
		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>1(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

**APPENDIX C1: SAR DISTRIBUTION PLOTS FOR HOTSPOT CONFIGURATION**

		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>2(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

# LTE Band 13

Date: 2/26/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7A1D**

## Configuration: Mobile Hot Spot MSL - LTE Band 13

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

Medium Parameters used:  $f=782$  MHz;  $\sigma = 0.983$  S/m;  $\epsilon_r = 53.798$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: 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 13/10mm Device Back - LTE band

**13\_chan23230\_10MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_24.1C\_liq\_temp\_21.0C/Area Scan**

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

Reference Value = 25.001 V/m; **Power Drift = -0.000244 dB**

**Fast SAR: SAR(1g) = 0.677 W/kg; SAR(10g) = 0.464 W/kg**

Maximum value of SAR (interpolated) = 0.718 W/kg

### Mobile Hot Spot MSL - LTE Band 13/10mm Device Back - LTE band

**13\_chan23230\_10MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_24.1C\_liq\_temp\_21.0C/Zoom Scan**

**(26x31x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 25.001 V/m; **Power Drift = -0.000244 dB**

**Averaged SAR: SAR(1g) = 0.655 W/kg; SAR(10g) = 0.475 W/kg**

Maximum value of SAR (interpolated) = 0.921 W/kg

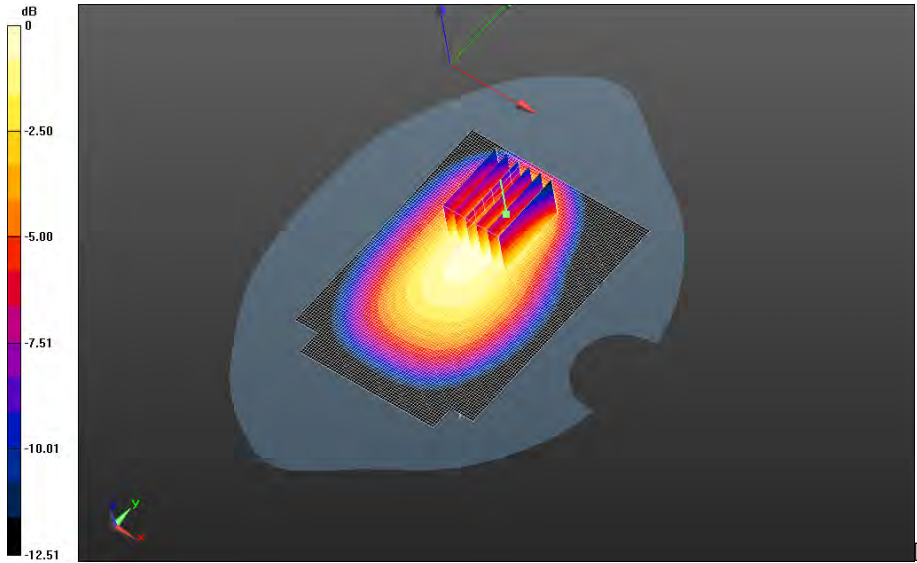
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 29 –Mar 09, 2015**


Test Report No  
**RTS-6063-1503-15**

FCC ID:  
**L6ARHC160LW**

IC  
**2503A-RHC160LW**

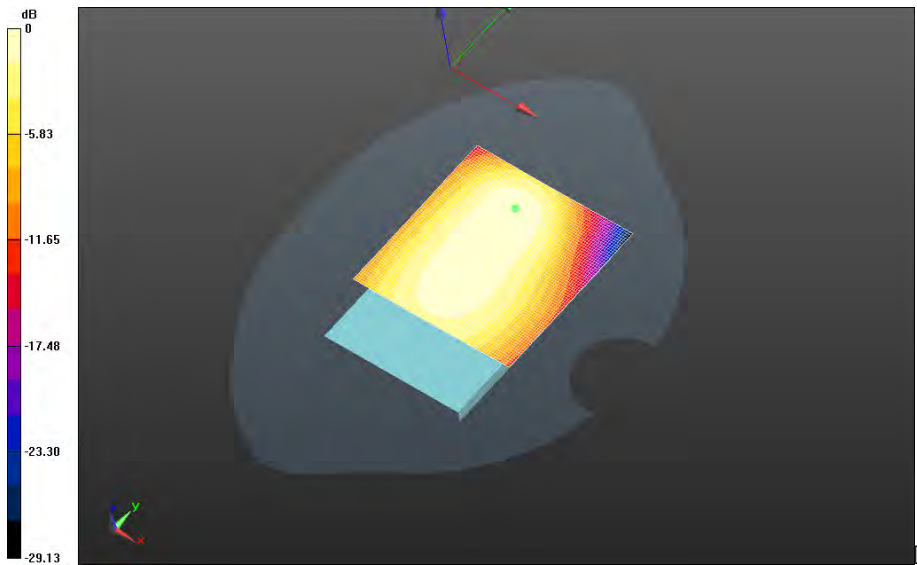



0 dB = 0.696 W/kg = -1.57 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>4(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 13/10mm Device Back - LTE band  
 13\_chan23230\_10MHz\_BW\_RB25\_Offset\_Low\_amb\_temp\_24.2C\_liq\_temp\_21.0C/Area Scan  
 (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 21.561 V/m; Power Drift = 0.022 dB**

**Fast SAR: SAR(1g) = 0.481 W/kg; SAR(10g) = 0.336 W/kg  
 Maximum value of SAR (interpolated) = 0.519 W/kg**



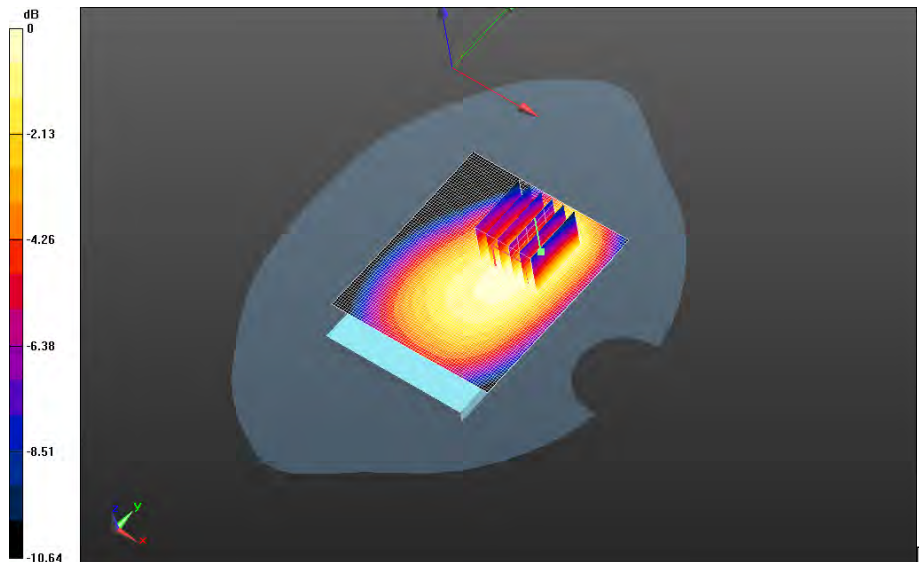
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>5(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 13/10mm Device Front- LTE band  
13\_chan23230\_10MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.8C\_liq\_temp\_20.9C/Area Scan  
(71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 23.339 V/m; **Power Drift = 0.072 dB**


**Fast SAR: SAR(1g) = 0.566 W/kg; SAR(10g) = 0.396 W/kg**  
Maximum value of SAR (interpolated) = 0.596 W/kg

**Mobile Hot Spot MSL - LTE Band 13/10mm Device Front- LTE band  
13\_chan23230\_10MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.8C\_liq\_temp\_20.9C/Zoom Scan  
(26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 23.339 V/m; **Power Drift = 0.072 dB**

**Averaged SAR: SAR(1g) = 0.570 W/kg; SAR(10g) = 0.424 W/kg**  
Maximum value of SAR (interpolated) = 0.739 W/kg

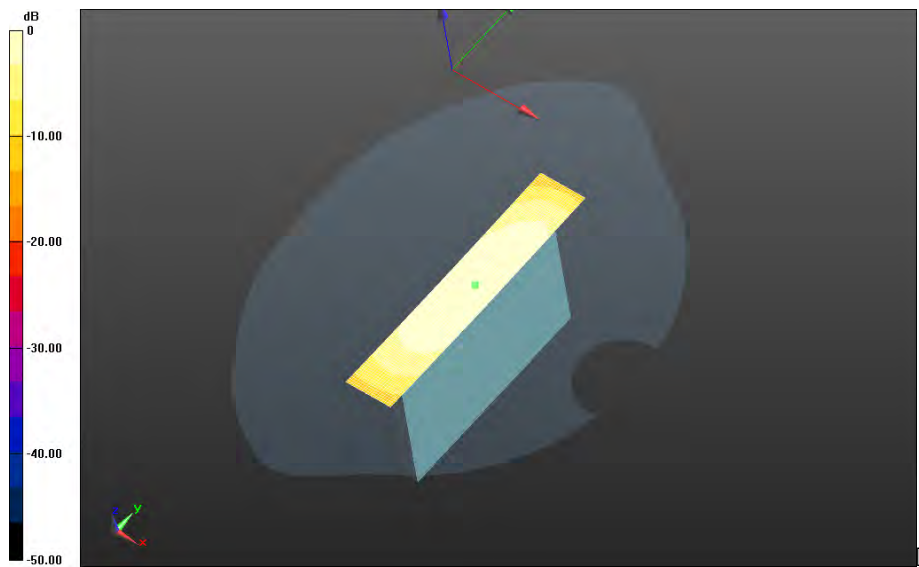


0 dB = 0.602 W/kg = -2.20 dBW/kg


		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>6(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 13/10mm Device Left -LTE band  
 13\_chan23230\_10MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_24.1C\_liq\_temp\_20.9C/Area Scan  
 (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 23.804 V/m; **Power Drift = -0.025 dB****

**Fast SAR: SAR(1g) = 0.490 W/kg; SAR(10g) = 0.335 W/kg**  
 Maximum value of SAR (interpolated) = 0.518 W/kg

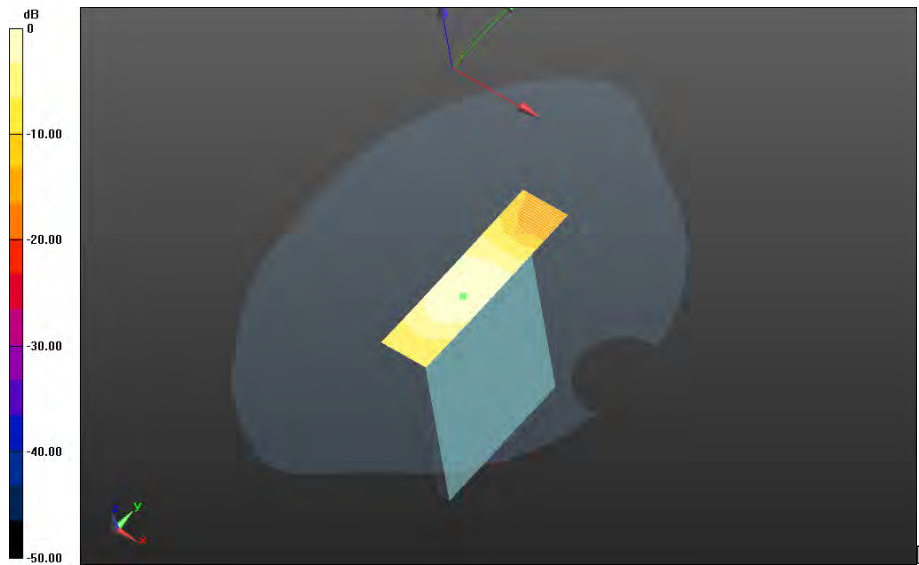


0 dB = 0.518 W/kg = -2.86 dBW/kg


		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>7(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 13/10mm Device Bottom -LTE band  
 13\_chan23230\_10MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.9C\_liq\_temp\_20.8C/Area Scan  
 (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 10.363 V/m; Power Drift = -0.049 dB**

**Fast SAR: SAR(1g) = 0.107 W/kg; SAR(10g) = 0.0679 W/kg  
 Maximum value of SAR (interpolated) = 0.120 W/kg**



0 dB = 0.120 W/kg = -9.21 dBW/kg

		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>8(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

# LTE Band 17

Date: 2/26/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Mobile Hot Spot MSL - LTE Band 17

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

Medium Parameters used:  $f=709$  MHz;  $\sigma = 0.915$  S/m;  $\epsilon_r = 54.605$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: 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 17/10mm Device Back - LTE band

**17\_chan23780\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_20.8C/Area Scan**

**(121x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 19.198 V/m; **Power Drift = 0.010 dB**

**Fast SAR: SAR(1g) = 0.481 W/kg; SAR(10g) = 0.324 W/kg**

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

### Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band

**17\_chan23780\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_20.8C/Zoom Scan**

**(26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 19.198 V/m; **Power Drift = 0.010 dB**

**Averaged SAR: SAR(1g) = 0.466 W/kg; SAR(10g) = 0.314 W/kg**

Maximum value of SAR (interpolated) = 0.779 W/kg



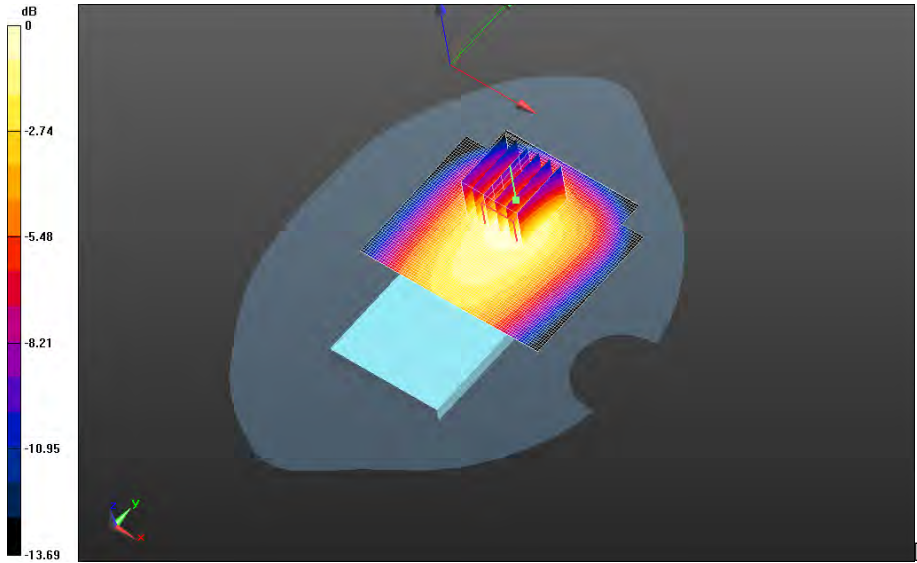
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 29 –Mar 09, 2015**


Test Report No  
**RTS-6063-1503-15**

FCC ID:  
**L6ARHC160LW**

IC  
**2503A-RHC160LW**



0 dB = 0.475 W/kg = -3.23 dBW/kg

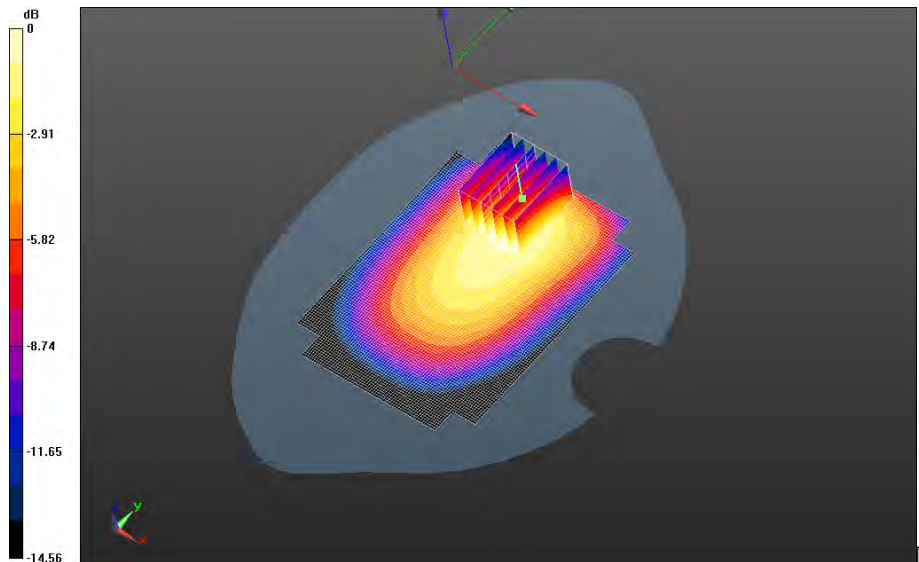
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>10(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band  
17\_chan23790\_10MHz\_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 = 18.972 V/m; **Power Drift = -0.037 dB**


**Fast SAR: SAR(1g) = 0.471 W/kg; SAR(10g) = 0.316 W/kg**  
Maximum value of SAR (interpolated) = 0.511 W/kg

**Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band  
17\_chan23790\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.7C\_liq\_temp\_20.7C/Zoom Scan  
(26x31x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 18.972 V/m; **Power Drift = -0.037 dB**

**Averaged SAR: SAR(1g) = 0.453 W/kg; SAR(10g) = 0.301 W/kg**  
Maximum value of SAR (interpolated) = 0.768 W/kg



0 dB = 0.471 W/kg = -3.27 dBW/kg

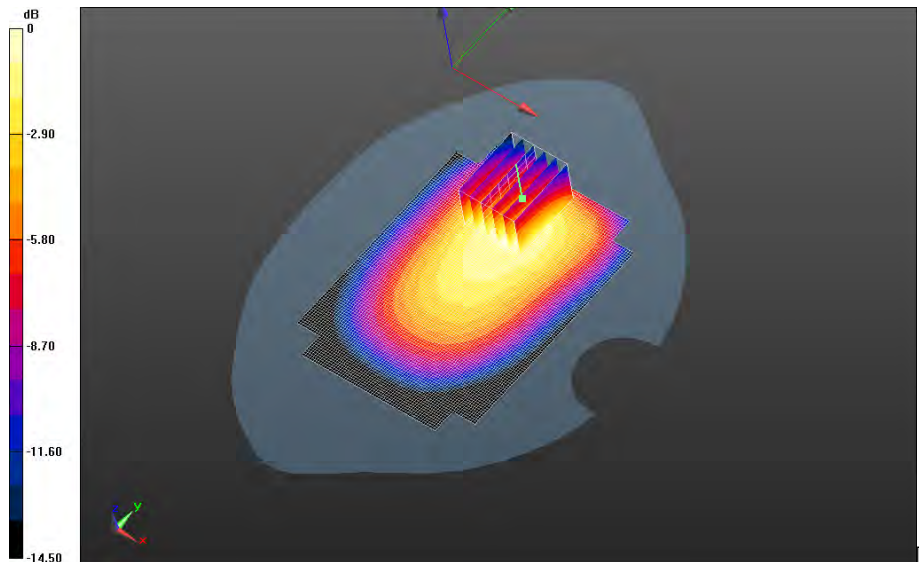
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>11(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band  
17\_chan23800\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_20.8C/Area Scan  
(121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 18.224 V/m; Power Drift = -0.045 dB**


**Fast SAR: SAR(1g) = 0.451 W/kg; SAR(10g) = 0.302 W/kg  
Maximum value of SAR (interpolated) = 0.489 W/kg**

**Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band  
17\_chan23800\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_20.8C/Zoom Scan  
(26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 18.224 V/m; Power Drift = -0.045 dB**

**Averaged SAR: SAR(1g) = 0.437 W/kg; SAR(10g) = 0.290 W/kg  
Maximum value of SAR (interpolated) = 0.737 W/kg**



0 dB = 0.453 W/kg = -3.44 dBW/kg

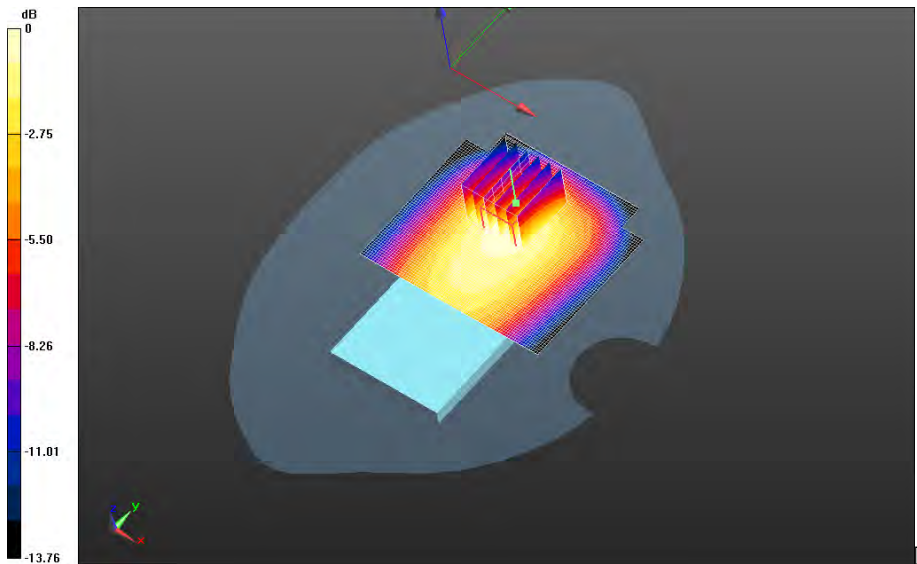
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>12(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band  
17\_chan23780\_10MHz\_BW\_RB25\_Offset\_High\_amb\_temp\_23.7C\_liq\_temp\_20.7C/Area Scan  
(121x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 17.247 V/m; **Power Drift = 0.092 dB**


**Fast SAR: SAR(1g) = 0.376 W/kg; SAR(10g) = 0.253 W/kg**  
Maximum value of SAR (interpolated) = 0.397 W/kg

**Mobile Hot Spot MSL - LTE Band 17/10mm Device Back - LTE band  
17\_chan23780\_10MHz\_BW\_RB25\_Offset\_High\_amb\_temp\_23.7C\_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 = 17.247 V/m; **Power Drift = 0.092 dB**

**Averaged SAR: SAR(1g) = 0.367 W/kg; SAR(10g) = 0.247 W/kg**  
Maximum value of SAR (interpolated) = 0.613 W/kg

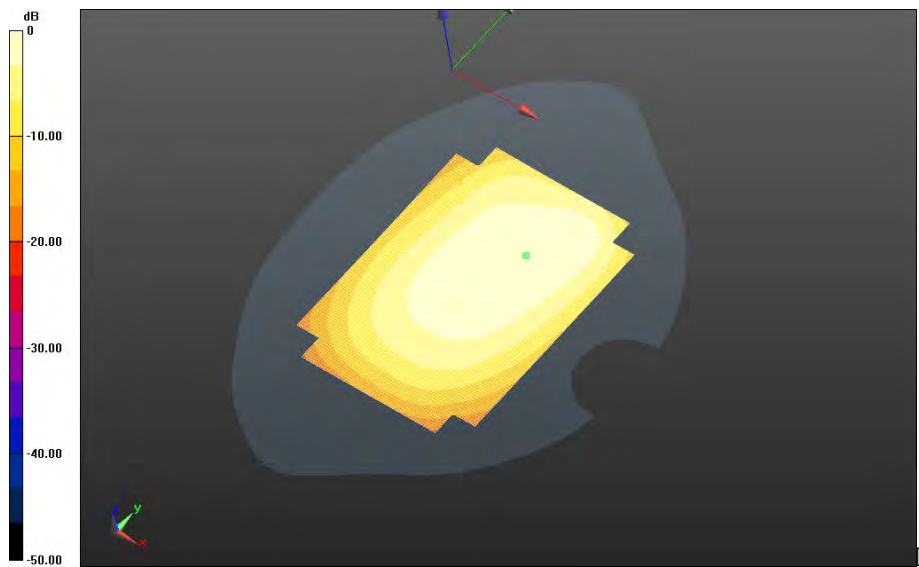


0 dB = 0.374 W/kg = -4.27 dBW/kg


		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>13(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 17/10mm Device Front - LTE band  
 17\_chan23790\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_20.8C 2/Area Scan  
 (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 17.237 V/m; Power Drift = 0.013 dB**

**Fast SAR: SAR(1g) = 0.302 W/kg; SAR(10g) = 0.213 W/kg  
 Maximum value of SAR (interpolated) = 0.309 W/kg**

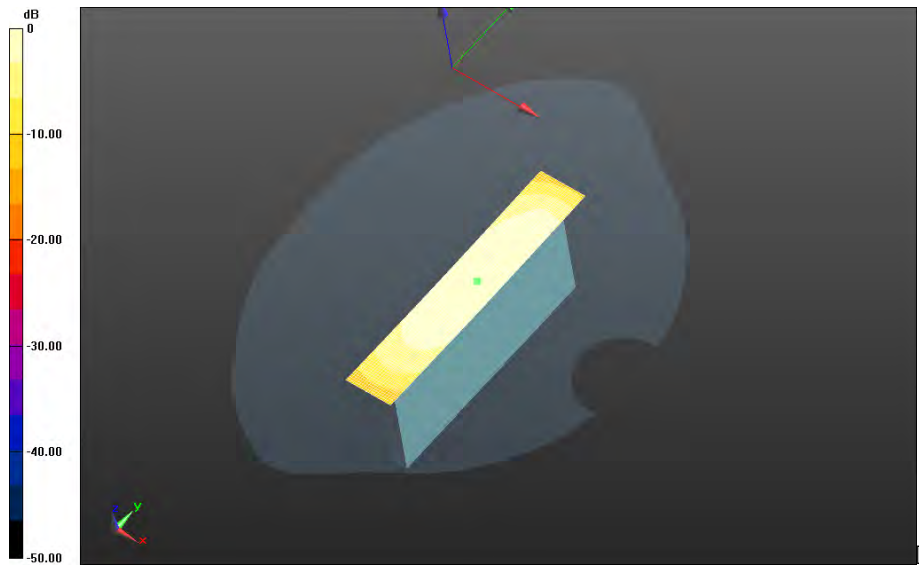


0 dB = 0.309 W/kg = -5.10 dBW/kg


		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>14(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 17/10mm Device Left -LTE band  
 17\_chan23790\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_20.8C/Area Scan  
 (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 18.926 V/m; **Power Drift = 0.018 dB****

**Fast SAR: SAR(1g) = 0.299 W/kg; SAR(10g) = 0.206 W/kg**  
 Maximum value of SAR (interpolated) = 0.308 W/kg

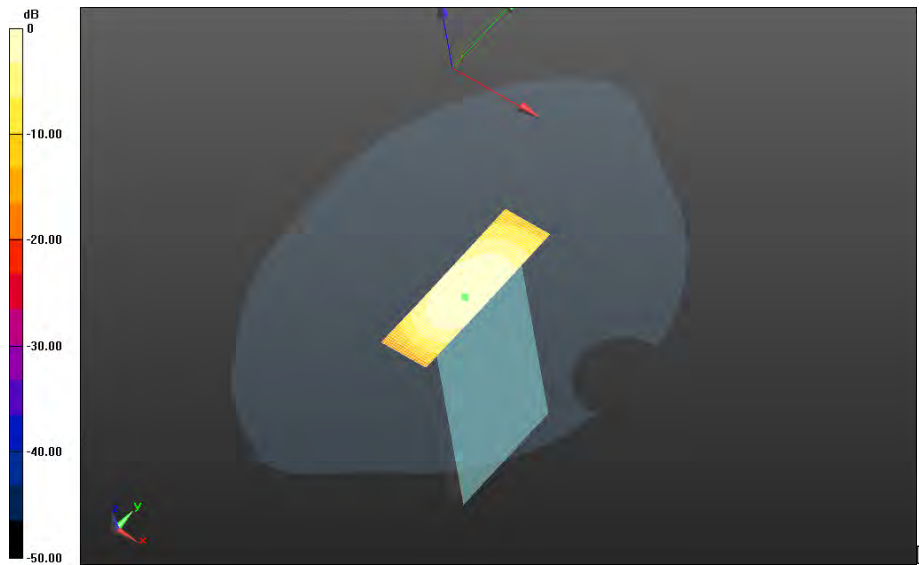


0 dB = 0.308 W/kg = -5.11 dBW/kg


		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>15(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 17/10mm Device Bottom -LTE band  
 17\_chan23790\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_20.8C/Area Scan  
 (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 18.287 V/m; **Power Drift = -0.012 dB****

**Fast SAR: SAR(1g) = 0.316 W/kg; SAR(10g) = 0.207 W/kg**  
 Maximum value of SAR (interpolated) = 0.327 W/kg



0 dB = 0.327 W/kg = -4.85 dBW/kg

		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>16(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

## LTE Band 5

Date: 2/26/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

### Configuration: Mobile Hot Spot MSL - LTE Band 5

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

Medium Parameters used:  $f=829$  MHz;  $\sigma = 0.961$  S/m;  $\epsilon_r = 52.791$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: 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 5/10mm Device Back - LTE band

**5\_chan20450\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.6C\_liq\_temp\_20.5C/Area Scan**

**(121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 23.216 V/m; **Power Drift = -0.00764 dB**

**Fast SAR: SAR(1g) = 0.620 W/kg; SAR(10g) = 0.423 W/kg**

Maximum value of SAR (interpolated) = 0.666 W/kg

#### Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band

**5\_chan20450\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.6C\_liq\_temp\_20.5C/Zoom Scan**

**(26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 23.216 V/m; **Power Drift = -0.00764 dB**

**Averaged SAR: SAR(1g) = 0.613 W/kg; SAR(10g) = 0.420 W/kg**

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



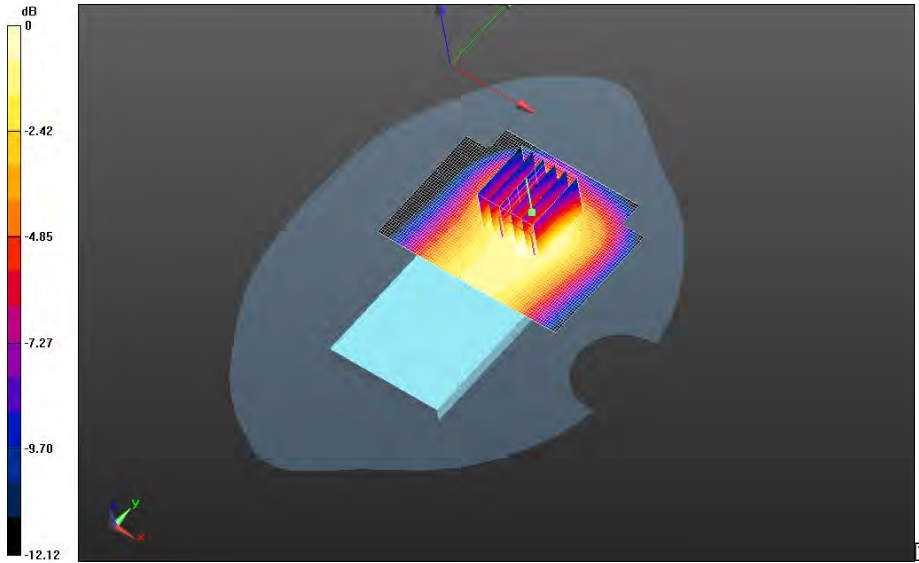
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 29 –Mar 09, 2015**


Test Report No  
**RTS-6063-1503-15**

FCC ID:  
**L6ARHC160LW**

IC  
**2503A-RHC160LW**

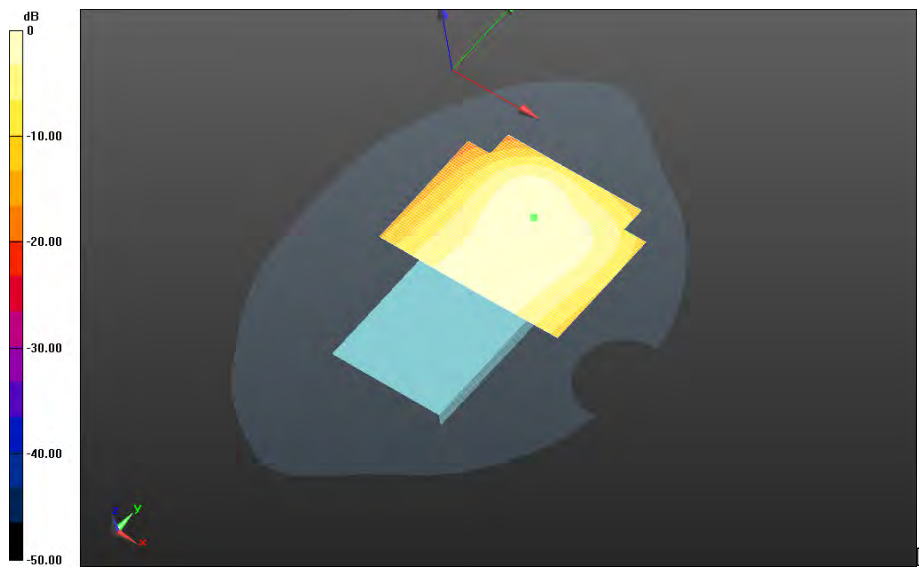


0 dB = 0.658 W/kg = -1.82 dBW/kg


		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>18(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band  
 5\_chan20525\_10MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.8C\_liq\_temp\_20.6C/Area Scan  
 (121x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 20.636 V/m; Power Drift = 0.042 dB**

**Fast SAR: SAR(1g) = 0.485 W/kg; SAR(10g) = 0.331 W/kg  
 Maximum value of SAR (interpolated) = 0.521 W/kg**



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

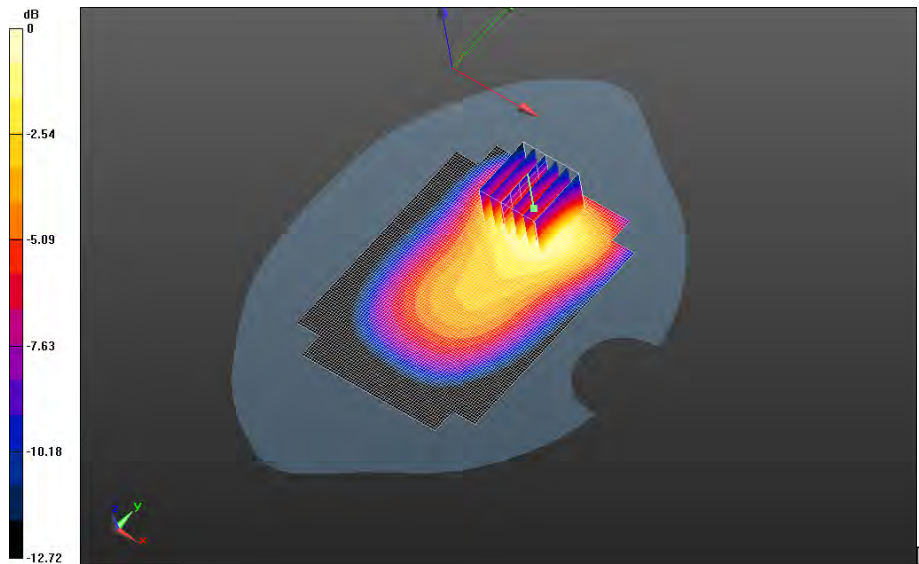
		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>19(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

**Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band  
5\_chan20600\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.6C\_liq\_temp\_20.5C/Area Scan  
(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 21.328 V/m; **Power Drift = -0.091 dB**


**Fast SAR: SAR(1g) = 0.774 W/kg; SAR(10g) = 0.522 W/kg**  
Maximum value of SAR (interpolated) = 0.833 W/kg

**Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band  
5\_chan20600\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.6C\_liq\_temp\_20.5C/Zoom Scan  
(26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 21.328 V/m; **Power Drift = -0.091 dB**

**Averaged SAR: SAR(1g) = 0.763 W/kg; SAR(10g) = 0.507 W/kg**  
Maximum value of SAR (interpolated) = 1.22 W/kg

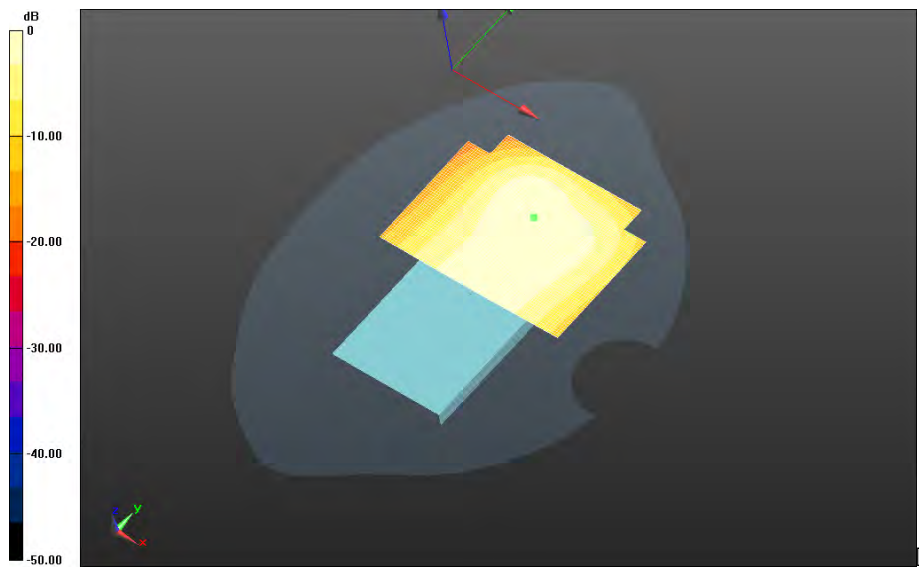



0 dB = 0.817 W/kg = -0.88 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>20(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band  
 5\_chan20525\_10MHz\_BW\_RB25\_Offset\_Low\_amb\_temp\_23.8C\_liq\_temp\_20.6C/Area Scan  
 (121x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 19.862 V/m; Power Drift = -0.036 dB**

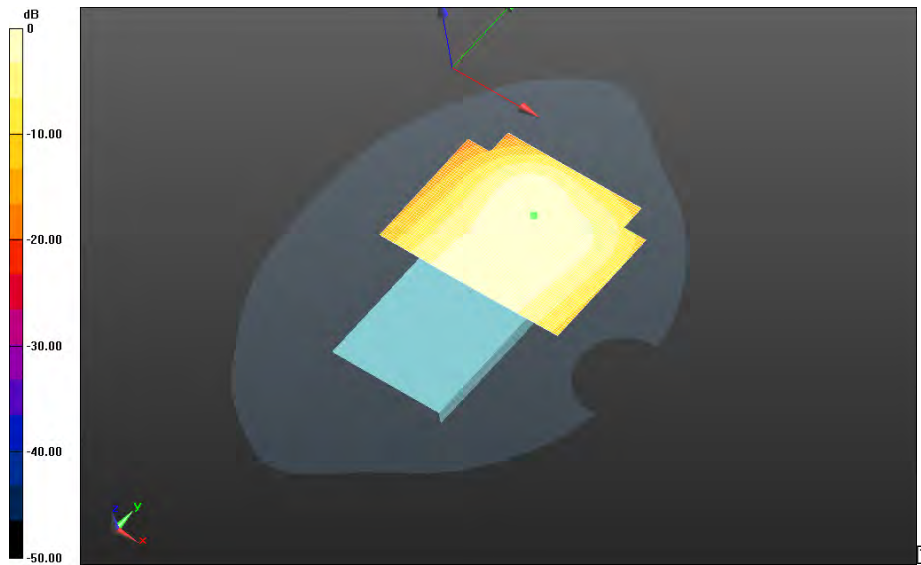
**Fast SAR: SAR(1g) = 0.465 W/kg; SAR(10g) = 0.317 W/kg  
 Maximum value of SAR (interpolated) = 0.499 W/kg**




	Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>			Page <b>21(118)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>	FCC ID: <b>L6ARHC160LW</b>

**Mobile Hot Spot MSL - LTE Band 5/10mm Device Back - LTE band  
5\_chan20450\_10MHz\_BW\_RB50\_Offset\_Low\_amb\_temp\_23.8C\_liq\_temp\_20.6C/Area Scan  
(121x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 18.711 V/m; Power Drift = 0.00736 dB**

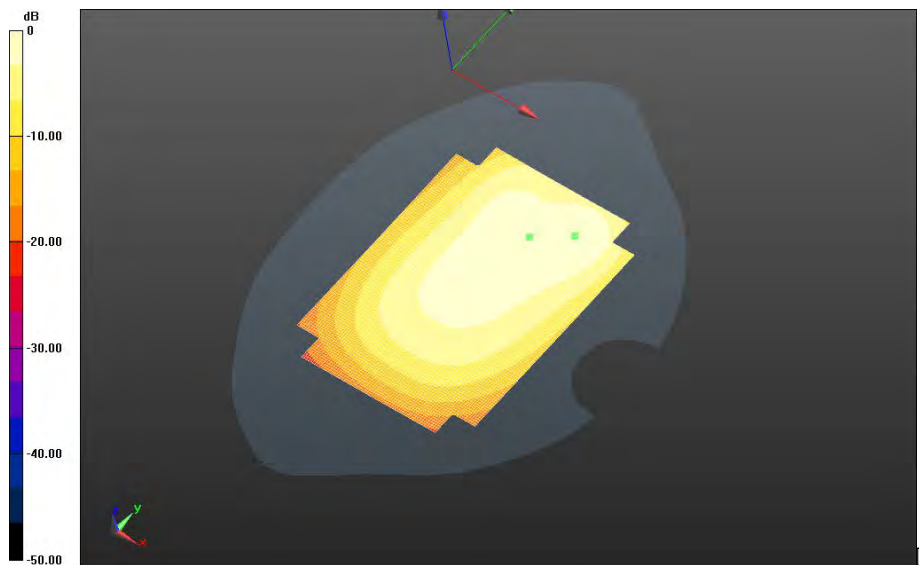
**Fast SAR: SAR(1g) = 0.364 W/kg; SAR(10g) = 0.251 W/kg  
Maximum value of SAR (interpolated) = 0.391 W/kg**




		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>22(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 5/10mm Device Front- LTE band  
 5\_chan20600\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_20.6C/Area Scan  
 (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 19.748 V/m; Power Drift = 0.00488 dB**

**Fast SAR: SAR(1g) = 0.517 W/kg; SAR(10g) = 0.358 W/kg  
 Maximum value of SAR (interpolated) = 0.548 W/kg**

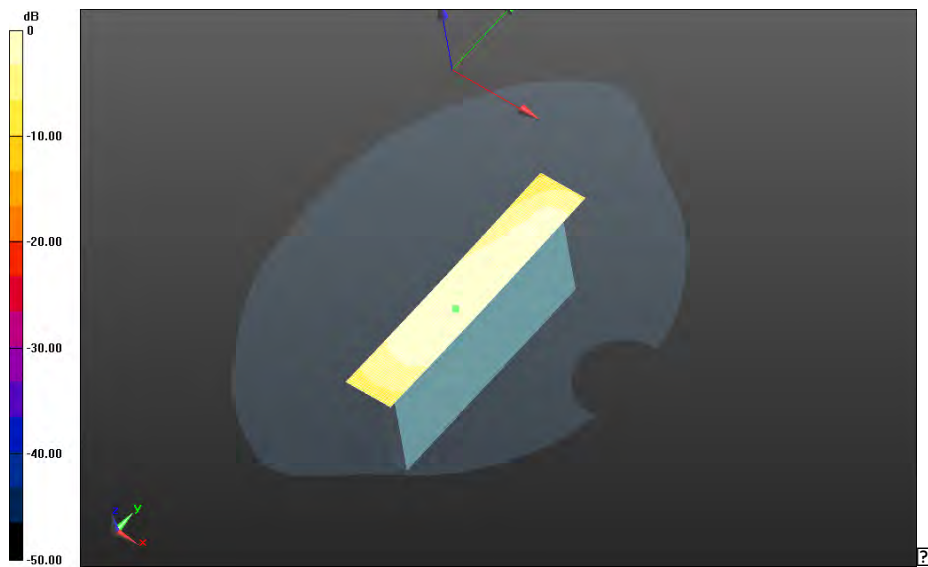


0 dB = 0.548 W/kg = -2.61 dBW/kg


		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>23(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 5/10mm Device Left - LTE band  
 5\_chan20600\_10MHz\_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 = 13.802 V/m; **Power Drift = -0.012 dB****

**Fast SAR: SAR(1g) = 0.174 W/kg; SAR(10g) = 0.119 W/kg**  
 Maximum value of SAR (interpolated) = 0.186 W/kg



0 dB = 0.186 W/kg = -7.30 dBW/kg

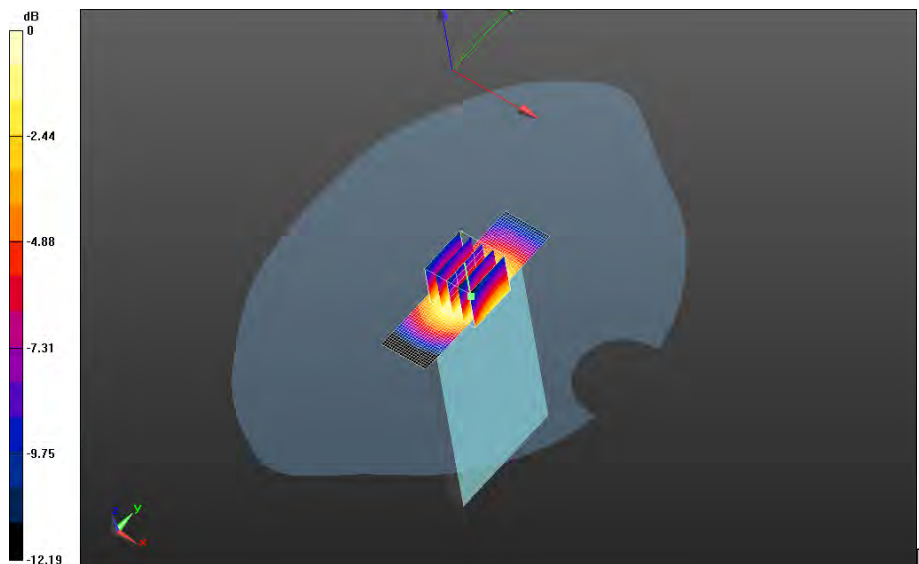
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>24(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 5/10mm Device Bottom - LTE band  
5\_chan20600\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.9C\_liq\_temp\_22.5C/Area Scan  
(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 23.554 V/m; **Power Drift = -0.022 dB**

**Fast SAR: SAR(1g) = 0.520 W/kg; SAR(10g) = 0.339 W/kg**  
Maximum value of SAR (interpolated) = 0.567 W/kg


**Mobile Hot Spot MSL - LTE Band 5/10mm Device Bottom - LTE band  
5\_chan20600\_10MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.9C\_liq\_temp\_22.5C/Zoom Scan  
(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 23.554 V/m; **Power Drift = -0.022 dB**

**Averaged SAR: SAR(1g) = 0.505 W/kg; SAR(10g) = 0.330 W/kg**  
Maximum value of SAR (interpolated) = 0.769 W/kg



0 dB = 0.551 W/kg = -2.59 dBW/kg



	Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>			Page <b>25(118)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>	FCC ID: <b>L6ARHC160LW</b>

# GSM 850

Date: 2/24/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

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

Communication System: GPRS 850 (3 slots) (0); Communication System Band: GPRS 850 ( 3 slots); Frequency: 824.2 MHz

Medium Parameters used:  $f=825$  MHz;  $\sigma = 0.956$  S/m;  $\epsilon_r = 52.831$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: 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 850/10mm Device Back - GPRS 850\_3-**

**Slot\_chan128\_amb\_temp\_23.8C\_liq\_temp\_20.9C/Area Scan (121x61x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm

Reference Value = 31.472 V/m; **Power Drift = -0.083 dB**

**Fast SAR: SAR(1g) = 0.832 W/kg; SAR(10g) = 0.587 W/kg**

Maximum value of SAR (interpolated) = 0.876 W/kg

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

**Slot\_chan128\_amb\_temp\_23.8C\_liq\_temp\_20.9C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 31.472 V/m; **Power Drift = -0.083 dB**

**Averaged SAR: SAR(1g) = 0.835 W/kg; SAR(10g) = 0.643 W/kg**

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

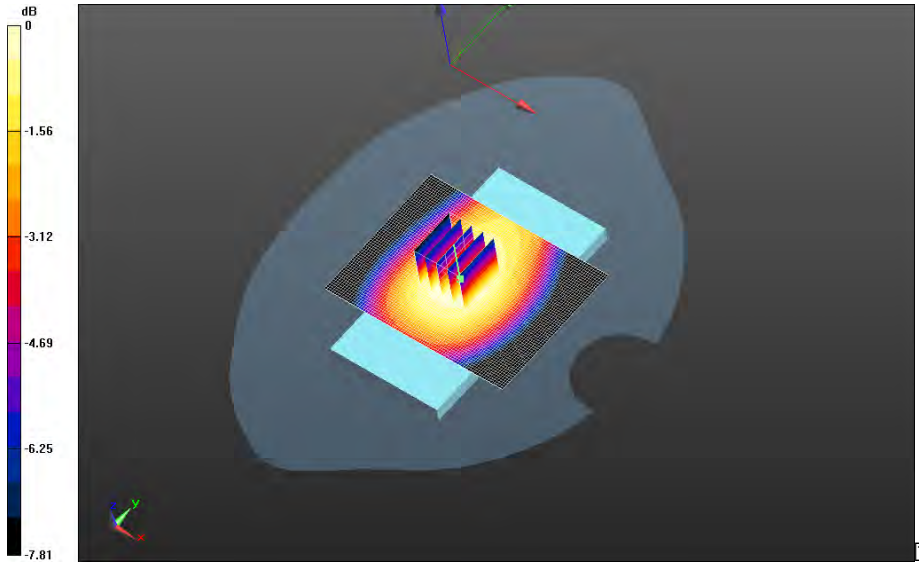
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 29 –Mar 09, 2015**


Test Report No  
**RTS-6063-1503-15**

FCC ID:  
**L6ARHC160LW**

IC  
**2503A-RHC160LW**



0 dB = 0.879 W/kg = -0.56 dBW/kg

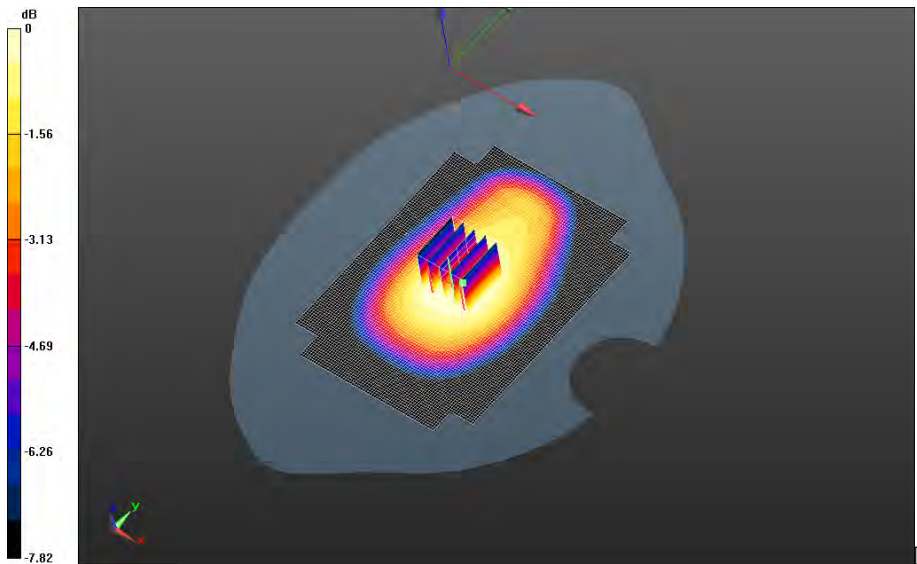
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>27(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-  
Slot\_chan190\_amb\_temp\_23.8C\_liq\_temp\_20.9C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 32.226 V/m; **Power Drift = -0.180 dB**


**Fast SAR: SAR(1g) = 0.859 W/kg; SAR(10g) = 0.604 W/kg**  
Maximum value of SAR (interpolated) = 0.908 W/kg

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-  
Slot\_chan190\_amb\_temp\_23.8C\_liq\_temp\_20.9C/Zoom Scan (21x21x36)/Cube 0:** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 32.226 V/m; **Power Drift = -0.180 dB**

**Averaged SAR: SAR(1g) = 0.835 W/kg; SAR(10g) = 0.642 W/kg**  
Maximum value of SAR (interpolated) = 1.01 W/kg



0 dB = 0.872 W/kg = -0.59 dBW/kg

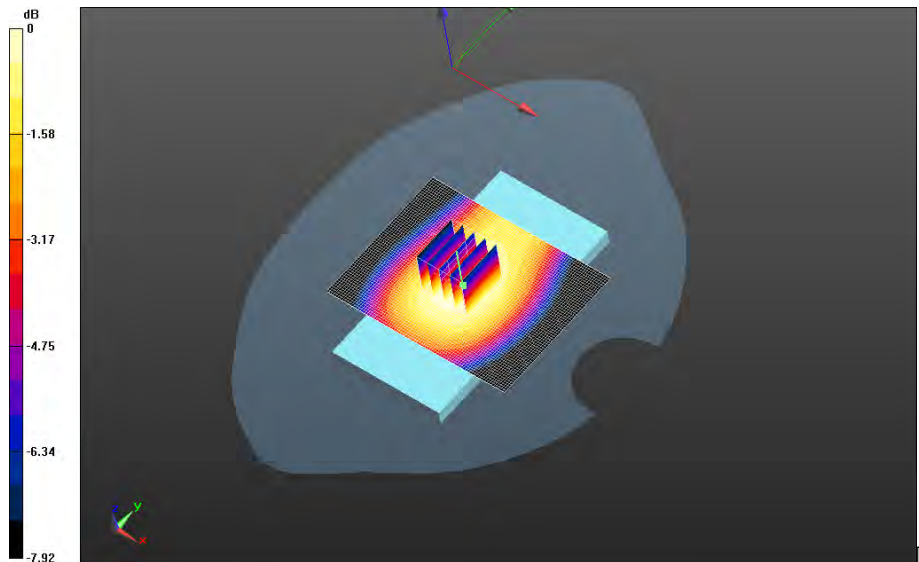
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>28(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-  
Slot\_chan251\_amb\_temp\_23.9C\_liq\_temp\_20.9C/Area Scan (121x61x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 28.494 V/m; **Power Drift = -0.062 dB**


**Fast SAR: SAR(1g) = 0.713 W/kg; SAR(10g) = 0.501 W/kg**  
Maximum value of SAR (interpolated) = 0.753 W/kg

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850\_3-  
Slot\_chan251\_amb\_temp\_23.9C\_liq\_temp\_20.9C/Zoom Scan (21x21x36)/Cube 0:** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 28.494 V/m; **Power Drift = -0.062 dB**

**Averaged SAR: SAR(1g) = 0.718 W/kg; SAR(10g) = 0.550 W/kg**  
Maximum value of SAR (interpolated) = 0.881 W/kg



0 dB = 0.754 W/kg = -1.23 dBW/kg

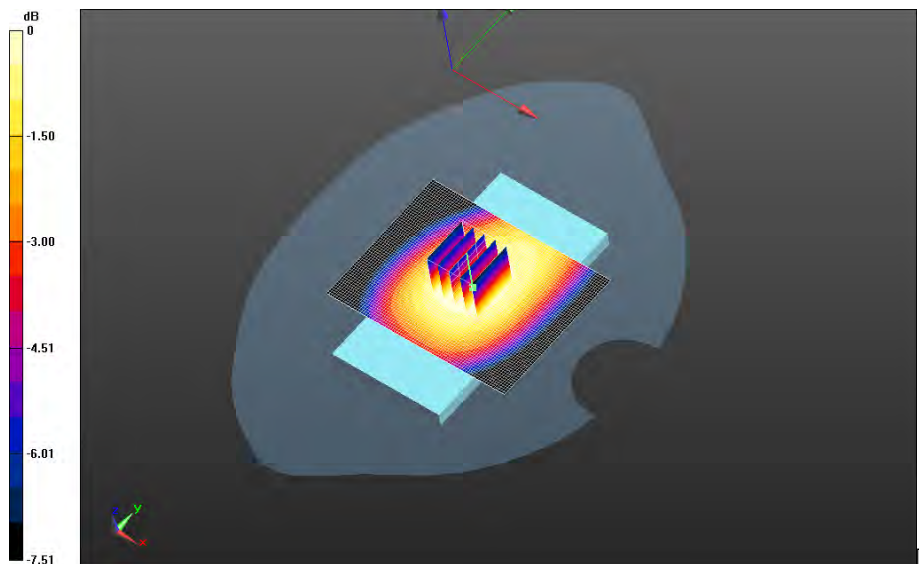
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>29(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - GPRS 850/10mm Device Front - GPRS 850\_3-Slot\_chan128\_amb\_temp\_23.8C\_liq\_temp\_20.9C/Area Scan (121x61x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 28.924 V/m; **Power Drift = -0.011 dB**


**Fast SAR: SAR(1g) = 0.700 W/kg; SAR(10g) = 0.498 W/kg**  
Maximum value of SAR (interpolated) = 0.738 W/kg

**Mobile Hot Spot MSL - GPRS 850/10mm Device Front - GPRS 850\_3-Slot\_chan128\_amb\_temp\_23.8C\_liq\_temp\_20.9C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 28.924 V/m; **Power Drift = -0.011 dB**

**Averaged SAR: SAR(1g) = 0.705 W/kg; SAR(10g) = 0.548 W/kg**  
Maximum value of SAR (interpolated) = 0.864 W/kg



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

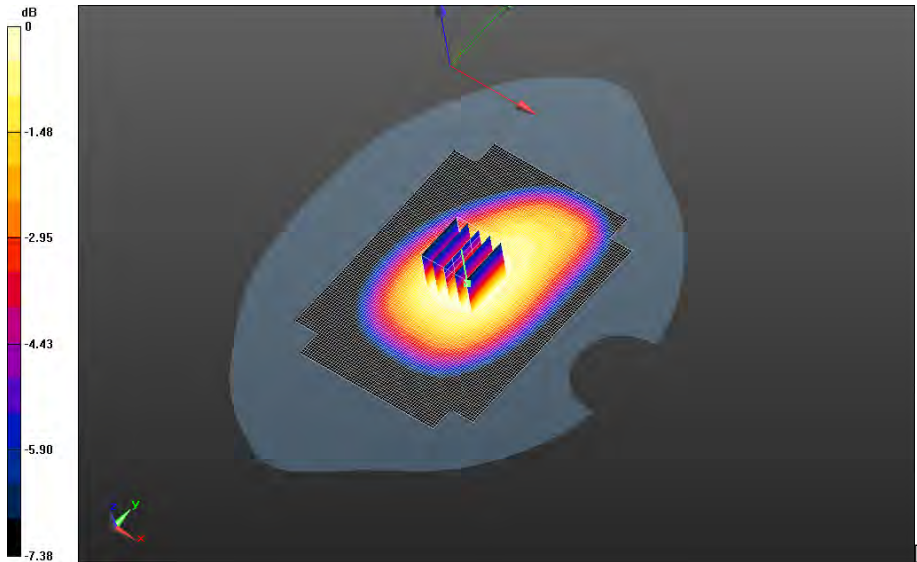
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW  (STR100-2) SAR Report</b>		Page <b>30(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - GPRS 850/10mm Device Front - GPRS 850\_3-Slot\_chan190\_amb\_temp\_23.8C\_liq\_temp\_20.9C/Area Scan (121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 28.072 V/m; **Power Drift = -0.046 dB**


**Fast SAR: SAR(1g) = 0.662 W/kg; SAR(10g) = 0.470 W/kg**  
Maximum value of SAR (interpolated) = 0.697 W/kg

**Mobile Hot Spot MSL - GPRS 850/10mm Device Front - GPRS 850\_3-Slot\_chan190\_amb\_temp\_23.8C\_liq\_temp\_20.9C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 28.072 V/m; **Power Drift = -0.046 dB**

**Averaged SAR: SAR(1g) = 0.667 W/kg; SAR(10g) = 0.518 W/kg**  
Maximum value of SAR (interpolated) = 0.813 W/kg

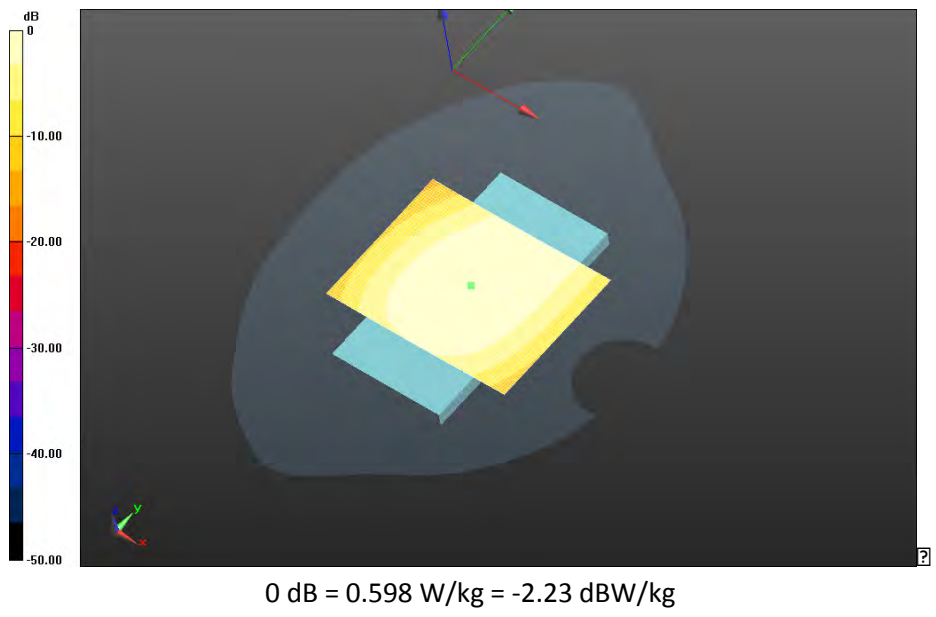



0 dB = 0.696 W/kg = -1.57 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>31(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - GPRS 850/10mm Device Front - GPRS 850\_3-  
 Slot\_chan251\_amb\_temp\_23.9C\_liq\_temp\_20.9C/Area Scan (121x61x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 25.820 V/m; **Power Drift = -0.097 dB**

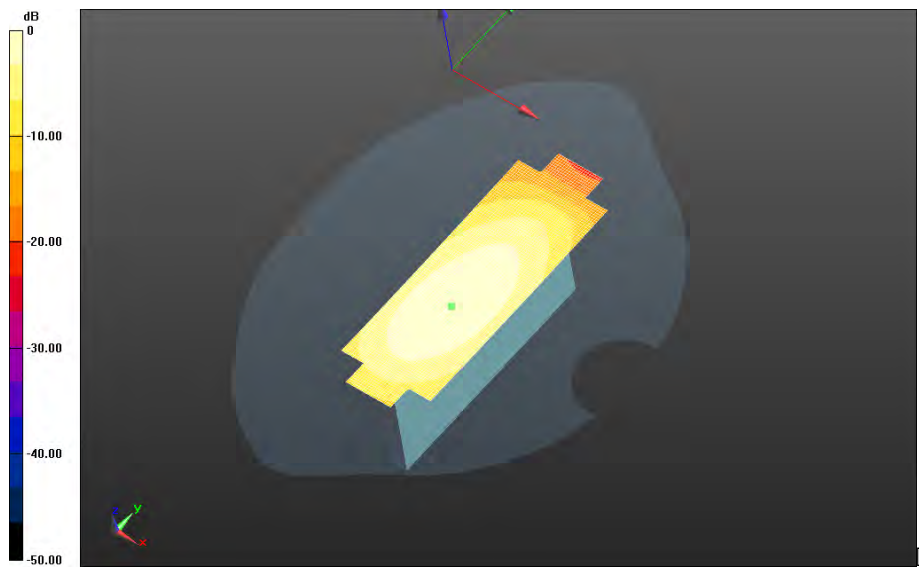
**Fast SAR: SAR(1g) = 0.567 W/kg; SAR(10g) = 0.403 W/kg**  
 Maximum value of SAR (interpolated) = 0.598 W/kg



		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>32(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>


**Mobile Hot Spot MSL - GPRS 850/10mm Device Left - GPRS 850\_3-  
Slot\_chan190\_amb\_temp\_23.8C\_liq\_temp\_20.9C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 25.925 V/m; **Power Drift = -0.135 dB**

**Fast SAR: SAR(1g) = 0.588 W/kg; SAR(10g) = 0.397 W/kg**  
Maximum value of SAR (interpolated) = 0.629 W/kg



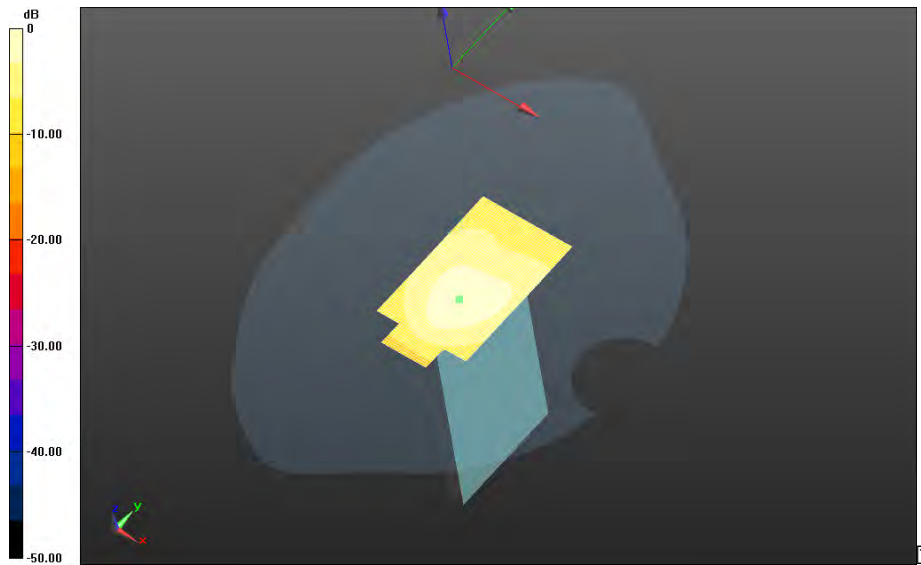
0 dB = 0.629 W/kg = -2.01 dBW/kg




		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>33(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - GPRS 850/10mm Device Bottom - GPRS 850\_3-  
 Slot\_chan190\_amb\_temp\_23.8C\_liq\_temp\_22.1C/Area Scan (121x171x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 13.294 V/m; **Power Drift = -0.063 dB**

**Fast SAR: SAR(1g) = 0.180 W/kg; SAR(10g) = 0.112 W/kg**  
 Maximum value of SAR (interpolated) = 0.203 W/kg



0 dB = 0.203 W/kg = -6.93 dBW/kg

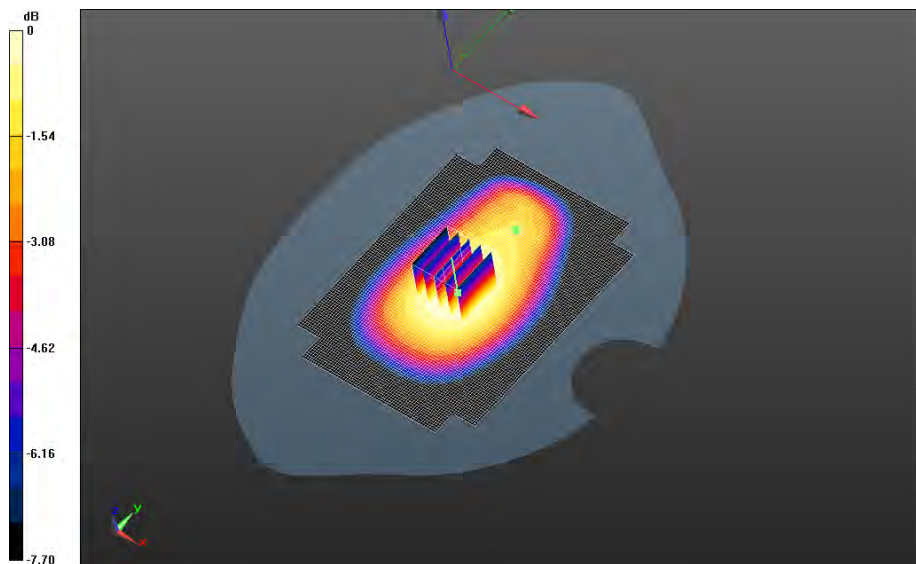
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>34(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - GPRS 850/2nd Scan 10mm Device Back - GPRS 850\_3-  
Slot\_chan190\_amb\_temp\_23.8C\_liq\_temp\_20.9C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 31.498 V/m; **Power Drift = -0.099 dB**


**Fast SAR: SAR(1g) = 0.846 W/kg; SAR(10g) = 0.595 W/kg**  
Maximum value of SAR (interpolated) = 0.895 W/kg

**Mobile Hot Spot MSL - GPRS 850/2nd Scan 10mm Device Back - GPRS 850\_3-  
Slot\_chan190\_amb\_temp\_23.8C\_liq\_temp\_20.9C/Zoom Scan (21x21x36)/Cube 0:** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 31.498 V/m; **Power Drift = -0.099 dB**

**Averaged SAR: SAR(1g) = 0.846 W/kg; SAR(10g) = 0.650 W/kg**  
Maximum value of SAR (interpolated) = 1.02 W/kg



0 dB = 0.891 W/kg = -0.50 dBW/kg

	Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW  (STR100-2) SAR Report</b>			Page <b>35(118)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>	FCC ID: <b>L6ARHC160LW</b>

# UMTS Band V

Date: 2/23/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

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

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

Frequency: 826.4 MHz

Medium Parameters used:  $f=826.4$  MHz;  $\sigma = 0.958$  S/m;  $\epsilon_r = 52.817$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: 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 V/10mm Device Back - UMTS**


**V\_chan4132\_amb\_temp\_23.7C\_liq\_temp\_21.4C/Area Scan (121x171x1):** Interpolated grid:

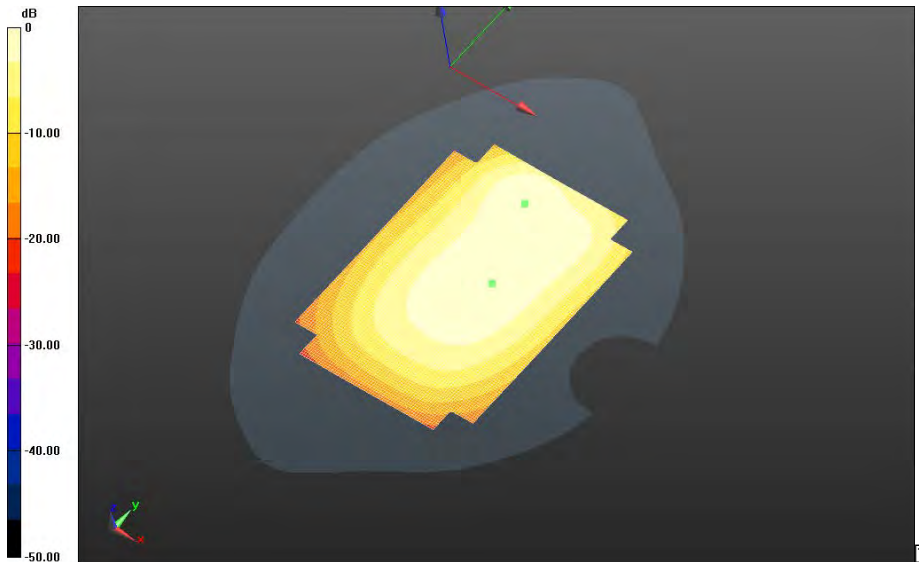
dx=1.500 mm, dy=1.500 mm

Reference Value = 23.902 V/m; **Power Drift = -0.079 dB**

**Fast SAR: SAR(1g) = 0.576 W/kg; SAR(10g) = 0.401 W/kg; Secondary SAR(1g) = 0.573 W/kg**

Maximum value of SAR (interpolated) = 0.619 W/kg

	Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>			Page <b>36(118)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>	FCC ID: <b>L6ARHC160LW</b>



0 dB = 0.619 W/kg = -2.08 dBW/kg

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

**V\_chan4182\_amb\_temp\_23.7C\_liq\_temp\_21.4C/Area Scan (81x81x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 24.883 V/m; **Power Drift = -0.064 dB**

**Fast SAR: SAR(1g) = 0.830 W/kg; SAR(10g) = 0.566 W/kg; Secondary SAR(1g) = 0.573 W/kg**

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

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

**V\_chan4182\_amb\_temp\_23.7C\_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 = 24.883 V/m; **Power Drift = -0.064 dB**

**Averaged SAR: SAR(1g) = 0.803 W/kg; SAR(10g) = 0.545 W/kg**

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

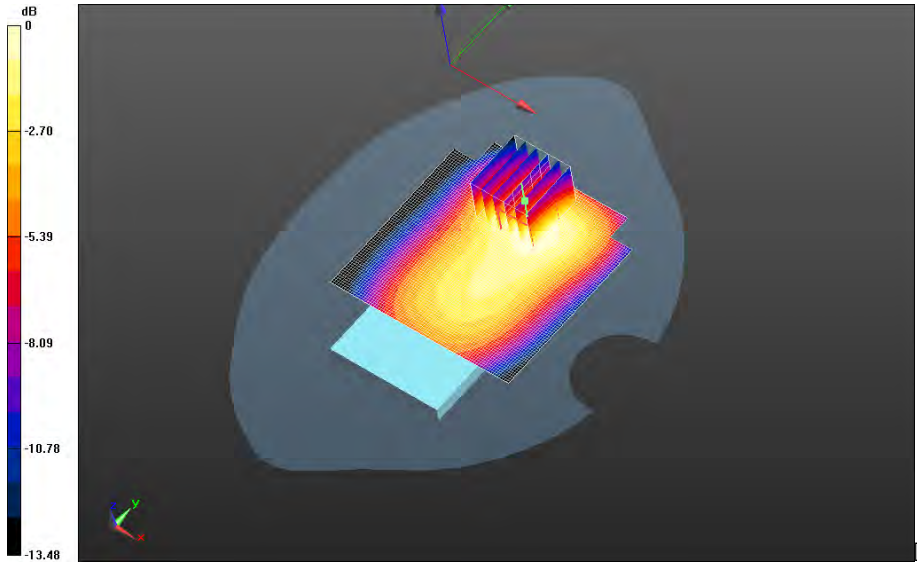
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 29 –Mar 09, 2015**


Test Report No  
**RTS-6063-1503-15**

FCC ID:  
**L6ARHC160LW**

IC  
**2503A-RHC160LW**



0 dB = 0.848 W/kg = -0.72 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>38(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

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

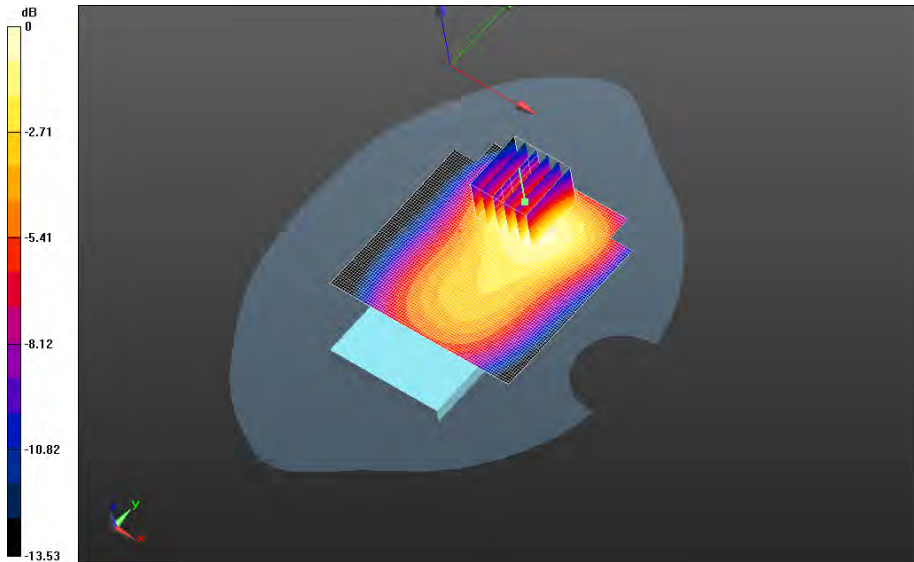
**V\_chan4233\_amb\_temp\_23.7C\_liq\_temp\_21.3C/Area Scan (81x81x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 22.003 V/m; **Power Drift = 0.024 dB**

**Fast SAR: SAR(1g) = 0.827 W/kg; SAR(10g) = 0.559 W/kg; Secondary SAR(1g) = 0.573 W/kg**  
 Maximum value of SAR (interpolated) = 0.898 W/kg


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

**V\_chan4233\_amb\_temp\_23.7C\_liq\_temp\_21.3C/Zoom Scan (26x26x36)/Cube 0:** Interpolated  
 grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 22.003 V/m; **Power Drift = 0.024 dB**

**Averaged SAR: SAR(1g) = 0.813 W/kg; SAR(10g) = 0.538 W/kg**  
 Maximum value of SAR (interpolated) = 1.27 W/kg



0 dB = 0.861 W/kg = -0.65 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>39(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

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

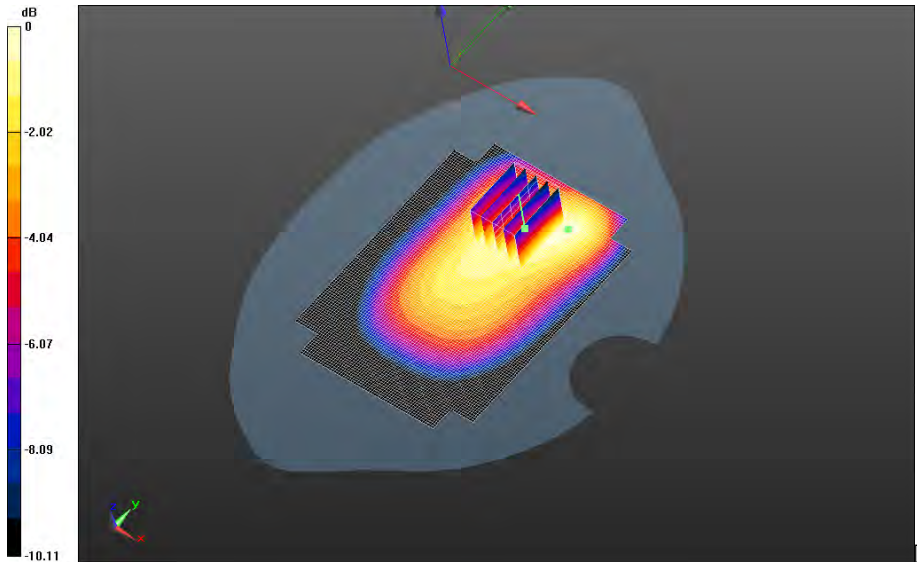
**V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.4C/Area Scan (121x171x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 23.886 V/m; **Power Drift = 0.010 dB**

**Fast SAR: SAR(1g) = 0.673 W/kg; SAR(10g) = 0.466 W/kg; Secondary SAR(1g) = 0.573 W/kg**  
 Maximum value of SAR (interpolated) = 0.720 W/kg


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

**V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.4C/Zoom Scan (21x26x36)/Cube 0:** Interpolated  
 grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 23.886 V/m; **Power Drift = 0.010 dB**

**Averaged SAR: SAR(1g) = 0.677 W/kg; SAR(10g) = 0.489 W/kg**  
 Maximum value of SAR (interpolated) = 0.919 W/kg



0 dB = 0.717 W/kg = -1.44 dBW/kg

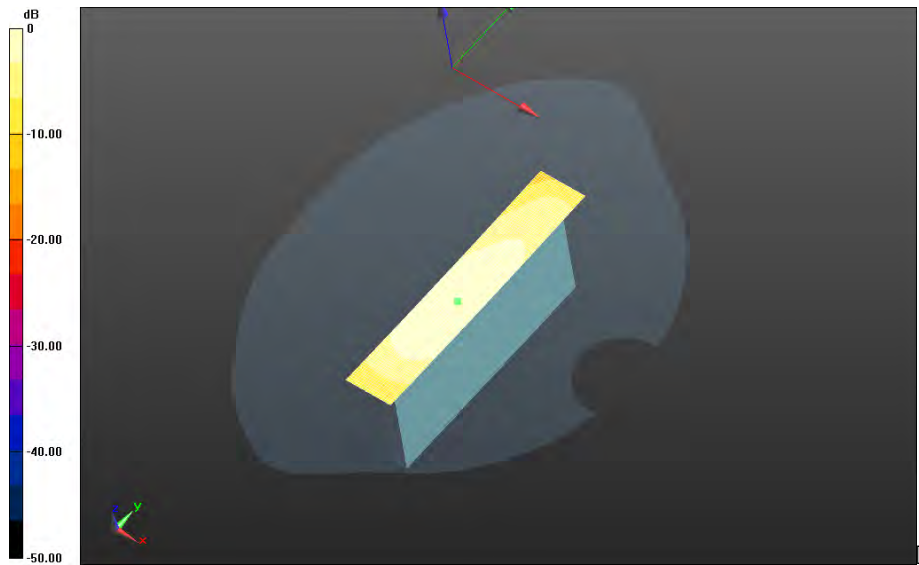
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>40(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

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

**V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.3C/Area Scan (121x171x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm


Reference Value = 17.994 V/m; **Power Drift = -0.059 dB**

**Fast SAR: SAR(1g) = 0.297 W/kg; SAR(10g) = 0.202 W/kg; Secondary SAR(1g) = 0.573 W/kg**  
 Maximum value of SAR (interpolated) = 0.319 W/kg



0 dB = 0.319 W/kg = -4.96 dBW/kg



		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>41(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

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

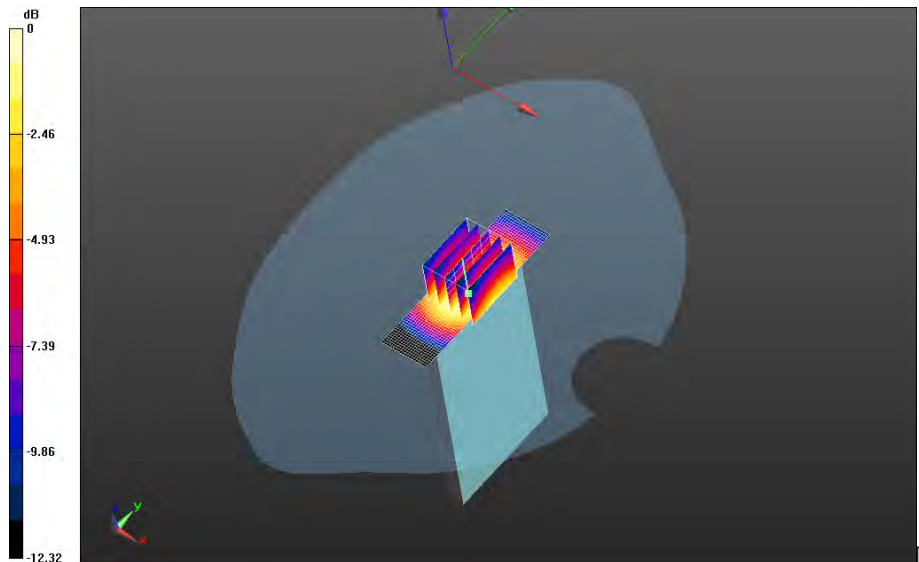
**V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.2C/Area Scan (121x171x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 28.340 V/m; **Power Drift = -0.058 dB**

**Fast SAR: SAR(1g) = 0.707 W/kg; SAR(10g) = 0.465 W/kg; Secondary SAR(1g) = 0.573 W/kg**  
 Maximum value of SAR (interpolated) = 0.763 W/kg


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

**V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.2C/Zoom Scan (21x26x36)/Cube 0:** Interpolated  
 grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
 Reference Value = 28.340 V/m; **Power Drift = -0.058 dB**

**Averaged SAR: SAR(1g) = 0.650 W/kg; SAR(10g) = 0.429 W/kg**  
 Maximum value of SAR (interpolated) = 0.979 W/kg



0 dB = 0.704 W/kg = -1.52 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW</b> <b>(STR100-2) SAR Report</b>		Page <b>42(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - UMTS V/2nd scan\_10mm Device Back - UMTS**

**V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.3C/Area Scan (81x81x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm

Reference Value = 24.708 V/m; **Power Drift = -0.028 dB**

**Fast SAR: SAR(1g) = 0.822 W/kg; SAR(10g) = 0.562 W/kg; Secondary SAR(1g) = 0.573 W/kg**

Maximum value of SAR (interpolated) = 0.889 W/kg

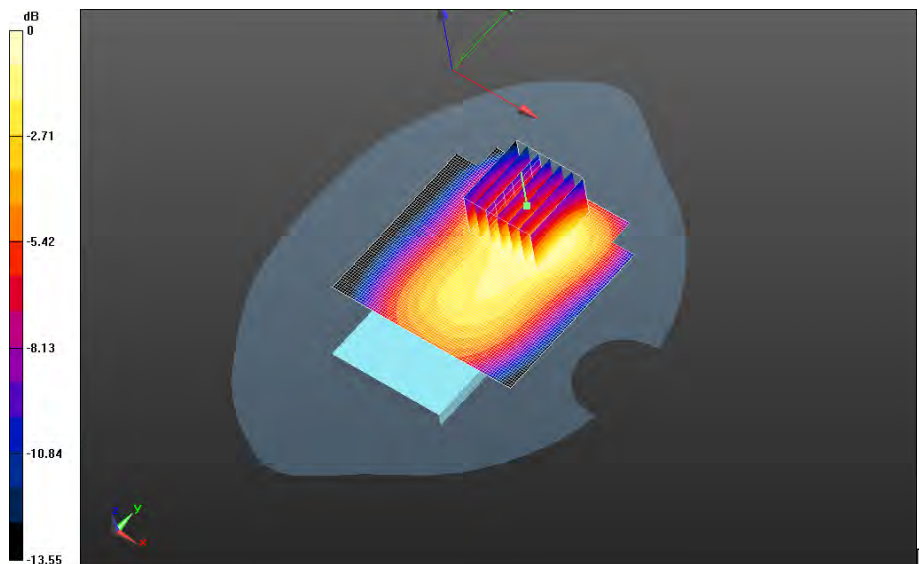
**Mobile Hot Spot MSL - UMTS V/2nd scan\_10mm Device Back - UMTS**

**V\_chan4182\_amb\_temp\_23.6C\_liq\_temp\_21.3C/Zoom Scan (31x31x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 24.708 V/m; **Power Drift = -0.028 dB**

**Averaged SAR: SAR(1g) = 0.809 W/kg; SAR(10g) = 0.545 W/kg**


Maximum value of SAR (interpolated) = 1.27 W/kg



0 dB = 0.855 W/kg = -0.68 dBW/kg

		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>43(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

## LTE Band 4

		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>44(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

Date: 2/18/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

**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;  $\sigma = 1.497$  S/m;  $\epsilon_r = 51.824$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

**DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: 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\_21.3C/Area Scan**

**(121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 14.751 V/m; **Power Drift = -0.049 dB**

**Fast SAR: SAR(1g) = 0.889 W/kg; SAR(10g) = 0.558 W/kg**

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

**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\_21.3C/Zoom Scan**

**(26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 14.751 V/m; **Power Drift = -0.049 dB**

**Averaged SAR: SAR(1g) = 0.899 W/kg; SAR(10g) = 0.593 W/kg**

Maximum value of SAR (interpolated) = 1.22 W/kg

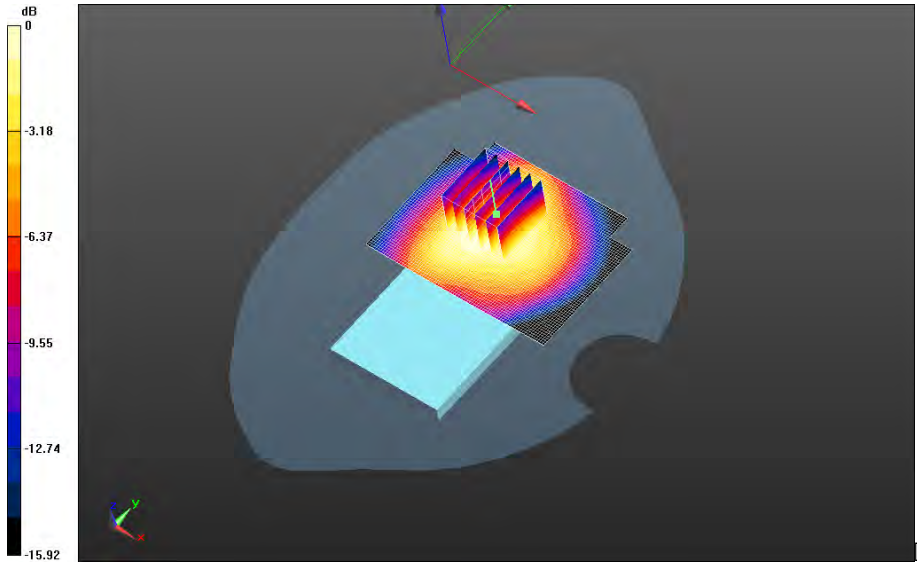
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 29 –Mar 09, 2015**


Test Report No  
**RTS-6063-1503-15**

FCC ID:  
**L6ARHC160LW**

IC  
**2503A-RHC160LW**

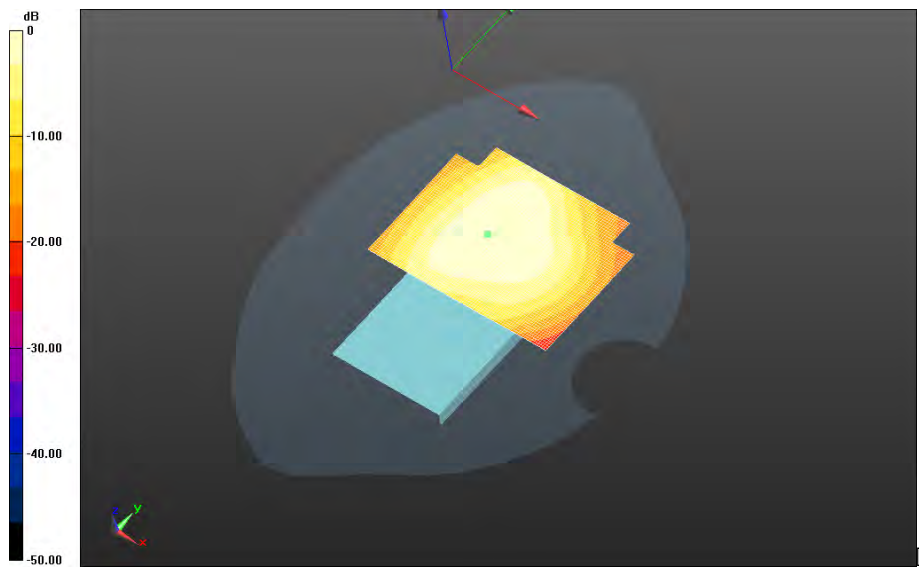


0 dB = 0.965 W/kg = -0.15 dBW/kg


		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>46(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band  
 4\_chan20175\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_21.4C/Area Scan  
 (121x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 12.862 V/m; Power Drift = -0.068 dB**

**Fast SAR: SAR(1g) = 0.606 W/kg; SAR(10g) = 0.380 W/kg  
 Maximum value of SAR (interpolated) = 0.656 W/kg**



0 dB = 0.656 W/kg = -1.83 dBW/kg

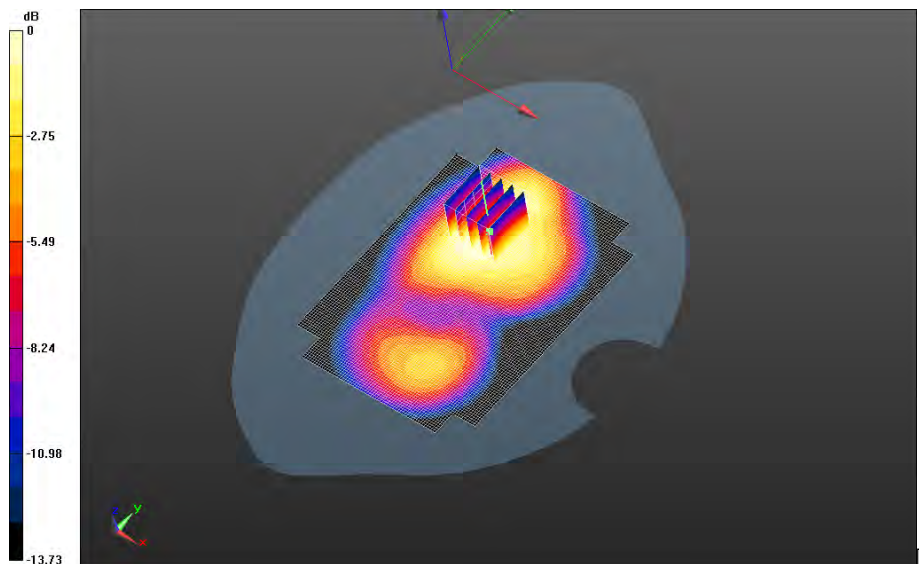
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>47(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**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\_21.4C/Area Scan  
(121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 15.631 V/m; Power Drift = 0.00252 dB**


**Fast SAR: SAR(1g) = 0.867 W/kg; SAR(10g) = 0.543 W/kg  
Maximum value of SAR (interpolated) = 0.936 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\_21.4C/Zoom Scan  
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 15.631 V/m; Power Drift = 0.00252 dB**

**Averaged SAR: SAR(1g) = 0.875 W/kg; SAR(10g) = 0.574 W/kg  
Maximum value of SAR (interpolated) = 1.19 W/kg**

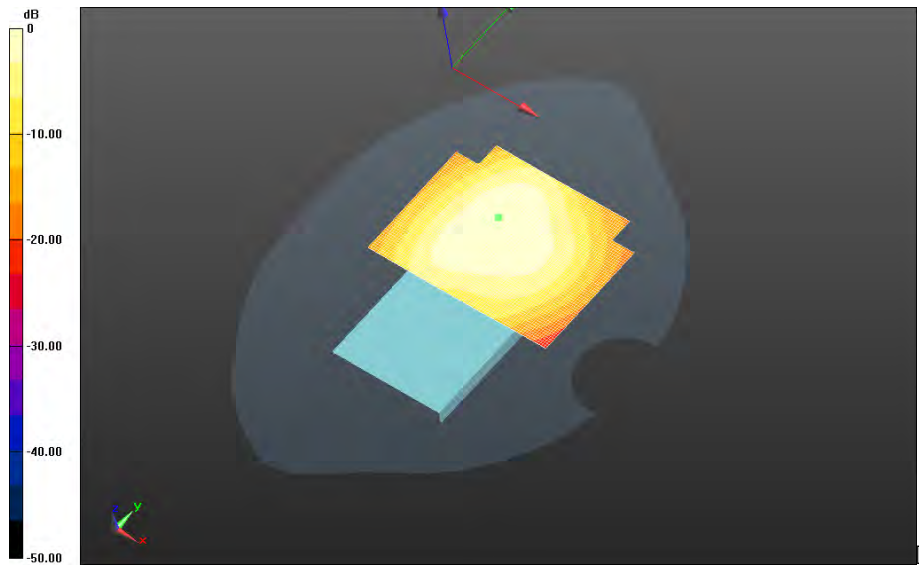


0 dB = 0.932 W/kg = -0.31 dBW/kg


		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>48(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band  
 4\_chan20050\_20MHz\_BW\_RB50\_Offset\_High\_amb\_temp\_24.0C\_liq\_temp\_21.5C/Area Scan  
 (121x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 13.146 V/m; Power Drift = -0.010 dB**

**Fast SAR: SAR(1g) = 0.712 W/kg; SAR(10g) = 0.446 W/kg  
 Maximum value of SAR (interpolated) = 0.774 W/kg**

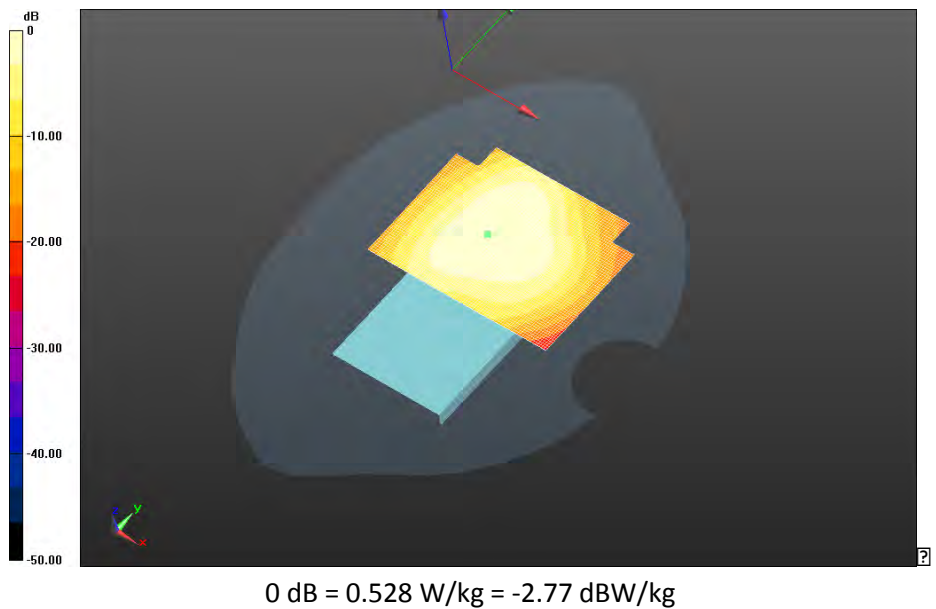





		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>49(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band  
 4\_chan20175\_20MHz\_BW\_RB50\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_21.4C/Area Scan  
 (121x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 11.324 V/m; Power Drift = -0.112 dB**

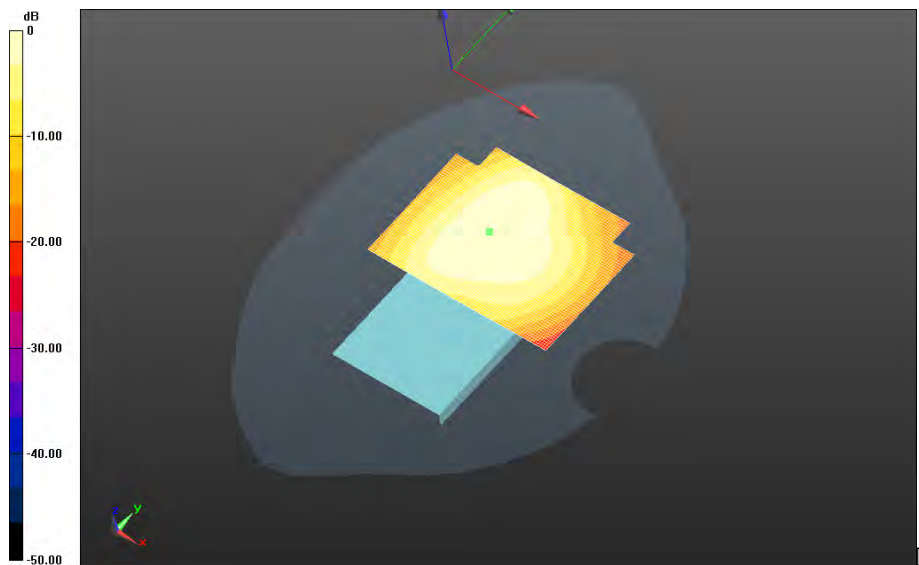
**Fast SAR: SAR(1g) = 0.488 W/kg; SAR(10g) = 0.306 W/kg  
 Maximum value of SAR (interpolated) = 0.528 W/kg**




		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>50(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band  
 4\_chan20300\_20MHz\_BW\_RB50\_Offset\_High\_amb\_temp\_23.8C\_liq\_temp\_21.3C/Area Scan  
 (121x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 12.963 V/m; Power Drift = -0.056 dB**

**Fast SAR: SAR(1g) = 0.616 W/kg; SAR(10g) = 0.387 W/kg  
 Maximum value of SAR (interpolated) = 0.665 W/kg**

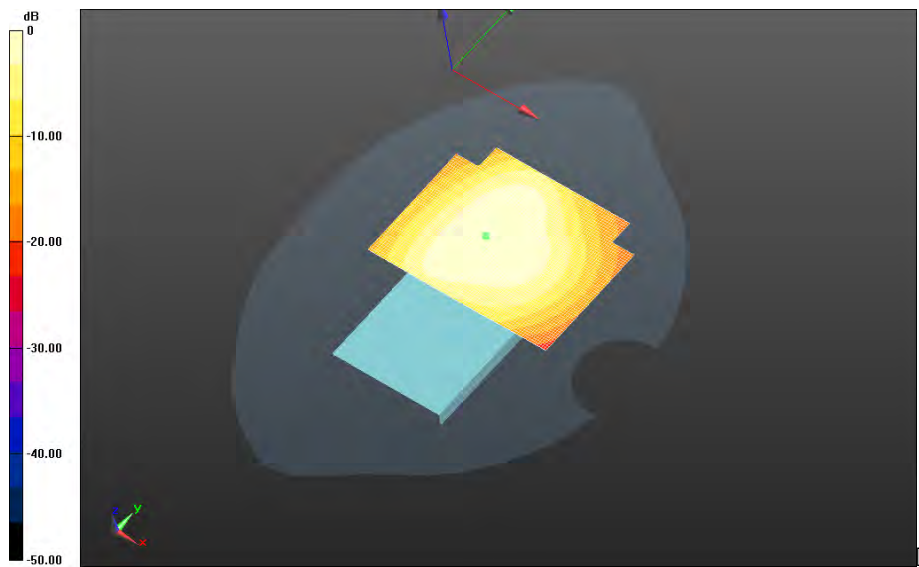


0 dB = 0.665 W/kg = -1.77 dBW/kg


		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>51(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back - LTE band  
 4\_chan20300\_20MHz\_BW\_RB100\_Offset\_Low\_amb\_temp\_23.7C\_liq\_temp\_21.4C/Area Scan  
 (121x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 14.989 V/m; **Power Drift = -0.122 dB****

**Fast SAR: SAR(1g) = 0.676 W/kg; SAR(10g) = 0.424 W/kg**  
 Maximum value of SAR (interpolated) = 0.728 W/kg



0 dB = 0.728 W/kg = -1.38 dBW/kg

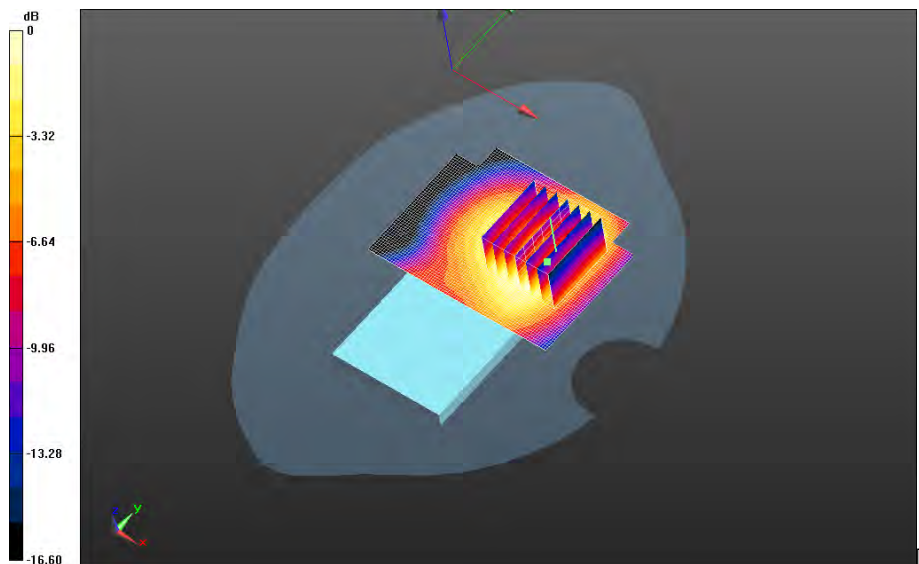
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>52(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Front - LTE band  
4\_chan20050\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.7C\_liq\_temp\_21.3C/Area Scan  
(121x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 14.343 V/m; **Power Drift = -0.011 dB**


**Fast SAR: SAR(1g) = 0.817 W/kg; SAR(10g) = 0.521 W/kg**  
Maximum value of SAR (interpolated) = 0.883 W/kg

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Front - LTE band  
4\_chan20050\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.7C\_liq\_temp\_21.3C/Zoom Scan  
(31x31x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 14.343 V/m; **Power Drift = -0.011 dB**

**Averaged SAR: SAR(1g) = 0.838 W/kg; SAR(10g) = 0.555 W/kg**  
Maximum value of SAR (interpolated) = 1.17 W/kg

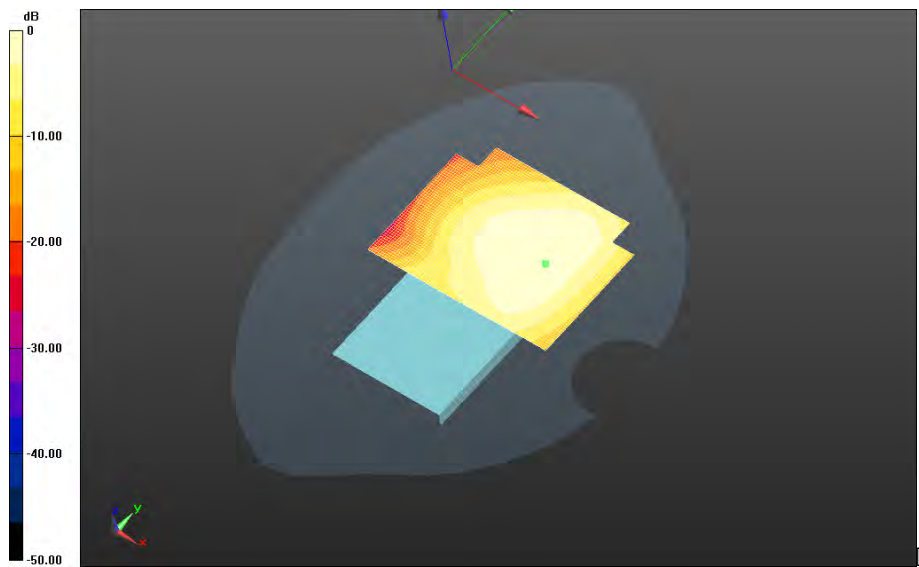


0 dB = 0.895 W/kg = -0.48 dBW/kg


		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>53(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Front - LTE band  
 4\_chan20175\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_24.0C\_liq\_temp\_21.5C/Area Scan  
 (121x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 12.488 V/m; Power Drift = 0.00483 dB**

**Fast SAR: SAR(1g) = 0.609 W/kg; SAR(10g) = 0.387 W/kg  
 Maximum value of SAR (interpolated) = 0.659 W/kg**



0 dB = 0.659 W/kg = -1.81 dBW/kg

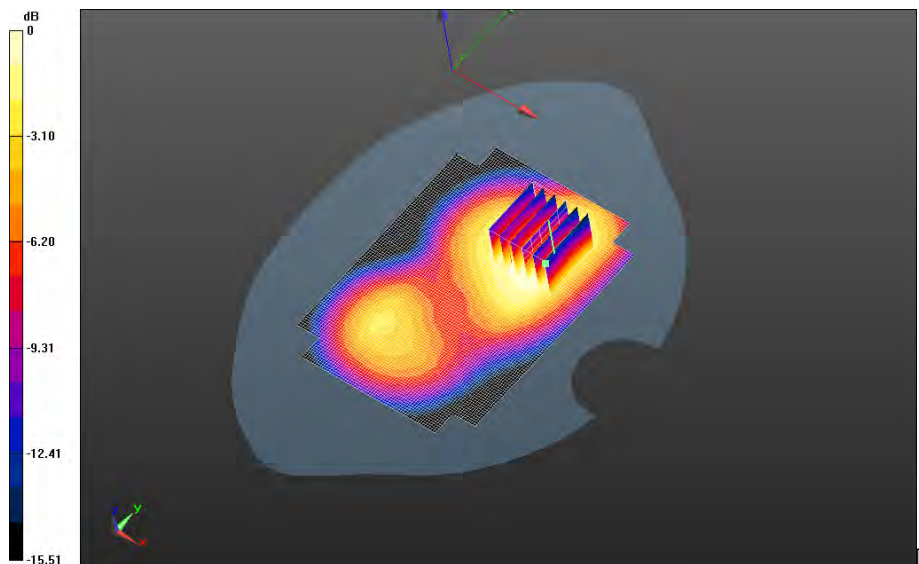
		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>54(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Front - LTE band  
4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.7C\_liq\_temp\_21.5C/Area Scan  
(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 14.746 V/m; **Power Drift = 0.030 dB**


**Fast SAR: SAR(1g) = 0.827 W/kg; SAR(10g) = 0.525 W/kg**  
Maximum value of SAR (interpolated) = 0.894 W/kg

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Front - LTE band  
4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.7C\_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 = 14.746 V/m; **Power Drift = 0.030 dB**

**Averaged SAR: SAR(1g) = 0.846 W/kg; SAR(10g) = 0.558 W/kg**  
Maximum value of SAR (interpolated) = 1.19 W/kg

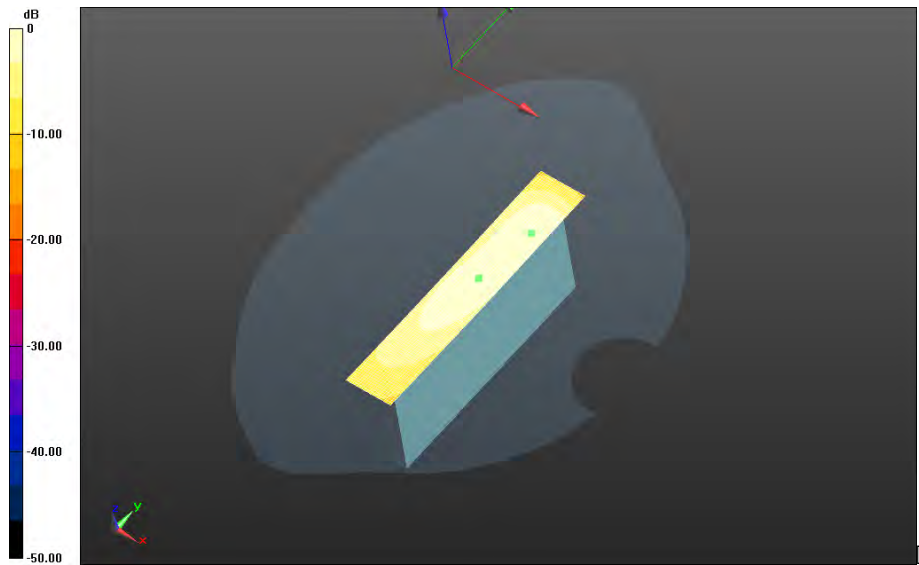



0 dB = 0.915 W/kg = -0.39 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>55(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Left - LTE band  
 4\_chan20300\_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 = 21.713 V/m; Power Drift = -0.011 dB**

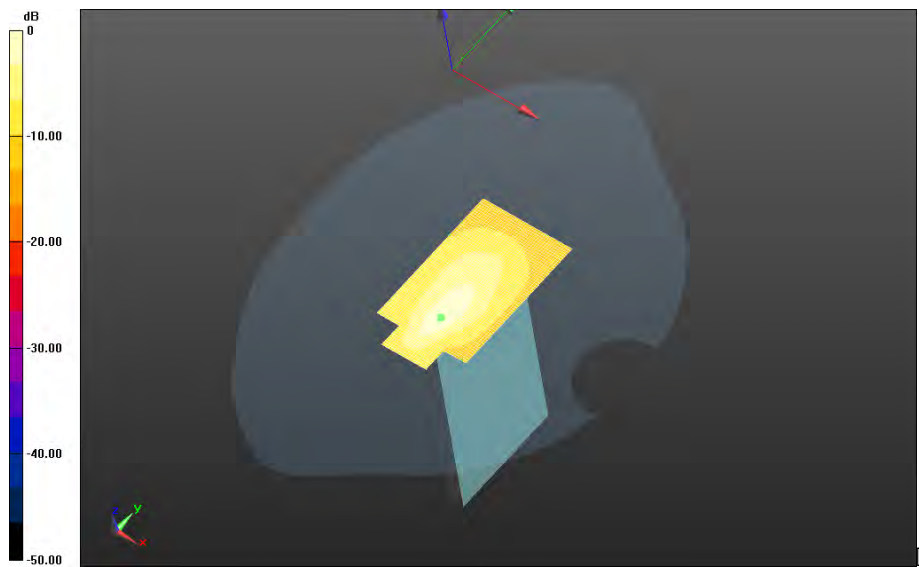
**Fast SAR: SAR(1g) = 0.602 W/kg; SAR(10g) = 0.369 W/kg; Secondary SAR(1g) = 0.574 W/kg  
 Maximum value of SAR (interpolated) = 0.768 W/kg**



		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>56(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>


**Mobile Hot Spot MSL - LTE Band 4/10mm Device Bottom - LTE band  
 4\_chan20300\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.9C\_liq\_temp\_21.5C/Area Scan  
 (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 13.939 V/m; Power Drift = 0.059 dB**

**Fast SAR: SAR(1g) = 0.453 W/kg; SAR(10g) = 0.221 W/kg  
 Maximum value of SAR (interpolated) = 0.563 W/kg**



0 dB = 0.563 W/kg = -2.49 dBW/kg



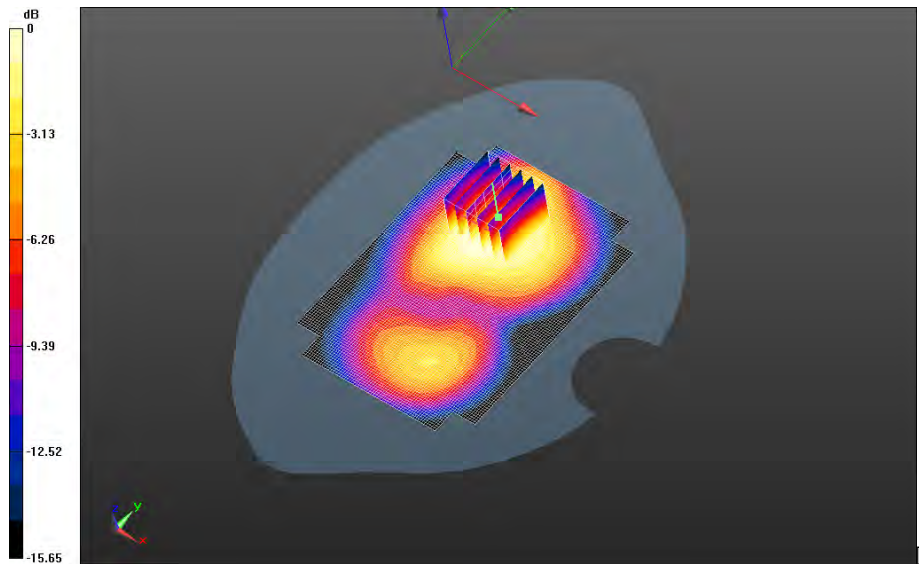
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>57(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 4/2nd Scan 10mm Device Back - LTE band  
4\_chan20050\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.7C\_liq\_temp\_21.4C/Area Scan  
(121x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 15.529 V/m; **Power Drift = -0.051 dB**


**Fast SAR: SAR(1g) = 0.955 W/kg; SAR(10g) = 0.600 W/kg; Secondary SAR(1g) = 0.574 W/kg**  
Maximum value of SAR (interpolated) = 1.03 W/kg

**Mobile Hot Spot MSL - LTE Band 4/2nd Scan 10mm Device Back - LTE band  
4\_chan20050\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.7C\_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 = 15.529 V/m; **Power Drift = -0.051 dB**

**Averaged SAR: SAR(1g) = 0.955 W/kg; SAR(10g) = 0.638 W/kg**  
Maximum value of SAR (interpolated) = 1.27 W/kg



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

		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>58(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

## UMTS Band IV

Date: 2/12/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7A1D**

### 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;  $\sigma = 1.484$  S/m;  $\epsilon_r = 51.553$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: 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\_23.7C\_liq\_temp\_21.5C/Area Scan (121x171x1):** Interpolated grid:

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

Reference Value = 17.965 V/m; **Power Drift = -0.095 dB**

**Fast SAR: SAR(1g) = 1.22 W/kg; SAR(10g) = 0.740 W/kg**

Maximum value of SAR (interpolated) = 1.37 W/kg

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

**IV\_chan1312\_amb\_temp\_23.7C\_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 = 17.965 V/m; **Power Drift = -0.095 dB**

**Averaged SAR: SAR(1g) = 1.21 W/kg; SAR(10g) = 0.791 W/kg**

Maximum value of SAR (interpolated) = 1.64 W/kg

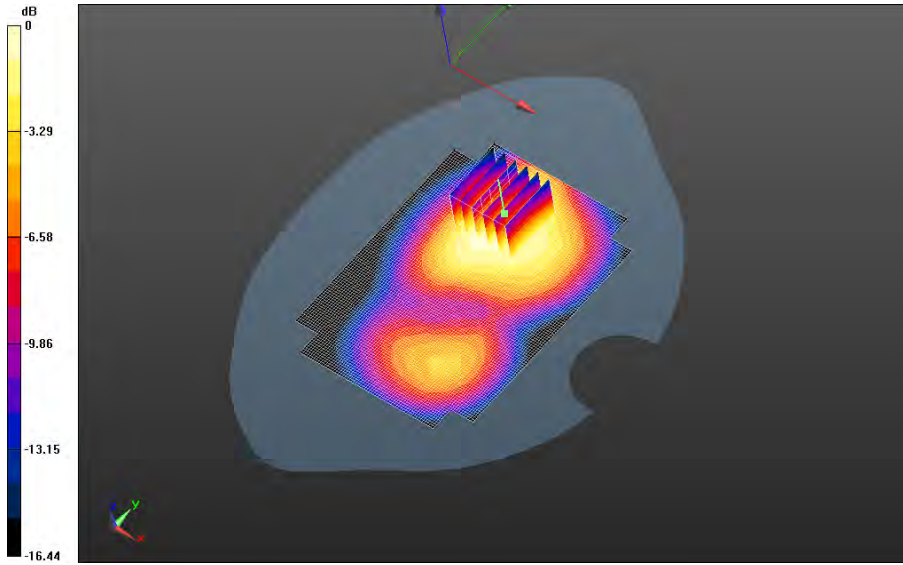
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 29 –Mar 09, 2015**


Test Report No  
**RTS-6063-1503-15**

FCC ID:  
**L6ARHC160LW**

IC  
**2503A-RHC160LW**



0 dB = 1.32 W/kg = 1.21 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>60(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

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

**IV\_chan1413\_amb\_temp\_23.6C\_liq\_temp\_21.4C/Area Scan (121x171x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm

Reference Value = 16.227 V/m; **Power Drift = -0.319 dB**

**Fast SAR: SAR(1g) = 0.863 W/kg; SAR(10g) = 0.532 W/kg**

Maximum value of SAR (interpolated) = 0.957 W/kg

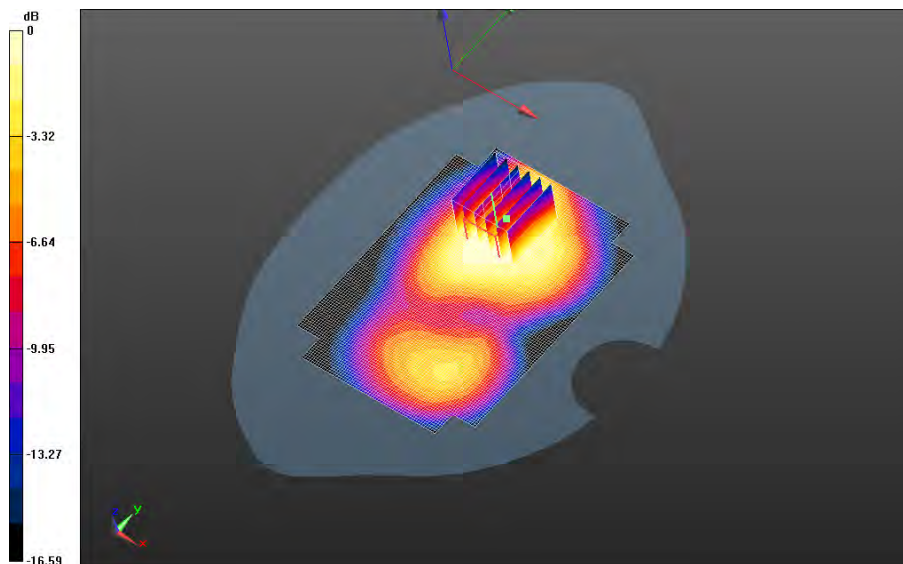
**Mobile Hot Spot MSL - UMTS IV/10mm Device Back - UMTS**

**IV\_chan1413\_amb\_temp\_23.6C\_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 = 16.227 V/m; **Power Drift = -0.319 dB**

**Averaged SAR: SAR(1g) = 0.848 W/kg; SAR(10g) = 0.560 W/kg**

Maximum value of SAR (interpolated) = 1.16 W/kg



0 dB = 0.907 W/kg = -0.42 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>61(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

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

**IV\_chan1513\_amb\_temp\_23.5C\_liq\_temp\_21.3C/Area Scan (71x81x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm

Reference Value = 18.543 V/m; **Power Drift = -0.00519 dB**

**Fast SAR: SAR(1g) = 1.11 W/kg; SAR(10g) = 0.695 W/kg**

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

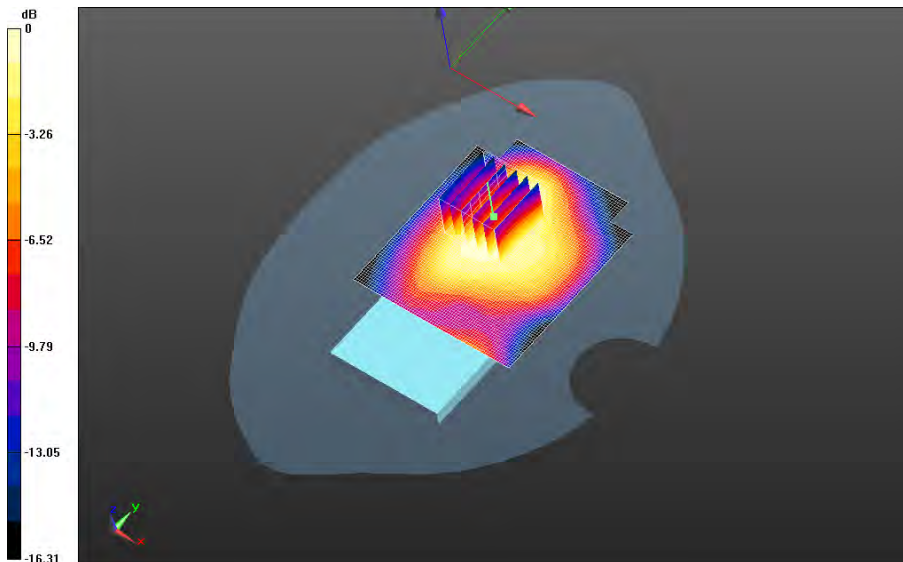
**Mobile Hot Spot MSL - UMTS IV/10mm Device Back - UMTS**

**IV\_chan1513\_amb\_temp\_23.5C\_liq\_temp\_21.3C/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm


Reference Value = 18.543 V/m; **Power Drift = -0.00519 dB**

**Averaged SAR: SAR(1g) = 1.12 W/kg; SAR(10g) = 0.721 W/kg**

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



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

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>62(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

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

**IV\_chan1312\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Area Scan (71x81x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 14.628 V/m; **Power Drift = -0.041 dB**

**Fast SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.643 W/kg**

Maximum value of SAR (interpolated) = 1.10 W/kg

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

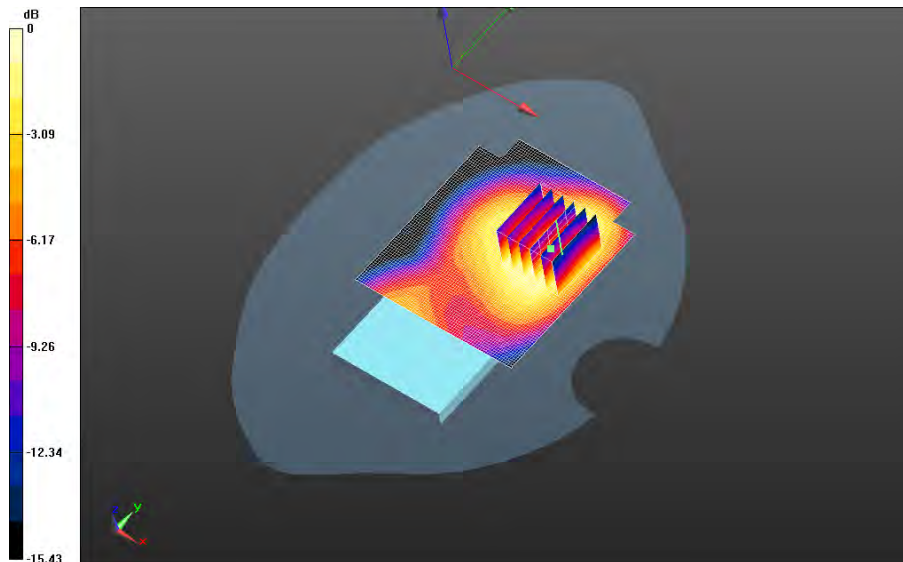
**IV\_chan1312\_amb\_temp\_23.3C\_liq\_temp\_21.2C/Zoom Scan (26x26x36)/Cube 0:** Interpolated

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


Reference Value = 14.628 V/m; **Power Drift = -0.041 dB**

**Averaged SAR: SAR(1g) = 1.05 W/kg; SAR(10g) = 0.684 W/kg**

Maximum value of SAR (interpolated) = 1.46 W/kg



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

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>63(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

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

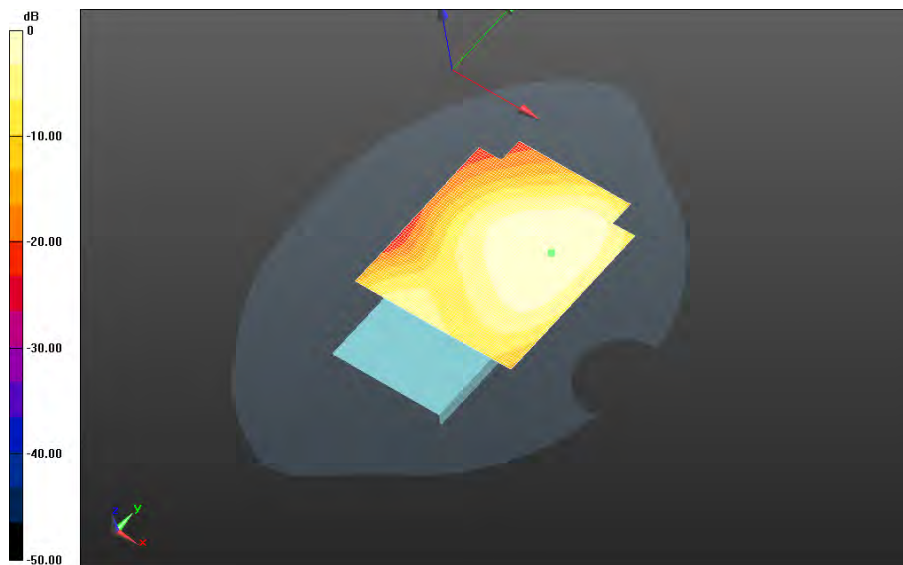
**IV\_chan1413\_amb\_temp\_23.0C\_liq\_temp\_22.3C/Area Scan (71x81x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 12.738 V/m; **Power Drift = -0.032 dB**


**Fast SAR: SAR(1g) = 0.799 W/kg; SAR(10g) = 0.503 W/kg**

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



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



		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>64(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

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

**IV\_chan1513\_amb\_temp\_23.4C\_liq\_temp\_21.1C/Area Scan (71x81x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 14.959 V/m; **Power Drift = 0.00929 dB**

**Fast SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.637 W/kg**

Maximum value of SAR (interpolated) = 1.10 W/kg

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

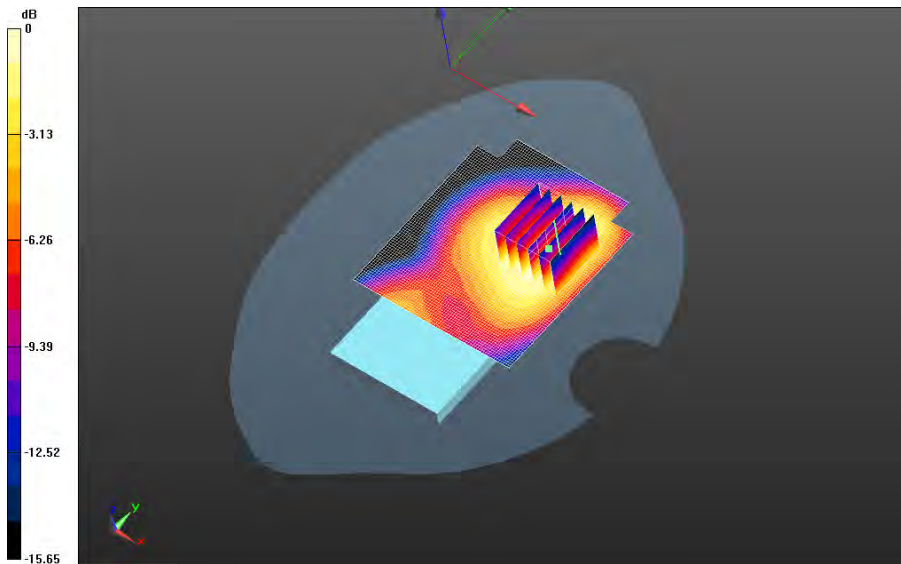
**IV\_chan1513\_amb\_temp\_23.4C\_liq\_temp\_21.1C/Zoom Scan (26x26x36)/Cube 0:** Interpolated

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

Reference Value = 14.959 V/m; **Power Drift = 0.00929 dB**


**Averaged SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.669 W/kg**

Maximum value of SAR (interpolated) = 1.50 W/kg



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



		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>65(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

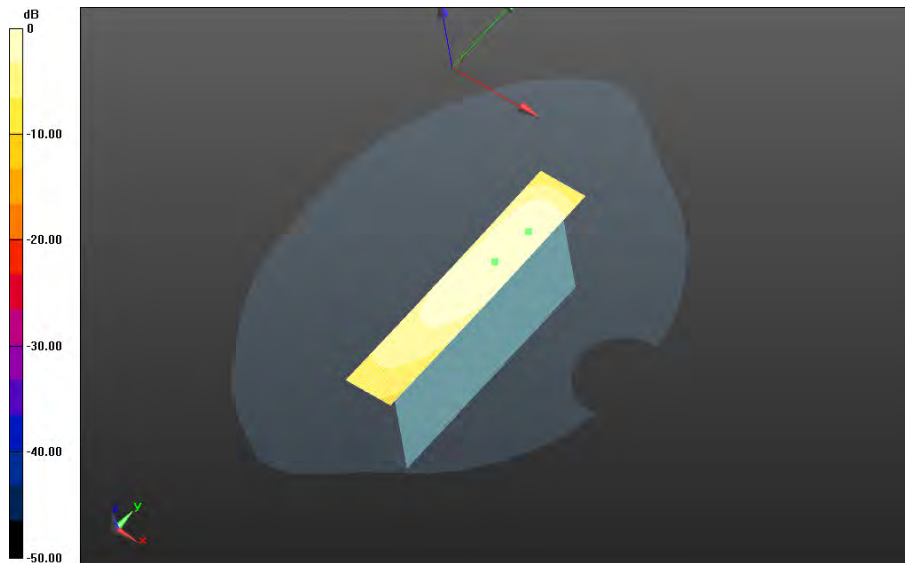
**Mobile Hot Spot MSL - UMTS IV/10mm Device Left - UMTS**

**IV\_chan1413\_amb\_temp\_23.2C\_liq\_temp\_22.3C/Area Scan (121x171x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm


Reference Value = 19.948 V/m; **Power Drift = -0.025 dB**

**Fast SAR: SAR(1g) = 0.498 W/kg; SAR(10g) = 0.304 W/kg**

Maximum value of SAR (interpolated) = 0.594 W/kg



0 dB = 0.594 W/kg = -2.26 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>66(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

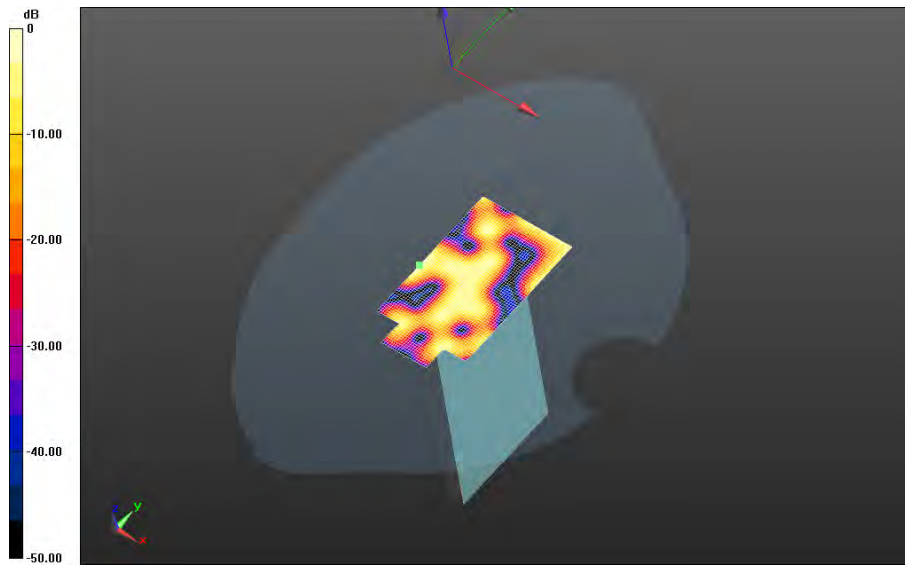
**Mobile Hot Spot MSL - UMTS IV/10mm Device Bottom - UMTS**

**IV\_chan1413\_amb\_temp\_23.1C\_liq\_temp\_22.3C/Area Scan (121x171x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm


Reference Value = 0.981 V/m; **Power Drift = 0.150 dB**

**Fast SAR: SAR(1g) = 0.000223 W/kg; SAR(10g) = 0.000113 W/kg**

Maximum value of SAR (interpolated) = 0.000682 W/kg



0 dB = 0.000682 W/kg = -31.66 dBW/kg

		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>67(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

**Mobile Hot Spot MSL - UMTS IV/Headset\_10mm Device Back - UMTS**

**IV\_chan1312\_amb\_temp\_23.5C\_liq\_temp\_21.2C/Area Scan (71x81x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 18.051 V/m; **Power Drift = -0.070 dB**

**Fast SAR: SAR(1g) = 1.27 W/kg; SAR(10g) = 0.806 W/kg**

Maximum value of SAR (interpolated) = 1.40 W/kg

**Mobile Hot Spot MSL - UMTS IV/Headset\_10mm Device Back - UMTS**

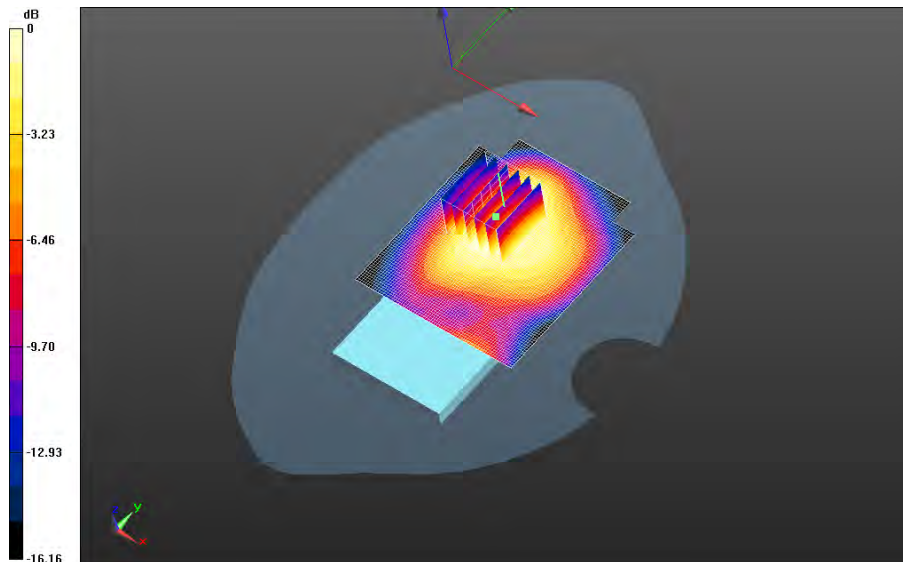
**IV\_chan1312\_amb\_temp\_23.5C\_liq\_temp\_21.2C/Zoom Scan (26x26x36)/Cube 0:** Interpolated

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


Reference Value = 18.051 V/m; **Power Drift = -0.070 dB**

**Averaged SAR: SAR(1g) = 1.28 W/kg; SAR(10g) = 0.826 W/kg**

Maximum value of SAR (interpolated) = 1.78 W/kg



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

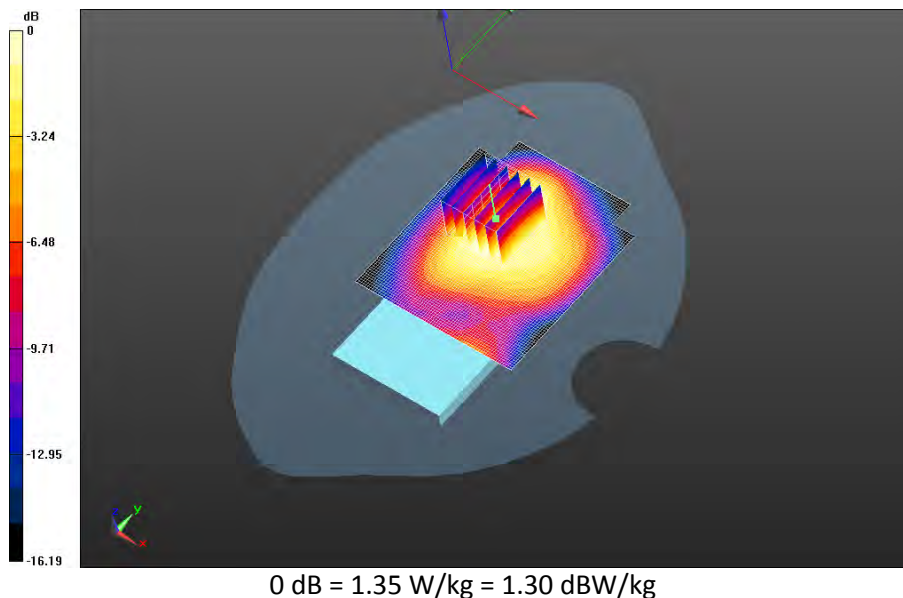
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW</b> <b>(STR100-2) SAR Report</b>		Page <b>68(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>


**Mobile Hot Spot MSL - UMTS IV/2nd Scan\_Headset\_10mm Device Back - UMTS**  
**IV\_chan1312\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Area Scan (71x81x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 17.909 V/m; **Power Drift = -0.015 dB**

**Fast SAR: SAR(1g) = 1.24 W/kg; SAR(10g) = 0.789 W/kg**  
Maximum value of SAR (interpolated) = 1.37 W/kg

**Mobile Hot Spot MSL - UMTS IV/2nd Scan\_Headset\_10mm Device Back - UMTS**  
**IV\_chan1312\_amb\_temp\_23.4C\_liq\_temp\_21.3C/Zoom Scan (26x26x36)/Cube 0:** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 17.909 V/m; **Power Drift = -0.015 dB**

**Averaged SAR: SAR(1g) = 1.28 W/kg; SAR(10g) = 0.829 W/kg**  
Maximum value of SAR (interpolated) = 1.77 W/kg



		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>69(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

## LTE Band 2

Date: 2/10/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

### 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;  $\sigma = 1.513$  S/m;  $\epsilon_r = 52.200$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: 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\_Mid\_amb\_temp\_23.9C\_liq\_temp\_21.5C/Area Scan**

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

Reference Value = 14.546 V/m; **Power Drift = 0.020 dB**

**Fast SAR: SAR(1g) = 0.699 W/kg; SAR(10g) = 0.400 W/kg; Secondary SAR(1g) = 0.546 W/kg**

Maximum value of SAR (interpolated) = 0.779 W/kg

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

**2\_chan18700\_20MHz\_BW\_RB1\_Offset\_Mid\_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 = 14.546 V/m; **Power Drift = 0.020 dB**

**Averaged SAR: SAR(1g) = 0.710 W/kg; SAR(10g) = 0.393 W/kg**

Maximum value of SAR (interpolated) = 1.26 W/kg

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

**2\_chan18700\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.9C\_liq\_temp\_21.5C/Zoom Scan 2**

**(31x46x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 14.546 V/m; **Power Drift = 0.020 dB**

**Averaged SAR: SAR(1g) = 0.703 W/kg; SAR(10g) = 0.388 W/kg**

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

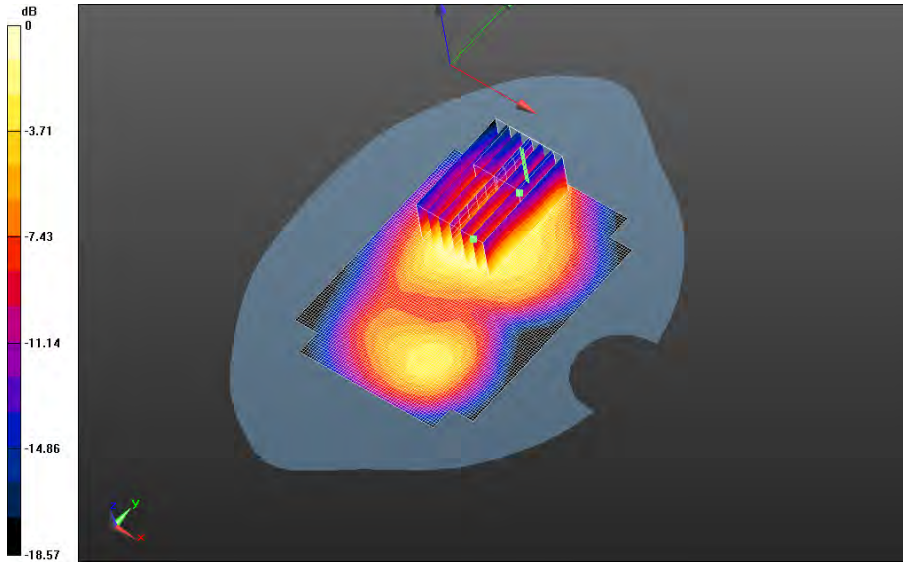
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 29 –Mar 09, 2015**


Test Report No  
**RTS-6063-1503-15**

FCC ID:  
**L6ARHC160LW**

IC  
**2503A-RHC160LW**



0 dB = 0.749 W/kg = -1.26 dBW/kg

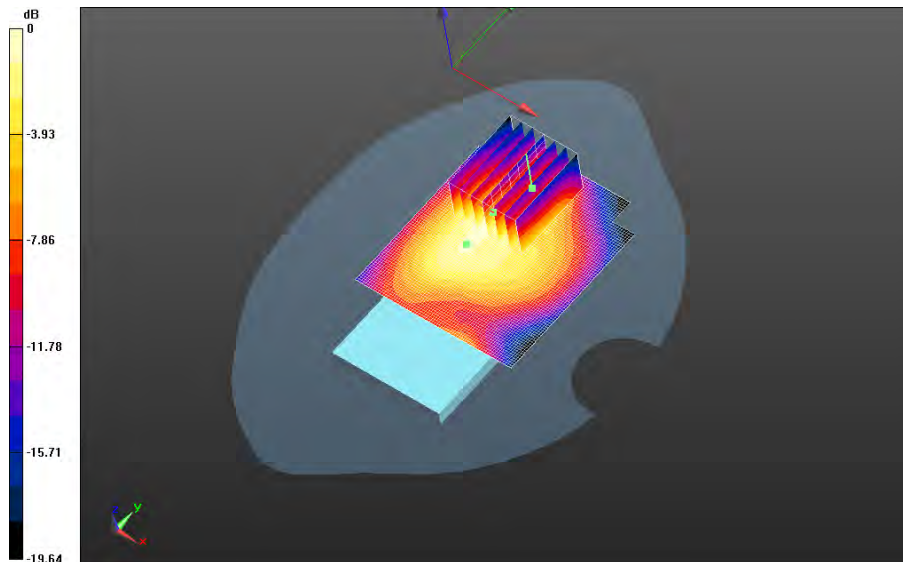
		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>71(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band  
2\_chan18900\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.7C\_liq\_temp\_21.4C/Area Scan  
(71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 15.317 V/m; **Power Drift = -0.027 dB**

**Fast SAR: SAR(1g) = 0.763 W/kg; SAR(10g) = 0.445 W/kg; Secondary SAR(1g) = 0.705 W/kg**  
Maximum value of SAR (interpolated) = 0.879 W/kg


**Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band  
2\_chan18900\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.7C\_liq\_temp\_21.4C/Zoom Scan  
(31x36x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 15.317 V/m; **Power Drift = -0.027 dB**

**Averaged SAR: SAR(1g) = 0.765 W/kg; SAR(10g) = 0.454 W/kg**  
Maximum value of SAR (interpolated) = 1.35 W/kg



0 dB = 0.856 W/kg = -0.68 dBW/kg



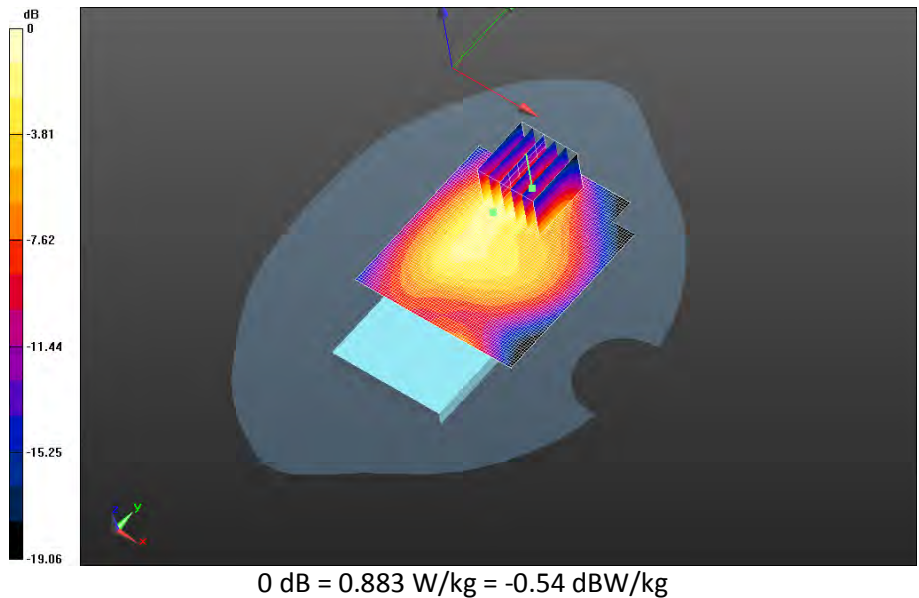
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>72(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band  
2\_chan19100\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.9C\_liq\_temp\_21.5C/Area Scan  
(71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 14.841 V/m; **Power Drift = 0.016 dB**


**Fast SAR: SAR(1g) = 0.764 W/kg; SAR(10g) = 0.427 W/kg; Secondary SAR(1g) = 0.514 W/kg**  
Maximum value of SAR (interpolated) = 0.902 W/kg

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band  
2\_chan19100\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.9C\_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 = 14.841 V/m; **Power Drift = 0.016 dB**

**Averaged SAR: SAR(1g) = 0.779 W/kg; SAR(10g) = 0.418 W/kg**  
Maximum value of SAR (interpolated) = 1.41 W/kg

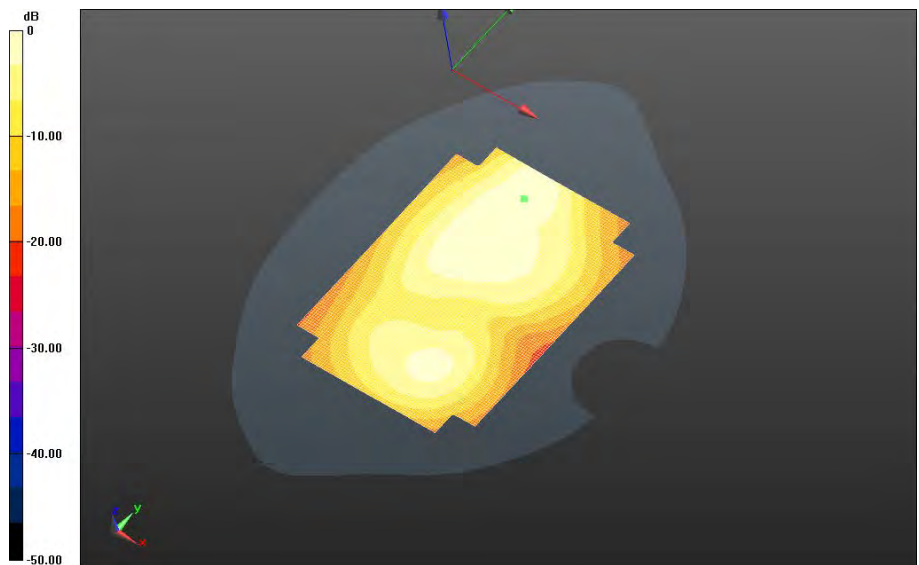





	Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>			Page <b>73(118)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>	FCC ID: <b>L6ARHC160LW</b>

**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  
 (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 13.018 V/m; Power Drift = -0.133 dB**

**Fast SAR: SAR(1g) = 0.518 W/kg; SAR(10g) = 0.300 W/kg; Secondary SAR(1g) = 0.514 W/kg  
 Maximum value of SAR (interpolated) = 0.574 W/kg**

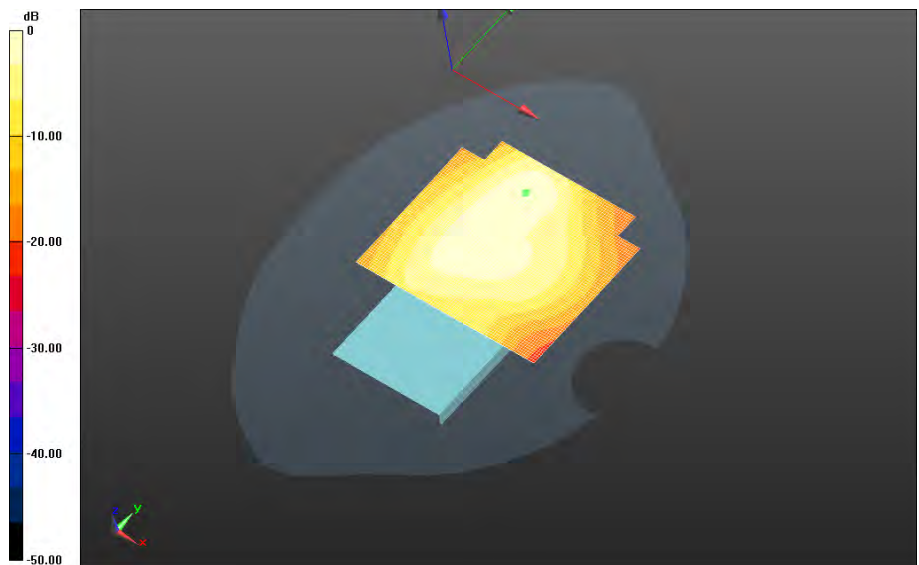


0 dB = 0.574 W/kg = -2.41 dBW/kg


		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>74(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Back - LTE band  
 2\_chan18700\_20MHz\_BW100\_RB1\_Offset\_Low\_amb\_temp\_24.0C\_liq\_temp\_21.5C/Area Scan  
 (121x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 12.672 V/m; **Power Drift = -0.080 dB****

**Fast SAR: SAR(1g) = 0.518 W/kg; SAR(10g) = 0.291 W/kg; Secondary SAR(1g) = 0.514 W/kg  
 Maximum value of SAR (interpolated) = 0.599 W/kg**

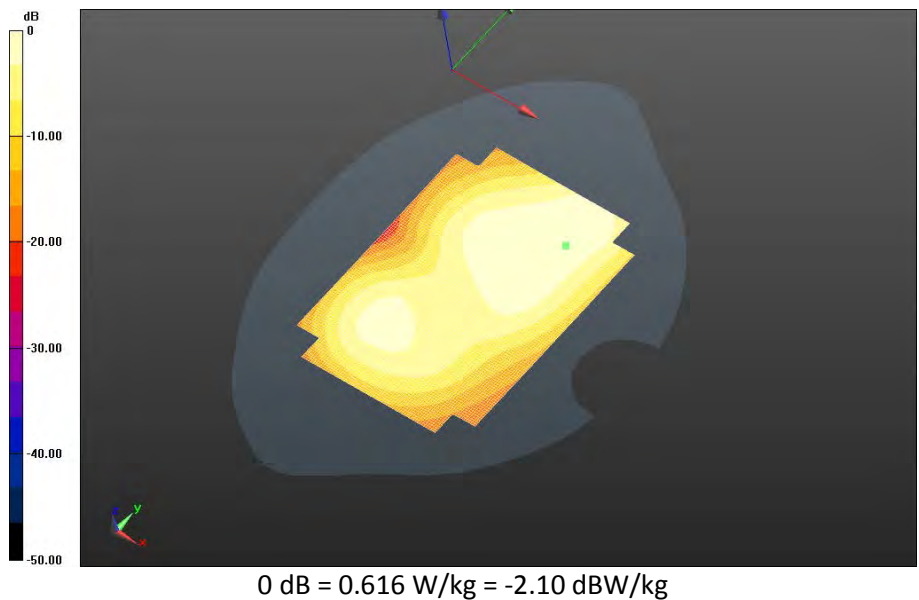



0 dB = 0.599 W/kg = -2.23 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>75(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Front - LTE band  
 2\_chan18700\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.9C\_liq\_temp\_21.5C/Area Scan  
 (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 13.602 V/m; Power Drift = -0.043 dB**

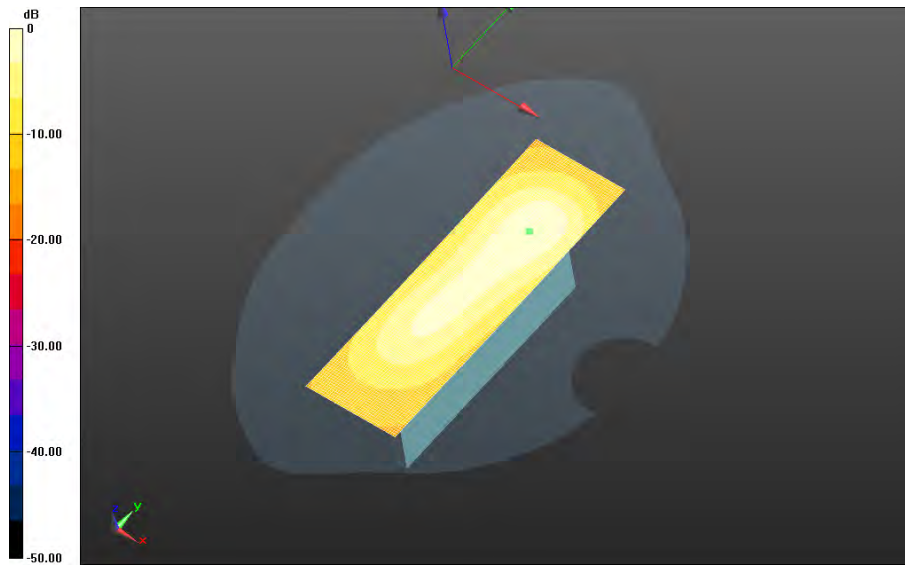
**Fast SAR: SAR(1g) = 0.556 W/kg; SAR(10g) = 0.342 W/kg; Secondary SAR(1g) = 0.514 W/kg  
 Maximum value of SAR (interpolated) = 0.616 W/kg**




		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>76(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Left - LTE band  
 2\_chan18700\_20MHz\_BW\_RB1\_Offset\_Mid\_amb\_temp\_23.6C\_liq\_temp\_21.4C/Area Scan  
 (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 18.371 V/m; **Power Drift = 0.024 dB****

**Fast SAR: SAR(1g) = 0.575 W/kg; SAR(10g) = 0.338 W/kg; Secondary SAR(1g) = 0.514 W/kg  
 Maximum value of SAR (interpolated) = 0.684 W/kg**

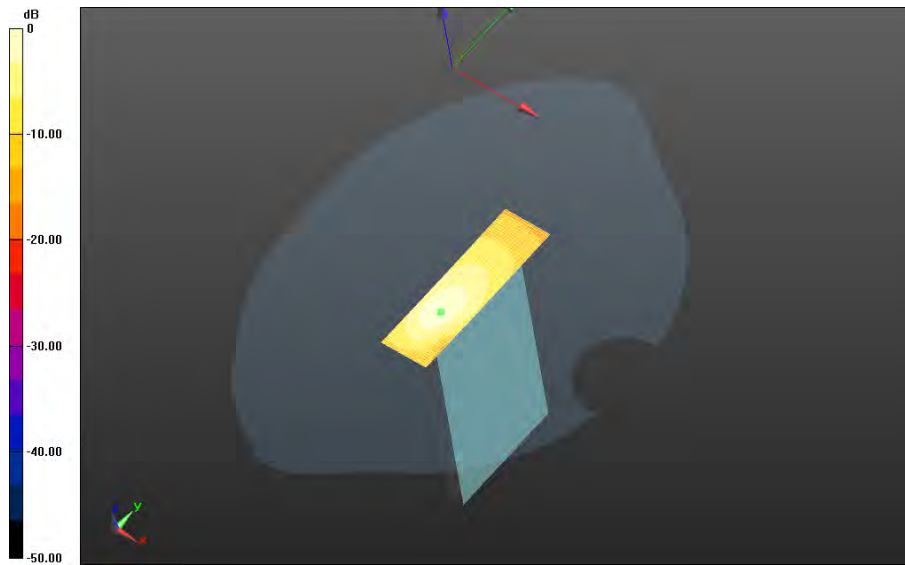


0 dB = 0.684 W/kg = -1.65 dBW/kg


		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>77(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE Band 2/10mm Device Bottom - LTE band  
 2\_chan18700\_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 = 14.453 V/m; Power Drift = -0.00424 dB**

**Fast SAR: SAR(1g) = 0.607 W/kg; SAR(10g) = 0.289 W/kg; Secondary SAR(1g) = 0.514 W/kg  
 Maximum value of SAR (interpolated) = 0.738 W/kg**



0 dB = 0.738 W/kg = -1.32 dBW/kg

		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>78(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

# GSM 1900

Date: 2/9/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## **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;  $\sigma = 1.501$  S/m;  $\epsilon_r = 52.187$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: 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\_21.5C/Area Scan (121x171x1):** Interpolated grid:

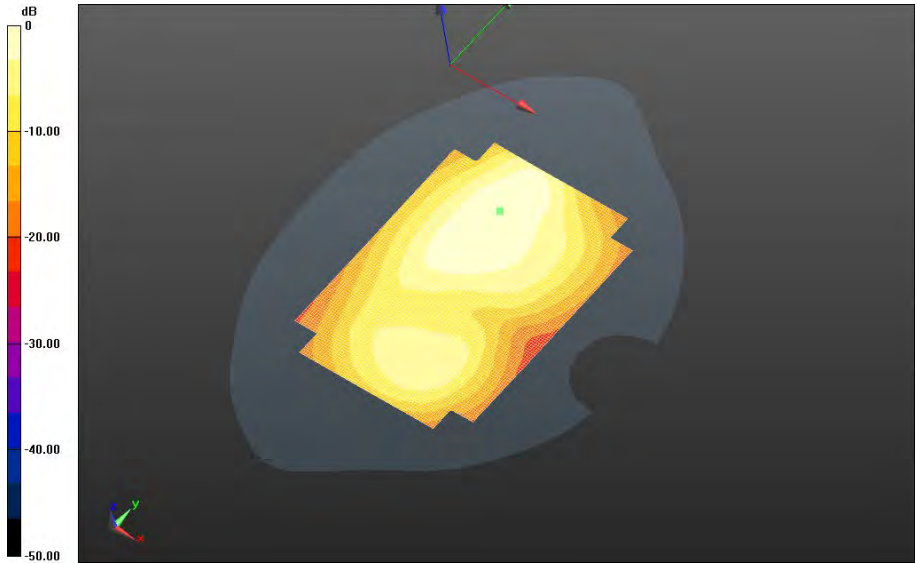
dx=1.500 mm, dy=1.500 mm

Reference Value = 12.364 V/m; **Power Drift = 0.018 dB**


**Fast SAR: SAR(1g) = 0.546 W/kg; SAR(10g) = 0.327 W/kg**

Maximum value of SAR (interpolated) = 0.595 W/kg

	Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>			Page <b>79(118)</b>
	Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>	FCC ID: <b>L6ARHC160LW</b>



0 dB = 0.595 W/kg = -2.25 dBW/kg

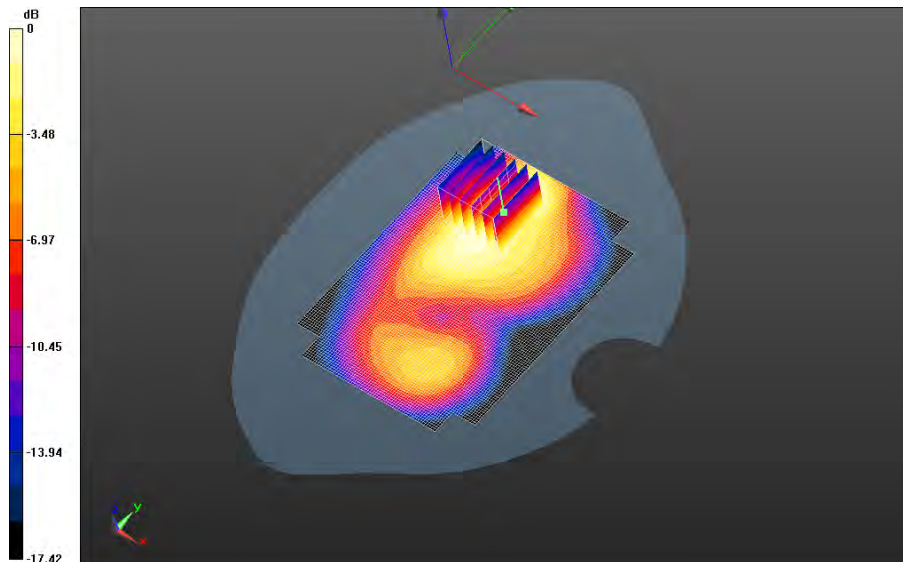
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW  (STR100-2) SAR Report</b>		Page <b>80(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900\_2-  
slot\_chan661\_amb\_temp\_23.7C\_liq\_temp\_21.5C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 12.998 V/m; **Power Drift = 0.018 dB**

**Fast SAR: SAR(1g) = 0.577 W/kg; SAR(10g) = 0.345 W/kg**  
Maximum value of SAR (interpolated) = 0.631 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 (26x26x36)/Cube 0:** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 12.998 V/m; **Power Drift = 0.018 dB**

**Averaged SAR: SAR(1g) = 0.579 W/kg; SAR(10g) = 0.354 W/kg**  
Maximum value of SAR (interpolated) = 0.949 W/kg



0 dB = 0.622 W/kg = -2.06 dBW/kg



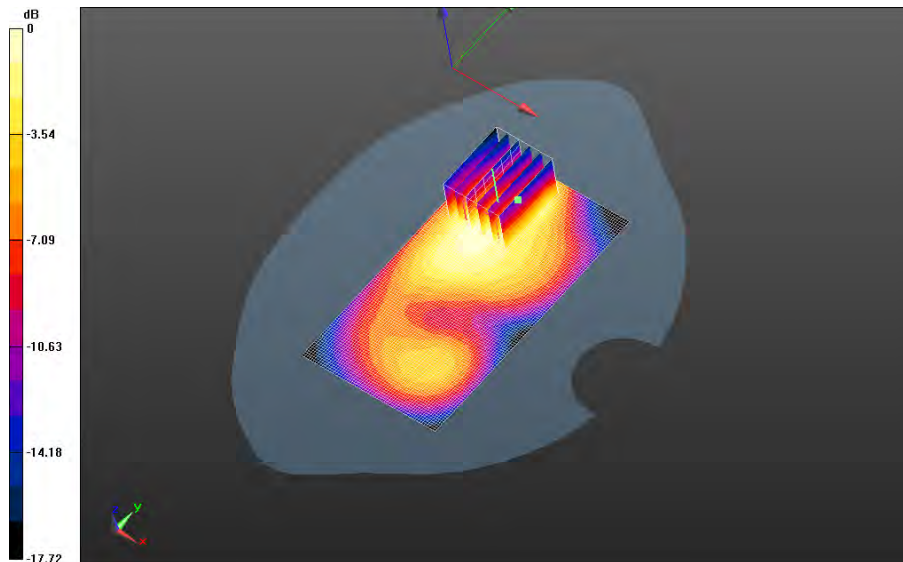
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>81(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900\_2-  
slot\_chan810\_amb\_temp\_23.6C\_liq\_temp\_21.4C/Area Scan (121x171x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 13.414 V/m; **Power Drift = -0.065 dB**


**Fast SAR: SAR(1g) = 0.584 W/kg; SAR(10g) = 0.348 W/kg**  
Maximum value of SAR (interpolated) = 0.647 W/kg

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900\_2-  
slot\_chan810\_amb\_temp\_23.6C\_liq\_temp\_21.4C/Zoom Scan (26x31x36)/Cube 0:** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 13.414 V/m; **Power Drift = -0.065 dB**

**Averaged SAR: SAR(1g) = 0.588 W/kg; SAR(10g) = 0.361 W/kg**  
Maximum value of SAR (interpolated) = 1.02 W/kg

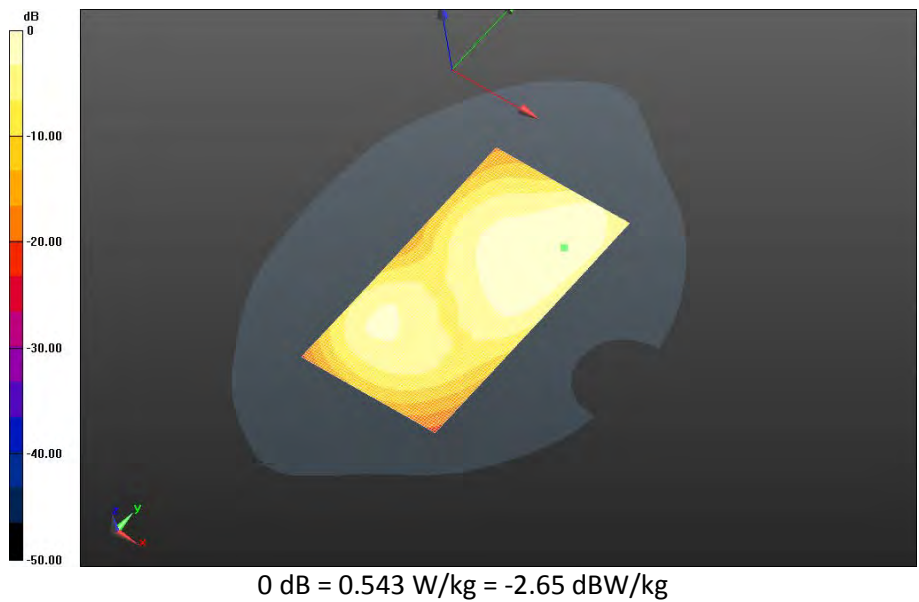



0 dB = 0.626 W/kg = -2.03 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>82(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</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 = 11.752 V/m; **Power Drift = 0.060 dB**

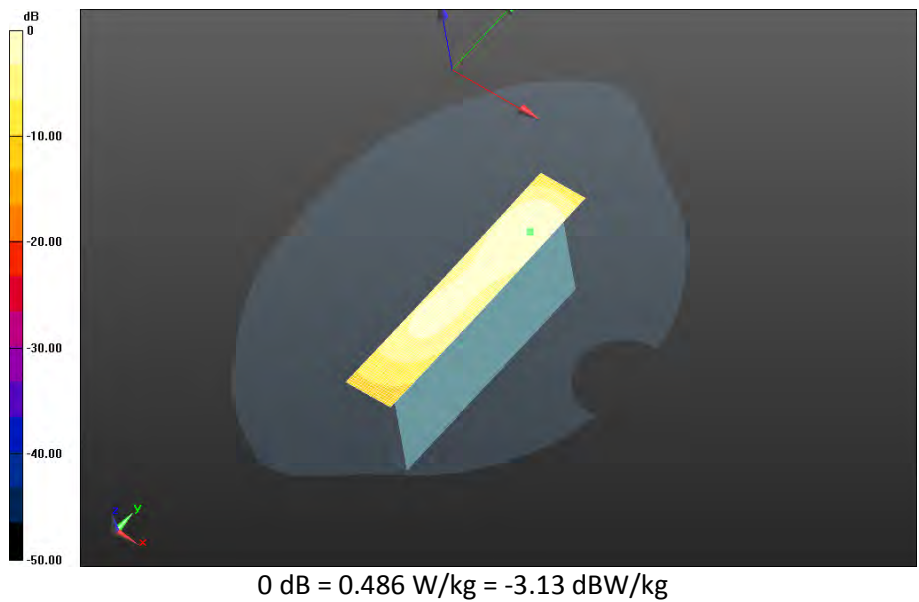
**Fast SAR: SAR(1g) = 0.487 W/kg; SAR(10g) = 0.294 W/kg**  
 Maximum value of SAR (interpolated) = 0.543 W/kg




		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>83(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Left - 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 = 14.685 V/m; Power Drift = -0.081 dB**

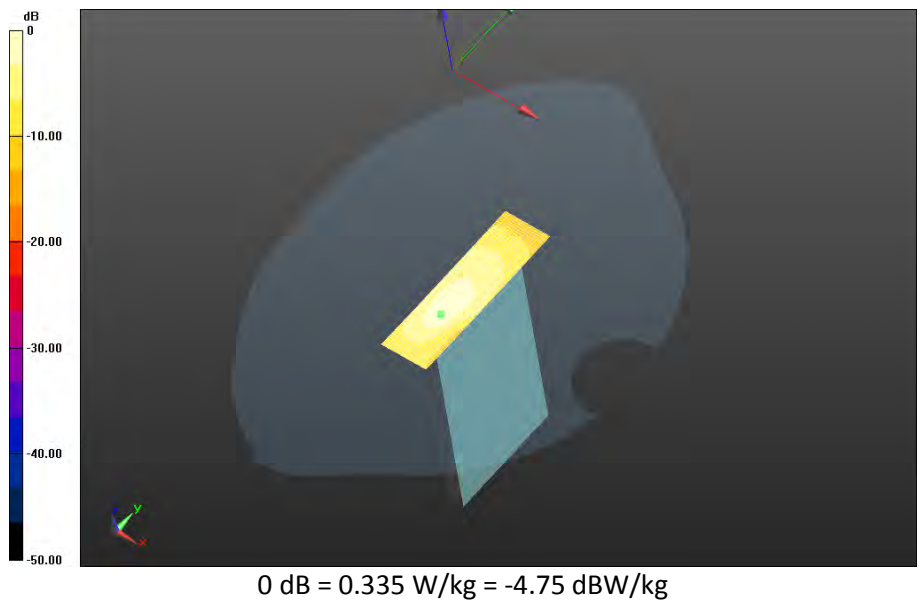
**Fast SAR: SAR(1g) = 0.417 W/kg; SAR(10g) = 0.246 W/kg  
 Maximum value of SAR (interpolated) = 0.486 W/kg**




		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>84(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</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 = 11.428 V/m; **Power Drift = -0.00749 dB**

**Fast SAR: SAR(1g) = 0.268 W/kg; SAR(10g) = 0.132 W/kg**  
Maximum value of SAR (interpolated) = 0.335 W/kg



		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>85(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

## UMTS Band II

		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>86(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

Date: 2/9/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

**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;  $\sigma = 1.504$  S/m;  $\epsilon_r = 52.189$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

**DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: 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\_24.2C\_liq\_temp\_21.5C/Area Scan (121x171x1):** Interpolated grid:

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

Reference Value = 14.470 V/m; **Power Drift = -0.018 dB**

**Fast SAR: SAR(1g) = 0.649 W/kg; SAR(10g) = 0.354 W/kg**

Maximum value of SAR (interpolated) = 0.769 W/kg

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

**II\_chan9262\_amb\_temp\_24.2C\_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 = 14.470 V/m; **Power Drift = -0.018 dB**

**Averaged SAR: SAR(1g) = 0.611 W/kg; SAR(10g) = 0.332 W/kg**

Maximum value of SAR (interpolated) = 1.10 W/kg

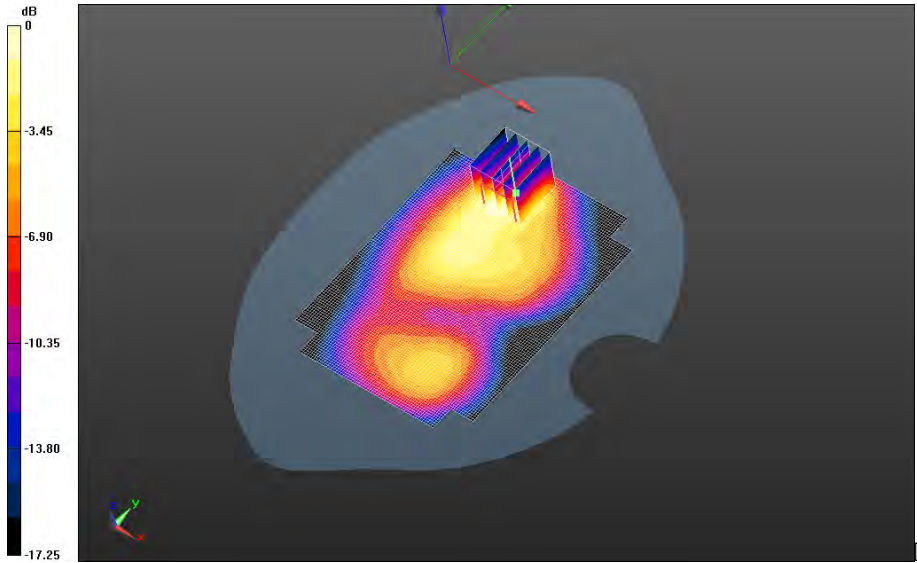
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 29 –Mar 09, 2015**


Test Report No  
**RTS-6063-1503-15**

FCC ID:  
**L6ARHC160LW**

IC  
**2503A-RHC160LW**



0 dB = 0.670 W/kg = -1.74 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>88(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

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

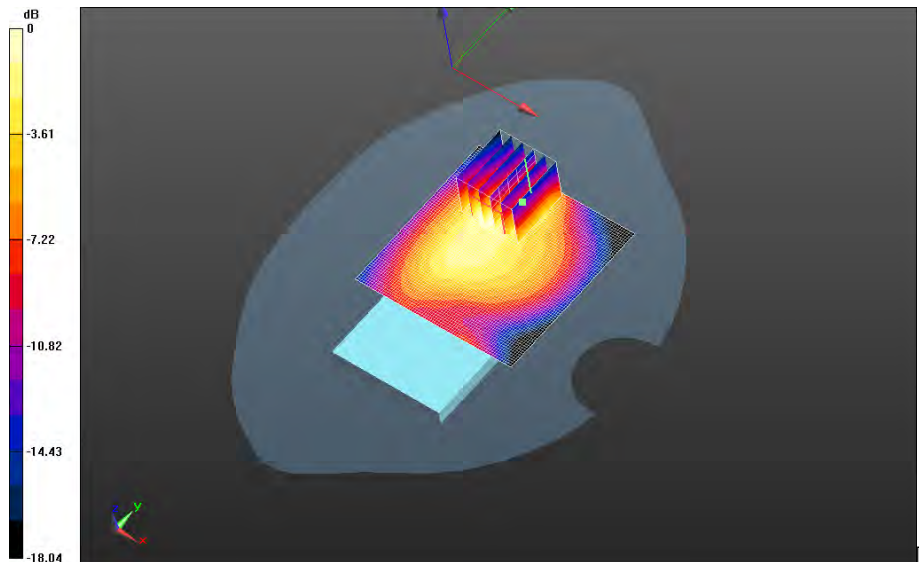
**II\_chan9400\_amb\_temp\_24.7C\_liq\_temp\_21.6C/Area Scan (71x71x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 14.037 V/m; **Power Drift = -0.058 dB**

**Fast SAR: SAR(1g) = 0.617 W/kg; SAR(10g) = 0.354 W/kg; Secondary SAR(1g) = 0.581 W/kg**  
 Maximum value of SAR (interpolated) = 0.698 W/kg

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


**II\_chan9400\_amb\_temp\_24.7C\_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 = 14.037 V/m; **Power Drift = -0.058 dB**

**Averaged SAR: SAR(1g) = 0.627 W/kg; SAR(10g) = 0.358 W/kg**  
 Maximum value of SAR (interpolated) = 1.13 W/kg



0 dB = 0.698 W/kg = -1.56 dBW/kg



		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>89(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

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

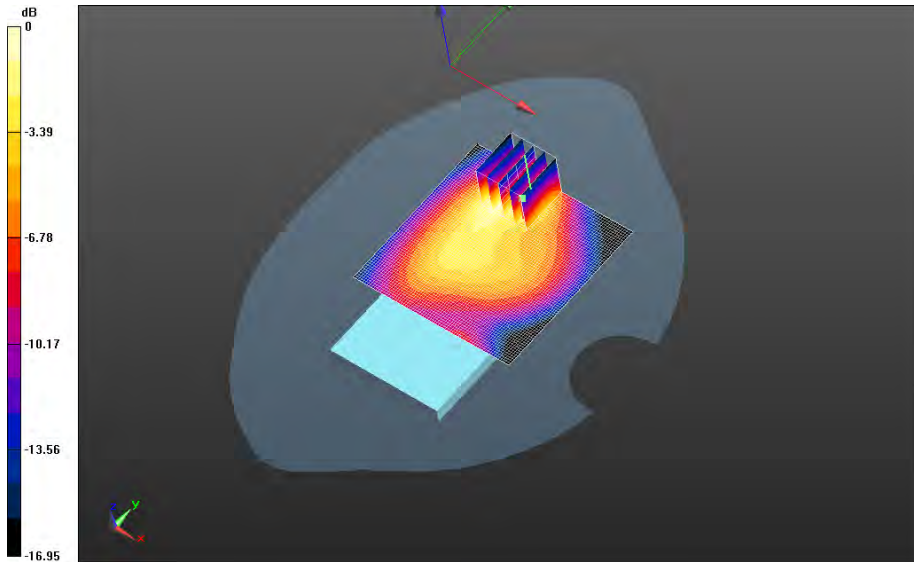
**II\_chan9538\_amb\_temp\_23.9C\_liq\_temp\_21.5C/Area Scan (71x71x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 13.757 V/m; **Power Drift = -0.026 dB**

**Fast SAR: SAR(1g) = 0.616 W/kg; SAR(10g) = 0.345 W/kg; Secondary SAR(1g) = 0.581 W/kg**  
 Maximum value of SAR (interpolated) = 0.701 W/kg


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

**II\_chan9538\_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 = 13.757 V/m; **Power Drift = -0.026 dB**

**Averaged SAR: SAR(1g) = 0.665 W/kg; SAR(10g) = 0.356 W/kg**  
 Maximum value of SAR (interpolated) = 1.22 W/kg



0 dB = 0.737 W/kg = -1.33 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>90(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

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

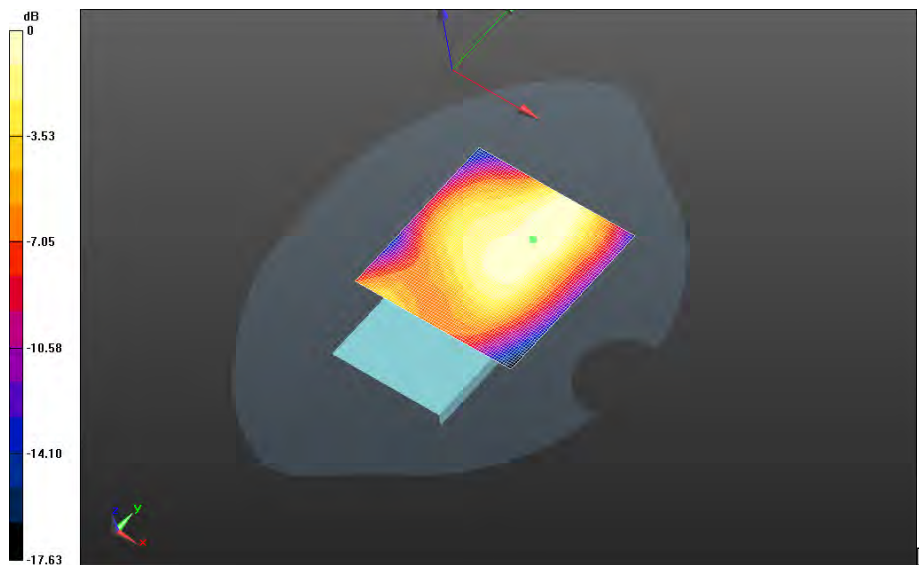
**II\_chan9400\_amb\_temp\_24.1C\_liq\_temp\_21.6C/Area Scan (71x71x1):** Interpolated grid:


dx=1.500 mm, dy=1.500 mm

Reference Value = 13.190 V/m; **Power Drift = 0.070 dB**

**Fast SAR: SAR(1g) = 0.425 W/kg; SAR(10g) = 0.263 W/kg;**

Maximum value of SAR (interpolated) = 0.456 W/kg



		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>91(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

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

**II\_chan9400\_amb\_temp\_24.4C\_liq\_temp\_21.7C/Area Scan (121x171x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm


Reference Value = 14.438 V/m; **Power Drift = 0.065 dB**

**Fast SAR: SAR(1g) = 0.372 W/kg; SAR(10g) = 0.217 W/kg**

Maximum value of SAR (interpolated) = 0.431 W/kg



0 dB = 0.431 W/kg = -3.66 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>92(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

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


**II\_chan9400\_amb\_temp\_24.2C\_liq\_temp\_21.7C/Area Scan (121x171x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm

Reference Value = 3.577 V/m; **Power Drift = 0.333 dB**

**Fast SAR: SAR(1g) = 0.148 W/kg; SAR(10g) = 0.0838 W/kg;**

Maximum value of SAR (interpolated) = 0.175 W/kg



		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>93(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

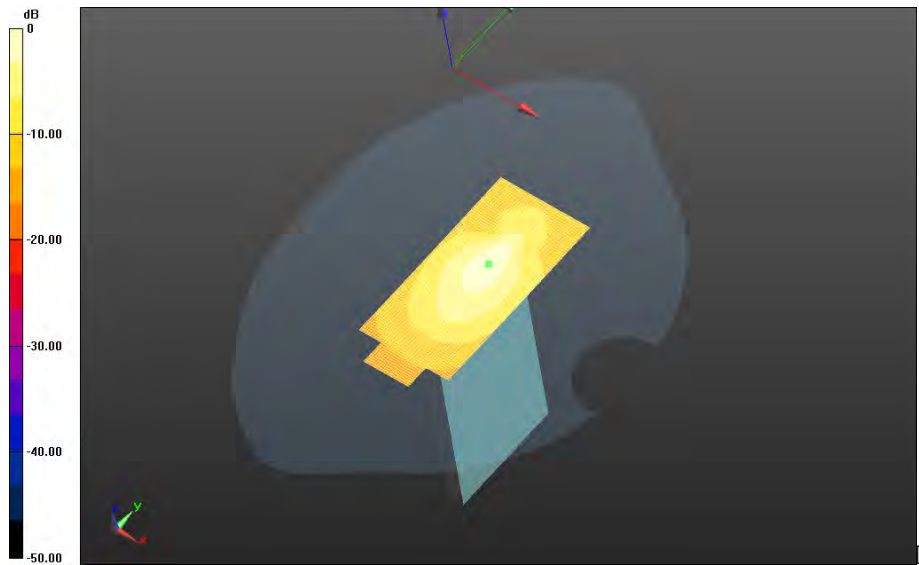
**Mobile Hot Spot MSL - UMTS II/10mm Device Bottom - UMTS**

**II\_chan9400\_amb\_temp\_24.5C\_liq\_temp\_21.8C/Area Scan (121x171x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm


Reference Value = 10.341 V/m; **Power Drift = -0.105 dB**

**Fast SAR: SAR(1g) = 0.229 W/kg; SAR(10g) = 0.110 W/kg;**

Maximum value of SAR (interpolated) = 0.283 W/kg



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

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>94(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - UMTS II/10mm Device Back 2nd Scan - UMTS**

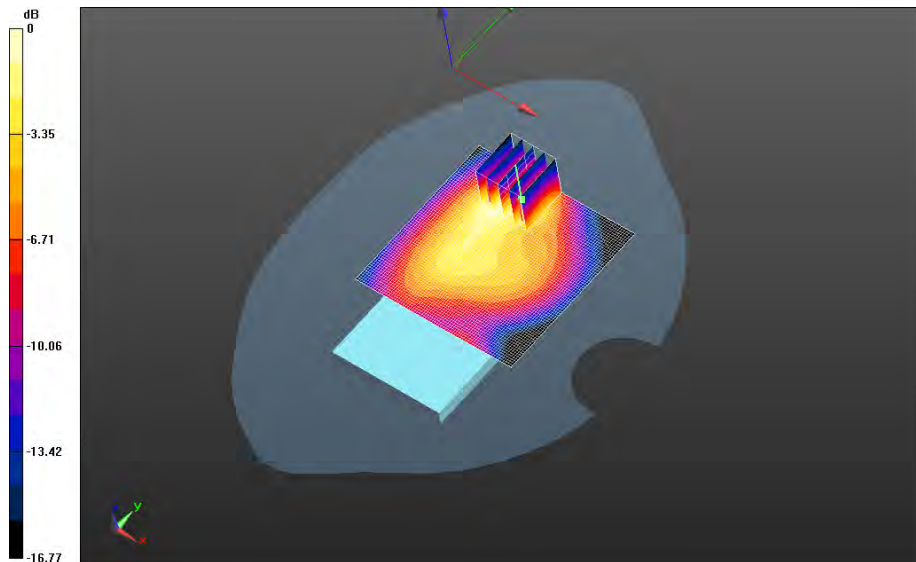
**II\_chan9538\_amb\_temp\_24.0C\_liq\_temp\_21.8C/Area Scan (71x71x1):** Interpolated grid:  
 dx=1.500 mm, dy=1.500 mm  
 Reference Value = 13.830 V/m; **Power Drift = 0.033 dB**

**Fast SAR: SAR(1g) = 0.606 W/kg; SAR(10g) = 0.340 W/kg; Secondary SAR(1g) = 0.581 W/kg**  
 Maximum value of SAR (interpolated) = 0.690 W/kg


**Mobile Hot Spot MSL - UMTS II/10mm Device Back 2nd Scan - UMTS**

**II\_chan9538\_amb\_temp\_24.0C\_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 = 13.830 V/m; **Power Drift = 0.033 dB**

**Averaged SAR: SAR(1g) = 0.651 W/kg; SAR(10g) = 0.350 W/kg**  
 Maximum value of SAR (interpolated) = 1.19 W/kg



0 dB = 0.706 W/kg = -1.51 dBW/kg

		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>95(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

## 802.11b/g

Date: 3/3/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7A1D**

### **Configuration: Mobile Hot Spot MSL - 802.11g**

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

Frequency: 2412 MHz

Medium Parameters used:  $f=2412$  MHz;  $\sigma = 1.962$  S/m;  $\epsilon_r = 51.676$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### **DASY Configuration:**

- Probe: ET3DV6 - SN1643; ConvF: (4.07,4.07,4.07); Calibrated: 3/10/2014;
- 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 - 802.11g/10mm Device Back -**

**802.11g\_chan1\_amb\_temp\_23.9C\_liq\_temp\_21.6C/Area Scan (151x201x1):** Interpolated grid:

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

Reference Value = 7.166 V/m; **Power Drift = -0.00374 dB**

**Fast SAR: SAR(1g) = 0.208 W/kg; SAR(10g) = 0.114 W/kg**

Maximum value of SAR (interpolated) = 0.230 W/kg

### **Mobile Hot Spot MSL - 802.11g/10mm Device Back -**

**802.11g\_chan1\_amb\_temp\_23.9C\_liq\_temp\_21.6C/Zoom Scan (31x31x36)/Cube 0:**

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

Reference Value = 7.166 V/m; **Power Drift = -0.00374 dB**

**Averaged SAR: SAR(1g) = 0.226 W/kg; SAR(10g) = 0.114 W/kg**

Maximum value of SAR (interpolated) = 0.566 W/kg

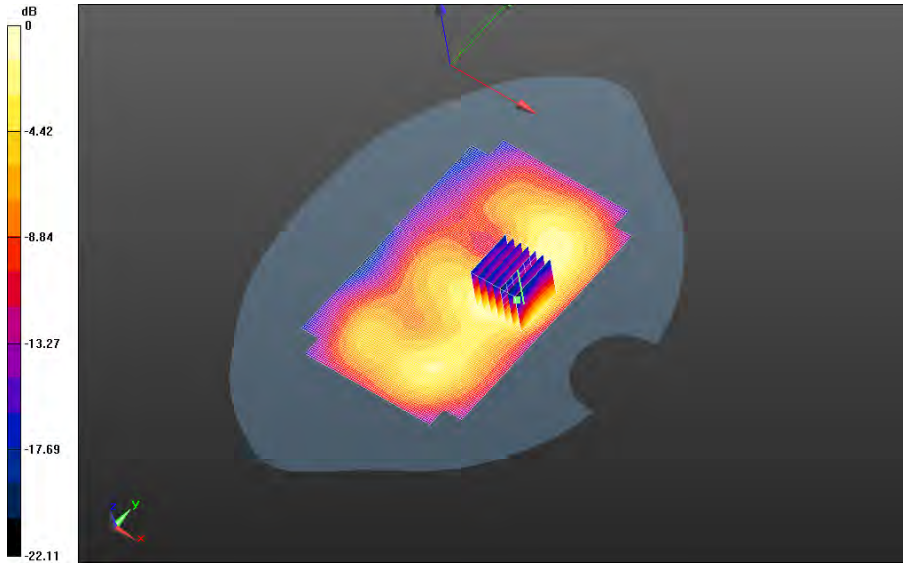
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 29 –Mar 09, 2015**

Test Report No  
**RTS-6063-1503-15**


FCC ID:  
**L6ARHC160LW**

IC  
**2503A-RHC160LW**



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



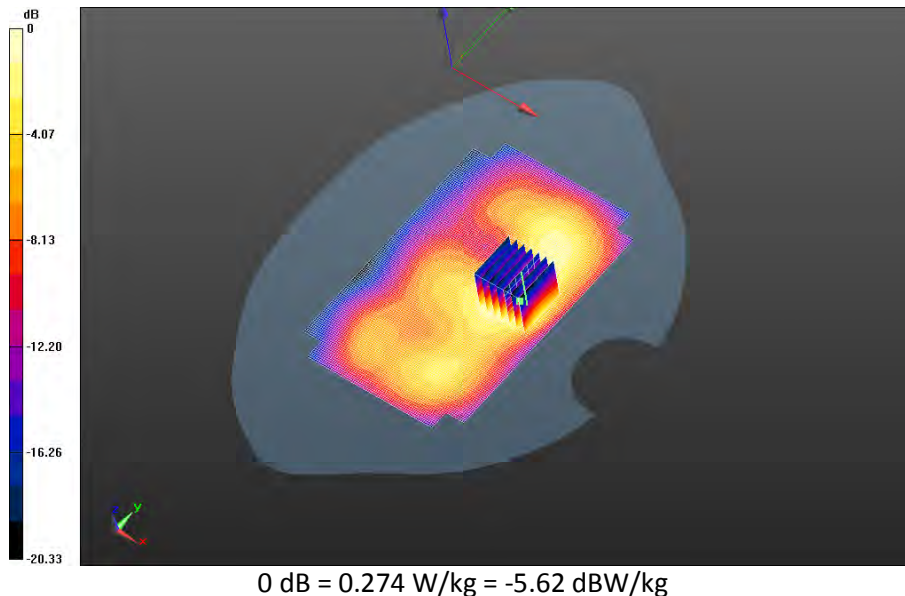
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>97(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>


**Mobile Hot Spot MSL - 802.11g/10mm Device Back -  
802.11g\_chan6\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Area Scan (151x201x1):** Interpolated grid:  
dx=1.200 mm, dy=1.200 mm  
Reference Value = 7.515 V/m; **Power Drift = -0.145 dB**

**Fast SAR: SAR(1g) = 0.238 W/kg; SAR(10g) = 0.129 W/kg**  
Maximum value of SAR (interpolated) = 0.265 W/kg

**Mobile Hot Spot MSL - 802.11g/10mm Device Back -  
802.11g\_chan6\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Zoom Scan (31x31x36)/Cube 0:**  
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
Reference Value = 7.515 V/m; **Power Drift = -0.145 dB**

**Averaged SAR: SAR(1g) = 0.259 W/kg; SAR(10g) = 0.130 W/kg**  
Maximum value of SAR (interpolated) = 0.664 W/kg



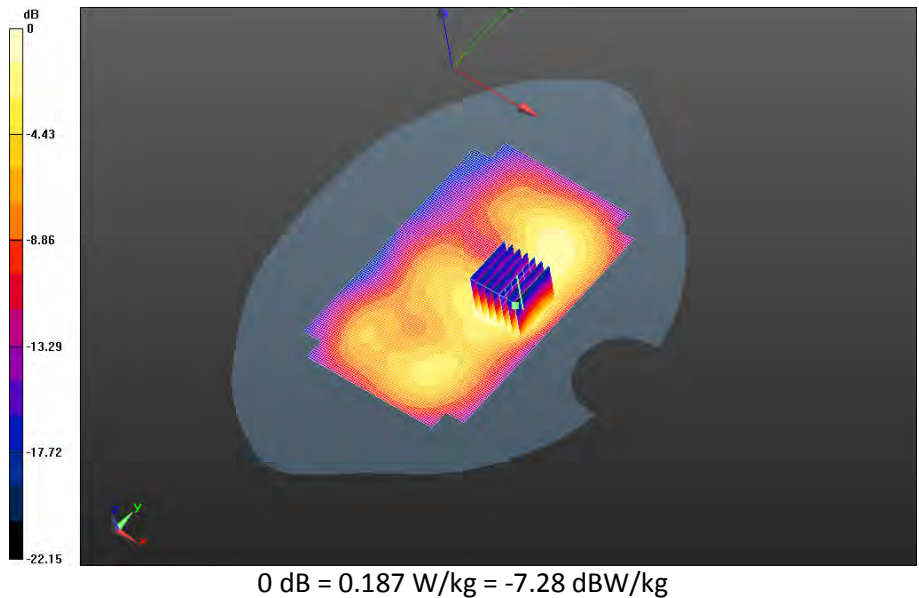
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>98(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>


**Mobile Hot Spot MSL - 802.11g/10mm Device Back -  
802.11g\_chan11\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Area Scan (151x201x1):** Interpolated grid:  
dx=1.200 mm, dy=1.200 mm  
Reference Value = 6.104 V/m; **Power Drift = -0.047 dB**

**Fast SAR: SAR(1g) = 0.164 W/kg; SAR(10g) = 0.0870 W/kg**  
Maximum value of SAR (interpolated) = 0.185 W/kg

**Mobile Hot Spot MSL - 802.11g/10mm Device Back -  
802.11g\_chan11\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Zoom Scan (31x31x36)/Cube 0:**  
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
Reference Value = 6.104 V/m; **Power Drift = -0.047 dB**

**Averaged SAR: SAR(1g) = 0.178 W/kg; SAR(10g) = 0.0875 W/kg**  
Maximum value of SAR (interpolated) = 0.459 W/kg



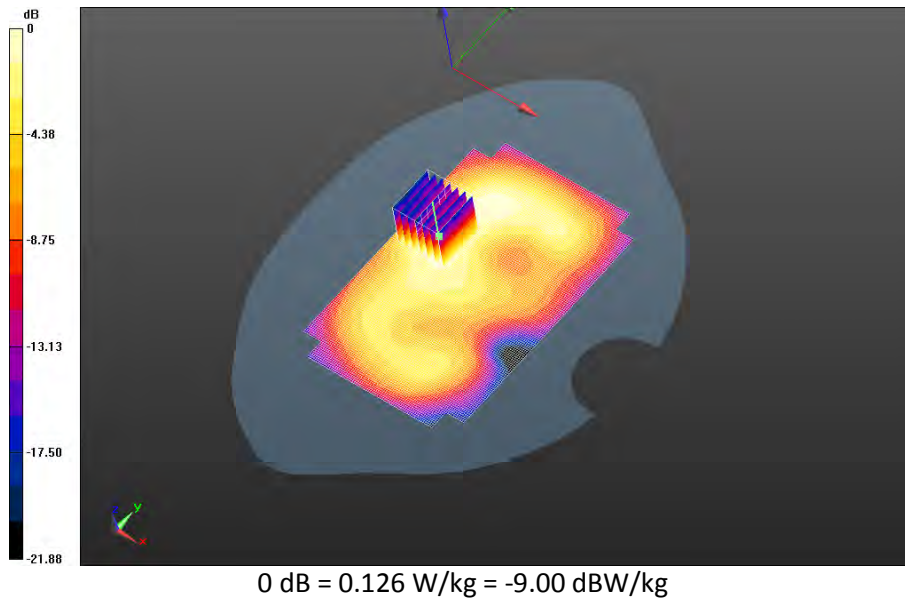
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>99(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>


**Mobile Hot Spot MSL - 802.11g/10mm Device Front -  
802.11g\_chan6\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Area Scan (151x201x1):** Interpolated grid:  
dx=1.200 mm, dy=1.200 mm  
Reference Value = 5.546 V/m; **Power Drift = -0.102 dB**

**Fast SAR: SAR(1g) = 0.113 W/kg; SAR(10g) = 0.0630 W/kg**  
Maximum value of SAR (interpolated) = 0.124 W/kg

**Mobile Hot Spot MSL - 802.11g/10mm Device Front -  
802.11g\_chan6\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Zoom Scan (31x31x36)/Cube 0:**  
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
Reference Value = 5.546 V/m; **Power Drift = -0.102 dB**

**Averaged SAR: SAR(1g) = 0.122 W/kg; SAR(10g) = 0.0638 W/kg**  
Maximum value of SAR (interpolated) = 0.317 W/kg



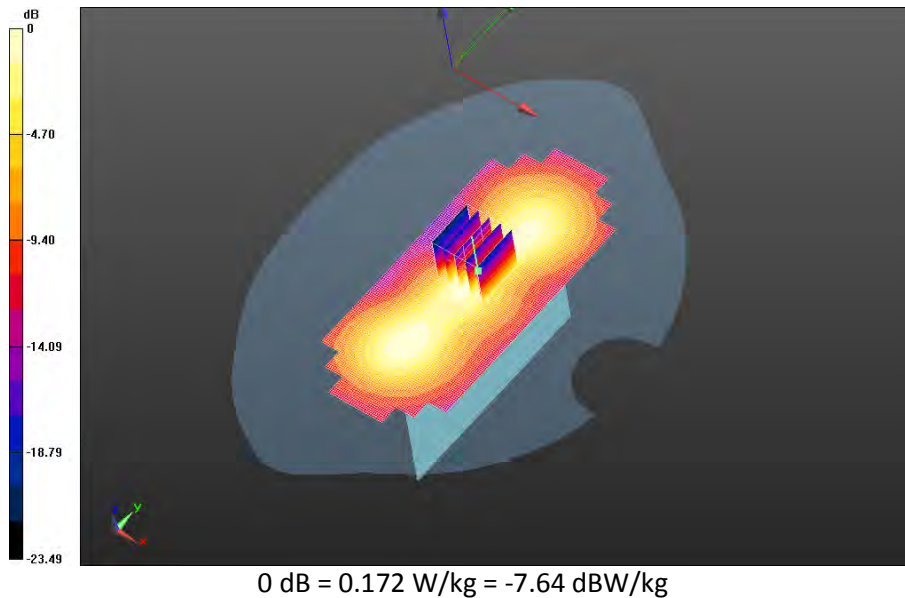
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>100(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>


**Mobile Hot Spot MSL - 802.11g/10mm Device Right -  
802.11g\_chan6\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Area Scan (151x201x1):** Interpolated grid:  
dx=1.200 mm, dy=1.200 mm  
Reference Value = 8.951 V/m; **Power Drift = -0.012 dB**

**Fast SAR: SAR(1g) = 0.144 W/kg; SAR(10g) = 0.0763 W/kg**  
Maximum value of SAR (interpolated) = 0.172 W/kg

**Mobile Hot Spot MSL - 802.11g/10mm Device Right -  
802.11g\_chan6\_amb\_temp\_23.8C\_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 = 8.951 V/m; **Power Drift = -0.012 dB**

**Averaged SAR: SAR(1g) = 0.160 W/kg; SAR(10g) = 0.0753 W/kg**  
Maximum value of SAR (interpolated) = 0.424 W/kg



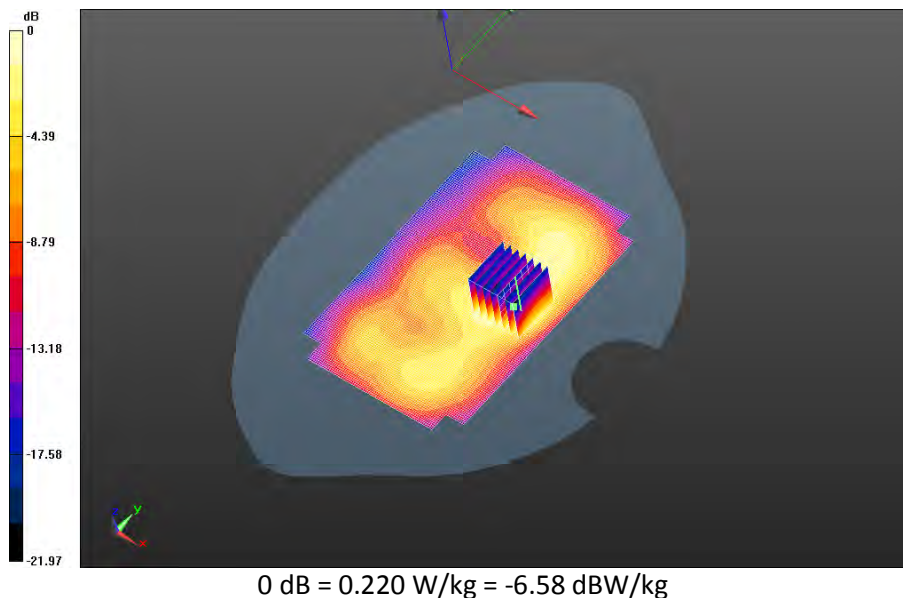
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW</b> <b>(STR100-2) SAR Report</b>		Page <b>101(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>


**Mobile Hot Spot MSL - 802.11g/10mm Device Back -**  
**802.11b\_chan6\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Area Scan (151x201x1):** Interpolated grid:  
dx=1.200 mm, dy=1.200 mm  
Reference Value = 6.805 V/m; **Power Drift = -0.150 dB**

**Fast SAR: SAR(1g) = 0.195 W/kg; SAR(10g) = 0.105 W/kg**  
Maximum value of SAR (interpolated) = 0.219 W/kg

**Mobile Hot Spot MSL - 802.11g/10mm Device Back -**  
**802.11b\_chan6\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Zoom Scan (31x31x36)/Cube 0:**  
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
Reference Value = 6.805 V/m; **Power Drift = -0.150 dB**

**Averaged SAR: SAR(1g) = 0.210 W/kg; SAR(10g) = 0.105 W/kg**  
Maximum value of SAR (interpolated) = 0.545 W/kg



		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>102(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

# Bluetooth

Date: 3/3/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Mobile Hot Spot MSL - Bluetooth

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

Medium Parameters used:  $f=2441$  MHz;  $\sigma = 1.998$  S/m;  $\epsilon_r = 51.638$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (4.07,4.07,4.07); Calibrated: 3/10/2014;
- 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 - Bluetooth/10mm Device Back -

**Bluetooth\_chan39\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Area Scan (151x201x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 3.240 V/m; **Power Drift = -0.183 dB**

**Fast SAR: SAR(1g) = 0.0419 W/kg; SAR(10g) = 0.0228 W/kg**

Maximum value of SAR (interpolated) = 0.0466 W/kg

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

**Bluetooth\_chan39\_amb\_temp\_23.8C\_liq\_temp\_21.5C/Zoom Scan (31x31x36)/Cube 0:**

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

Reference Value = 3.240 V/m; **Power Drift = -0.183 dB**

**Averaged SAR: SAR(1g) = 0.0466 W/kg; SAR(10g) = 0.0231 W/kg**

Maximum value of SAR (interpolated) = 0.118 W/kg

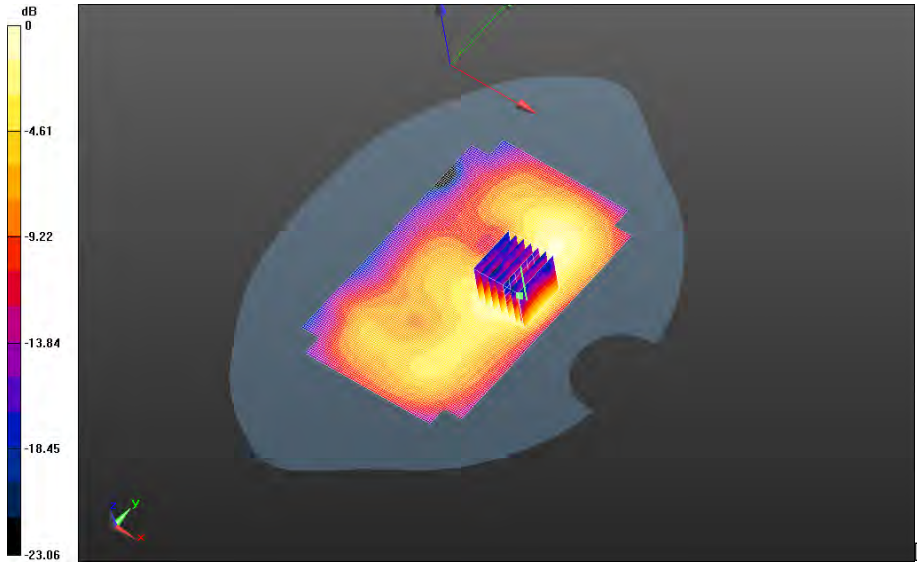
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 29 –Mar 09, 2015**

Test Report No  
**RTS-6063-1503-15**


FCC ID:  
**L6ARHC160LW**

IC  
**2503A-RHC160LW**



0 dB = 0.0486 W/kg = -13.13 dBW/kg



		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>104(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

# LTE Band 7

Date: 3/5/2015

Test Lab: BlackBerry RTS

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C**

## Configuration: Mobile Hot Spot MSL - LTE 7

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

Medium Parameters used:  $f=2510$  MHz;  $\sigma = 2.091$  S/m;  $\epsilon_r = 51.337$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

### DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.06,4.06,4.06); Calibrated: 2/25/2015;
- Sensor-Surface: 3 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 7/10mm Device Back - LTE band

**7\_chan20850\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.9C\_liq\_temp\_21.8C/Area Scan**

**(81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 5.114 V/m; **Power Drift = 0.124 dB**

**Fast SAR: SAR(1g) = 0.968 W/kg; SAR(10g) = 0.417 W/kg**

Maximum value of SAR (interpolated) = 1.40 W/kg

### Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band

**7\_chan20850\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.9C\_liq\_temp\_21.8C/Zoom Scan**

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

Reference Value = 5.114 V/m; **Power Drift = 0.124 dB**

**Averaged SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.451 W/kg**

Maximum value of SAR (interpolated) = 2.25 W/kg



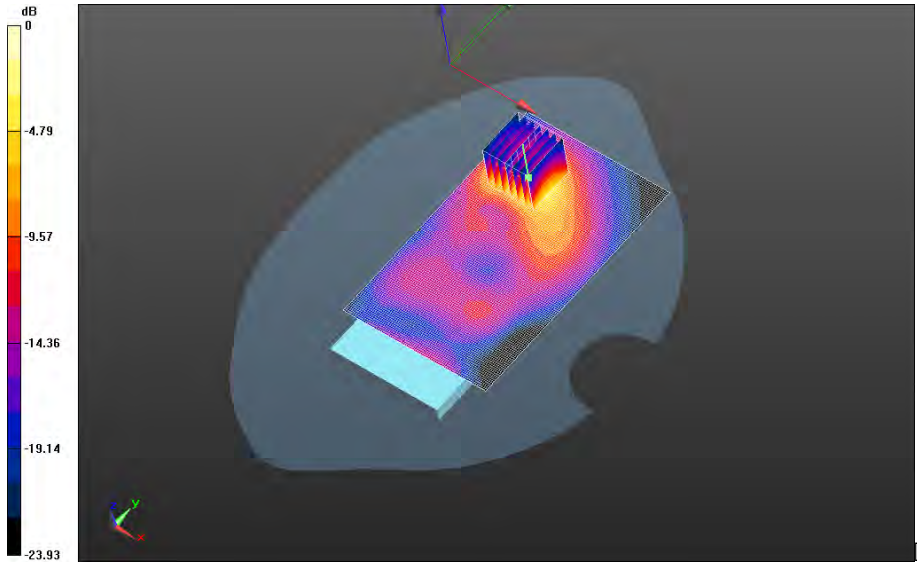
Author Data  
**Andrew Becker**

Dates of Test  
**Jan 29 –Mar 09, 2015**


Test Report No  
**RTS-6063-1503-15**

FCC ID:  
**L6ARHC160LW**

IC  
**2503A-RHC160LW**



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

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>106(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band**

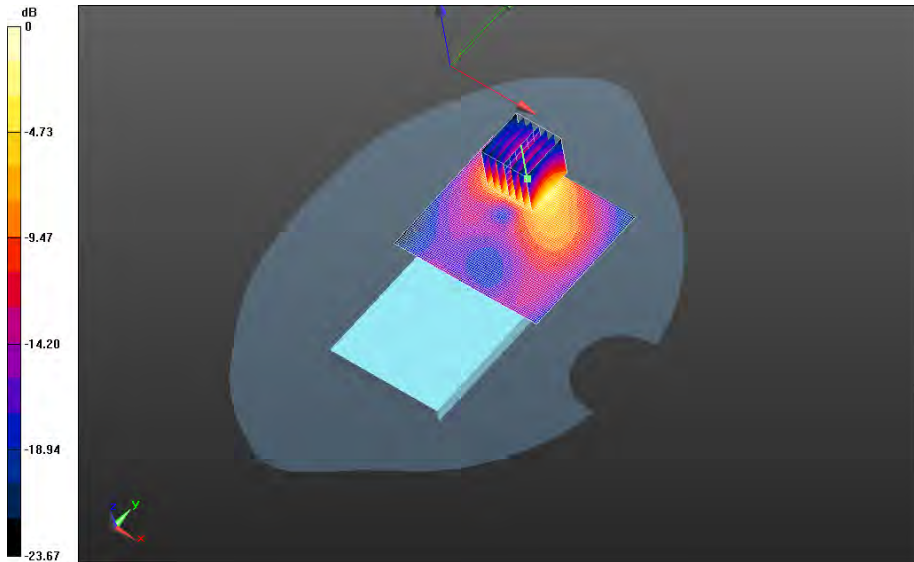
**7\_chan21100\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.9C\_liq\_temp\_21.8C/Area Scan  
 (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
 Reference Value = 4.138 V/m; **Power Drift = 0.150 dB**

**Fast SAR: SAR(1g) = 0.945 W/kg; SAR(10g) = 0.418 W/kg**  
 Maximum value of SAR (interpolated) = 1.27 W/kg


**Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band**

**7\_chan21100\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_23.9C\_liq\_temp\_21.8C/Zoom Scan  
 (31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
 Reference Value = 4.138 V/m; **Power Drift = 0.150 dB**

**Averaged SAR: SAR(1g) = 0.983 W/kg; SAR(10g) = 0.430 W/kg**  
 Maximum value of SAR (interpolated) = 2.15 W/kg



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

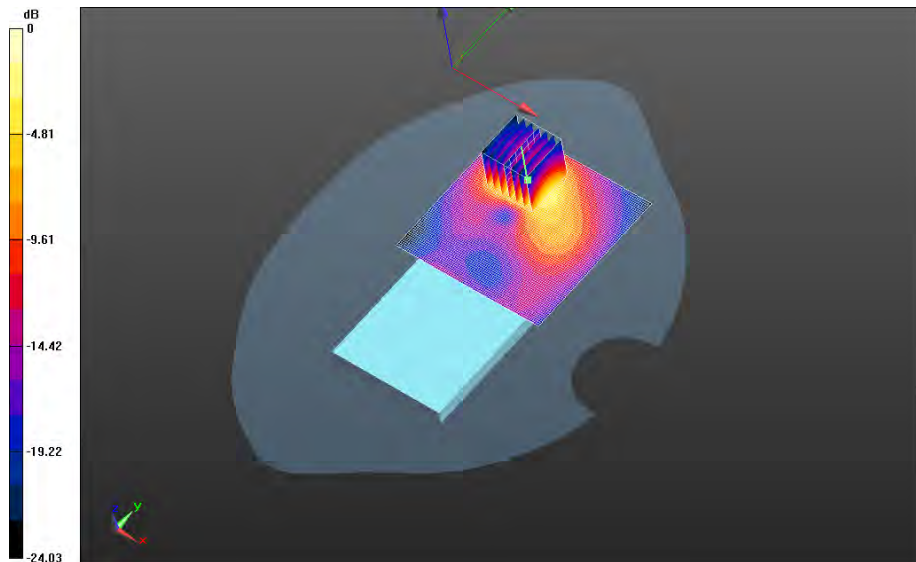
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>107(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band  
7\_chan21350\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.9C\_liq\_temp\_21.8C/Area Scan  
(81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Reference Value = 4.217 V/m; **Power Drift = -0.124 dB**


**Fast SAR: SAR(1g) = 0.993 W/kg; SAR(10g) = 0.433 W/kg**  
Maximum value of SAR (interpolated) = 1.36 W/kg

**Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band  
7\_chan21350\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.9C\_liq\_temp\_21.8C/Zoom Scan  
(31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
Reference Value = 4.217 V/m; **Power Drift = -0.124 dB**

**Averaged SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.455 W/kg**  
Maximum value of SAR (interpolated) = 2.29 W/kg



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

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW  (STR100-2) SAR Report</b>		Page <b>108(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band**

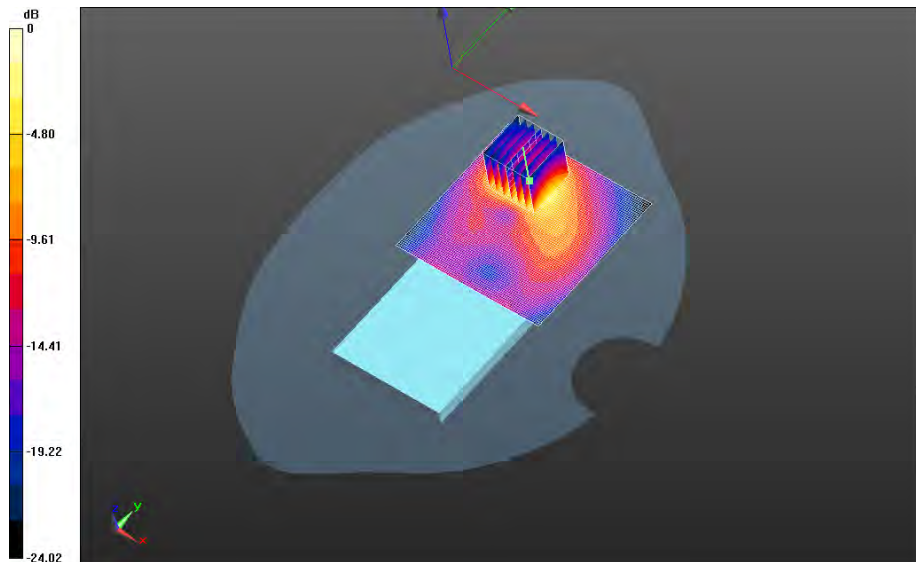
**7\_chan20850\_20MHz\_BW\_RB50\_Offset\_Low\_amb\_temp\_23.9C\_liq\_temp\_21.8C/Area Scan  
(81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Reference Value = 4.865 V/m; **Power Drift = -0.107 dB**

**Fast SAR: SAR(1g) = 0.948 W/kg; SAR(10g) = 0.412 W/kg**  
Maximum value of SAR (interpolated) = 1.30 W/kg


**Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band**

**7\_chan20850\_20MHz\_BW\_RB50\_Offset\_Low\_amb\_temp\_23.9C\_liq\_temp\_21.8C/Zoom Scan  
(31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
Reference Value = 4.865 V/m; **Power Drift = -0.107 dB**

**Averaged SAR: SAR(1g) = 0.991 W/kg; SAR(10g) = 0.433 W/kg**  
Maximum value of SAR (interpolated) = 2.20 W/kg



0 dB = 1.32 W/kg = 1.21 dBW/kg

		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW</b> <b>(STR100-2) SAR Report</b>		Page <b>109(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band**

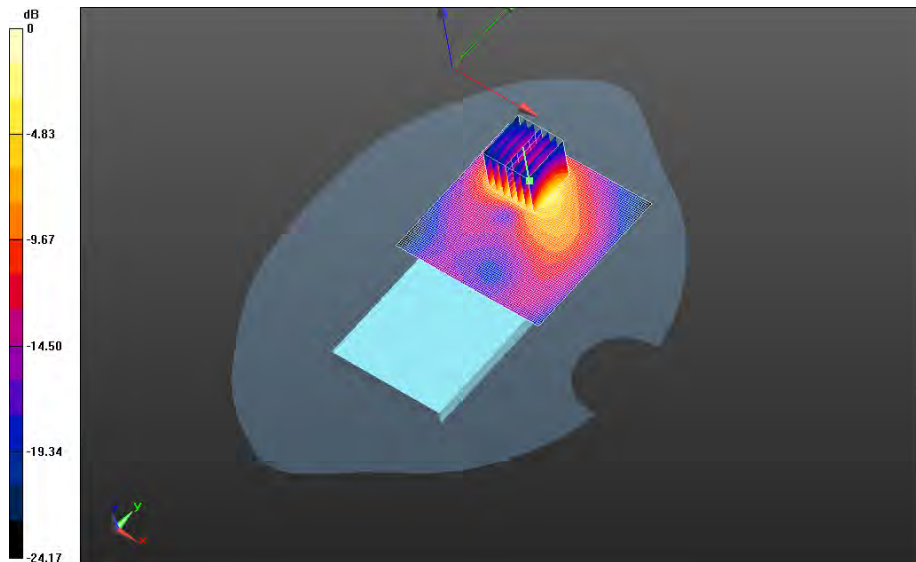
**7\_chan21100\_20MHz\_BW\_RB50\_Offset\_Low\_amb\_temp\_24.2C\_liq\_temp\_21.9C/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Reference Value = 4.230 V/m; **Power Drift = -0.071 dB**

**Fast SAR: SAR(1g) = 0.928 W/kg; SAR(10g) = 0.404 W/kg**  
Maximum value of SAR (interpolated) = 1.27 W/kg


**Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band**

**7\_chan21100\_20MHz\_BW\_RB50\_Offset\_Low\_amb\_temp\_24.2C\_liq\_temp\_21.9C/Zoom Scan (31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
Reference Value = 4.230 V/m; **Power Drift = -0.071 dB**

**Averaged SAR: SAR(1g) = 0.974 W/kg; SAR(10g) = 0.427 W/kg**  
Maximum value of SAR (interpolated) = 2.15 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

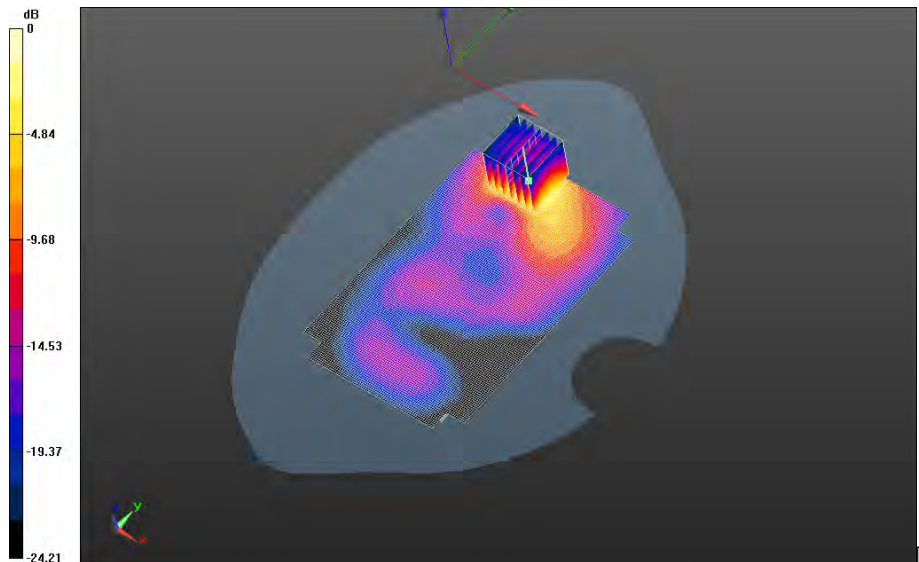
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>110(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band**  
**7\_chan21350\_20MHz\_BW\_RB50\_Offset\_Low\_amb\_temp\_23.7C\_liq\_temp\_21.9C/Area Scan**  
**(151x201x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
 Reference Value = 4.034 V/m; **Power Drift = 0.028 dB**


**Fast SAR: SAR(1g) = 1.01 W/kg; SAR(10g) = 0.439 W/kg**  
 Maximum value of SAR (interpolated) = 1.40 W/kg

**Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band**  
**7\_chan21350\_20MHz\_BW\_RB50\_Offset\_Low\_amb\_temp\_23.7C\_liq\_temp\_21.9C/Zoom Scan**  
**(31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
 Reference Value = 4.034 V/m; **Power Drift = 0.028 dB**

**Averaged SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.453 W/kg**  
 Maximum value of SAR (interpolated) = 2.30 W/kg



0 dB = 1.38 W/kg = 1.40 dBW/kg

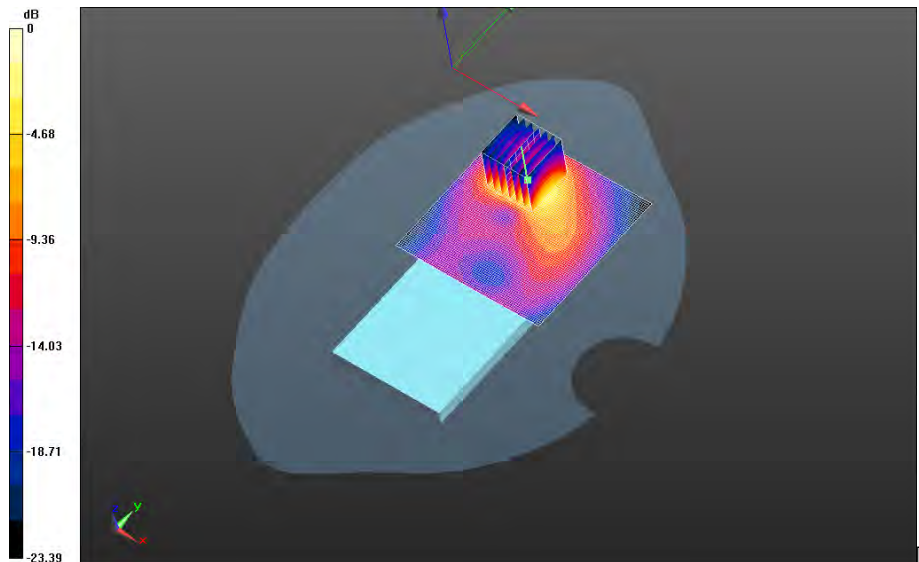
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW</b> <b>(STR100-2) SAR Report</b>		Page <b>111(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band**  
**7\_chan20850\_20MHz\_BW\_RB100\_Offset\_Low\_amb\_temp\_23.7C\_liq\_temp\_21.8C/Area Scan**  
**(81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Reference Value = 4.635 V/m; **Power Drift = 0.204 dB**

**Fast SAR: SAR(1g) = 0.947 W/kg; SAR(10g) = 0.414 W/kg**  
Maximum value of SAR (interpolated) = 1.31 W/kg


**Mobile Hot Spot MSL - LTE 7/10mm Device Back - LTE band**  
**7\_chan20850\_20MHz\_BW\_RB100\_Offset\_Low\_amb\_temp\_23.7C\_liq\_temp\_21.8C/Zoom Scan**  
**(31x31x36)/Cube 0:** Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
Reference Value = 4.635 V/m; **Power Drift = 0.204 dB**

**Averaged SAR: SAR(1g) = 0.982 W/kg; SAR(10g) = 0.432 W/kg**  
Maximum value of SAR (interpolated) = 2.14 W/kg



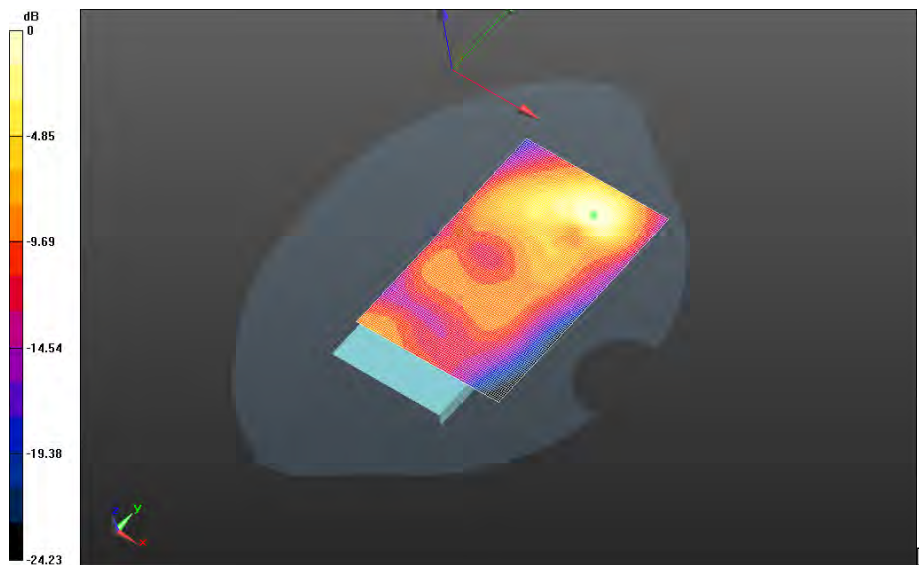
0 dB = 1.30 W/kg = 1.14 dBW/kg



		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>112(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>


**Mobile Hot Spot MSL - LTE 7/10mm Device Front - LTE band**  
**7\_chan20850\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.6C\_liq\_temp\_21.8C/Area Scan**  
**(81x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm**  
 Reference Value = 6.564 V/m; **Power Drift = 0.00143 dB**

**Fast SAR: SAR(1g) = 0.514 W/kg; SAR(10g) = 0.251 W/kg**  
 Maximum value of SAR (interpolated) = 0.691 W/kg



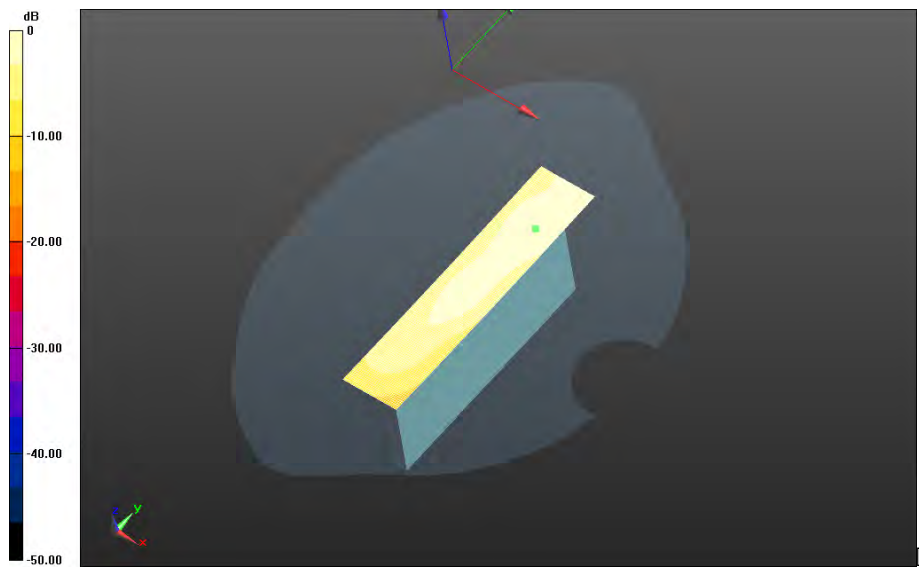
0 dB = 0.691 W/kg = -1.61 dBW/kg




		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>113(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE 7/10mm Device Left - LTE band**  
**7\_chan20850\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.6C\_liq\_temp\_21.7C/Area Scan**  
**(151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm**  
 Reference Value = 8.579 V/m; **Power Drift = 0.093 dB**

**Fast SAR: SAR(1g) = 0.167 W/kg; SAR(10g) = 0.0892 W/kg**  
 Maximum value of SAR (interpolated) = 0.211 W/kg



0 dB = 0.211 W/kg = -6.76 dBW/kg

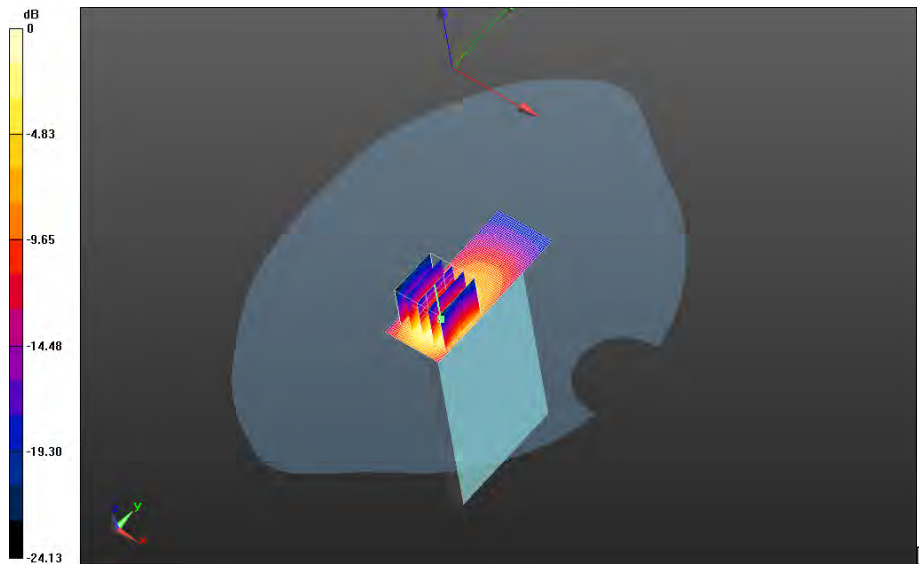
		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>114(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

**Mobile Hot Spot MSL - LTE 7/10mm Device Bottom - LTE band**  
**7\_chan20850\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_24.1C\_liq\_temp\_21.7C/Area Scan**  
**(151x201x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Reference Value = 13.412 V/m; **Power Drift = -0.058 dB**


**Fast SAR: SAR(1g) = 1.14 W/kg; SAR(10g) = 0.494 W/kg**  
Maximum value of SAR (interpolated) = 1.56 W/kg

**Mobile Hot Spot MSL - LTE 7/10mm Device Bottom - LTE band**  
**7\_chan20850\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_24.1C\_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 = 13.412 V/m; **Power Drift = -0.058 dB**

**Averaged SAR: SAR(1g) = 1.17 W/kg; SAR(10g) = 0.506 W/kg**  
Maximum value of SAR (interpolated) = 2.57 W/kg



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

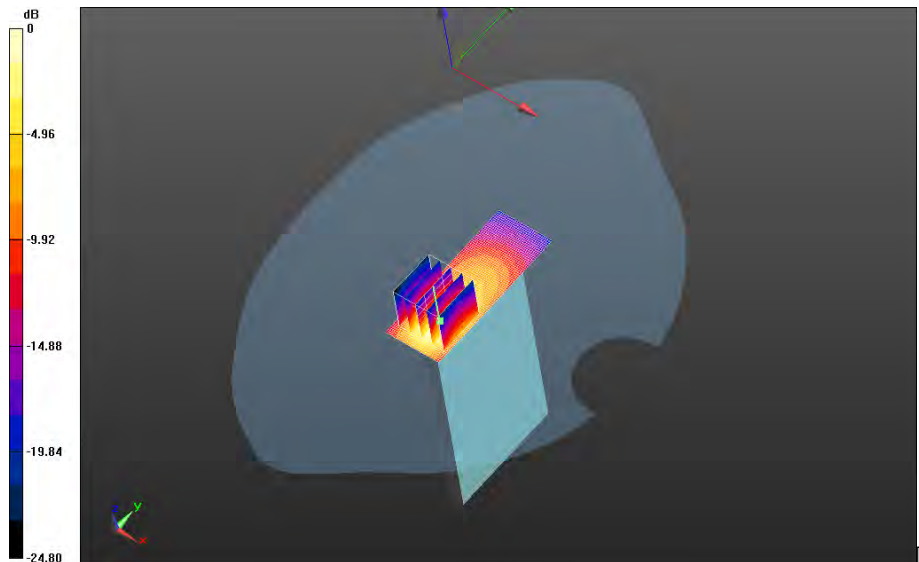
		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>115(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

**Mobile Hot Spot MSL - LTE 7/10mm Device Bottom - LTE band**  
**7\_chan21100\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_24.1C\_liq\_temp\_21.7C/Area Scan**  
**(151x201x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Reference Value = 13.425 V/m; **Power Drift = 0.00644 dB**


**Fast SAR: SAR(1g) = 1.14 W/kg; SAR(10g) = 0.495 W/kg**  
Maximum value of SAR (interpolated) = 1.58 W/kg

**Mobile Hot Spot MSL - LTE 7/10mm Device Bottom - LTE band**  
**7\_chan21100\_20MHz\_BW\_RB1\_Offset\_High\_amb\_temp\_24.1C\_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 = 13.425 V/m; **Power Drift = 0.00644 dB**

**Averaged SAR: SAR(1g) = 1.17 W/kg; SAR(10g) = 0.501 W/kg**  
Maximum value of SAR (interpolated) = 2.62 W/kg



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

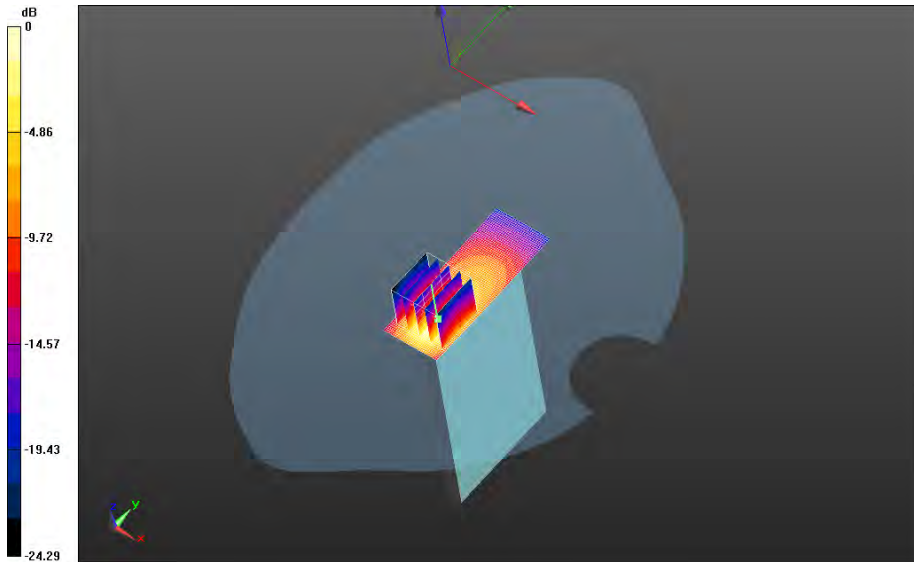
		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>116(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

**Mobile Hot Spot MSL - LTE 7/10mm Device Bottom - LTE band**  
**7\_chan21350\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_24.1C\_liq\_temp\_21.7C/Area Scan**  
**(151x201x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Reference Value = 13.771 V/m; **Power Drift = -0.051 dB**


**Fast SAR: SAR(1g) = 1.21 W/kg; SAR(10g) = 0.526 W/kg**  
Maximum value of SAR (interpolated) = 1.68 W/kg

**Mobile Hot Spot MSL - LTE 7/10mm Device Bottom - LTE band**  
**7\_chan21350\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_24.1C\_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 = 13.771 V/m; **Power Drift = -0.051 dB**

**Averaged SAR: SAR(1g) = 1.26 W/kg; SAR(10g) = 0.537 W/kg**  
Maximum value of SAR (interpolated) = 2.84 W/kg



0 dB = 1.47 W/kg = 1.67 dBW/kg

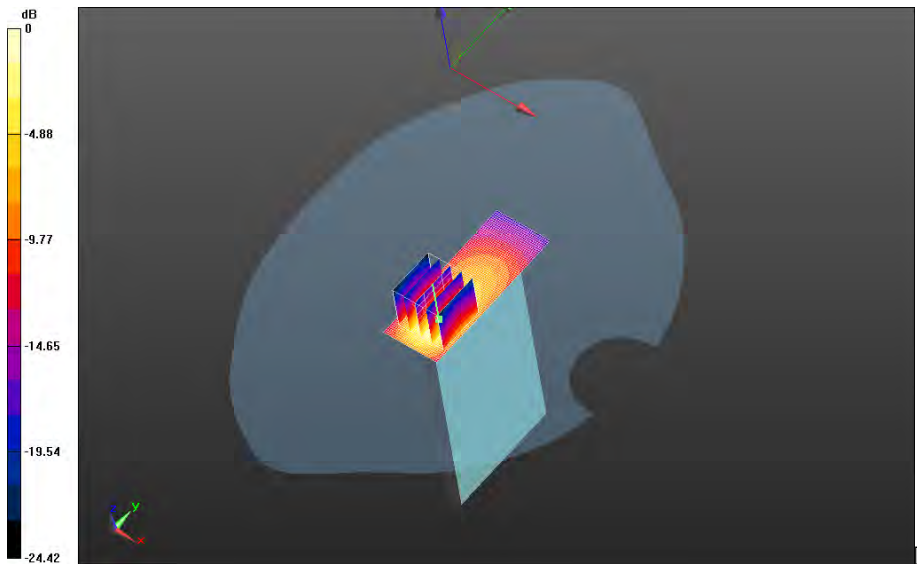
		Document <b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW          (STR100-2) SAR Report</b>		Page <b>117(118)</b>
		Author Data <b>Andrew Becker</b>	Dates of Test <b>Jan 29 –Mar 09, 2015</b>	Test Report No <b>RTS-6063-1503-15</b>

**Mobile Hot Spot MSL - LTE 7/Headset 10mm Device Bottom - LTE band  
7\_chan21350\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.9C\_liq\_temp\_21.7C/Area Scan  
(151x201x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Reference Value = 14.283 V/m; **Power Drift = -0.075 dB**


**Fast SAR: SAR(1g) = 1.27 W/kg; SAR(10g) = 0.543 W/kg**  
Maximum value of SAR (interpolated) = 1.77 W/kg

**Mobile Hot Spot MSL - LTE 7/Headset 10mm Device Bottom - LTE band  
7\_chan21350\_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 = 14.283 V/m; **Power Drift = -0.075 dB**

**Averaged SAR: SAR(1g) = 1.29 W/kg; SAR(10g) = 0.555 W/kg**  
Maximum value of SAR (interpolated) = 2.83 W/kg



0 dB = 1.49 W/kg = 1.73 dBW/kg

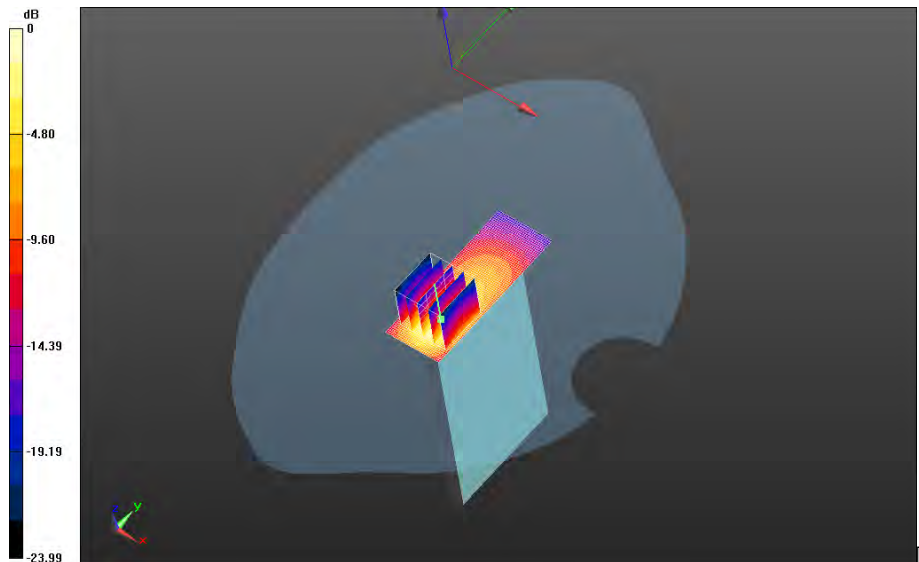
		Document		Page
		<b>Appendix C1 for the BlackBerry® Smartphone Model RHC161LW (STR100-2) SAR Report</b>		<b>118(118)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC
<b>Andrew Becker</b>	<b>Jan 29 –Mar 09, 2015</b>	<b>RTS-6063-1503-15</b>	<b>L6ARHC160LW</b>	<b>2503A-RHC160LW</b>

**Mobile Hot Spot MSL - LTE 7/2nd Scan Headset 10mm Device Bottom - LTE band  
7\_chan21350\_20MHz\_BW\_RB1\_Offset\_Low\_amb\_temp\_23.9C\_liq\_temp\_21.7C/Area Scan  
(151x201x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Reference Value = 14.323 V/m; **Power Drift = -0.037 dB**

**Fast SAR: SAR(1g) = 1.27 W/kg; SAR(10g) = 0.545 W/kg**  
Maximum value of SAR (interpolated) = 1.76 W/kg

**Mobile Hot Spot MSL - LTE 7/2nd Scan Headset 10mm Device Bottom - LTE band  
7\_chan21350\_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 = 14.323 V/m; **Power Drift = -0.037 dB**

**Averaged SAR: SAR(1g) = 1.28 W/kg; SAR(10g) = 0.553 W/kg**  
Maximum value of SAR (interpolated) = 2.81 W/kg



0 dB = 1.49 W/kg = 1.73 dBW/kg