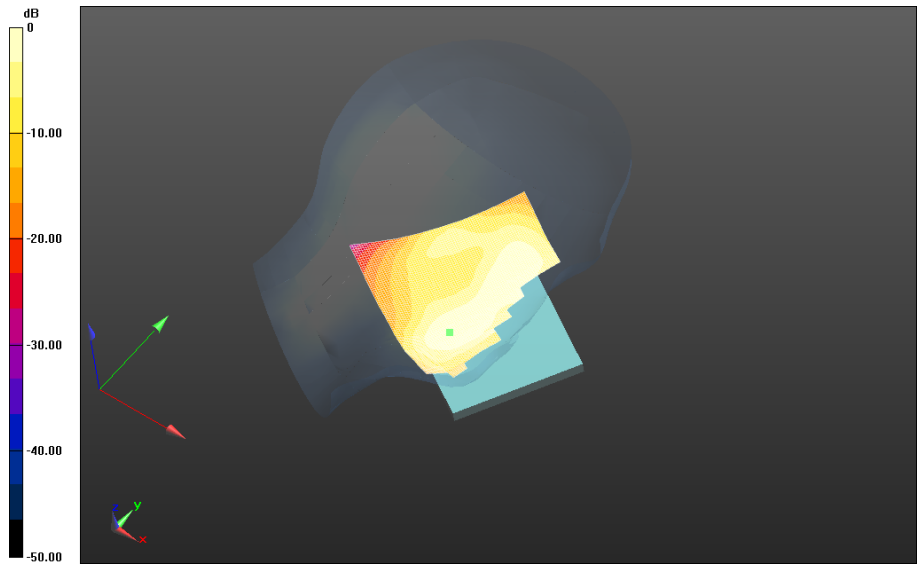
**2\_chan19100\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.7C\_liq\_temp\_21.6C/Area Scan**

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

Reference Value = 6.777 V/m; **Power Drift = 0.095 dB**

**Fast SAR: SAR(1g) = 0.166 W/kg; SAR(10g) = 0.0985 W/kg**

Maximum value of SAR (interpolated) = 0.195 W/kg

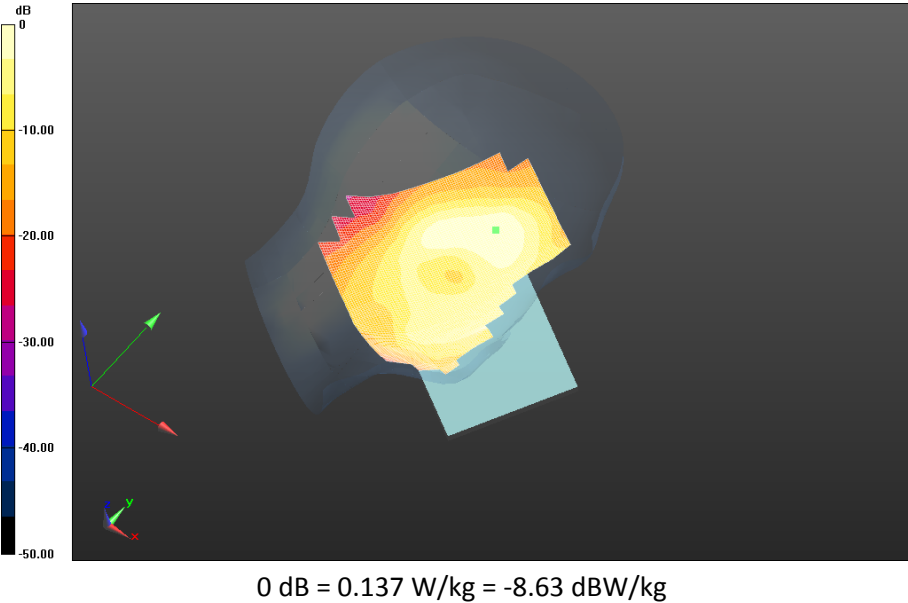


0 dB = 0.195 W/kg = -7.10 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Left-Hand-Side HSL - LTE band 2/Tilt Position - LTE band**  
**2\_chan19100\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.6C\_liq\_temp\_21.6C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.575 V/m; **Power Drift = 0.037 dB**

**Fast SAR: SAR(1g) = 0.114 W/kg; SAR(10g) = 0.0684 W/kg**  
Maximum value of SAR (interpolated) = 0.137 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

Date: 4/10/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686664**

### **Configuration: Mobile Hot Spot MSL - LTE Band 2**

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

Medium Parameters used:  $f=1860$  MHz;  $\sigma = 1.498$  S/m;  $\epsilon_r = 51.648$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.5,4.5,4.5); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

#### **Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band**

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

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

Reference Value = 8.549 V/m; **Power Drift = -0.157 dB**

**Fast SAR: SAR(1g) = 0.540 W/kg; SAR(10g) = 0.291 W/kg**

Maximum value of SAR (interpolated) = 0.629 W/kg

#### **Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band**

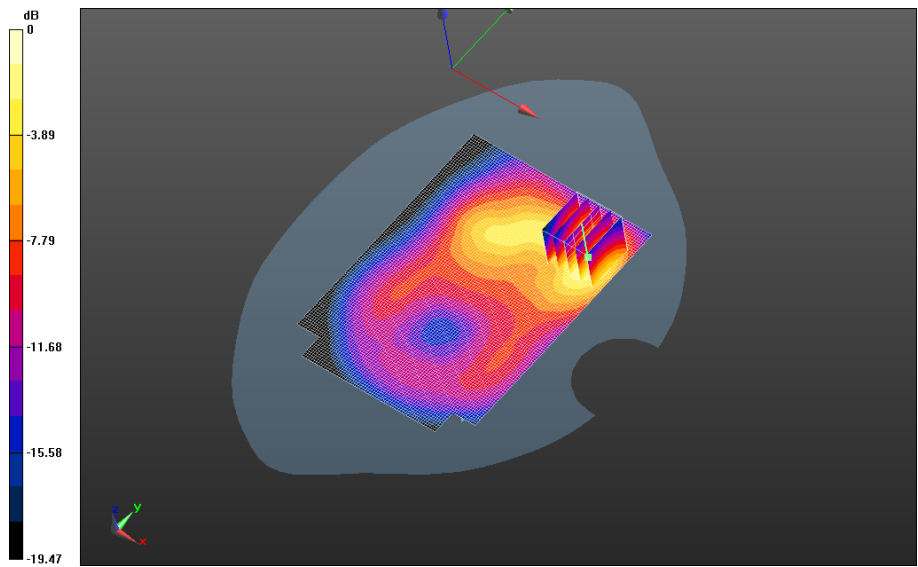
**2\_chan18700\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_22.1C/Zoom Scan**

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

Reference Value = 8.549 V/m; **Power Drift = -0.157 dB**

**Averaged SAR: SAR(1g) = 0.600 W/kg; SAR(10g) = 0.328 W/kg**

Maximum value of SAR (interpolated) = 0.955 W/kg



0 dB = 0.642 W/kg = -1.92 dBW/kg

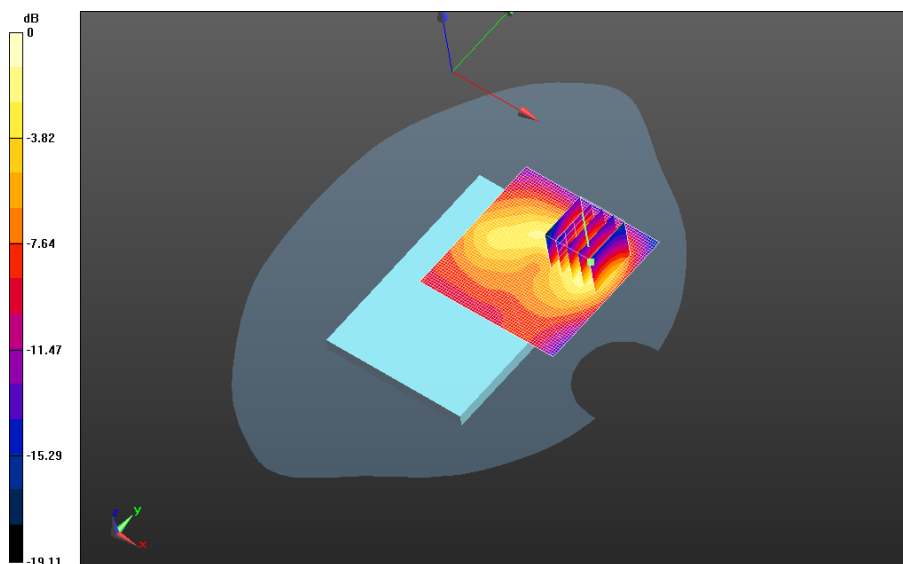
|                                                                                   |                                               |                                                                                                                      |                               |                             |
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|  |                                               | Document<br><b>Appendix B for the BlackBerry® Smartphone Model RHR191LW</b><br><b>(SQW100-4) SAR Report Part 2/3</b> |                               | Page<br><b>65(123)</b>      |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band**  
**2\_chan18900\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.8C\_liq\_temp\_22.1C/Area Scan**  
**(61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.429 V/m; **Power Drift = -0.018 dB**

**Fast SAR: SAR(1g) = 0.545 W/kg; SAR(10g) = 0.305 W/kg**  
Maximum value of SAR (interpolated) = 0.623 W/kg

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band**  
**2\_chan18900\_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 = 8.429 V/m; **Power Drift = -0.018 dB**

**Averaged SAR: SAR(1g) = 0.555 W/kg; SAR(10g) = 0.306 W/kg**  
Maximum value of SAR (interpolated) = 0.878 W/kg



0 dB = 0.596 W/kg = -2.25 dBW/kg

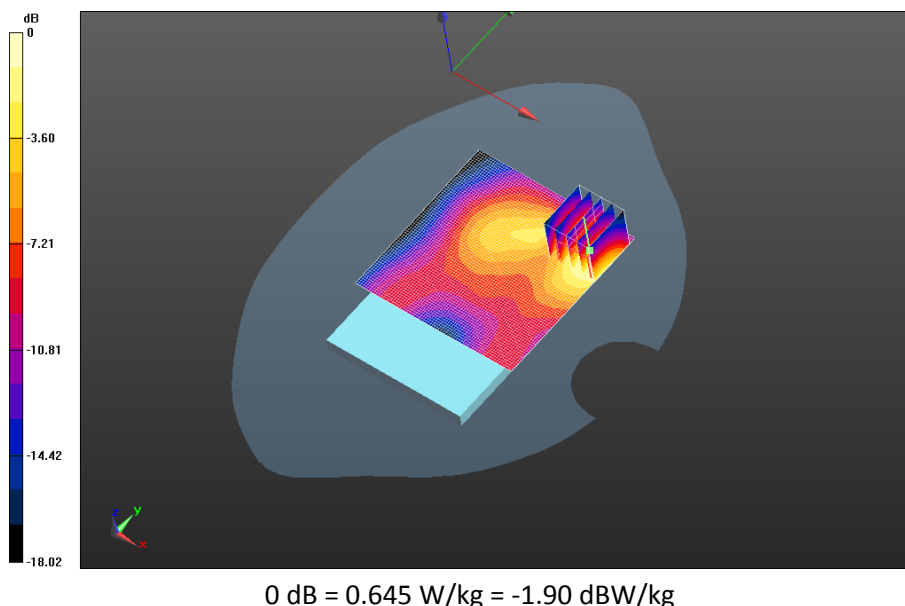
|                                                                                   |                                               |                                                                                                                      |                               |                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------|
|  |                                               | Document<br><b>Appendix B for the BlackBerry® Smartphone Model RHR191LW</b><br><b>(SQW100-4) SAR Report Part 2/3</b> |                               | Page<br><b>66(123)</b>      |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band**  
**2\_chan19100\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.9C\_liq\_temp\_21.5C/Area Scan**  
**(71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.554 V/m; **Power Drift = -0.019 dB**

**Fast SAR: SAR(1g) = 0.543 W/kg; SAR(10g) = 0.288 W/kg**  
Maximum value of SAR (interpolated) = 0.647 W/kg

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band**  
**2\_chan19100\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.9C\_liq\_temp\_21.5C/Zoom Scan**  
**(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 8.554 V/m; **Power Drift = -0.019 dB**

**Averaged SAR: SAR(1g) = 0.572 W/kg; SAR(10g) = 0.314 W/kg**  
Maximum value of SAR (interpolated) = 0.912 W/kg



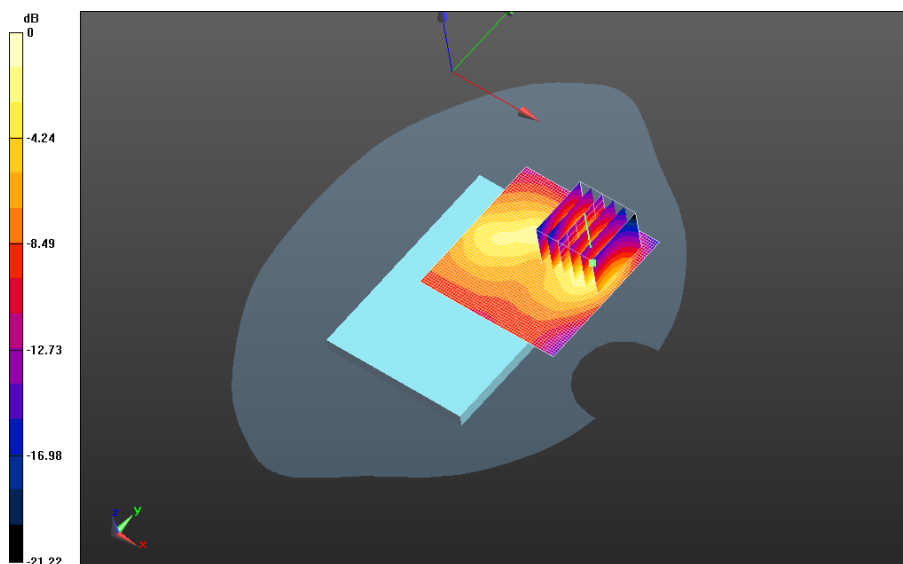
|                                                                                   |                                               |                                                                                                                      |                               |                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------|
|  |                                               | Document<br><b>Appendix B for the BlackBerry® Smartphone Model RHR191LW</b><br><b>(SQW100-4) SAR Report Part 2/3</b> |                               | Page<br><b>67(123)</b>      |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band**  
**2\_chan18700\_20MHz\_BW\_RB50\_Offset\_Low\_amb\_temp\_24.0C\_liq\_temp\_21.6C/Area Scan**  
**(61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.767 V/m; **Power Drift = 0.034 dB**

**Fast SAR: SAR(1g) = 0.562 W/kg; SAR(10g) = 0.317 W/kg**  
Maximum value of SAR (interpolated) = 0.648 W/kg

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band**  
**2\_chan18700\_20MHz\_BW\_RB50\_Offset\_Low\_amb\_temp\_24.0C\_liq\_temp\_21.6C/Zoom Scan**  
**(26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 8.767 V/m; **Power Drift = 0.034 dB**

**Averaged SAR: SAR(1g) = 0.591 W/kg; SAR(10g) = 0.323 W/kg**  
Maximum value of SAR (interpolated) = 0.945 W/kg

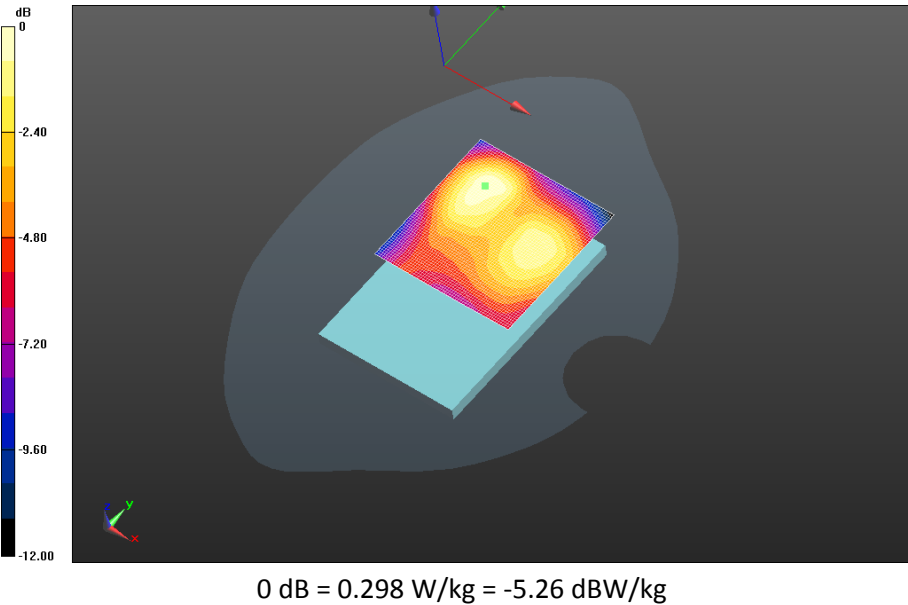


0 dB = 0.636 W/kg = -1.97 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Front - LTE band**  
**2\_chan18900\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.6C\_liq\_temp\_21.5C/Area Scan**  
**(61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.328 V/m; **Power Drift = 0.017 dB**

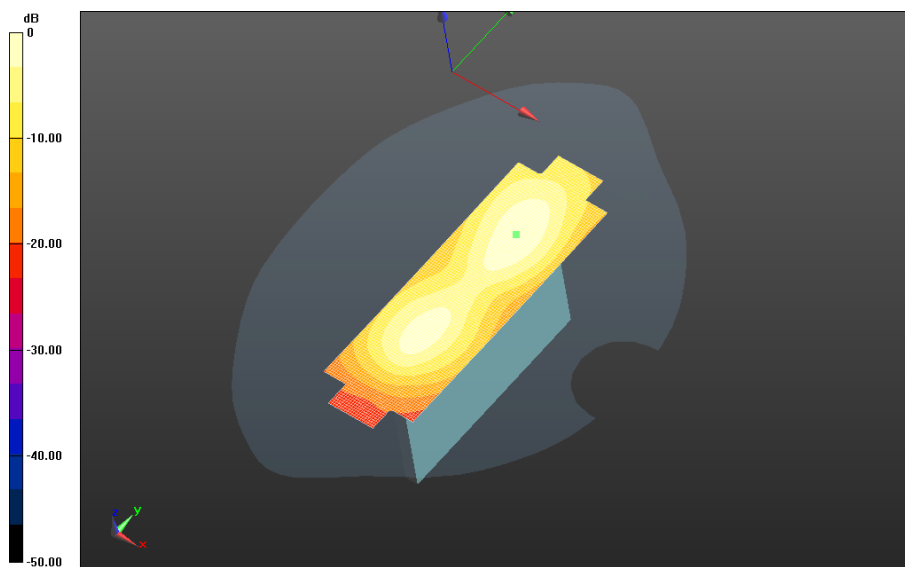
**Fast SAR: SAR(1g) = 0.269 W/kg; SAR(10g) = 0.156 W/kg**  
Maximum value of SAR (interpolated) = 0.298 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Right - LTE band**  
**2\_chan18900\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.5C\_liq\_temp\_21.4C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 6.809 V/m; **Power Drift = 0.011 dB**

**Fast SAR: SAR(1g) = 0.181 W/kg; SAR(10g) = 0.0990 W/kg**  
Maximum value of SAR (interpolated) = 0.207 W/kg

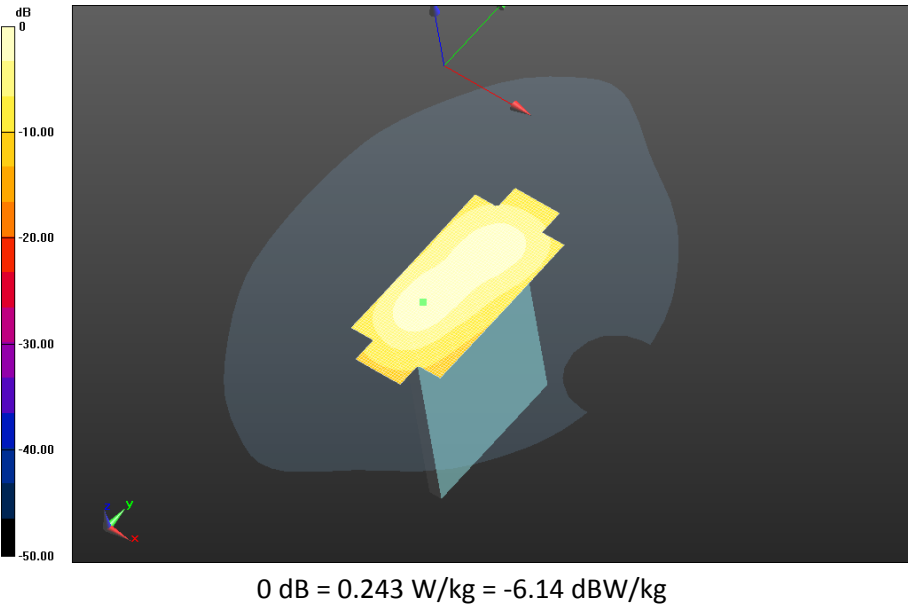


0 dB = 0.207 W/kg = -6.84 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Bottom - LTE band**  
**2\_chan18900\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.6C\_liq\_temp\_21.5C/Area Scan**  
**(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 11.197 V/m; **Power Drift = -0.051 dB**

**Fast SAR: SAR(1g) = 0.213 W/kg; SAR(10g) = 0.120 W/kg**  
Maximum value of SAR (interpolated) = 0.243 W/kg



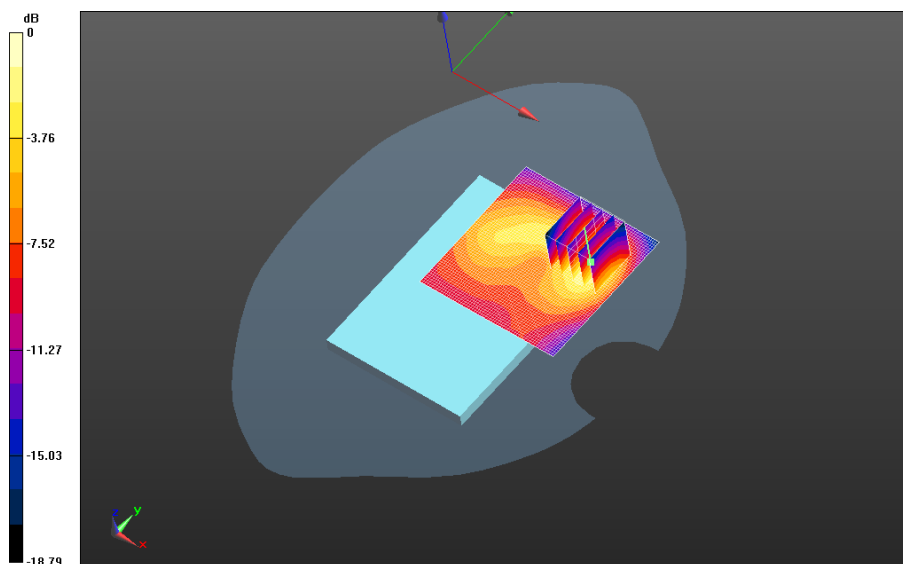
|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band**  
**2\_chan19100\_20MHz\_16QAM\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.6C\_liq\_temp\_22.1C/Area**  
**Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.591 V/m; **Power Drift = -0.052 dB**

**Fast SAR: SAR(1g) = 0.541 W/kg; SAR(10g) = 0.300 W/kg**  
Maximum value of SAR (interpolated) = 0.620 W/kg

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band**  
**2\_chan19100\_20MHz\_16QAM\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.6C\_liq\_temp\_22.1C/Zoo**  
**m Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 8.591 V/m; **Power Drift = -0.052 dB**

**Averaged SAR: SAR(1g) = 0.569 W/kg; SAR(10g) = 0.311 W/kg**  
Maximum value of SAR (interpolated) = 0.906 W/kg



0 dB = 0.609 W/kg = -2.15 dBW/kg

|                                                                                   |                              |                                                                                                    |                    |                       |  |
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| Author Data                                                                       | Dates of Test                | Test Report No                                                                                     | FCC ID:            | IC                    |  |
| <b>Andrew Becker</b>                                                              | <b>Mar 30 – May 14, 2015</b> | <b>RTS-6067-1505-05 Rev2</b>                                                                       | <b>L6ARHR190LW</b> | <b>2503A-RHR190LW</b> |  |

Date: 4/13/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

### **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;  $\sigma = 1.488$  S/m;  $\epsilon_r = 51.918$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.5,4.5,4.5); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

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

**2\_chan18700\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_24.2\_liq\_temp\_21.8C/Area Scan**

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

Reference Value = 8.151 V/m; **Power Drift = -0.049 dB**

**Fast SAR: SAR(1g) = 0.432 W/kg; SAR(10g) = 0.250 W/kg**

Maximum value of SAR (interpolated) = 0.492 W/kg

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

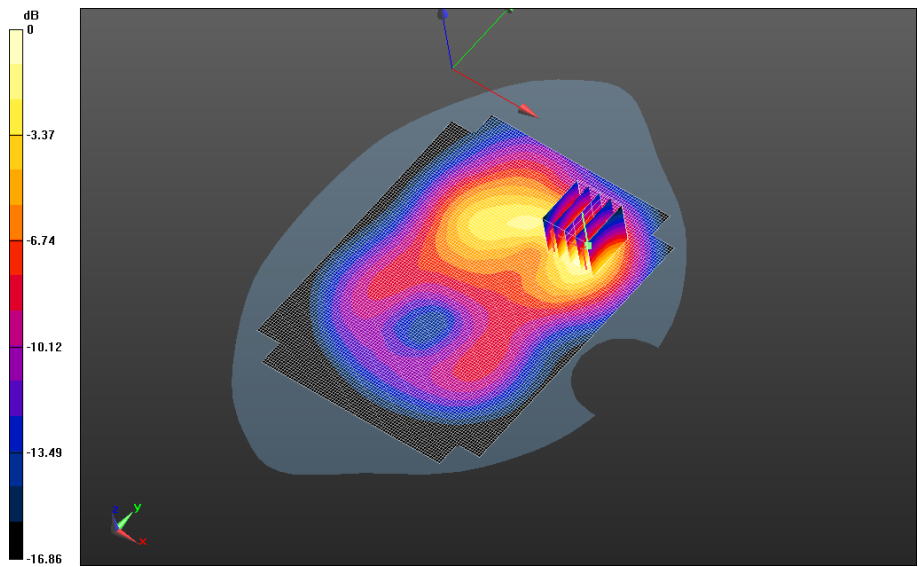
**2\_chan18700\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_24.2\_liq\_temp\_21.8C/Zoom Scan**

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

Reference Value = 8.151 V/m; **Power Drift = -0.049 dB**

**Averaged SAR: SAR(1g) = 0.465 W/kg; SAR(10g) = 0.270 W/kg**

Maximum value of SAR (interpolated) = 0.702 W/kg



0 dB = 0.506 W/kg = -2.96 dBW/kg

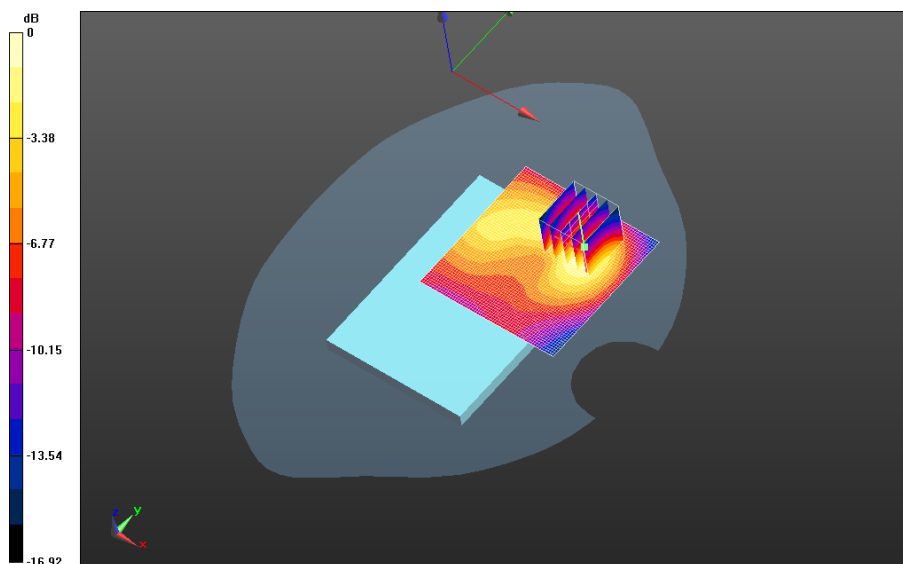
|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Body Worn MSL - LTE band 2/15mm Device Back - LTE band 2\_chan18900\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.8C\_liq\_temp\_21.7C/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 7.914 V/m; **Power Drift = 0.049 dB**

**Fast SAR: SAR(1g) = 0.431 W/kg; SAR(10g) = 0.241 W/kg**  
Maximum value of SAR (interpolated) = 0.482 W/kg

**Body Worn MSL - LTE band 2/15mm Device Back - LTE band 2\_chan18900\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.8C\_liq\_temp\_21.7C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 7.914 V/m; **Power Drift = 0.049 dB**

**Averaged SAR: SAR(1g) = 0.443 W/kg; SAR(10g) = 0.256 W/kg**  
Maximum value of SAR (interpolated) = 0.685 W/kg



0 dB = 0.495 W/kg = -3.05 dBW/kg

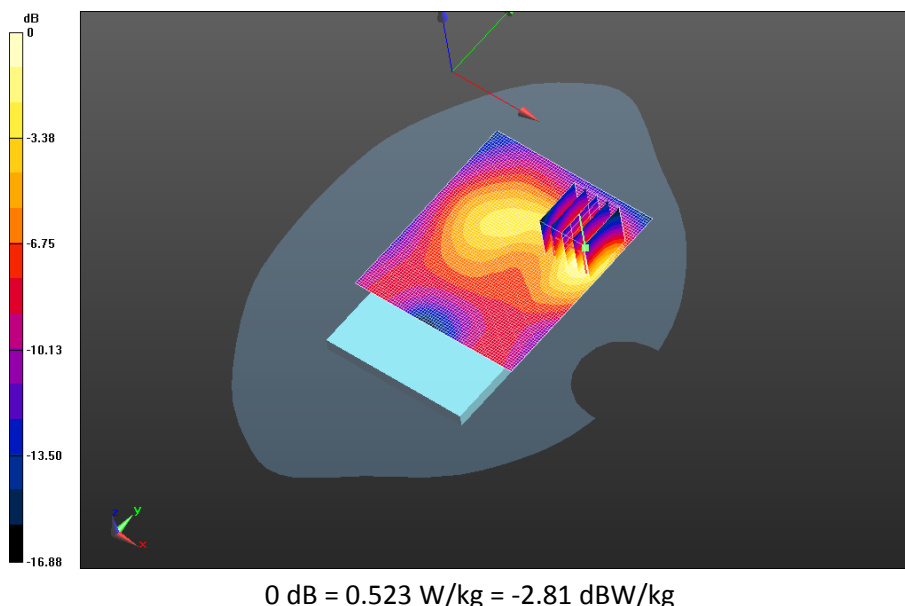
|                                                                                   |                                               |                                                                                                                      |                               |                             |
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|  |                                               | Document<br><b>Appendix B for the BlackBerry® Smartphone Model RHR191LW</b><br><b>(SQW100-4) SAR Report Part 2/3</b> |                               | Page<br><b>75(123)</b>      |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Body Worn MSL - LTE band 2/15mm Device Back - LTE band 2\_chan19100\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.9C\_liq\_temp\_21.7C/Area Scan (71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.455 V/m; **Power Drift = -0.026 dB**

**Fast SAR: SAR(1g) = 0.453 W/kg; SAR(10g) = 0.245 W/kg**  
Maximum value of SAR (interpolated) = 0.535 W/kg

**Body Worn MSL - LTE band 2/15mm Device Back - LTE band 2\_chan19100\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.9C\_liq\_temp\_21.7C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 8.455 V/m; **Power Drift = -0.026 dB**

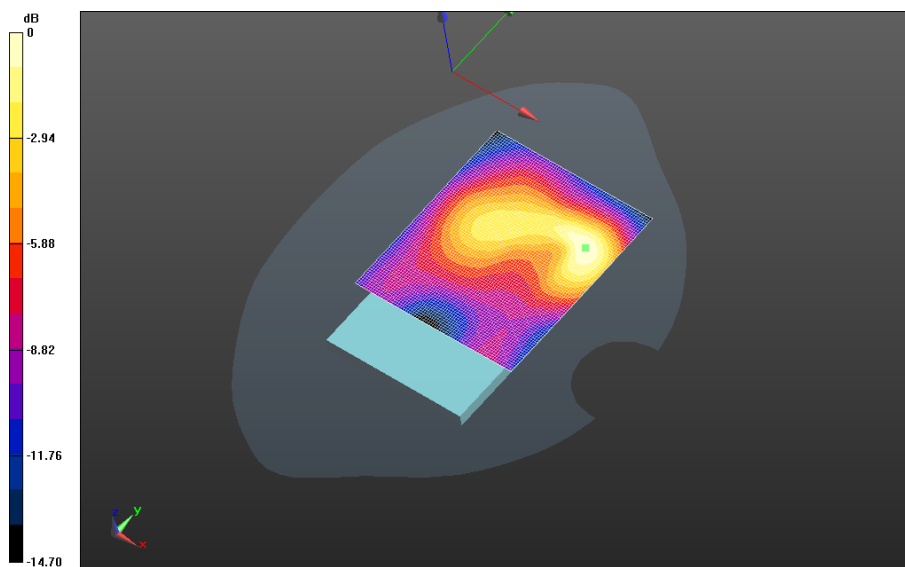
**Averaged SAR: SAR(1g) = 0.469 W/kg; SAR(10g) = 0.271 W/kg**  
Maximum value of SAR (interpolated) = 0.716 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Body Worn MSL - LTE band 2/15mm Device Back - LTE band**  
**2\_chan18700\_20MHz\_BW\_RB50\_Offset\_Low\_amb\_temp\_24.2C\_liq\_temp\_21.8C/Area Scan**  
**(71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 7.455 V/m; **Power Drift = -0.016 dB**

**Fast SAR: SAR(1g) = 0.364 W/kg; SAR(10g) = 0.197 W/kg**  
Maximum value of SAR (interpolated) = 0.427 W/kg

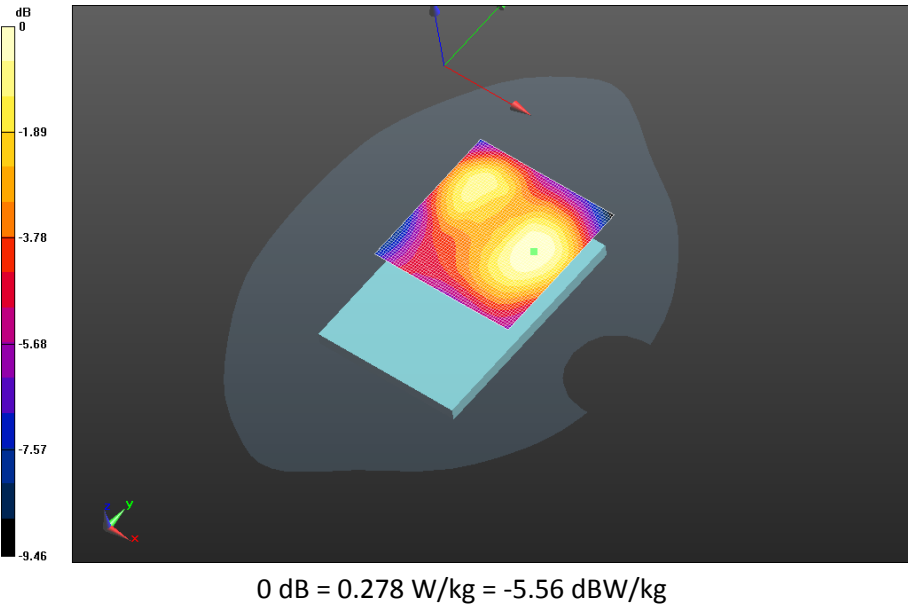


0 dB = 0.427 W/kg = -3.70 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Body Worn MSL - LTE band 2/15mm Device Front - LTE band 2\_chan18700\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_24.4C\_liq\_temp\_21.8C/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 9.430 V/m; **Power Drift = -0.017 dB**

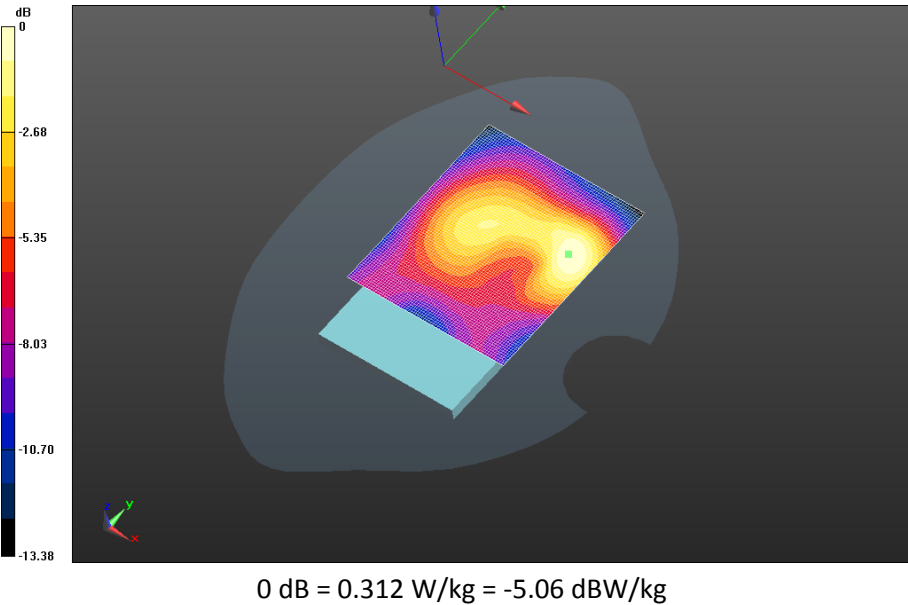
**Fast SAR: SAR(1g) = 0.260 W/kg; SAR(10g) = 0.159 W/kg**  
Maximum value of SAR (interpolated) = 0.278 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Body Worn MSL - LTE band 2/Holster Device Back - LTE band 2\_chan18700\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_24.5C\_liq\_temp\_21.9C/Area Scan (71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.180 V/m; **Power Drift = -0.046 dB**

**Fast SAR: SAR(1g) = 0.283 W/kg; SAR(10g) = 0.159 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>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

# GSM 1900

Date: 4/13/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

## Configuration: Right-Hand-Side HSL - GSM\_DTM 1900

Communication System: DTM 1900 (2slots) (0); Communication System Band: DTM 1900;

Frequency: 1850.2 MHz

Medium Parameters used:  $f=1850.2$  MHz;  $\sigma = 1.350$  S/m;  $\epsilon_r = 38.632$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (5.18,5.18,5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

### Right-Hand-Side HSL - GSM\_DTM 1900/Touch Position -DTM 1900\_2-

**slots\_chan512\_amb\_temp\_23.5C\_liq\_temp\_20.7C/Area Scan (121x171x1):** Interpolated grid:

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

Reference Value = 7.299 V/m; **Power Drift = -0.065 dB**

**Fast SAR: SAR(1g) = 0.270 W/kg; SAR(10g) = 0.159 W/kg**

Maximum value of SAR (interpolated) = 0.293 W/kg

### Right-Hand-Side HSL - GSM\_DTM 1900/Touch Position -DTM 1900\_2-

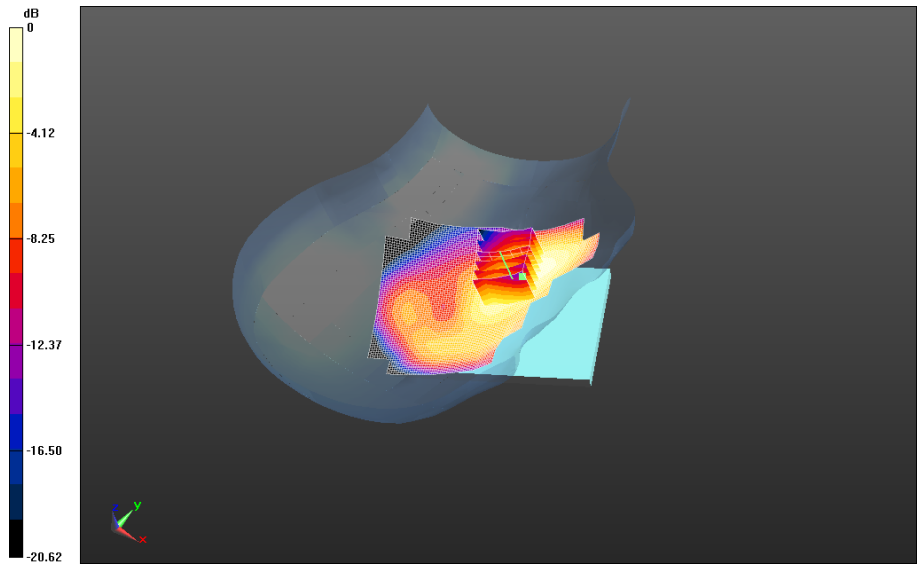
**slots\_chan512\_amb\_temp\_23.5C\_liq\_temp\_20.7C/Zoom Scan (26x26x36)/Cube 0:**

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

Reference Value = 7.299 V/m; **Power Drift = -0.065 dB**

**Averaged SAR: SAR(1g) = 0.260 W/kg; SAR(10g) = 0.173 W/kg**

Maximum value of SAR (interpolated) = 0.344 W/kg

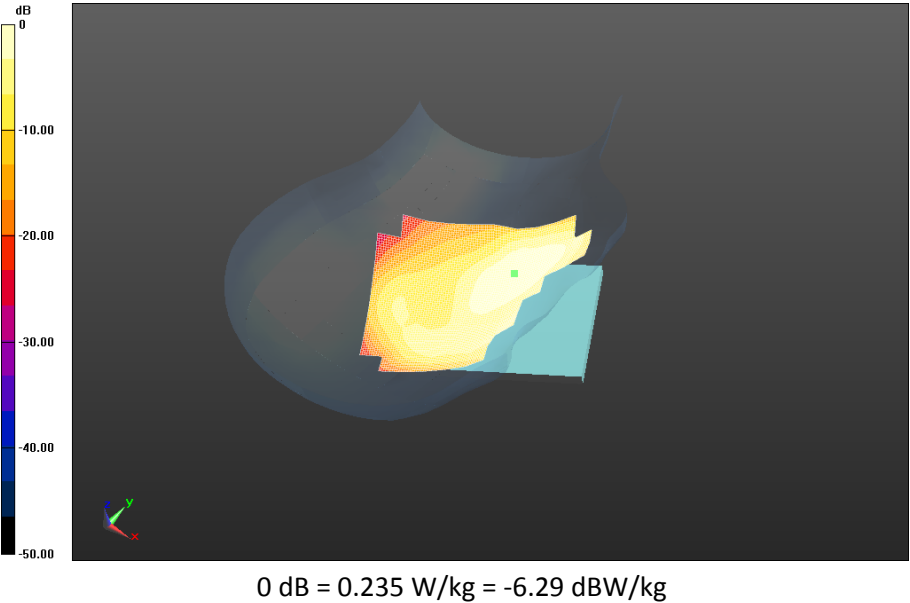


0 dB = 0.271 W/kg = -5.67 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Right-Hand-Side HSL - GSM\_DTM 1900/Touch Position -DTM 1900\_2-**  
**slots\_chan661\_amb\_temp\_23.7C\_liq\_temp\_20.7C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 6.894 V/m; **Power Drift = 0.025 dB**

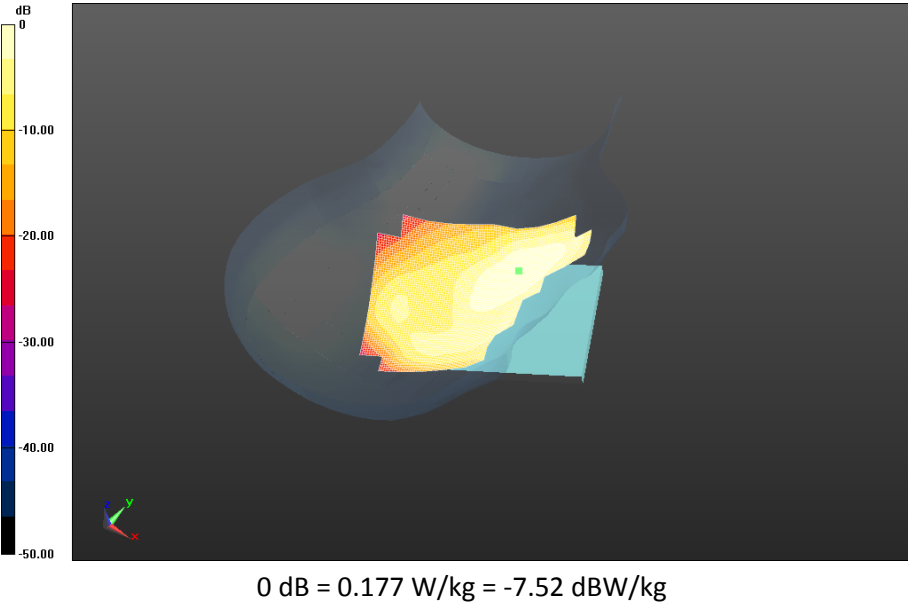
**Fast SAR: SAR(1g) = 0.215 W/kg; SAR(10g) = 0.127 W/kg**  
Maximum value of SAR (interpolated) = 0.235 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Right-Hand-Side HSL - GSM\_DTM 1900/Touch Position -DTM 1900\_2-**  
**slots\_chan810\_amb\_temp\_23.7C\_liq\_temp\_20.7C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 6.138 V/m; **Power Drift = -0.092 dB**

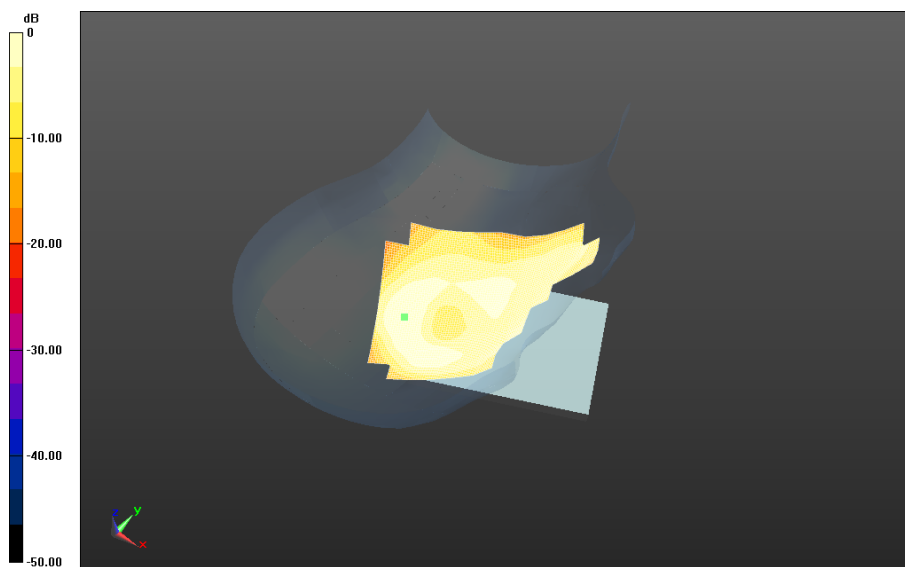
**Fast SAR: SAR(1g) = 0.162 W/kg; SAR(10g) = 0.0958 W/kg**  
Maximum value of SAR (interpolated) = 0.177 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Right-Hand-Side HSL - GSM\_DTM 1900/Tilt Position -DTM 1900\_2-**  
**slots\_chan661\_amb\_temp\_23.6C\_liq\_temp\_20.7C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.258 V/m; **Power Drift = -0.067 dB**

**Fast SAR: SAR(1g) = 0.0745 W/kg; SAR(10g) = 0.0403 W/kg**  
Maximum value of SAR (interpolated) = 0.0841 W/kg



0 dB = 0.0841 W/kg = -10.75 dBW/kg

|                                                                                   |                                               |                                                                                                                 |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                  | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

Date: 4/13/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

### **Configuration: Left-Hand-Side HSL - GSM\_DTM 1900**

Communication System: DTM 1900 (2slots) (0); Communication System Band: DTM 1900;

Frequency: 1880 MHz

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.379$  S/m;  $\epsilon_r = 38.564$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

#### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (5.18,5.18,5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

#### **Left-Hand-Side HSL - GSM\_DTM 1900/Touch Position -DTM 1900\_2-**

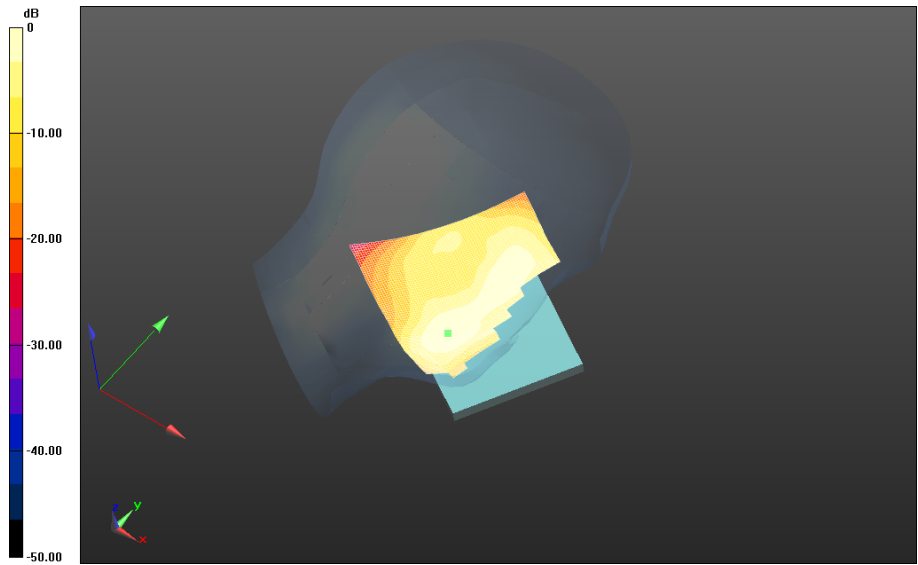
**slots\_chan661\_amb\_temp\_23.4C\_liq\_temp\_20.6C/Area Scan (121x171x1):** Interpolated grid:

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

Reference Value = 6.079 V/m; **Power Drift = 0.223 dB**

**Fast SAR: SAR(1g) = 0.159 W/kg; SAR(10g) = 0.0921 W/kg**

Maximum value of SAR (interpolated) = 0.183 W/kg

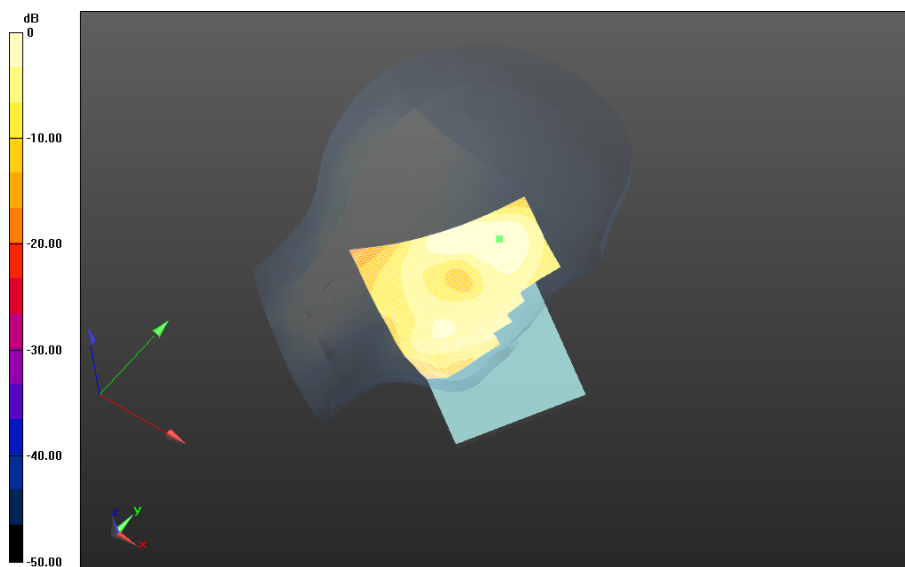


0 dB = 0.183 W/kg = -7.38 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Left-Hand-Side HSL - GSM\_DTM 1900/Tilt Position - DTM 1900\_2-**  
**slot\_chan661\_amb\_temp\_23.7C\_liq\_temp\_20.6C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 7.048 V/m; **Power Drift = 0.044 dB**

**Fast SAR: SAR(1g) = 0.0784 W/kg; SAR(10g) = 0.0466 W/kg**  
Maximum value of SAR (interpolated) = 0.0930 W/kg



0 dB = 0.0930 W/kg = -10.32 dBW/kg

|                                                                                   |                              |                                                                                                          |                    |                       |  |
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| Author Data                                                                       | Dates of Test                | Test Report No                                                                                           | FCC ID:            | IC                    |  |
| <b>Andrew Becker</b>                                                              | <b>Mar 30 – May 14, 2015</b> | <b>RTS-6067-1505-05 Rev2</b>                                                                             | <b>L6ARHR190LW</b> | <b>2503A-RHR190LW</b> |  |

Date: 4/13/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

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

Communication System: GPRS 1900 (2-slots) (0); Communication System Band: GPRS 1900;

Frequency: 1850.2 MHz

Medium Parameters used:  $f=1850.2$  MHz;  $\sigma = 1.477$  S/m;  $\epsilon_r = 51.936$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.5,4.5,4.5); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

#### **Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900\_2-**

**slot\_chan512\_amb\_temp\_23.8C\_liq\_temp\_21.4C/Area Scan (121x171x1):** Interpolated grid:

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

Reference Value = 10.460 V/m; **Power Drift = -0.174 dB**

**Fast SAR: SAR(1g) = 0.703 W/kg; SAR(10g) = 0.394 W/kg**

Maximum value of SAR (interpolated) = 0.777 W/kg

#### **Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900\_2-**

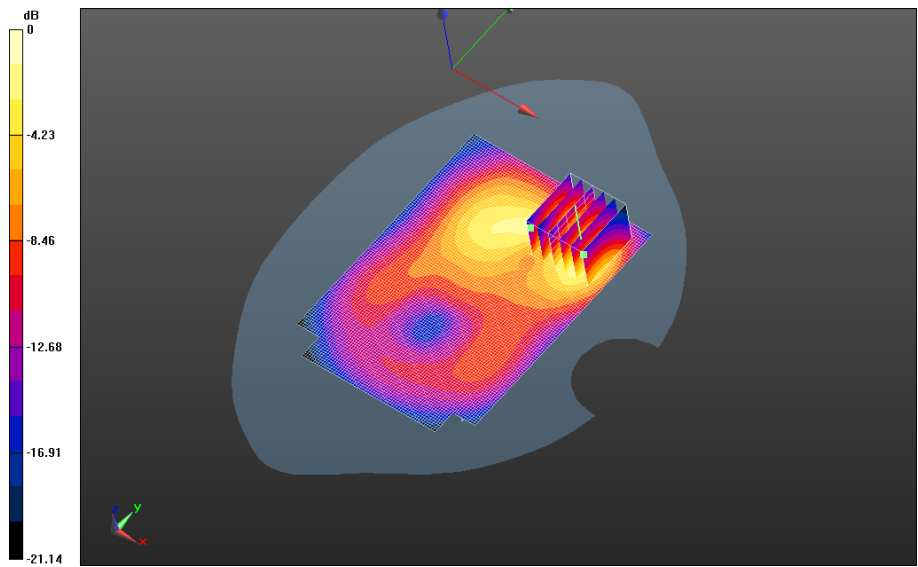
**slot\_chan512\_amb\_temp\_23.8C\_liq\_temp\_21.4C/Zoom Scan (26x26x36)/Cube 0:** Interpolated

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

Reference Value = 10.460 V/m; **Power Drift = -0.174 dB**

**Averaged SAR: SAR(1g) = 0.768 W/kg; SAR(10g) = 0.413 W/kg**

Maximum value of SAR (interpolated) = 1.24 W/kg



0 dB = 0.827 W/kg = -0.82 dBW/kg

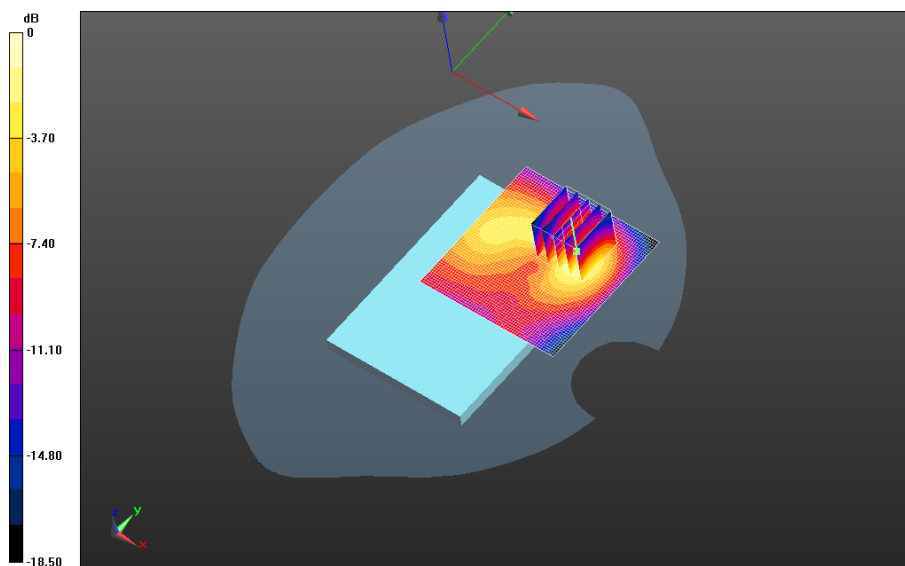
|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900\_2-slot\_chan661\_amb\_temp\_23.7C\_liq\_temp\_21.5C/Area Scan (61x61x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.993 V/m; **Power Drift = -0.050 dB**

**Fast SAR: SAR(1g) = 0.635 W/kg; SAR(10g) = 0.337 W/kg**  
Maximum value of SAR (interpolated) = 0.725 W/kg

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900\_2-slot\_chan661\_amb\_temp\_23.7C\_liq\_temp\_21.5C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 8.993 V/m; **Power Drift = -0.050 dB**

**Averaged SAR: SAR(1g) = 0.670 W/kg; SAR(10g) = 0.357 W/kg**  
Maximum value of SAR (interpolated) = 1.11 W/kg



0 dB = 0.726 W/kg = -1.39 dBW/kg

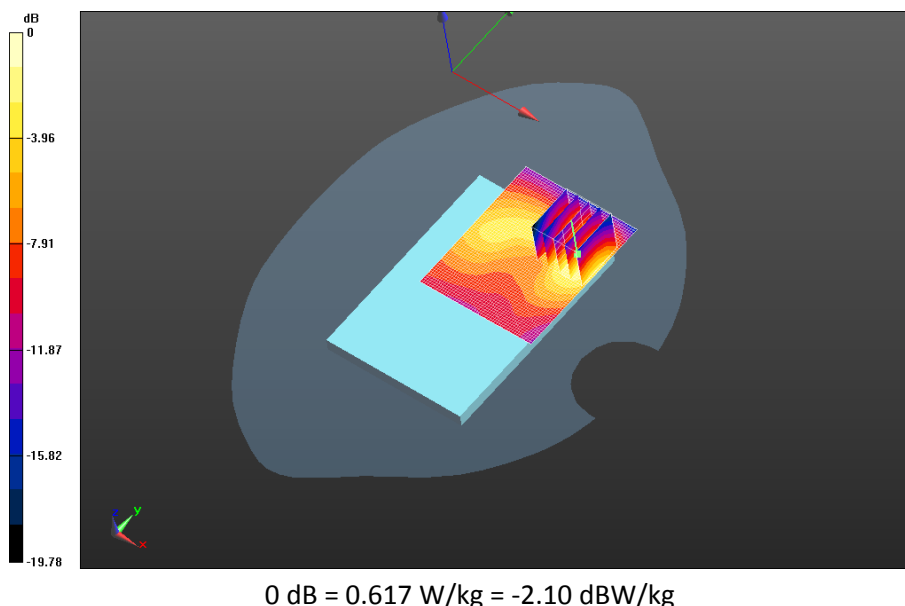
|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900\_2-slot\_chan810\_amb\_temp\_23.9C\_liq\_temp\_21.5C/Area Scan (61x61x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 7.730 V/m; **Power Drift = 0.115 dB**

**Fast SAR: SAR(1g) = 0.562 W/kg; SAR(10g) = 0.294 W/kg**  
Maximum value of SAR (interpolated) = 0.643 W/kg

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900\_2-slot\_chan810\_amb\_temp\_23.9C\_liq\_temp\_21.5C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 7.730 V/m; **Power Drift = 0.115 dB**

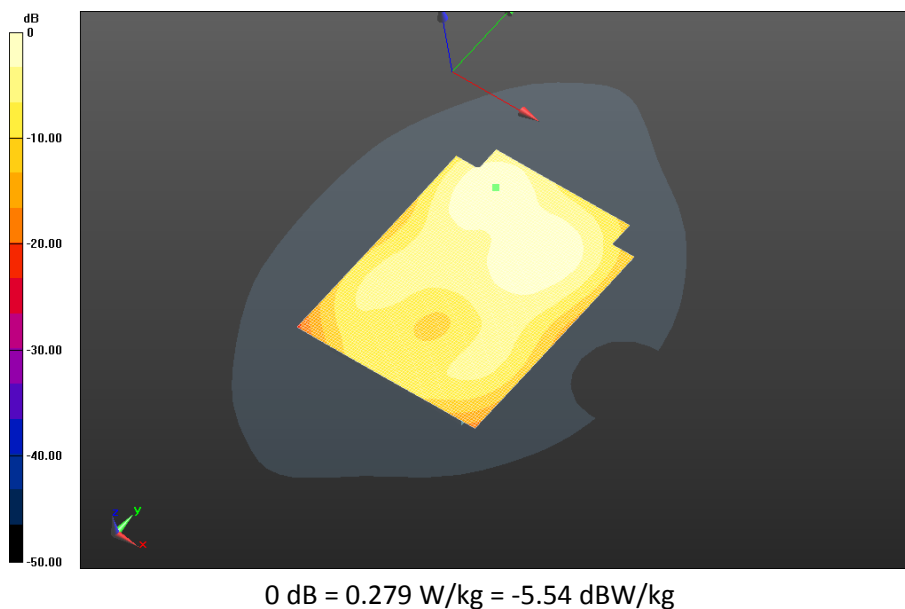
**Averaged SAR: SAR(1g) = 0.579 W/kg; SAR(10g) = 0.306 W/kg**  
Maximum value of SAR (interpolated) = 0.961 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Front- GPRS1900\_2-**  
**slot\_chan661\_amb\_temp\_23.6C\_liq\_temp\_21.4C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 7.972 V/m; **Power Drift = -0.042 dB**

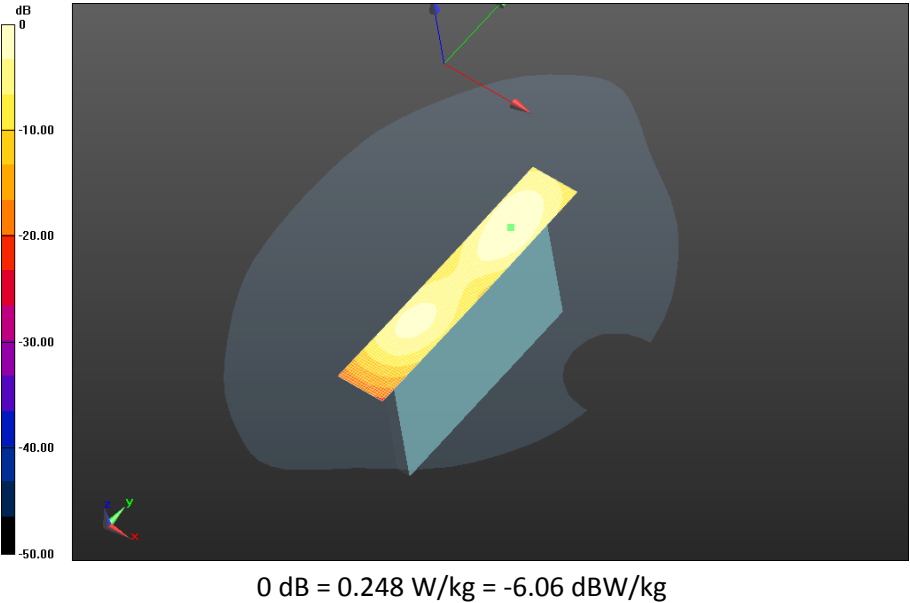
**Fast SAR: SAR(1g) = 0.248 W/kg; SAR(10g) = 0.143 W/kg**  
Maximum value of SAR (interpolated) = 0.279 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Right - GPRS1900\_2-  
slot\_chan661\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 6.845 V/m; **Power Drift = -0.020 dB**

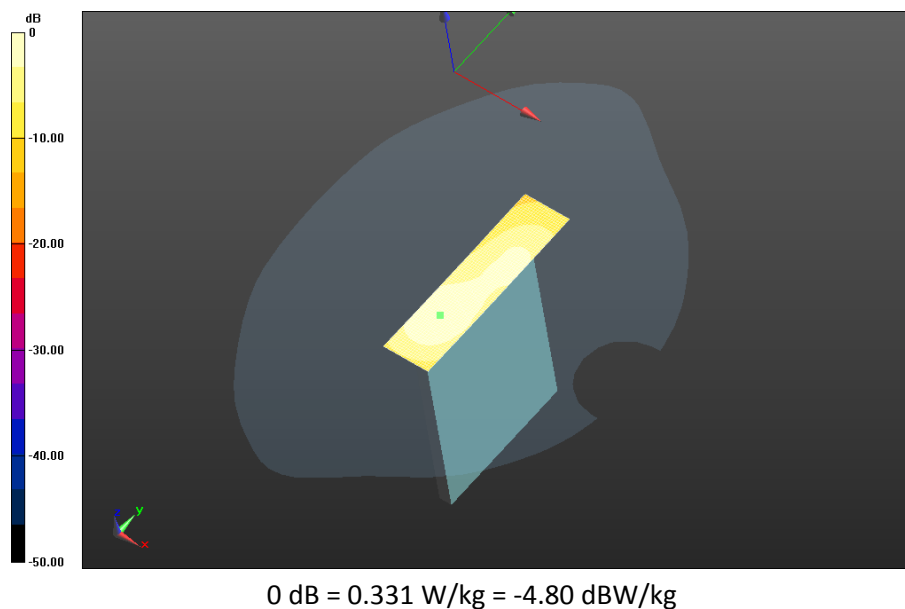
**Fast SAR: SAR(1g) = 0.221 W/kg; SAR(10g) = 0.122 W/kg**  
Maximum value of SAR (interpolated) = 0.248 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Bottom - GPRS1900\_2-**  
**slot\_chan661\_amb\_temp\_23.6C\_liq\_temp\_21.5C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 12.181 V/m; **Power Drift = -0.000878 dB**

**Fast SAR: SAR(1g) = 0.298 W/kg; SAR(10g) = 0.168 W/kg**  
Maximum value of SAR (interpolated) = 0.331 W/kg



|                                                                                   |                                               |                                                                                                            |                               |                             |
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Date: 4/27/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160701958**

### **Configuration: Mobile Hot Spot MSL - GPRS 1900 Rev 2-02**

Communication System: GPRS 1900 (4-slots) (0); Communication System Band: GPRS 1900 ( 4 slots); Frequency: 1850.2 MHz

Medium Parameters used:  $f=1850.2$  MHz;  $\sigma = 1.517$  S/m;  $\epsilon_r = 51.726$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.5,4.5,4.5); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

**Mobile Hot Spot MSL - GPRS 1900 Rev 2-02/10mm Device Back - GPRS1900\_4-slot\_chan512\_amb\_temp\_24.5C\_liq\_temp\_22.2C/Area Scan (121x61x1):** Interpolated grid:

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

Reference Value = 9.902 V/m; **Power Drift = -0.133 dB**

**Fast SAR: SAR(1g) = 0.776 W/kg; SAR(10g) = 0.439 W/kg**

Maximum value of SAR (interpolated) = 0.877 W/kg

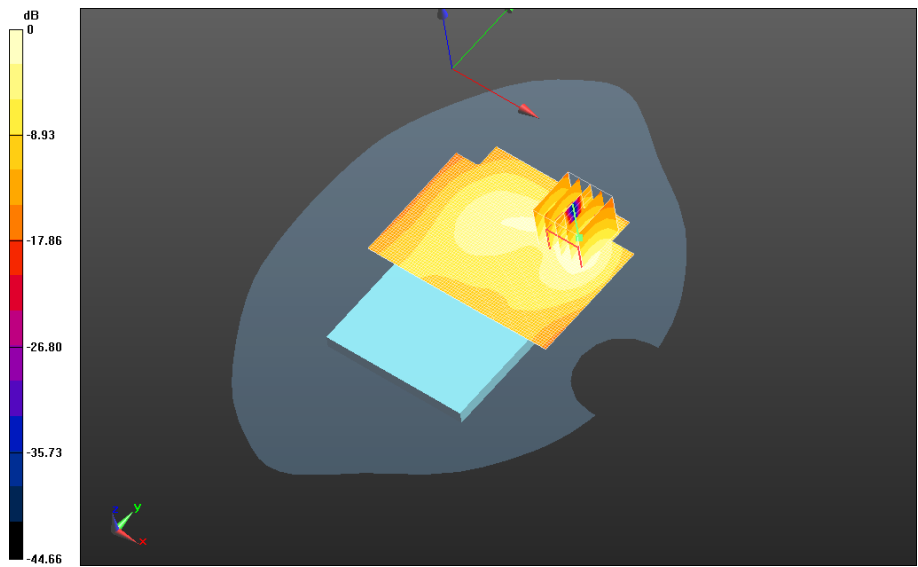
**Mobile Hot Spot MSL - GPRS 1900 Rev 2-02/10mm Device Back - GPRS1900\_4-slot\_chan512\_amb\_temp\_24.5C\_liq\_temp\_22.2C/Zoom Scan (21x21x36)/Cube 0:** Interpolated

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

Reference Value = 9.902 V/m; **Power Drift = -0.133 dB**

**Averaged SAR: SAR(1g) = 0.835 W/kg; SAR(10g) = 0.438 W/kg**

Maximum value of SAR (interpolated) = 1.35 W/kg

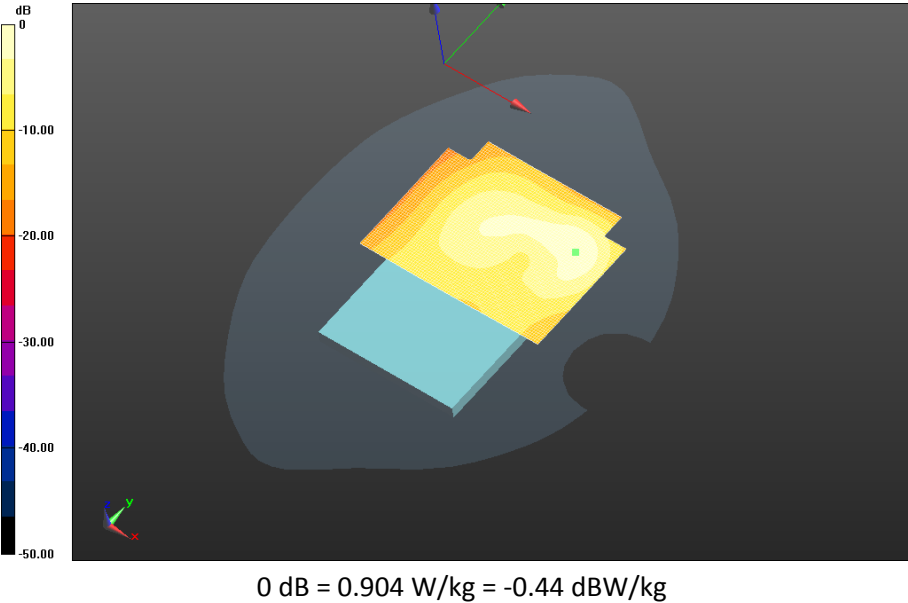


0 dB = 0.948 W/kg = -0.23 dBW/kg

|                                                                                   |                                               |                                                                                                            |                               |                             |
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**Mobile Hot Spot MSL - GPRS 1900 Rev 2-02/10mm Device Back - 2nd Scan\_ GPRS1900\_4-slot\_chan512\_amb\_temp\_23.9C\_liq\_temp\_22.0C/Area Scan (121x61x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 10.521 V/m; **Power Drift = 0.034 dB**

**Fast SAR: SAR(1g) = 0.775 W/kg; SAR(10g) = 0.414 W/kg**  
Maximum value of SAR (interpolated) = 0.904 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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Date: 4/13/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

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

Communication System: GPRS 1900 (2-slots) (0); Communication System Band: GPRS 1900;

Frequency: 1850.2 MHz

Medium Parameters used:  $f=1850.2$  MHz;  $\sigma = 1.477$  S/m;  $\epsilon_r = 51.936$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.5,4.5,4.5); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

#### **Body Worn MSL - GPRS 1900/15mm Device Back -GPRS 1900\_2-**

**slot\_chan512\_amb\_temp\_23.5C\_liq\_temp\_21.4C/Area Scan (121x171x1):** Interpolated grid:

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

Reference Value = 7.786 V/m; **Power Drift = -0.000622 dB**

**Fast SAR: SAR(1g) = 0.320 W/kg; SAR(10g) = 0.186 W/kg**

Maximum value of SAR (interpolated) = 0.350 W/kg

#### **Body Worn MSL - GPRS 1900/15mm Device Back -GPRS 1900\_2-**

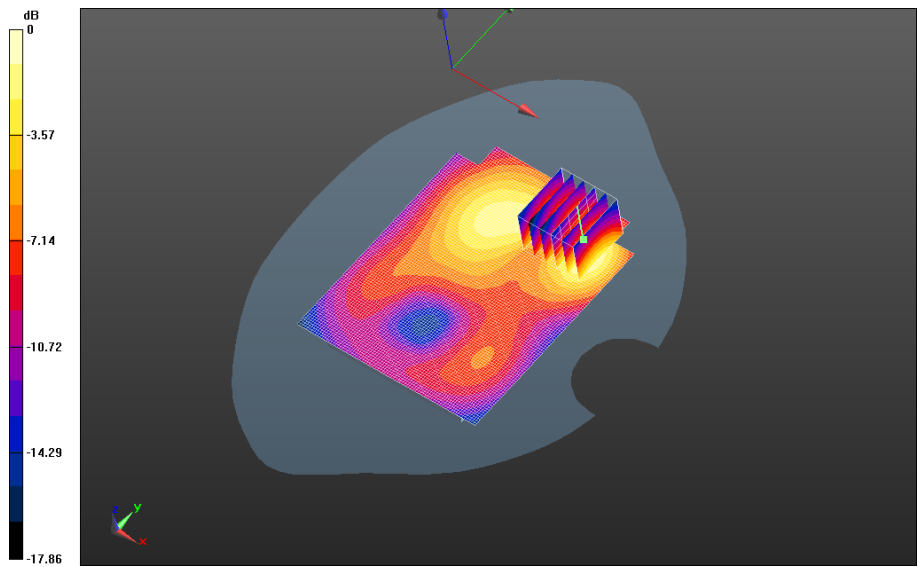
**slot\_chan512\_amb\_temp\_23.5C\_liq\_temp\_21.4C/Zoom Scan (26x26x36)/Cube 0:** Interpolated

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

Reference Value = 7.786 V/m; **Power Drift = -0.000622 dB**

**Averaged SAR: SAR(1g) = 0.338 W/kg; SAR(10g) = 0.196 W/kg**

Maximum value of SAR (interpolated) = 0.512 W/kg

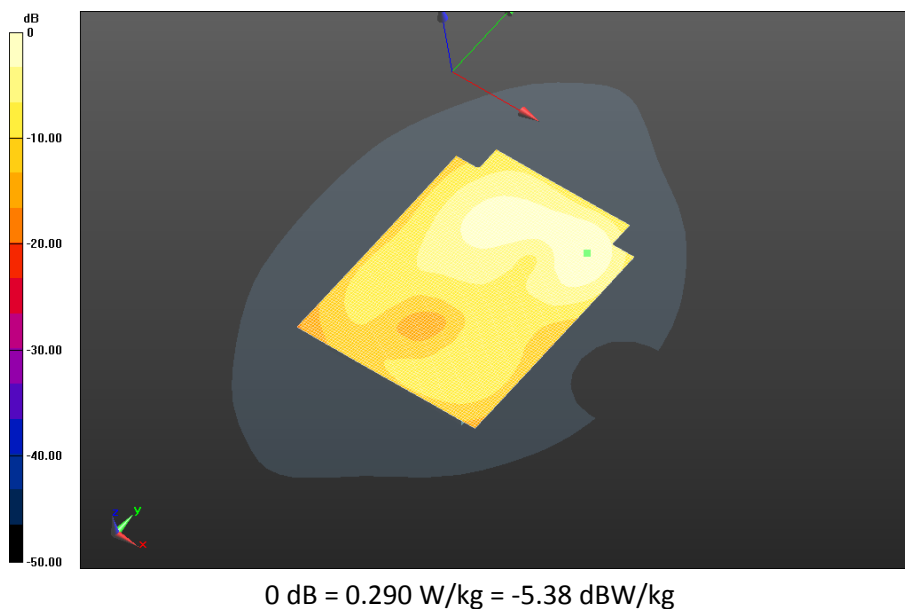


0 dB = 0.368 W/kg = -4.34 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Body Worn MSL - GPRS 1900/15mm Device Back -GPRS 1900\_2-**  
**slot\_chan661\_amb\_temp\_23.5C\_liq\_temp\_21.4C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 6.647 V/m; **Power Drift = 0.064 dB**

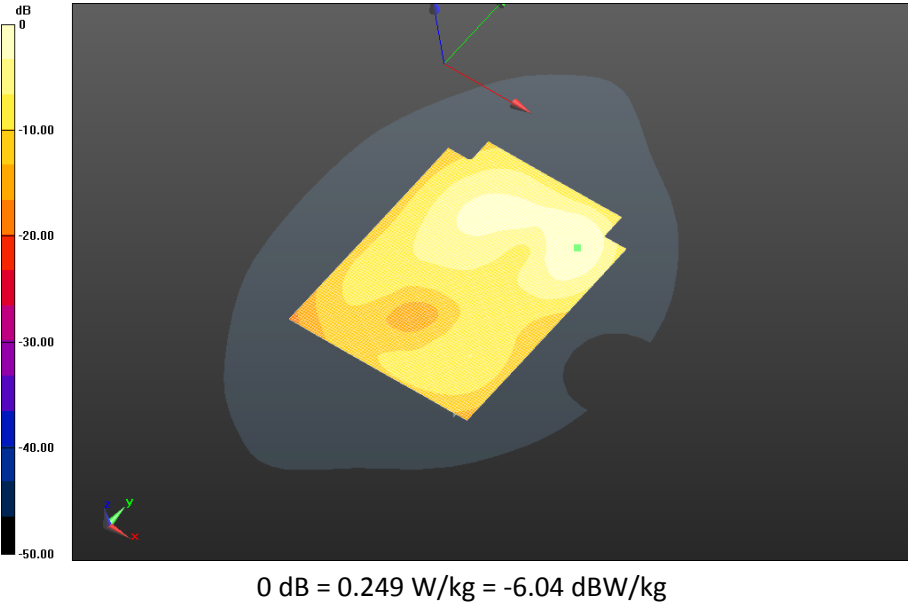
**Fast SAR: SAR(1g) = 0.263 W/kg; SAR(10g) = 0.152 W/kg**  
Maximum value of SAR (interpolated) = 0.290 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Body Worn MSL - GPRS 1900/15mm Device Back -GPRS 1900\_2-  
slots\_chan810\_amb\_temp\_23.8C\_liq\_temp\_21.4C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 5.826 V/m; **Power Drift = 0.016 dB**

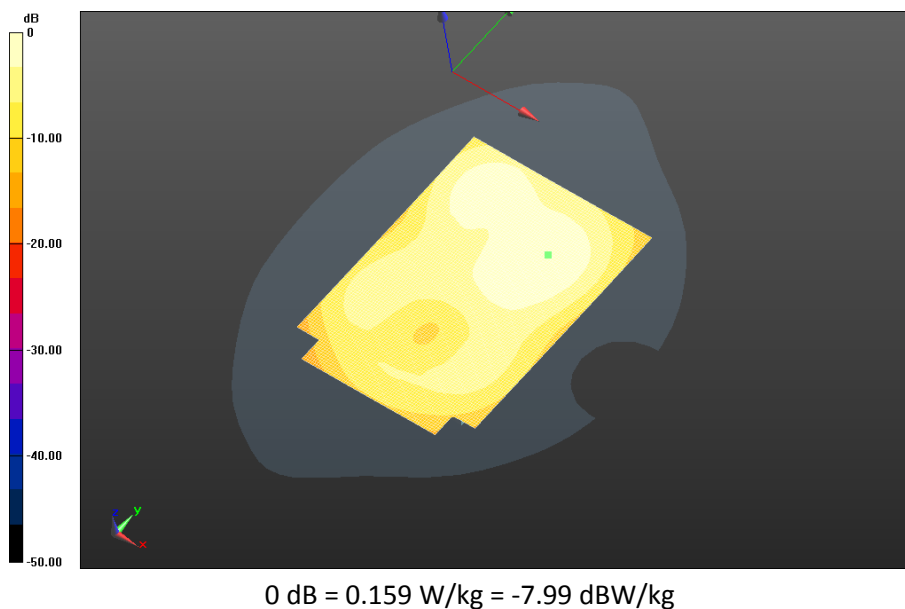
**Fast SAR: SAR(1g) = 0.225 W/kg; SAR(10g) = 0.129 W/kg**  
Maximum value of SAR (interpolated) = 0.249 W/kg



|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Body Worn MSL - GPRS 1900/15mm Device Front -GPRS 1900\_2-  
slot\_chan661\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 7.157 V/m; **Power Drift = 0.020 dB**

**Fast SAR: SAR(1g) = 0.147 W/kg; SAR(10g) = 0.0908 W/kg**  
Maximum value of SAR (interpolated) = 0.159 W/kg



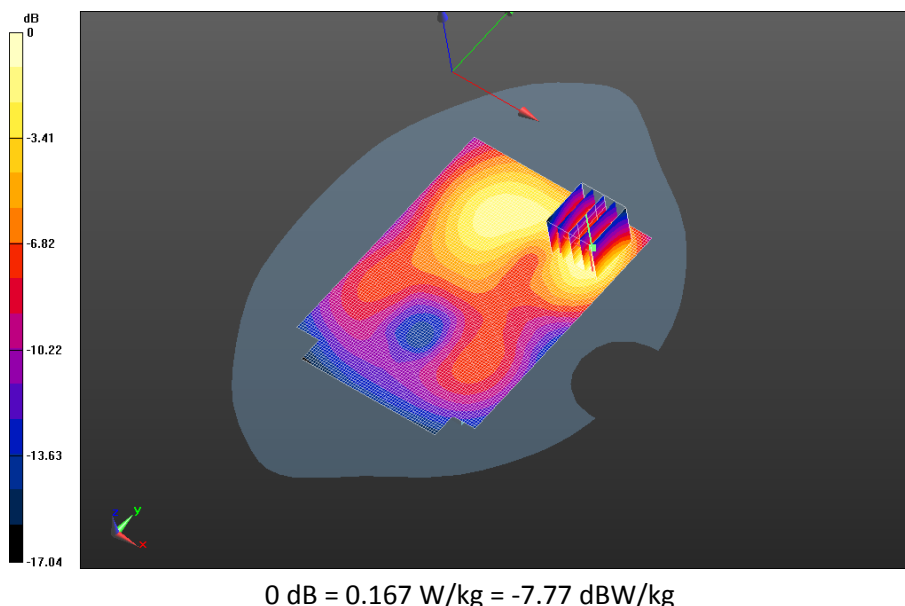
|                                                                                   |                                               |                                                                                                                      |                               |                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------|
|  |                                               | Document<br><b>Appendix B for the BlackBerry® Smartphone Model RHR191LW</b><br><b>(SQW100-4) SAR Report Part 2/3</b> |                               | Page<br><b>102(123)</b>     |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Body Worn MSL - GPRS 1900/Holster Device Back -GPRS 1900\_2-  
slot\_chan661\_amb\_temp\_23.2C\_liq\_temp\_21.3C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 5.504 V/m; **Power Drift = -0.165 dB**

**Fast SAR: SAR(1g) = 0.148 W/kg; SAR(10g) = 0.0855 W/kg**  
Maximum value of SAR (interpolated) = 0.164 W/kg

**Body Worn MSL - GPRS 1900/Holster Device Back -GPRS 1900\_2-  
slot\_chan661\_amb\_temp\_23.2C\_liq\_temp\_21.3C/Zoom Scan (21x21x36)/Cube 0:** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 5.504 V/m; **Power Drift = -0.165 dB**

**Averaged SAR: SAR(1g) = 0.151 W/kg; SAR(10g) = 0.0897 W/kg**  
Maximum value of SAR (interpolated) = 0.230 W/kg



|                                                                                   |                              |                                                                                                    |                    |                       |  |
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|  |                              | Document                                                                                           |                    | Page                  |  |
|                                                                                   |                              | <b>Appendix B for the BlackBerry® Smartphone Model RHR191LW<br/>(SQW100-4) SAR Report Part 2/3</b> |                    | <b>103(123)</b>       |  |
| Author Data                                                                       | Dates of Test                | Test Report No                                                                                     | FCC ID:            | IC                    |  |
| <b>Andrew Becker</b>                                                              | <b>Mar 30 – May 14, 2015</b> | <b>RTS-6067-1505-05 Rev2</b>                                                                       | <b>L6ARHR190LW</b> | <b>2503A-RHR190LW</b> |  |

## UMTS Band II

Date: 4/9/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

### Configuration: Right-Hand-Side HSL - 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;  $\sigma = 1.362$  S/m;  $\epsilon_r = 38.657$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (5.18,5.18,5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

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

**II\_chan9262\_amb\_temp\_23.8C\_liq\_temp\_21.0C/Area Scan (71x61x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 9.537 V/m; **Power Drift = -0.072 dB**

**Fast SAR: SAR(1g) = 0.500 W/kg; SAR(10g) = 0.294 W/kg**

Maximum value of SAR (interpolated) = 0.548 W/kg

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

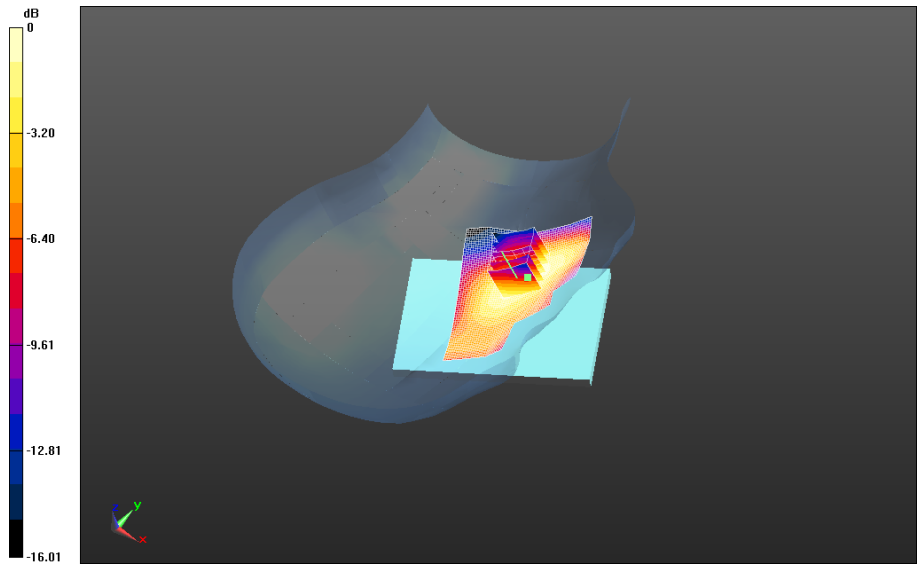
**II\_chan9262\_amb\_temp\_23.8C\_liq\_temp\_21.0C/Zoom Scan (21x21x36)/Cube 0:** Interpolated

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

Reference Value = 9.537 V/m; **Power Drift = -0.072 dB**

**Averaged SAR: SAR(1g) = 0.494 W/kg; SAR(10g) = 0.327 W/kg**

Maximum value of SAR (interpolated) = 0.652 W/kg



0 dB = 0.521 W/kg = -2.83 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

**II\_chan9400\_amb\_temp\_23.8C\_liq\_temp\_21.0C/Area Scan (121x171x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 9.772 V/m; **Power Drift = 0.118 dB**

**Fast SAR: SAR(1g) = 0.442 W/kg; SAR(10g) = 0.258 W/kg**

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

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

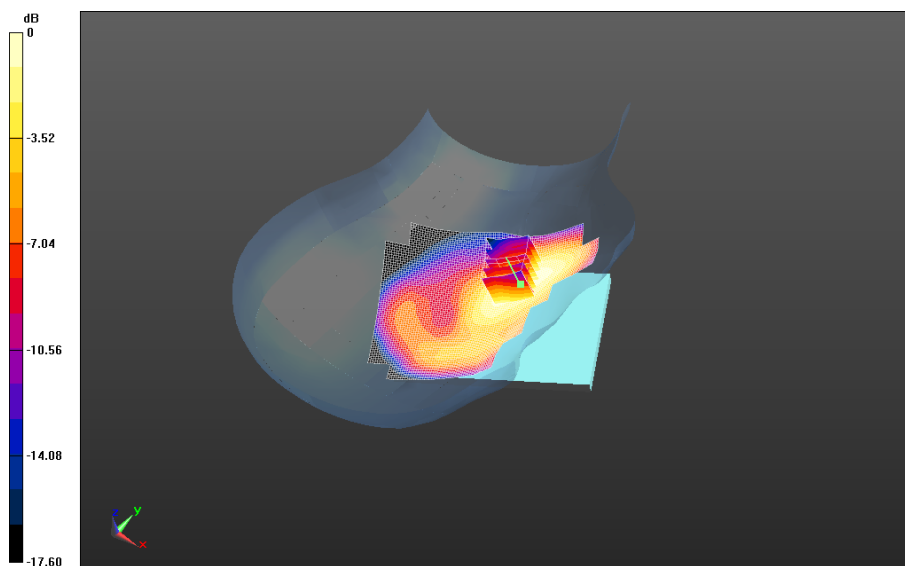
**II\_chan9400\_amb\_temp\_23.8C\_liq\_temp\_21.0C/Zoom Scan (21x21x36)/Cube 0:** Interpolated

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

Reference Value = 9.772 V/m; **Power Drift = 0.118 dB**

**Averaged SAR: SAR(1g) = 0.427 W/kg; SAR(10g) = 0.283 W/kg**

Maximum value of SAR (interpolated) = 0.572 W/kg



0 dB = 0.455 W/kg = -3.42 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

**II\_chan9538\_amb\_temp\_23.8C\_liq\_temp\_21.0C/Area Scan (121x171x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 9.050 V/m; **Power Drift = -0.104 dB**

**Fast SAR: SAR(1g) = 0.349 W/kg; SAR(10g) = 0.203 W/kg**

Maximum value of SAR (interpolated) = 0.388 W/kg

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

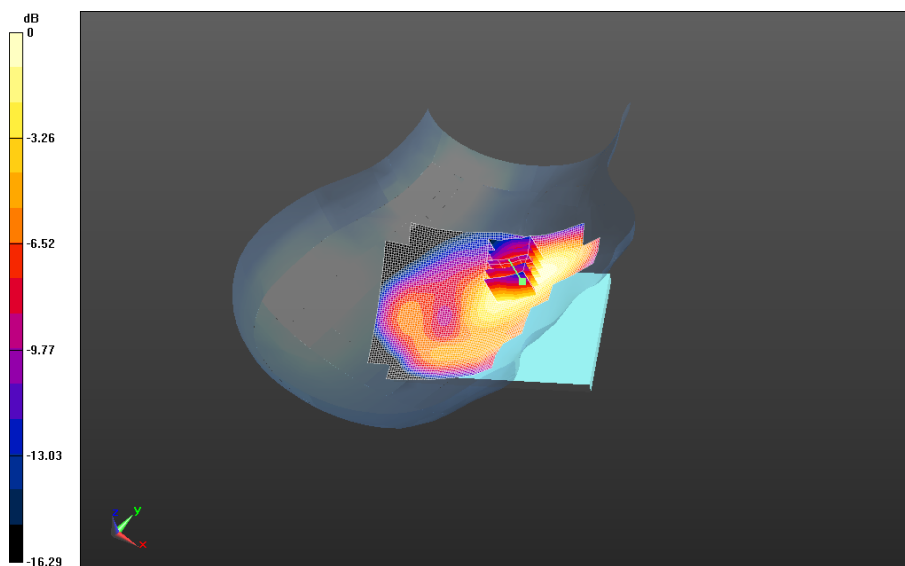
**II\_chan9538\_amb\_temp\_23.8C\_liq\_temp\_21.0C/Zoom Scan (21x21x36)/Cube 0:** Interpolated

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

Reference Value = 9.050 V/m; **Power Drift = -0.104 dB**

**Averaged SAR: SAR(1g) = 0.336 W/kg; SAR(10g) = 0.222 W/kg**

Maximum value of SAR (interpolated) = 0.463 W/kg



0 dB = 0.356 W/kg = -4.49 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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|  |                                               | Document<br><b>Appendix B for the BlackBerry® Smartphone Model RHR191LW</b><br><b>(SQW100-4) SAR Report Part 2/3</b> |                               | Page<br><b>107(123)</b>     |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

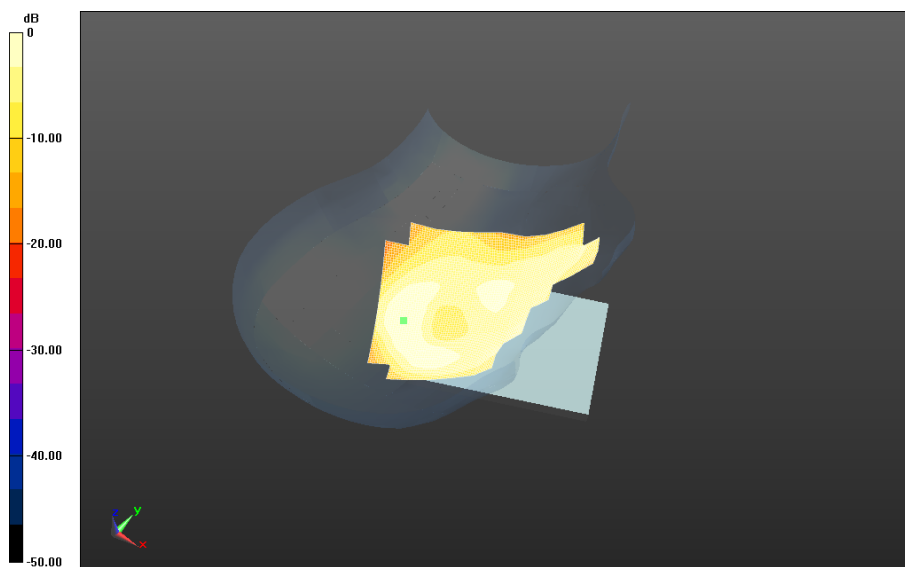
**II\_chan9400\_amb\_temp\_23.5C\_liq\_temp\_21.3C/Area Scan (121x171x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 11.997 V/m; **Power Drift = 0.057 dB**

**Fast SAR: SAR(1g) = 0.158 W/kg; SAR(10g) = 0.0850 W/kg**

Maximum value of SAR (interpolated) = 0.179 W/kg



0 dB = 0.179 W/kg = -7.47 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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|  |                                               | Document<br><b>Appendix B for the BlackBerry® Smartphone Model RHR191LW</b><br><b>(SQW100-4) SAR Report Part 2/3</b> |                               | Page<br><b>108(123)</b>     |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

Date: 4/9/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

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

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

Frequency: 1880 MHz

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.388$  S/m;  $\epsilon_r = 38.513$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Left Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (5.18,5.18,5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

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

**II\_chan9400\_amb\_temp\_23.8C\_liq\_temp\_21.0C/Area Scan (121x171x1):** Interpolated grid:

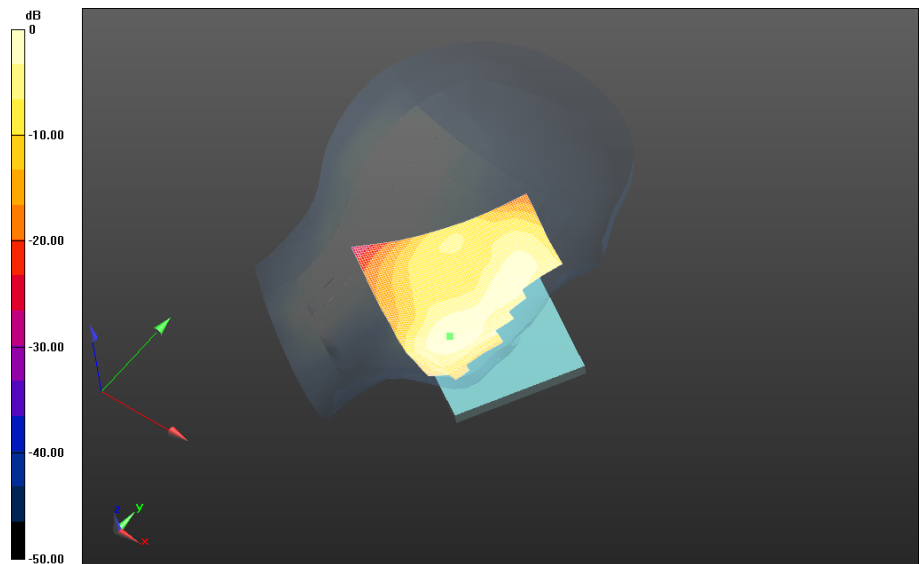
$dx=1.500$  mm,  $dy=1.500$  mm

Reference Value = 8.951 V/m; **Power Drift = 0.103 dB**

**Fast SAR: SAR(1g) = 0.348 W/kg; SAR(10g) = 0.202 W/kg**

Maximum value of SAR (interpolated) = 0.405 W/kg

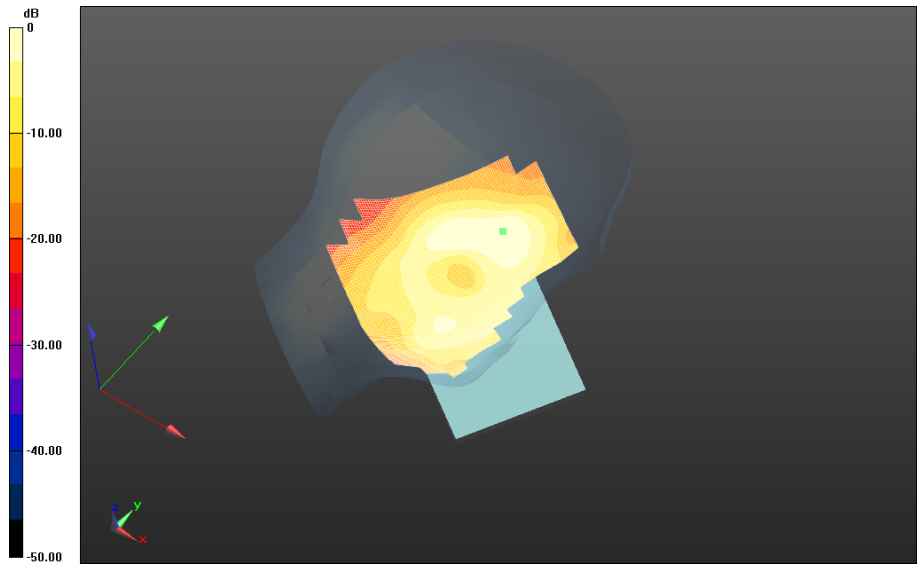
|                                                                                   |                                               |                                                                                                            |                               |                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------|
|  |                                               | Document<br><b>Appendix B for the BlackBerry® Smartphone Model RHR191LW (SQW100-4) SAR Report Part 2/3</b> |                               | Page<br><b>109(123)</b>     |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                             | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |



0 dB = 0.405 W/kg = -3.93 dBW/kg

**Left-Hand-Side HSL - UMTS II/Tilt Position - UMTS**  
**II\_chan9400\_amb\_temp\_23.8C\_liq\_temp\_21.2C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 10.916 V/m; **Power Drift = -0.047 dB**

**Fast SAR: SAR(1g) = 0.161 W/kg; SAR(10g) = 0.0960 W/kg**  
Maximum value of SAR (interpolated) = 0.195 W/kg



0 dB = 0.195 W/kg = -7.10 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

Date: 4/9/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

### **Configuration: Mobile Hot Spot 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;  $\sigma = 1.492$  S/m;  $\epsilon_r = 51.658$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.5,4.5,4.5); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

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

**II\_chan9262\_amb\_temp\_23.9C\_liq\_temp\_21.2C/Area Scan (71x71x1):** Interpolated grid:

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

Reference Value = 10.106 V/m; **Power Drift = -0.024 dB**

**Fast SAR: SAR(1g) = 0.723 W/kg; SAR(10g) = 0.379 W/kg**

Maximum value of SAR (interpolated) = 0.871 W/kg

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

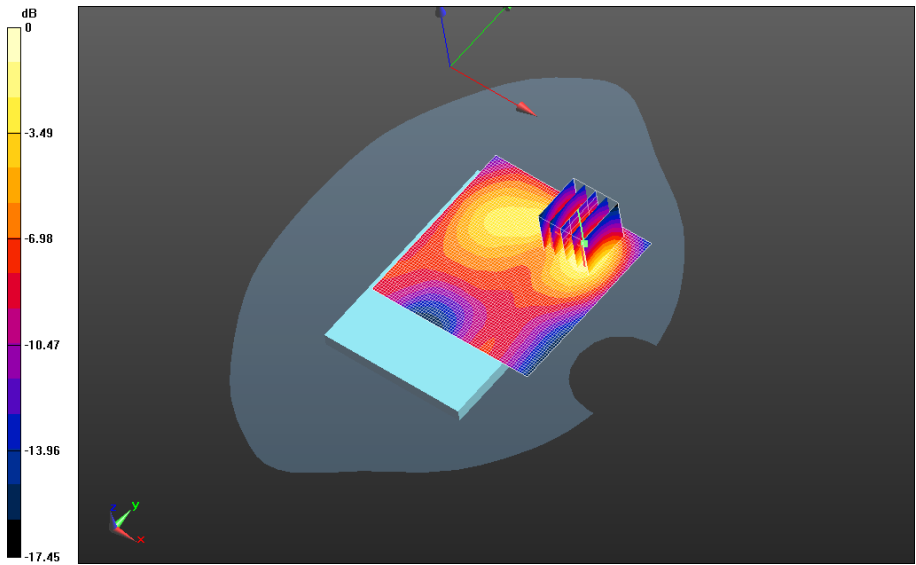
**II\_chan9262\_amb\_temp\_23.9C\_liq\_temp\_21.2C/Zoom Scan (21x21x36)/Cube 0:** Interpolated

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

Reference Value = 10.106 V/m; **Power Drift = -0.024 dB**

**Averaged SAR: SAR(1g) = 0.732 W/kg; SAR(10g) = 0.406 W/kg**

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



0 dB = 0.827 W/kg = -0.82 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

**II\_chan9400\_amb\_temp\_23.8C\_liq\_temp\_21.1C/Area Scan (121x171x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 9.405 V/m; **Power Drift = -0.105 dB**

**Fast SAR: SAR(1g) = 0.640 W/kg; SAR(10g) = 0.356 W/kg**

Maximum value of SAR (interpolated) = 0.740 W/kg

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

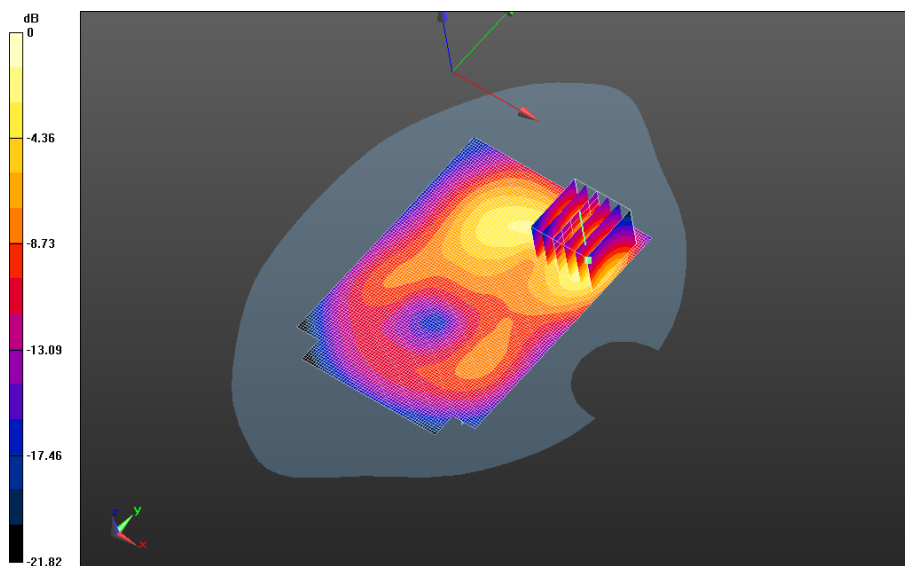
**II\_chan9400\_amb\_temp\_23.8C\_liq\_temp\_21.1C/Zoom Scan (26x26x36)/Cube 0:** Interpolated

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

Reference Value = 9.405 V/m; **Power Drift = -0.105 dB**

**Averaged SAR: SAR(1g) = 0.689 W/kg; SAR(10g) = 0.375 W/kg**

Maximum value of SAR (interpolated) = 1.12 W/kg



0 dB = 0.771 W/kg = -1.13 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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|  |                                               | Document<br><b>Appendix B for the BlackBerry® Smartphone Model RHR191LW</b><br><b>(SQW100-4) SAR Report Part 2/3</b> |                               | Page<br><b>114(123)</b>     |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

**II\_chan9538\_amb\_temp\_23.9C\_liq\_temp\_21.2C/Area Scan (71x71x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 8.417 V/m; **Power Drift = -0.018 dB**

**Fast SAR: SAR(1g) = 0.614 W/kg; SAR(10g) = 0.320 W/kg**

Maximum value of SAR (interpolated) = 0.746 W/kg

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

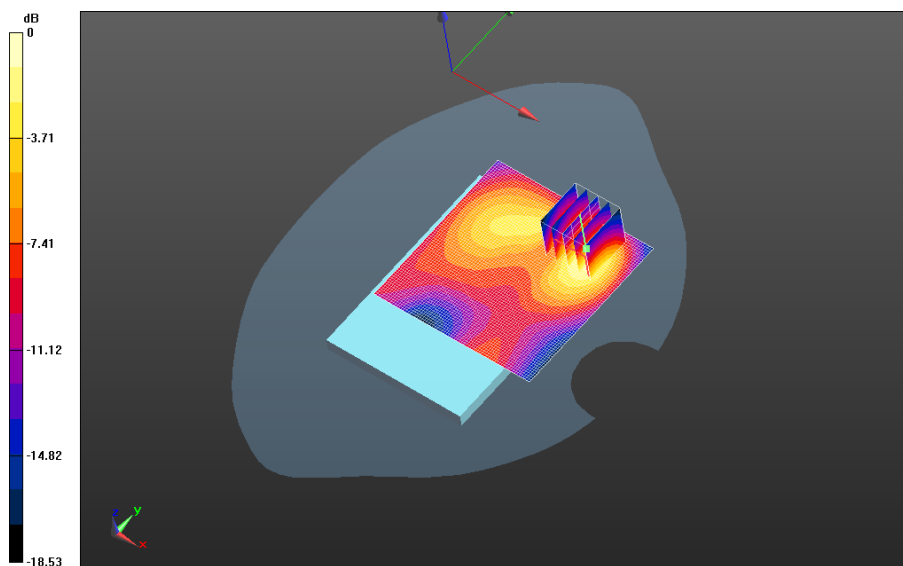
**II\_chan9538\_amb\_temp\_23.9C\_liq\_temp\_21.2C/Zoom Scan (21x21x36)/Cube 0:** Interpolated

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

Reference Value = 8.417 V/m; **Power Drift = -0.018 dB**

**Averaged SAR: SAR(1g) = 0.622 W/kg; SAR(10g) = 0.337 W/kg**

Maximum value of SAR (interpolated) = 1.01 W/kg



0 dB = 0.702 W/kg = -1.54 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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|  |                                               | Document<br><b>Appendix B for the BlackBerry® Smartphone Model RHR191LW</b><br><b>(SQW100-4) SAR Report Part 2/3</b> |                               | Page<br><b>115(123)</b>     |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

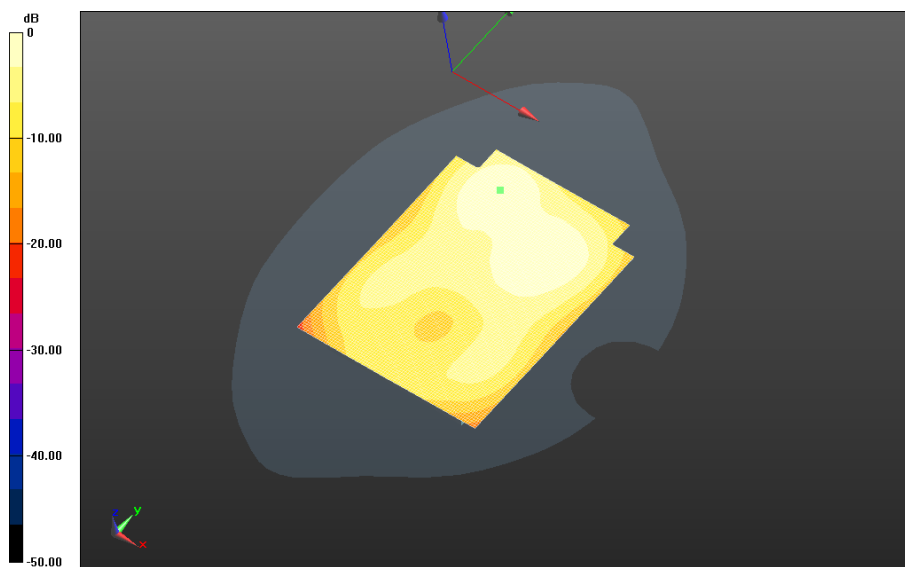
**II\_chan9400\_amb\_temp\_23.7C\_liq\_temp\_21.2C/Area Scan (121x171x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 9.009 V/m; **Power Drift = 0.051 dB**

**Fast SAR: SAR(1g) = 0.329 W/kg; SAR(10g) = 0.188 W/kg**

Maximum value of SAR (interpolated) = 0.370 W/kg



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

|                                                                                   |                                               |                                                                                                                      |                               |                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------|
|  |                                               | Document<br><b>Appendix B for the BlackBerry® Smartphone Model RHR191LW</b><br><b>(SQW100-4) SAR Report Part 2/3</b> |                               | Page<br><b>116(123)</b>     |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

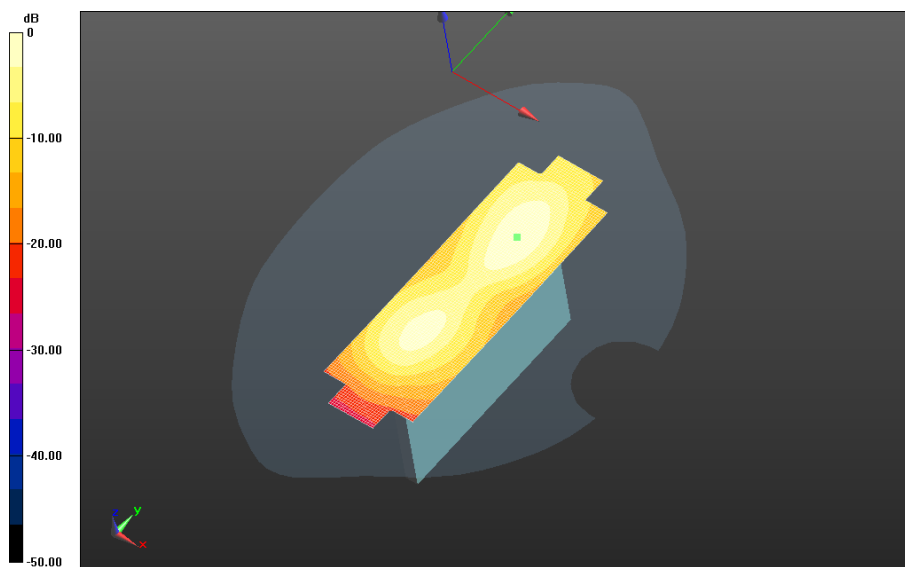
**II\_chan9400\_amb\_temp\_23.7C\_liq\_temp\_21.2C/Area Scan (121x171x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 7.706 V/m; **Power Drift = 0.093 dB**

**Fast SAR: SAR(1g) = 0.271 W/kg; SAR(10g) = 0.148 W/kg**

Maximum value of SAR (interpolated) = 0.311 W/kg



0 dB = 0.311 W/kg = -5.07 dBW/kg

|                                                                                   |                              |                                                                                                          |                    |                       |  |
|-----------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------|--------------------|-----------------------|--|
|  |                              | Document                                                                                                 |                    | Page                  |  |
|                                                                                   |                              | <b>Appendix B for the BlackBerry® Smartphone Model RHR191LW</b><br><b>(SQW100-4) SAR Report Part 2/3</b> |                    | <b>117(123)</b>       |  |
| Author Data                                                                       | Dates of Test                | Test Report No                                                                                           | FCC ID:            | IC                    |  |
| <b>Andrew Becker</b>                                                              | <b>Mar 30 – May 14, 2015</b> | <b>RTS-6067-1505-05 Rev2</b>                                                                             | <b>L6ARHR190LW</b> | <b>2503A-RHR190LW</b> |  |

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

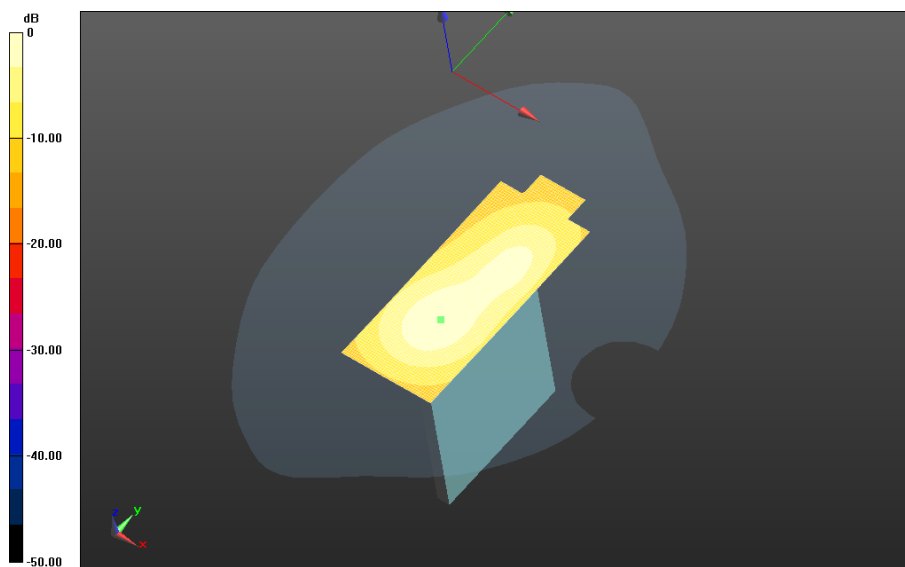
**II\_chan9400\_amb\_temp\_23.7C\_liq\_temp\_21.2C/Area Scan (121x171x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 13.130 V/m; **Power Drift = -0.014 dB**

**Fast SAR: SAR(1g) = 0.337 W/kg; SAR(10g) = 0.191 W/kg**

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



0 dB = 0.375 W/kg = -4.26 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------|
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

Date: 4/10/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 1160686730**

### **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;  $\sigma = 1.492$  S/m;  $\epsilon_r = 51.658$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.5,4.5,4.5); Calibrated: 3/13/2015;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

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

**II\_chan9262\_amb\_temp\_23.6C\_liq\_temp\_21.2C/Area Scan (71x71x1):** Interpolated grid:

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

Reference Value = 9.115 V/m; **Power Drift = -0.031 dB**

**Fast SAR: SAR(1g) = 0.559 W/kg; SAR(10g) = 0.309 W/kg**

Maximum value of SAR (interpolated) = 0.641 W/kg

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

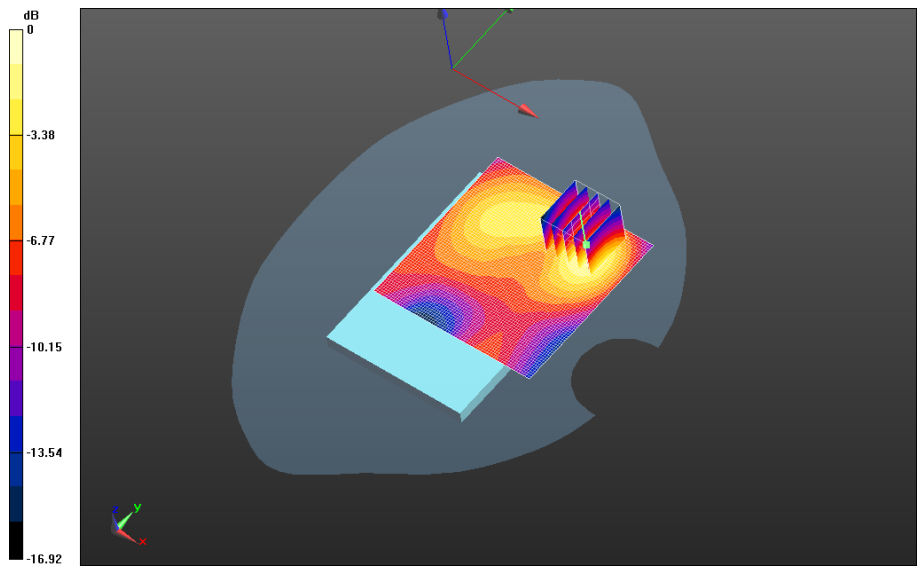
**II\_chan9262\_amb\_temp\_23.6C\_liq\_temp\_21.2C/Zoom Scan (21x21x36)/Cube 0:** Interpolated

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

Reference Value = 9.115 V/m; **Power Drift = -0.031 dB**

**Averaged SAR: SAR(1g) = 0.566 W/kg; SAR(10g) = 0.331 W/kg**

Maximum value of SAR (interpolated) = 0.849 W/kg



0 dB = 0.630 W/kg = -2.01 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------|
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

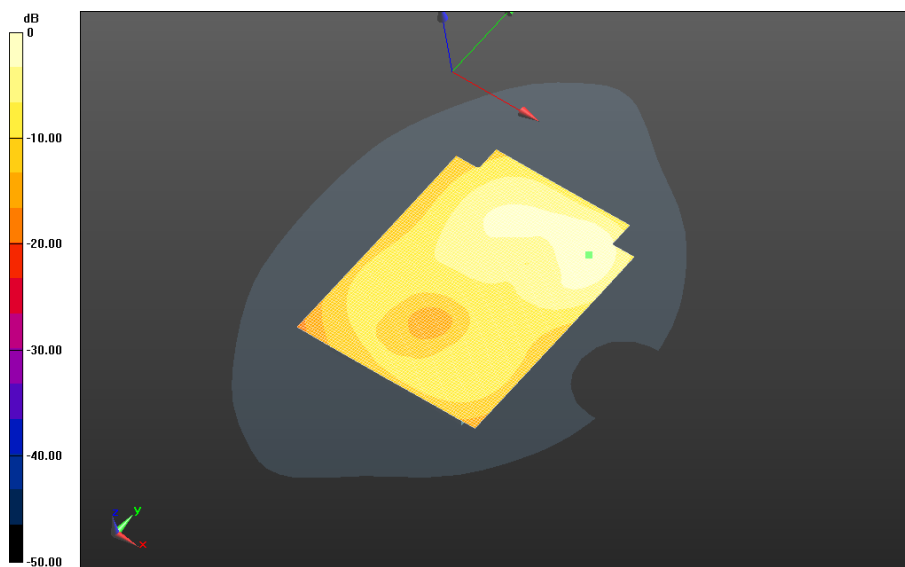
**II\_chan9400\_amb\_temp\_23.7C\_liq\_temp\_21.2C/Area Scan (121x171x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 8.801 V/m; **Power Drift = 0.261 dB**

**Fast SAR: SAR(1g) = 0.529 W/kg; SAR(10g) = 0.305 W/kg**

Maximum value of SAR (interpolated) = 0.591 W/kg



0 dB = 0.591 W/kg = -2.28 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

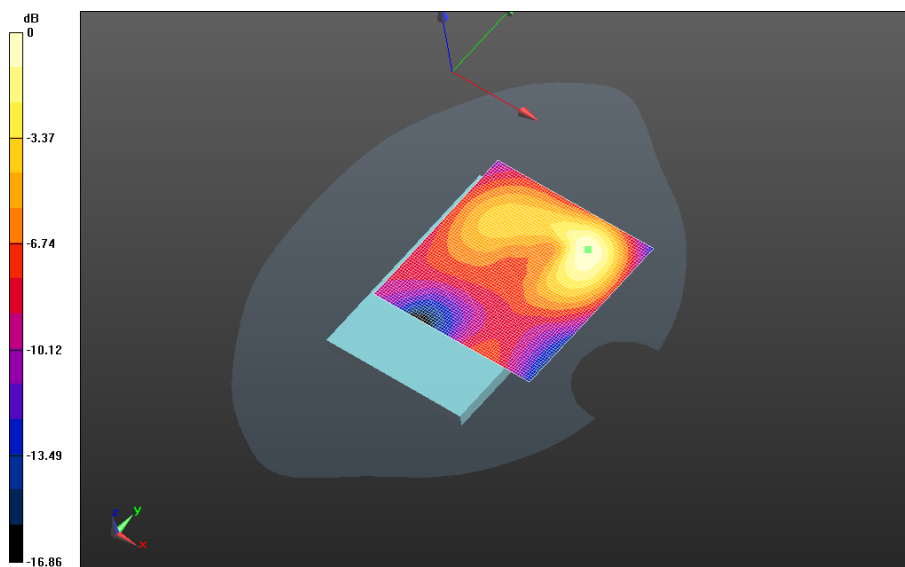
**II\_chan9538\_amb\_temp\_24.0C\_liq\_temp\_21.3C/Area Scan (71x71x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 7.952 V/m; **Power Drift = -0.108 dB**

**Fast SAR: SAR(1g) = 0.475 W/kg; SAR(10g) = 0.261 W/kg**

Maximum value of SAR (interpolated) = 0.549 W/kg



0 dB = 0.549 W/kg = -2.60 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

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

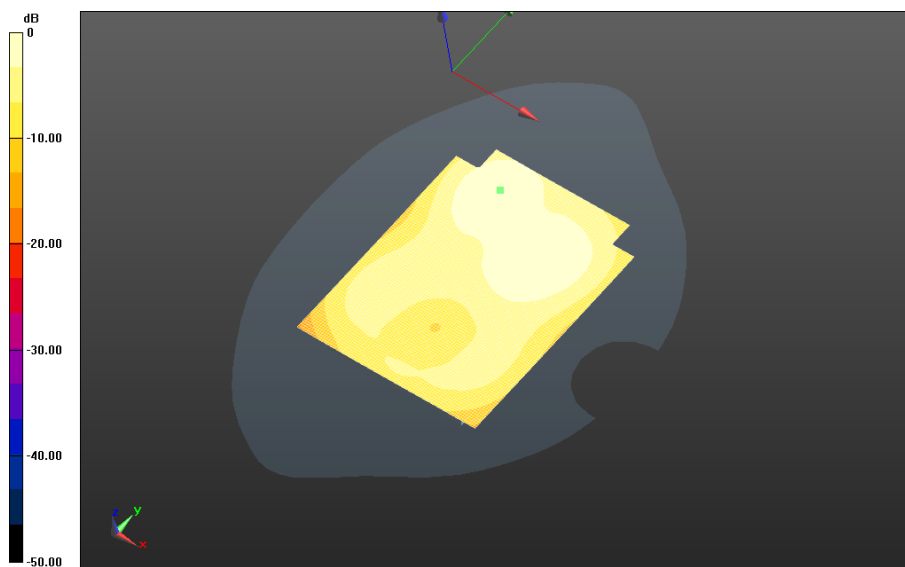
**II\_chan9400\_amb\_temp\_24.0C\_liq\_temp\_21.3C/Area Scan (121x171x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 8.918 V/m; **Power Drift = 0.025 dB**

**Fast SAR: SAR(1g) = 0.271 W/kg; SAR(10g) = 0.159 W/kg**

Maximum value of SAR (interpolated) = 0.301 W/kg



0 dB = 0.301 W/kg = -5.21 dBW/kg

|                                                                                   |                                               |                                                                                                                      |                               |                             |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Mar 30 – May 14, 2015</b> | Test Report No<br><b>RTS-6067-1505-05 Rev2</b>                                                                       | FCC ID:<br><b>L6ARHR190LW</b> | IC<br><b>2503A-RHR190LW</b> |

**Body Worn MSL - UMTS II/15mm Device Back - UMTS**  
**II\_chan9400\_amb\_temp\_23.7C\_liq\_temp\_21.2C 2/Area Scan (81x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 7.835 V/m; **Power Drift = -0.013 dB**

**Fast SAR: SAR(1g) = 0.316 W/kg; SAR(10g) = 0.181 W/kg**  
Maximum value of SAR (interpolated) = 0.351 W/kg

