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**APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION**

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Date/Time: 7/27/2010 1:45:07 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_EDGE850\_mid\_chan\_Amb\_Tem\_22.9\_Liq\_Tem\_22.5C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.899$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.117 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.33 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.136 W/kg

**SAR(1 g) = 0.107 mW/g; SAR(10 g) = 0.081 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.112 mW/g

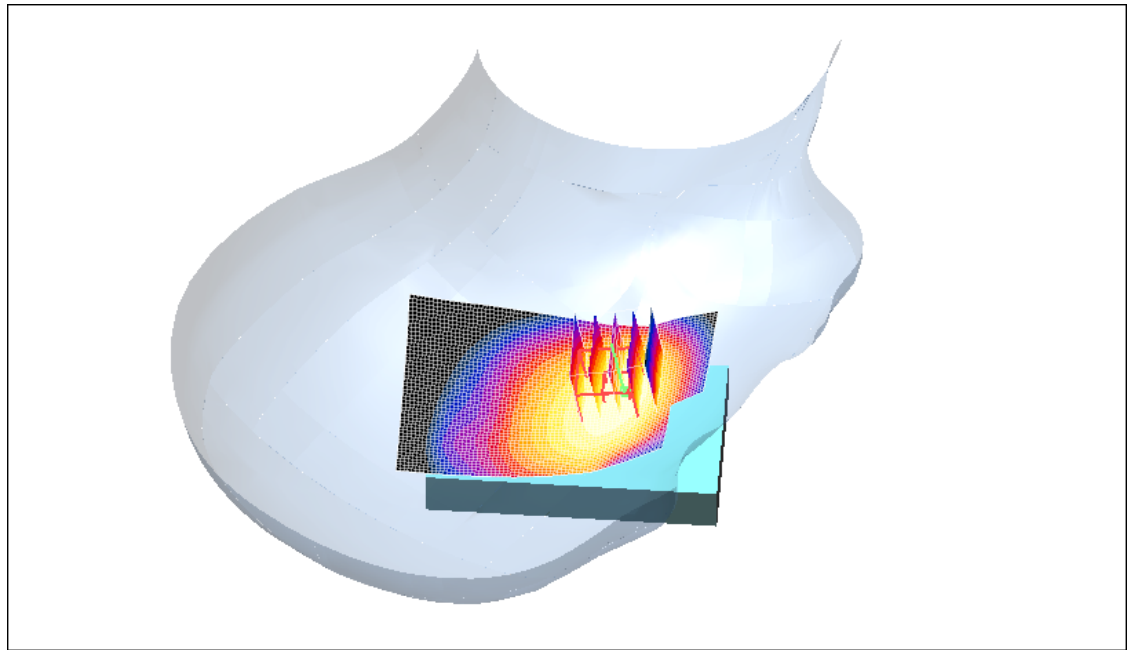
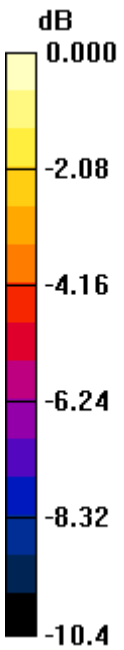
Author Data  
**Andrew Becker**

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0 dB = 0.112mW/g

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Test Laboratory: RIM Testing Services

**RightHandSide\_EDGE850\_Slide\_Open\_mid\_chan\_Amb\_Tem\_22.8\_Liq  
\_Tem\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.899$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.133 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.91 V/m; Power Drift = 0.082 dB

Peak SAR (extrapolated) = 0.162 W/kg

**SAR(1 g) = 0.124 mW/g; SAR(10 g) = 0.095 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.131 mW/g

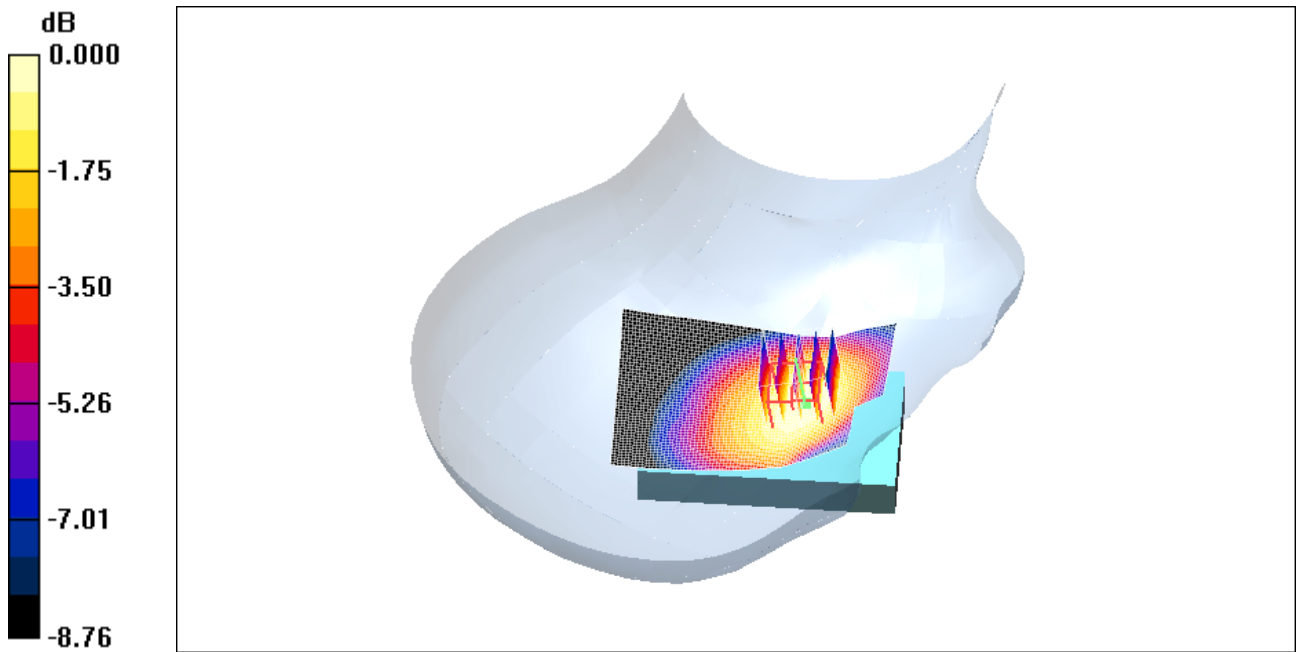
Author Data  
**Andrew Becker**

Dates of Test  
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0 dB = 0.131mW/g

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Date/Time: 7/27/2010 2:17:03 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_Tilt\_EDGE850\_Slide\_Open\_mid\_chan\_Amb\_Tem\_22.7  
\_Liq\_Tem\_22.3C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.899$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.105 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.01 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 0.121 W/kg

**SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.077 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.105 mW/g

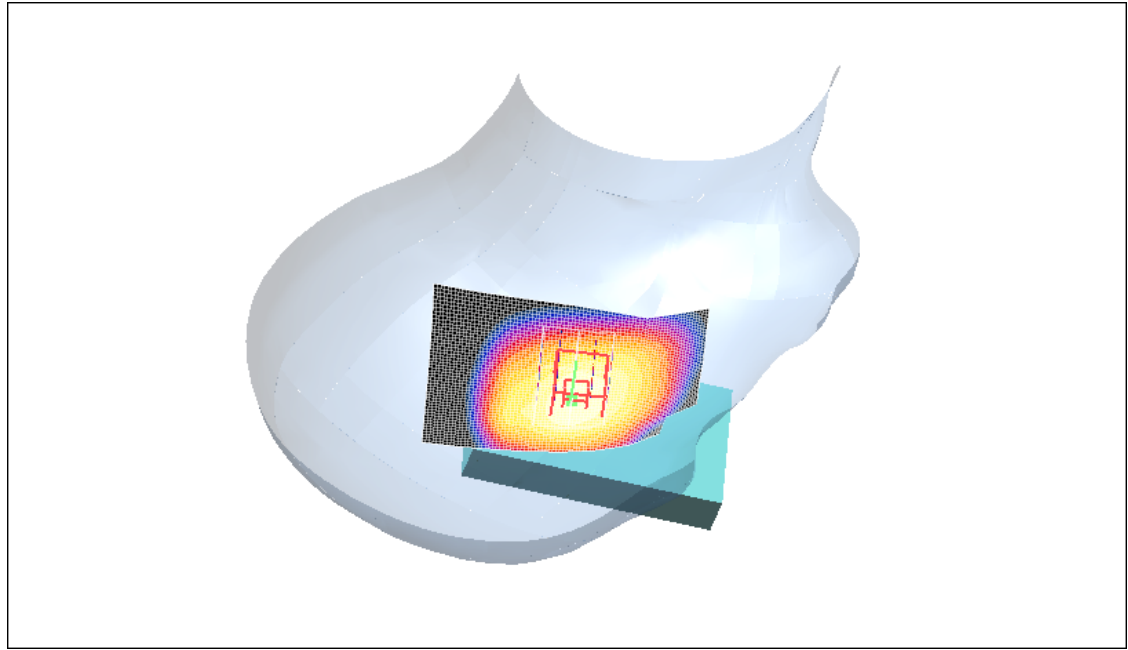
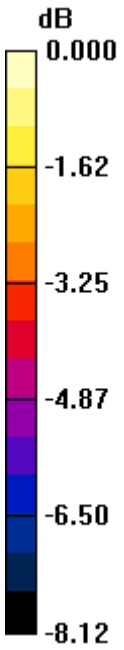
Author Data  
**Andrew Becker**

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0 dB = 0.105mW/g

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Test Laboratory: RIM Testing Services

## RightHandSide\_GSM850\_Slide\_Open\_mid\_chan\_Amb\_Tem\_22.6\_Liq\_Tem\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.899$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.149 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.90 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.181 W/kg

**SAR(1 g) = 0.138 mW/g; SAR(10 g) = 0.106 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.145 mW/g



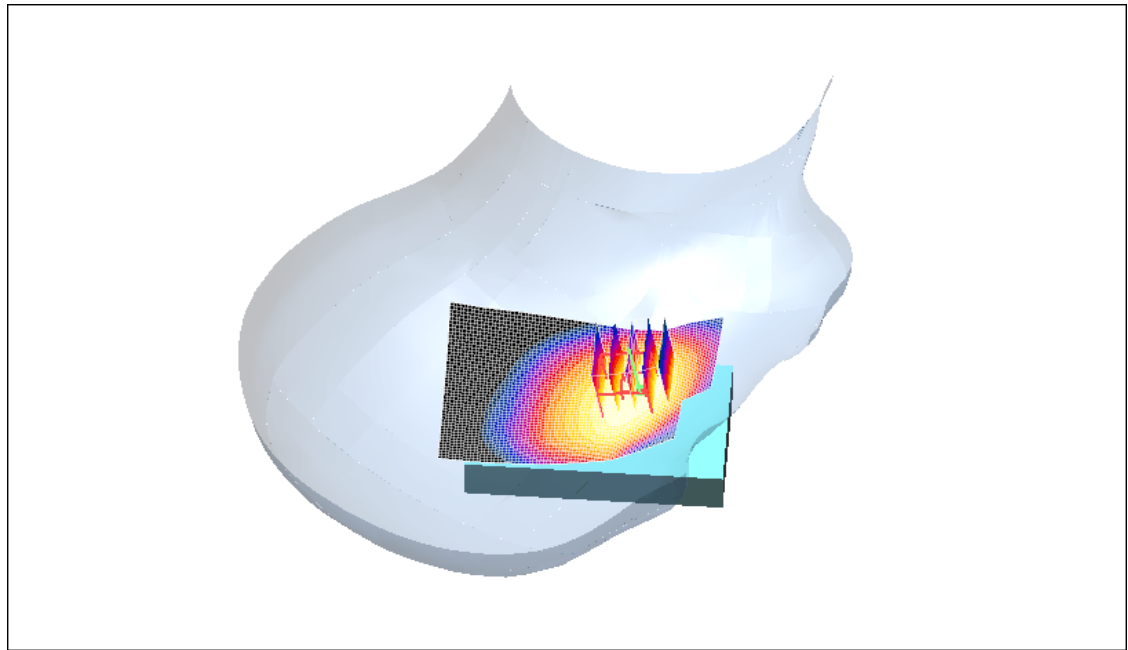
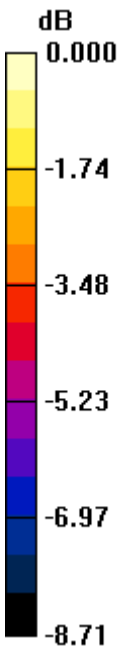
Author Data  
**Andrew Becker**

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0 dB = 0.145mW/g

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Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE850\_mid\_chan\_Amb\_Tem\_22.8\_Liq\_Tem\_22.4\_C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.899$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.109 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.89 V/m; Power Drift = 0.452 dB

Peak SAR (extrapolated) = 0.131 W/kg

**SAR(1 g) = 0.102 mW/g; SAR(10 g) = 0.076 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.106 mW/g

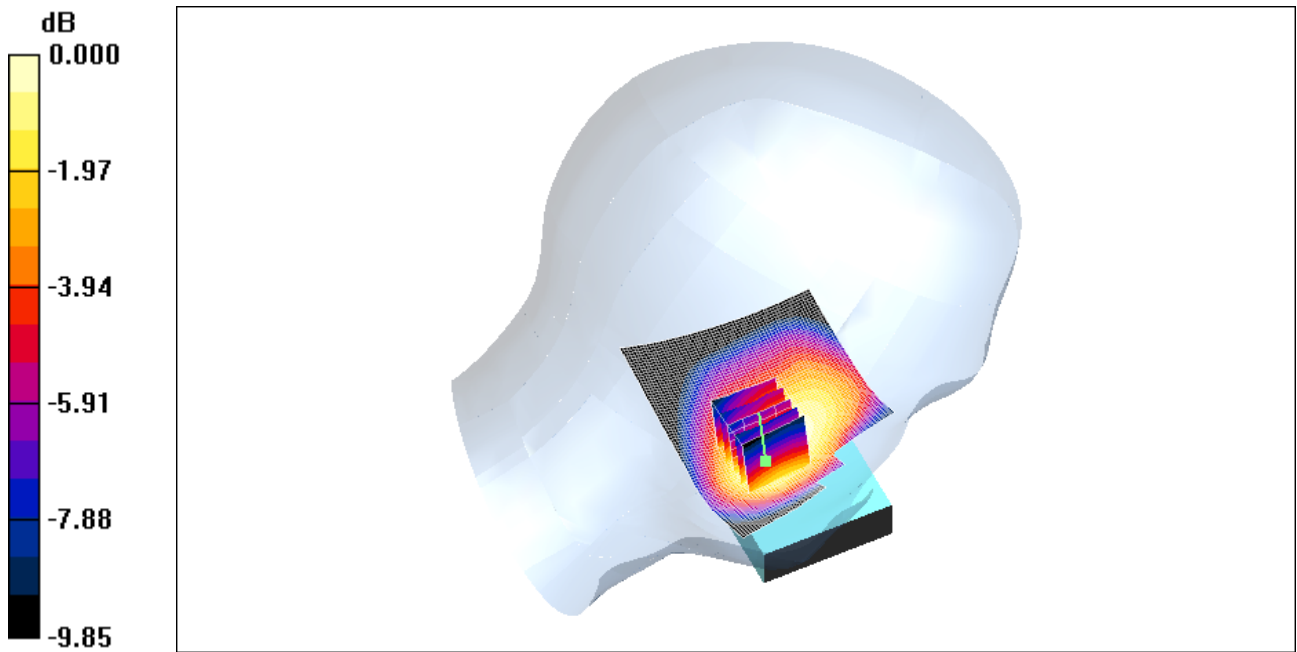
Author Data  
**Andrew Becker**

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0 dB = 0.106mW/g

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Date/Time: 7/27/2010 12:41:20 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_EDGE850\_Slide\_Open\_mid\_chan\_Amb\_Tem\_22.9\_Liq\_Tem\_22.5\_C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.899$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.118 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.90 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 0.134 W/kg

**SAR(1 g) = 0.111 mW/g; SAR(10 g) = 0.088 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.115 mW/g

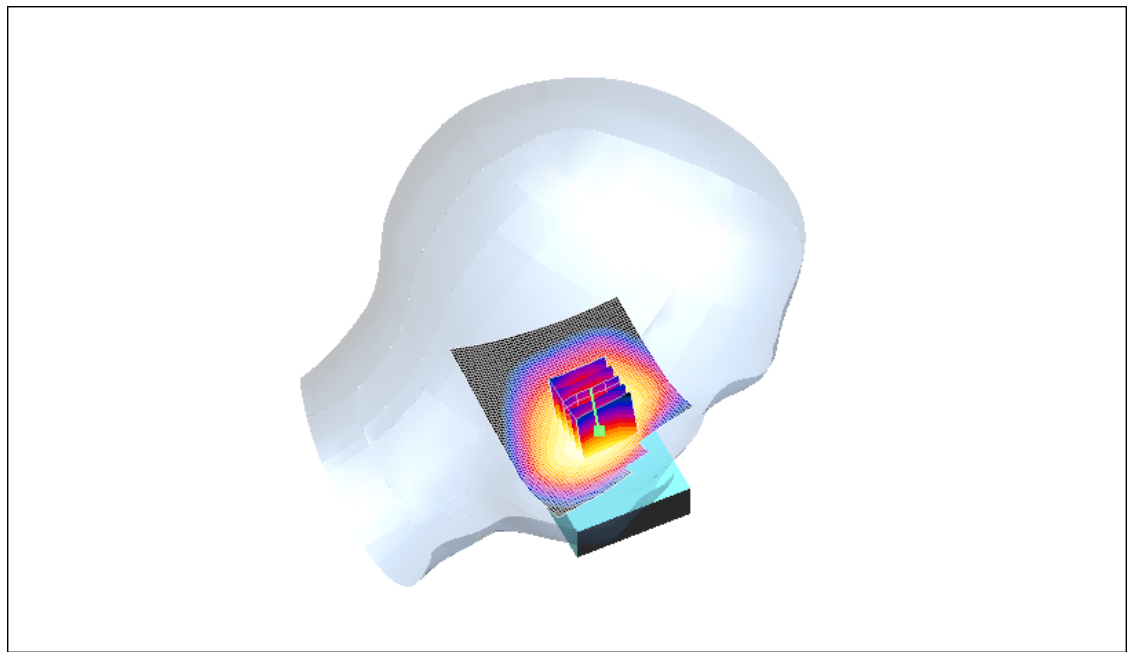
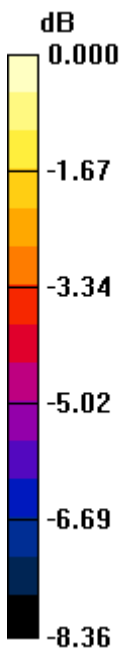
Author Data  
**Andrew Becker**

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0 dB = 0.115mW/g

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Date/Time: 7/27/2010 1:28:12 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_Tilt\_EDGE850\_Slide\_Open\_mid\_chan\_Amb\_Tem\_22.7\_L  
iq\_Tem\_22.3\_C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.899$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.090 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.40 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 0.107 W/kg

**SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.067 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.091 mW/g

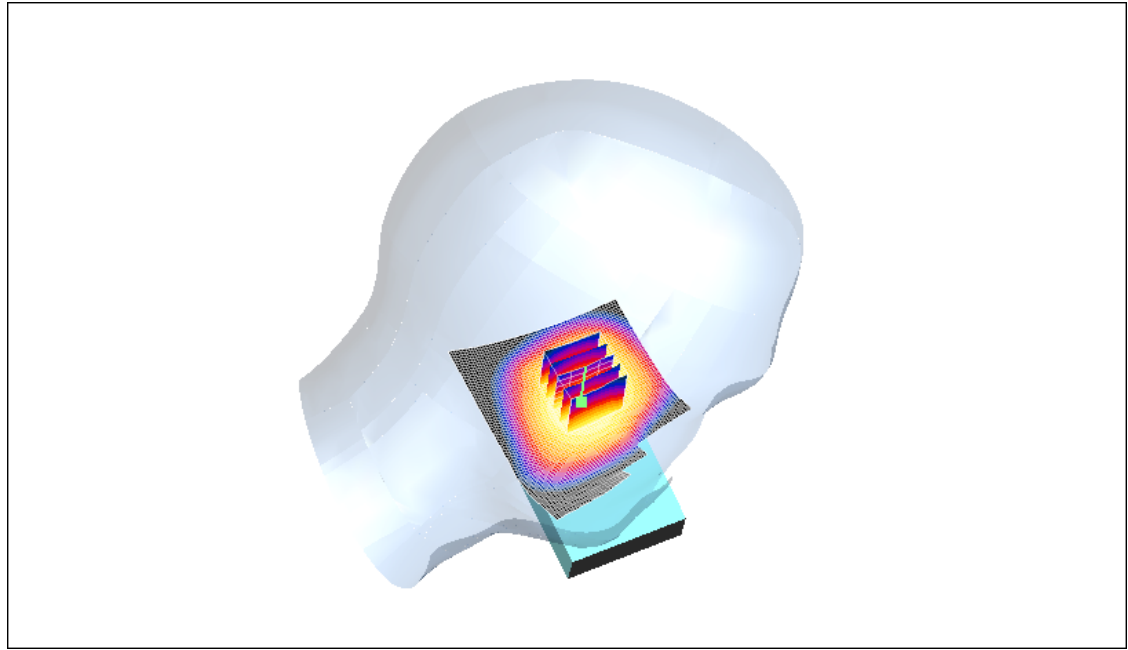
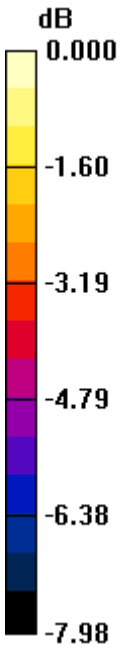
Author Data  
**Andrew Becker**

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0 dB = 0.091mW/g

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Date/Time: 7/19/2010 6:46:26 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_EDGE1900\_mid\_chan\_Amb\_Tem\_23.0\_Liq\_Tem\_22.4**

**C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section


DASY4 Configuration:

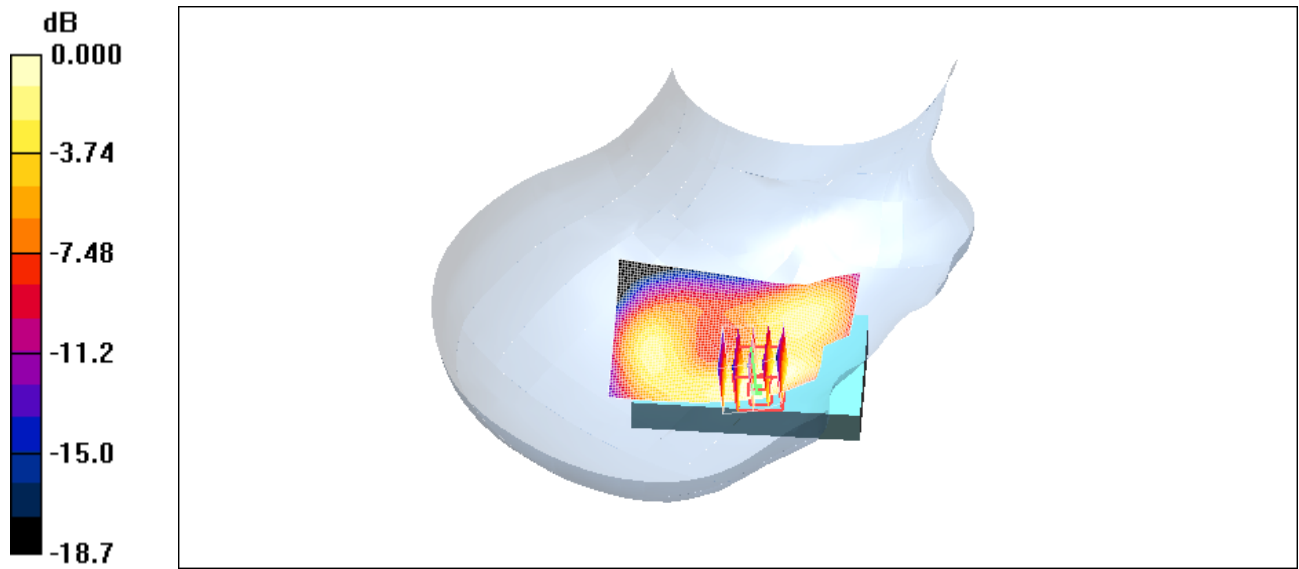
- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.390 mW/g


**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 14.1 V/m; Power Drift = -0.182 dB  
Peak SAR (extrapolated) = 0.606 W/kg  
**SAR(1 g) = 0.380 mW/g; SAR(10 g) = 0.232 mW/g**  
Maximum value of SAR (measured) = 0.418 mW/g



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0 dB = 0.418mW/g

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Date/Time: 7/19/2010 7:02:45 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_EDGE1900\_Slide\_Open\_mid\_chan\_Amb\_Tem\_22.8\_Li  
q\_Tem\_22.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.252 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 9.83 V/m; Power Drift = -0.040 dB  
Peak SAR (extrapolated) = 0.397 W/kg  
**SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.161 mW/g**  
Maximum value of SAR (measured) = 0.281 mW/g

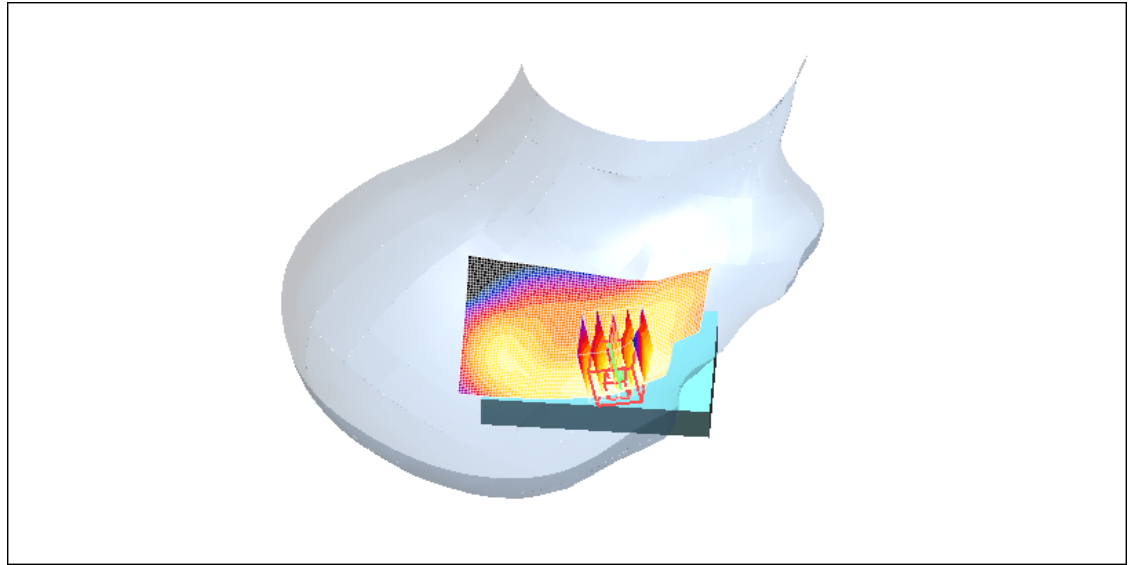
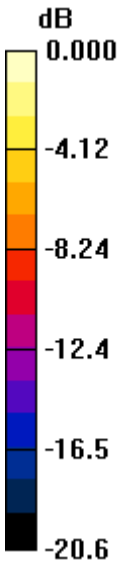
Author Data  
**Andrew Becker**

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0 dB = 0.281mW/g

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Date/Time: 7/19/2010 7:20:45 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_Tilt\_EDGE1900\_mid\_chan\_Amb\_Tem\_22.7\_Liq\_Tem\_2 2.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**


Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.45 \text{ mho/m}$ ;  $\epsilon_r = 40.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section

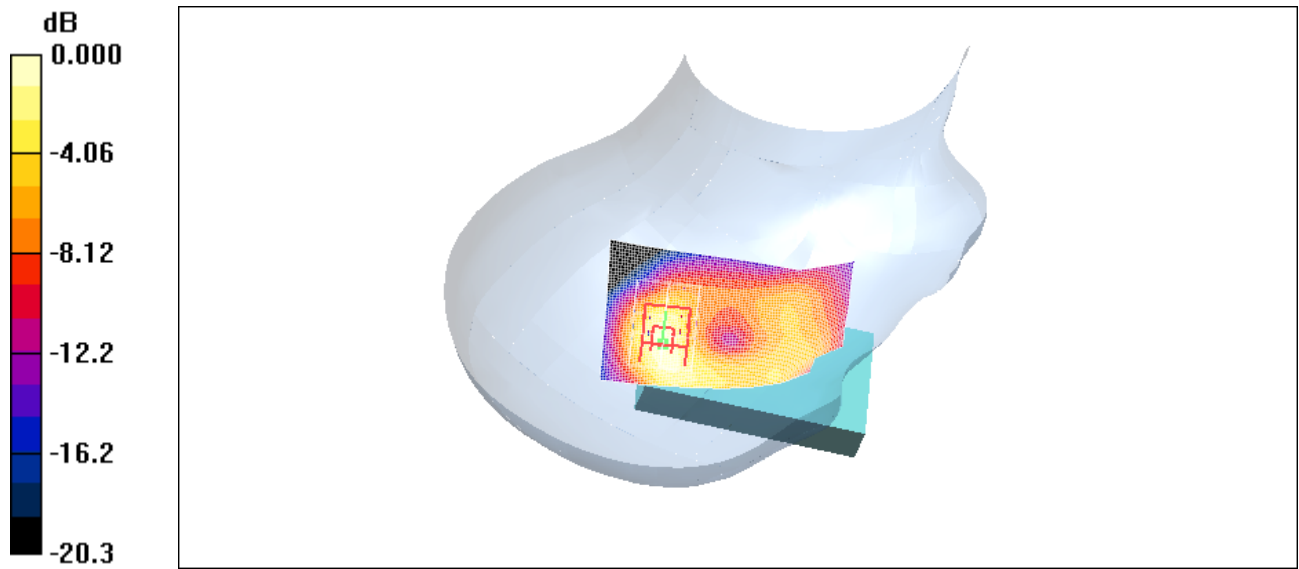
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**Touch position -/Area Scan (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.463 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
 $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 16.5 V/m; Power Drift = 0.215 dB  
Peak SAR (extrapolated) = 0.687 W/kg  
**SAR(1 g) = 0.418 mW/g; SAR(10 g) = 0.232 mW/g**  
Maximum value of SAR (measured) = 0.471 mW/g

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0 dB = 0.471mW/g

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Date/Time: 7/19/2010 7:36:35 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE1900\_mid\_chan\_Amb\_Tem\_22.8\_Liq\_Tem\_22.2\_C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**


Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

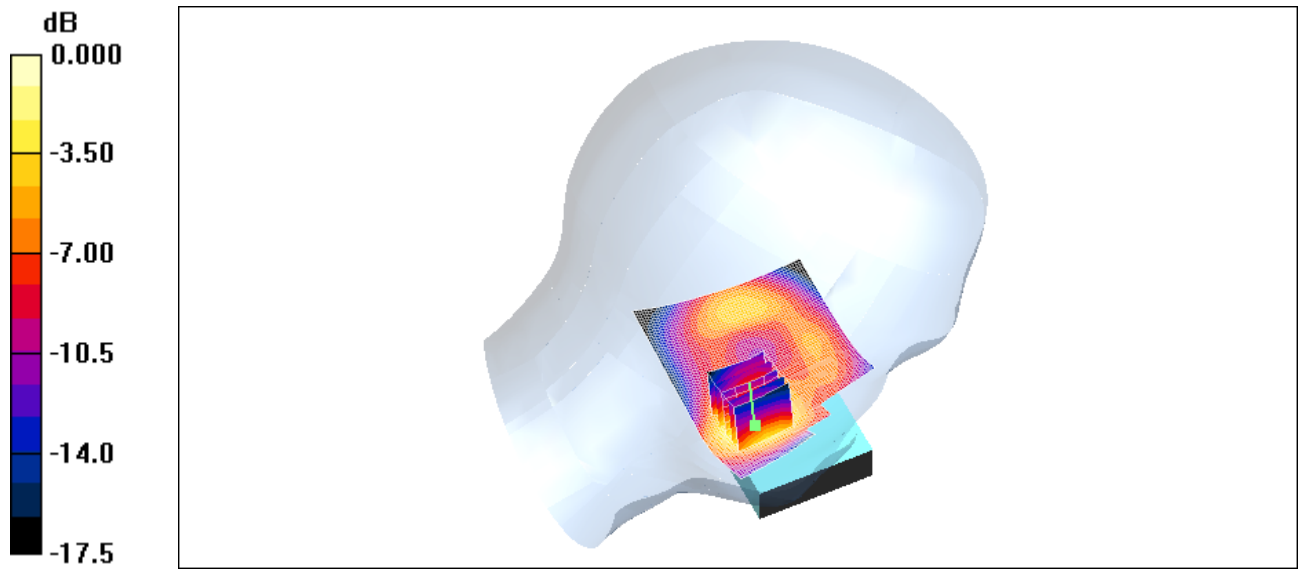
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.719 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 14.5 V/m; Power Drift = 0.045 dB  
Peak SAR (extrapolated) = 0.913 W/kg  
**SAR(1 g) = 0.616 mW/g; SAR(10 g) = 0.371 mW/g**  
Maximum value of SAR (measured) = 0.677 mW/g

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0 dB = 0.677mW/g

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Date/Time: 7/19/2010 8:20:03 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_EDGE1900\_Slide\_Open\_mid\_chan\_Amb\_Tem\_22.7\_Liq\_Tem\_22.1\_C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.45 \text{ mho/m}$ ;  $\epsilon_r = 40.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section


DASY4 Configuration:

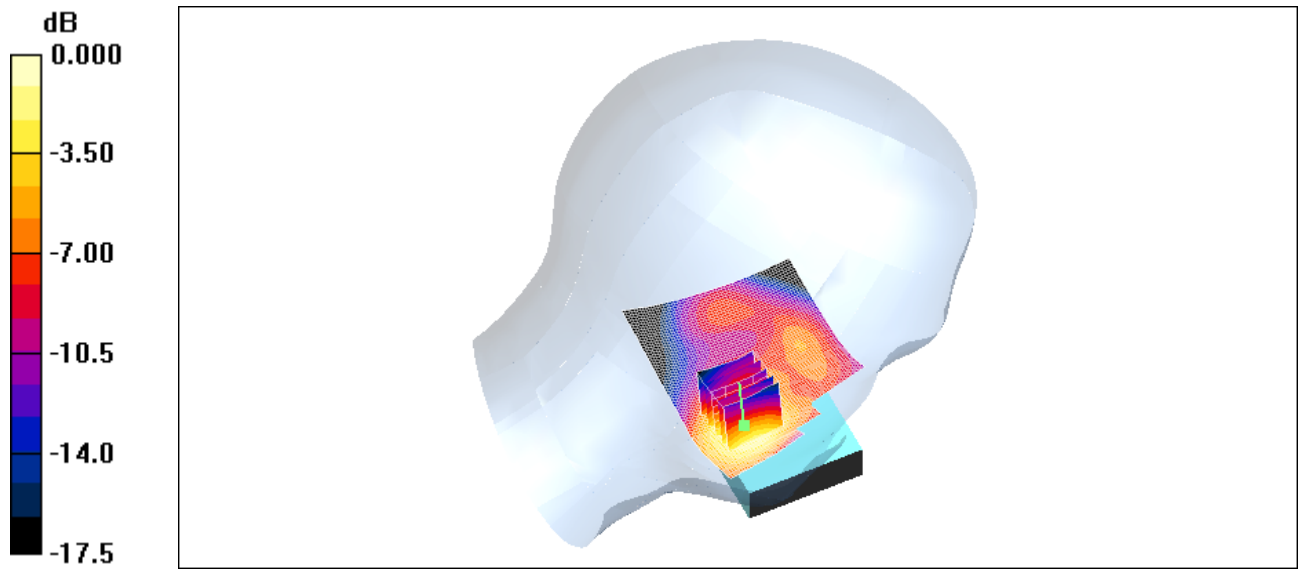
- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.541 mW/g


**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
 $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 8.25 V/m; Power Drift = 0.006 dB  
Peak SAR (extrapolated) = 0.762 W/kg  
**SAR(1 g) = 0.475 mW/g; SAR(10 g) = 0.287 mW/g**  
Maximum value of SAR (measured) = 0.523 mW/g



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0 dB = 0.523mW/g

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Date/Time: 7/19/2010 8:38:25 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_Tilt\_EDGE1900\_mid\_chan\_Amb\_Tem\_22.6\_Liq\_Tem\_22.0\_C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**


Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.45 \text{ mho/m}$ ;  $\epsilon_r = 40.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

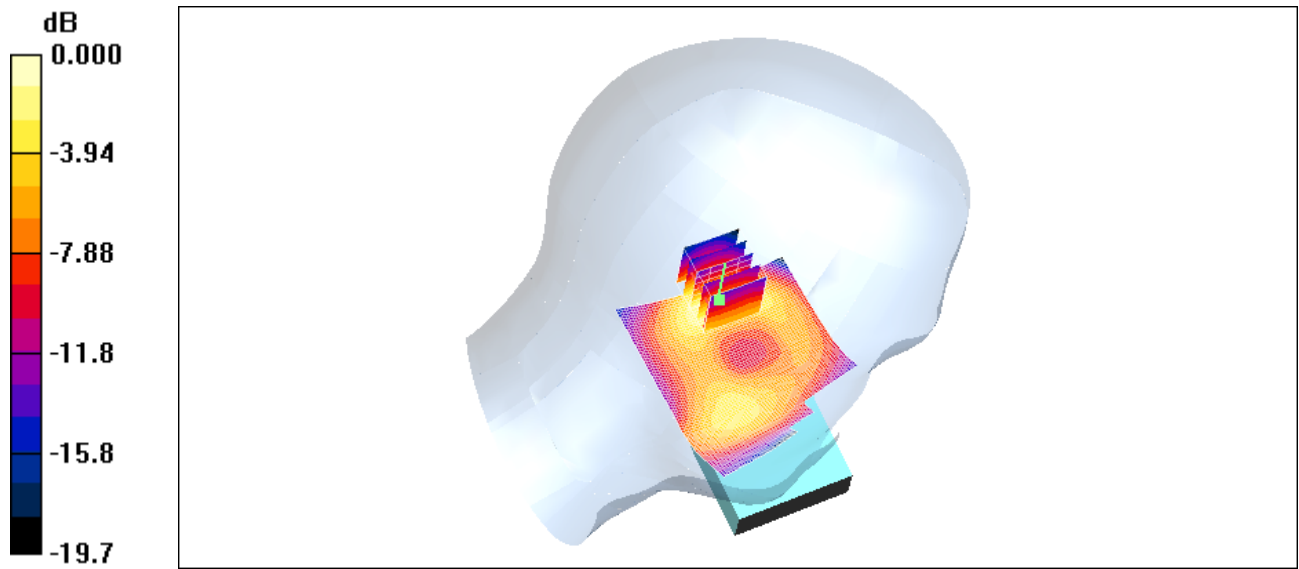
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**Touch position -/Area Scan (61x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.462 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
 $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 18.4 V/m; Power Drift = 0.105 dB  
Peak SAR (extrapolated) = 0.752 W/kg  
**SAR(1 g) = 0.444 mW/g; SAR(10 g) = 0.239 mW/g**  
Maximum value of SAR (measured) = 0.502 mW/g

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0 dB = 0.502mW/g

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Test Laboratory: RIM Testing Services

## LeftHandSide\_GSM1900\_mid\_chan\_Amb\_Tem\_22.7\_Liq\_Tem\_22.1\_C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**


Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

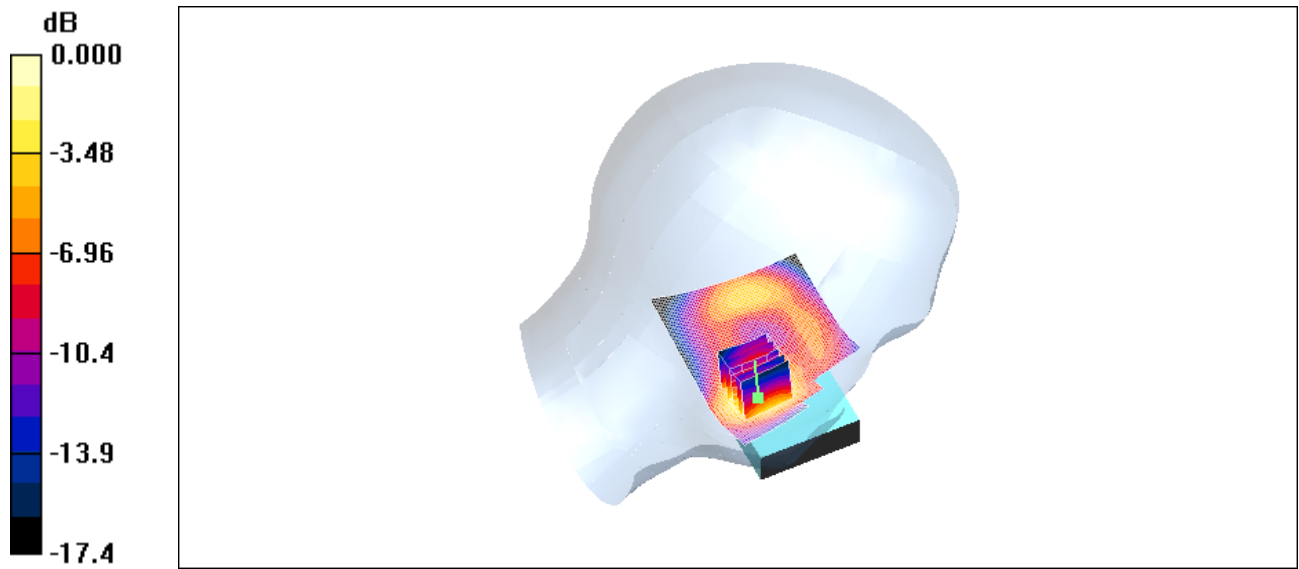
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.649 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 13.5 V/m; Power Drift = -0.020 dB  
Peak SAR (extrapolated) = 0.823 W/kg  
**SAR(1 g) = 0.550 mW/g; SAR(10 g) = 0.328 mW/g**  
Maximum value of SAR (measured) = 0.604 mW/g

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0 dB = 0.604mW/g

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Test Laboratory: RIM Testing Services

## RightHandSide\_UMTS\_band\_II\_high\_chan\_Amb\_Tem\_22.4\_Liq\_Tem\_2 1.8C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 40.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.607 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 14.9 V/m; Power Drift = 0.131 dB

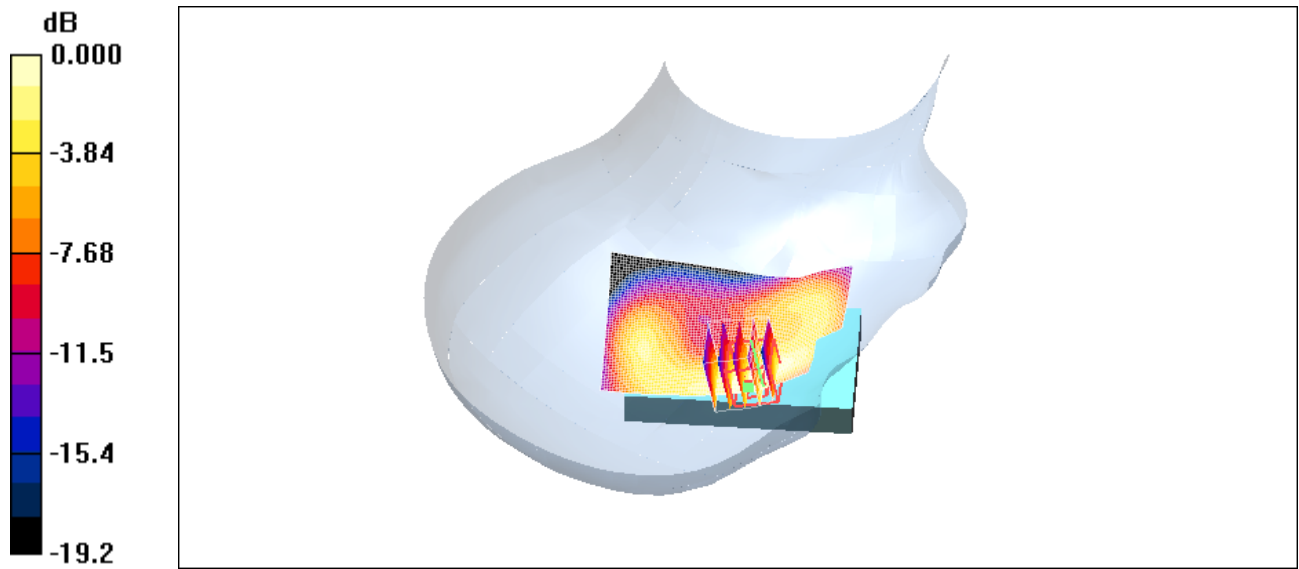
Peak SAR (extrapolated) = 0.879 W/kg

**SAR(1 g) = 0.575 mW/g; SAR(10 g) = 0.343 mW/g**


[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.609 mW/g

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0 dB = 0.609mW/g

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Date/Time: 7/19/2010 11:57:56 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_UMTS\_band\_II\_Slide\_Open\_high\_chan\_Amb\_Tem\_22. 3\_Liq\_Tem\_21.7C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 40.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.501 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.71 V/m; Power Drift = -0.057 dB


Peak SAR (extrapolated) = 0.771 W/kg

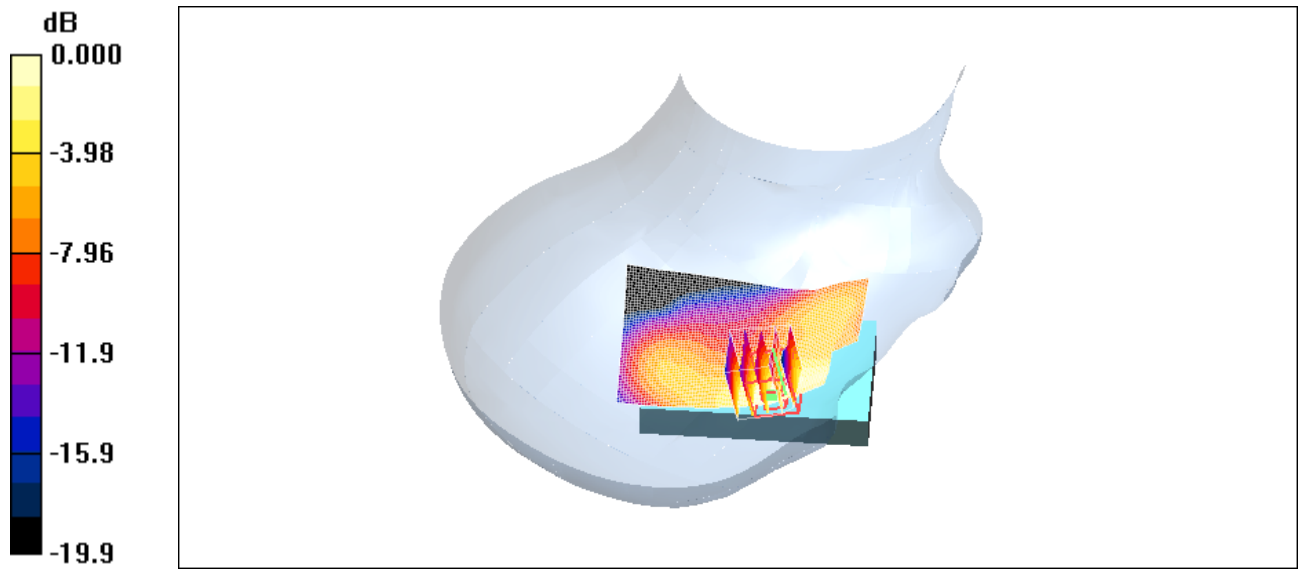
**SAR(1 g) = 0.498 mW/g; SAR(10 g) = 0.297 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)


Maximum value of SAR (measured) = 0.542 mW/g



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0 dB = 0.542mW/g

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Date/Time: 7/20/2010 12:15:53 AM

Test Laboratory: RIM Testing Services

**RightHandSide\_Tilt\_UMTS\_band\_II\_high\_chan\_Amb\_Tem\_22.3\_Liq\_Tem\_21.7C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 40.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.704 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.3 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.632 mW/g; SAR(10 g) = 0.368 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.671 mW/g

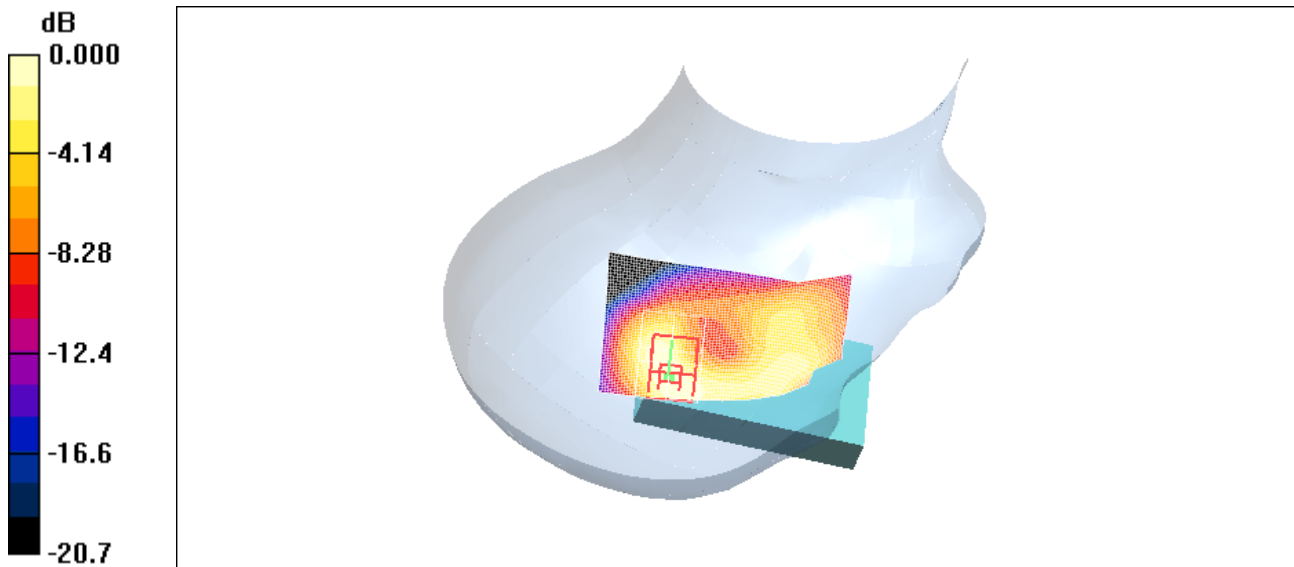
Author Data  
**Andrew Becker**

Dates of Test  
**July 19 – Aug. 6, 2010**


Test Report No  
**RTS-2337-1008-36**

FCC ID:  
**L6ARDG70UW**

IC ID  
**2503A-RDG70UW**



0 dB = 0.671mW/g

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Date/Time: 7/19/2010 9:34:45 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_UMTS\_band\_II\_low\_chan\_Amb\_Tem\_22.6\_Liq\_Tem\_22.0\_C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 40.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.29 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 20.3 V/m; Power Drift = -0.092 dB

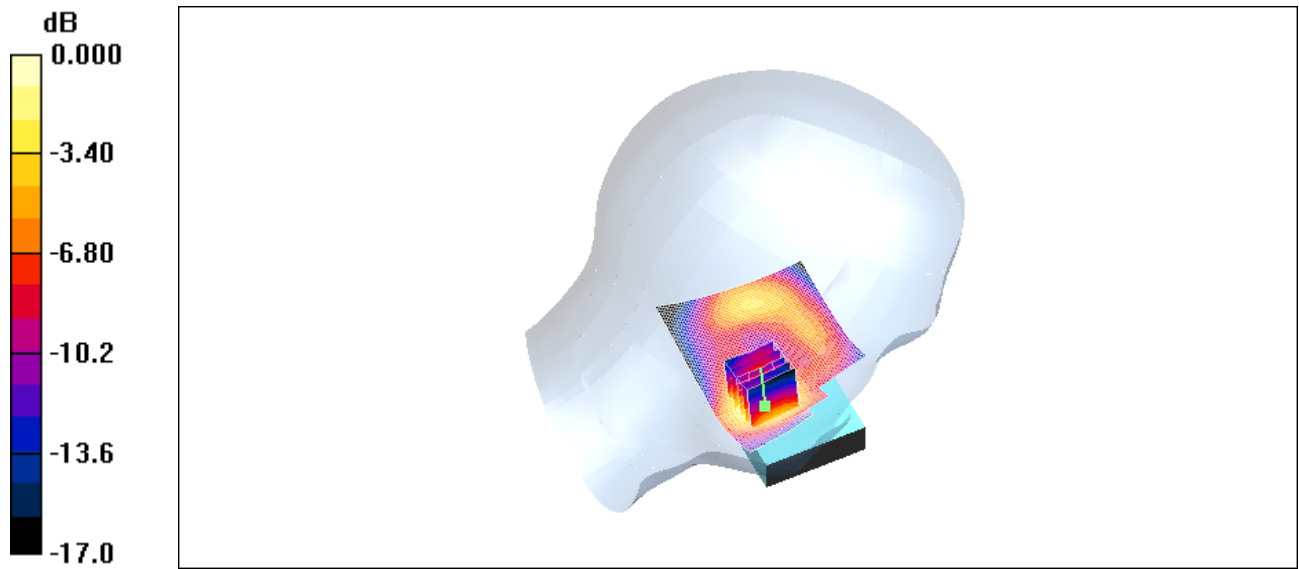
Peak SAR (extrapolated) = 1.60 W/kg

**SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.646 mW/g**


[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.15 mW/g

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0 dB = 1.15mW/g

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Date/Time: 7/19/2010 10:50:00 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_UMTS\_band\_II\_Slide\_Open\_low\_chan\_Amb\_Tem\_22.6\_Liq\_Tem\_22.0\_C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 40.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.758 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.9 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.681 mW/g; SAR(10 g) = 0.421 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.738 mW/g

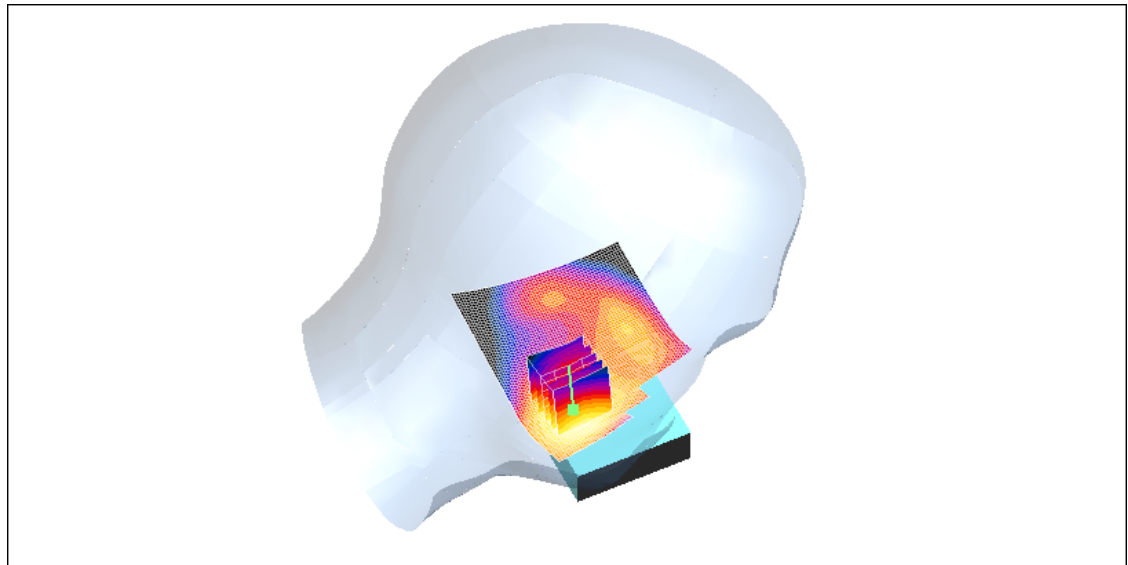
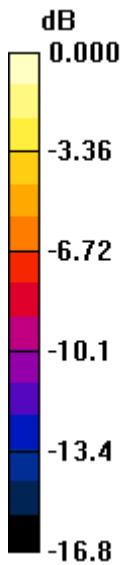
Author Data  
**Andrew Becker**

Dates of Test  
**July 19 – Aug. 6, 2010**


Test Report No  
**RTS-2337-1008-36**

FCC ID:  
**L6ARDG70UW**

IC ID  
**2503A-RDG70UW**



0 dB = 0.738mW/g

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<b>Andrew Becker</b>	<b>July 19 – Aug. 6, 2010</b>	<b>RTS-2337-1008-36</b>	<b>L6ARDG70UW</b>	<b>2503A-RDG70UW</b>

Date/Time: 7/19/2010 9:18:39 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_UMTS\_band\_II\_mid\_chan\_Amb\_Tem\_22.5\_Liq\_Tem\_21.9\_C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.24 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 19.3 V/m; Power Drift = -0.125 dB

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.625 mW/g**

Maximum value of SAR (measured) = 1.14 mW/g



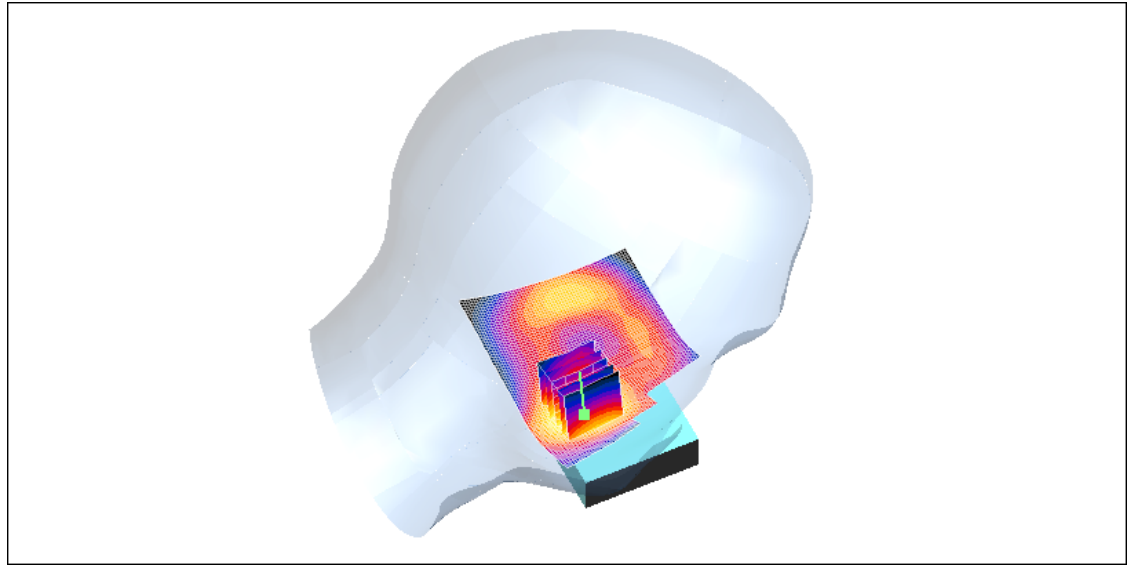
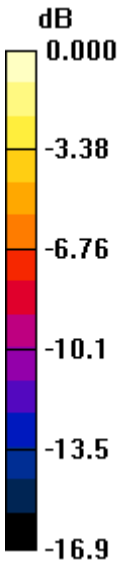
Author Data  
**Andrew Becker**

Dates of Test  
**July 19 – Aug. 6, 2010**


Test Report No  
**RTS-2337-1008-36**

FCC ID:  
**L6ARDG70UW**

IC ID  
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0 dB = 1.14mW/g

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Date/Time: 7/19/2010 10:23:06 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_UMTS\_band\_II\_Slide\_Open\_mid\_chan\_Amb\_Tem\_22.5\_Liq\_Tem\_21.9\_C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**


Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.45 \text{ mho/m}$ ;  $\epsilon_r = 40.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

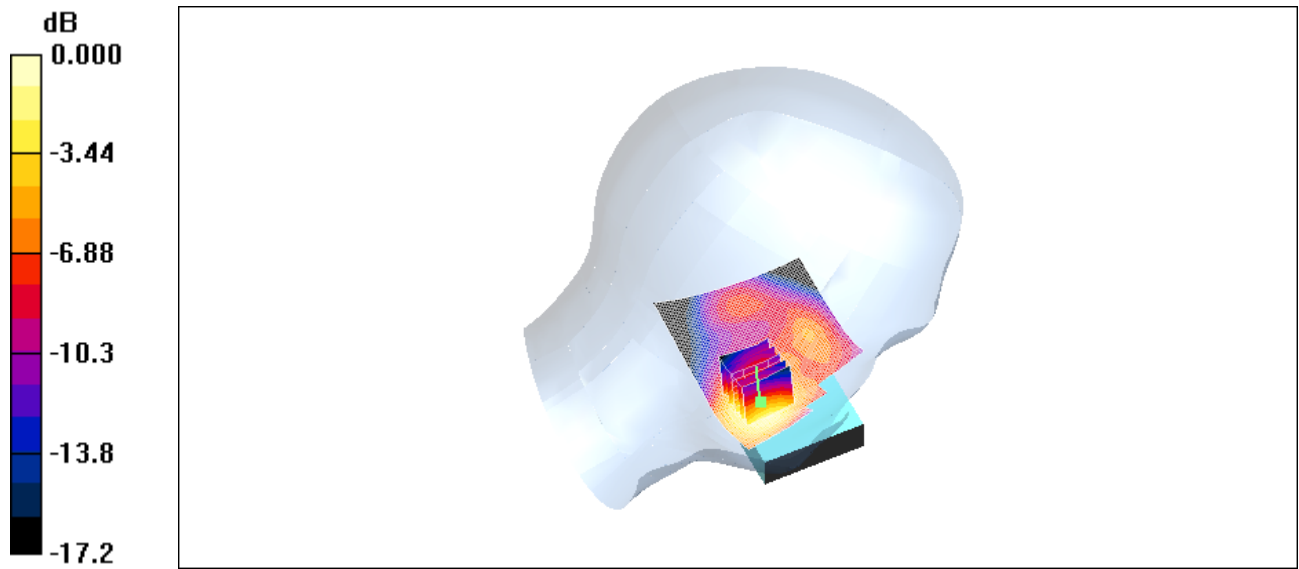
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**Touch position -/Area Scan (61x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.866 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
 $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 10.8 V/m; Power Drift = -0.059 dB  
Peak SAR (extrapolated) = 1.23 W/kg  
**SAR(1 g) = 0.776 mW/g; SAR(10 g) = 0.471 mW/g**  
Maximum value of SAR (measured) = 0.842 mW/g

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0 dB = 0.842mW/g

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Date/Time: 7/19/2010 9:49:34 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_UMTS\_band\_II\_high\_chan\_Amb\_Tem\_22.5\_Liq\_Tem\_21.9\_C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 40.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.31 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 17.8 V/m; Power Drift = -0.030 dB

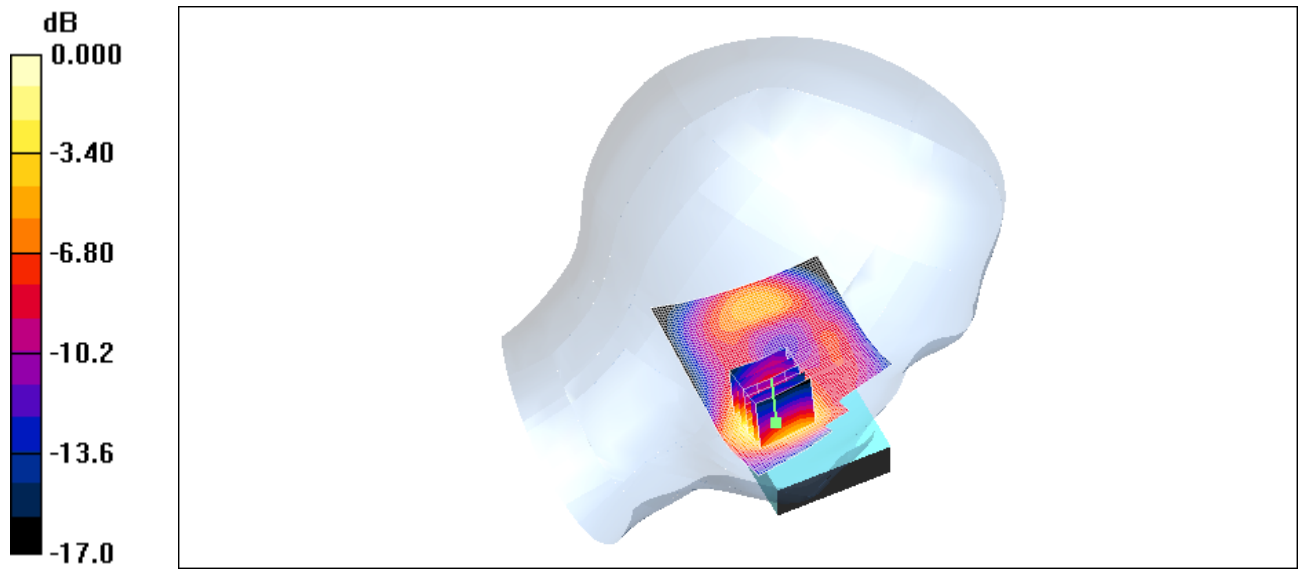
Peak SAR (extrapolated) = 1.70 W/kg

**SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.663 mW/g**


[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.23 mW/g

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0 dB = 1.23mW/g

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Date/Time: 7/19/2010 10:06:53 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_UMTS\_band\_II\_Slide\_Open\_high\_chan\_Amb\_Tem\_22.5\_Liq\_Tem\_21.9\_C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 40.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.02 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 11.4 V/m; Power Drift = 0.015 dB

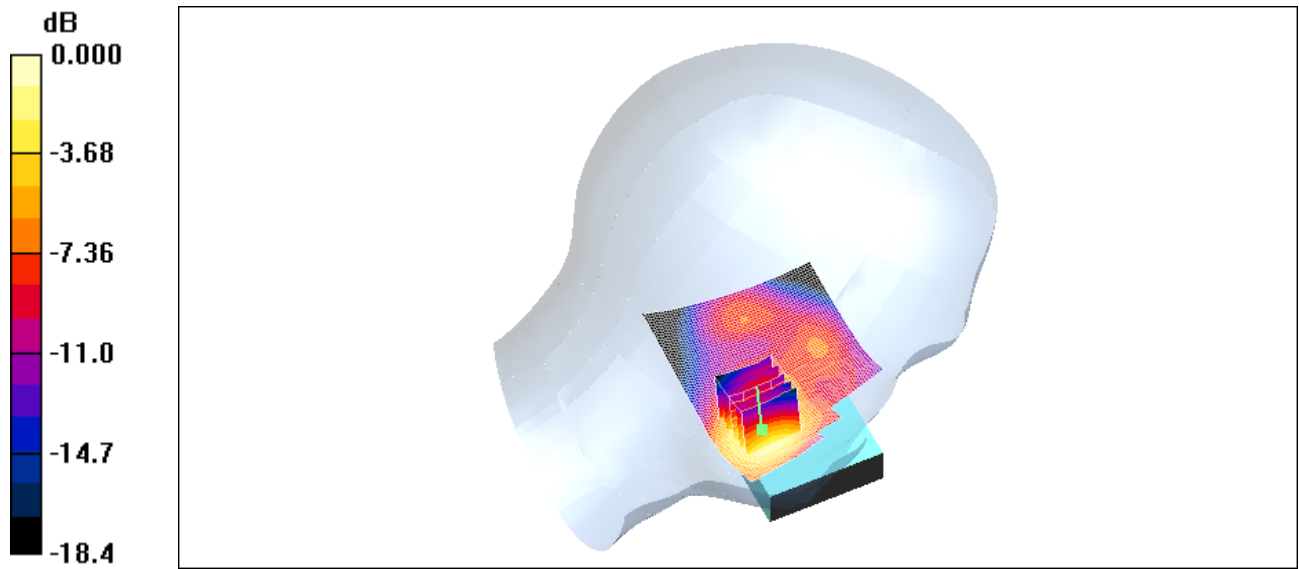
Peak SAR (extrapolated) = 1.45 W/kg

**SAR(1 g) = 0.896 mW/g; SAR(10 g) = 0.533 mW/g**


[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.993 mW/g

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0 dB = 0.993mW/g

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Date/Time: 7/19/2010 11:23:44 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_Tilt\_UMTS\_band\_II\_high\_chan\_Amb\_Tem\_22.4\_Liq\_Tem \_21.8\_C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 40.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.700 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.0 V/m; Power Drift = -0.036 dB


Peak SAR (extrapolated) = 1.09 W/kg

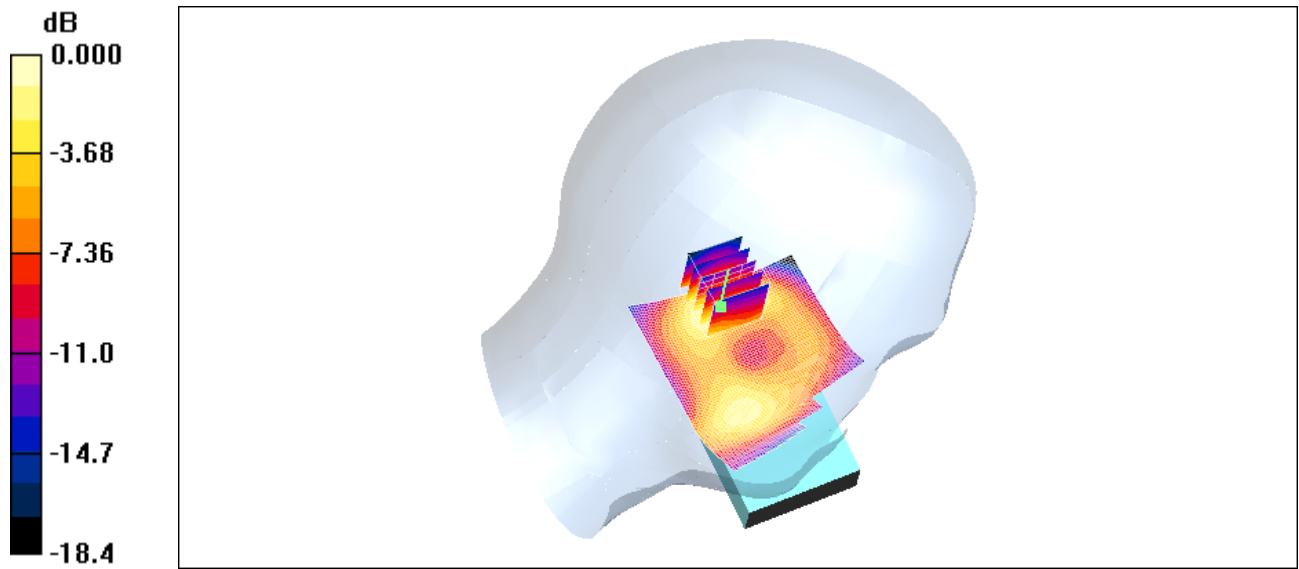
**SAR(1 g) = 0.649 mW/g; SAR(10 g) = 0.352 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)


Maximum value of SAR (measured) = 0.726 mW/g



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0 dB = 0.726mW/g

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Date/Time: 8/5/2010 1:03:44 AM

Test Laboratory: RIM Testing Services

## RightHandSide\_802.11b\_mid\_chan\_Amb\_Tem\_23.0\_Liq\_Tem\_22.3C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 40.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.132 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.35 V/m; Power Drift = 0.079 dB

Peak SAR (extrapolated) = 0.204 W/kg

**SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.067 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.128 mW/g

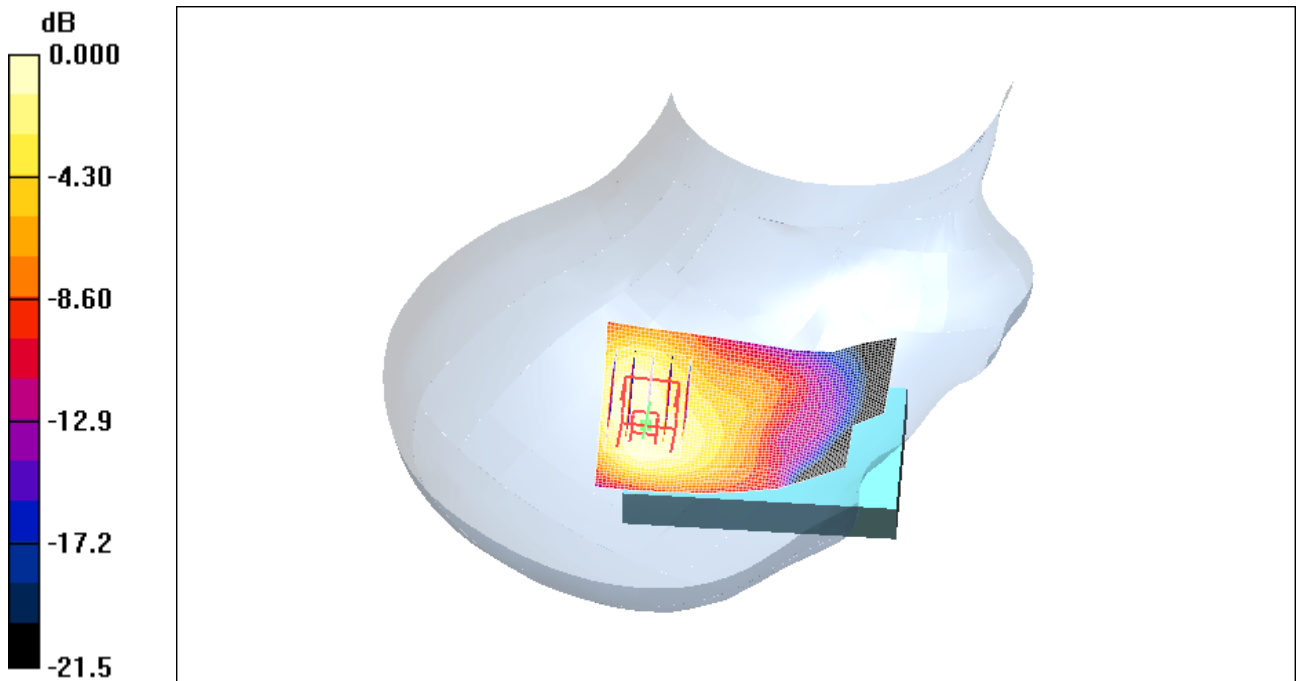
Author Data  
**Andrew Becker**

Dates of Test  
**July 19 – Aug. 6, 2010**


Test Report No  
**RTS-2337-1008-36**

FCC ID:  
**L6ARDG70UW**

IC ID  
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0 dB = 0.128mW/g

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Date/Time: 8/5/2010 1:18:19 AM

Test Laboratory: RIM Testing Services

**RightHandSide\_802.11b\_Slide\_Open\_mid\_chan\_Amb\_Tem\_22.8\_Liq\_Tem\_22.1C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 40.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.041 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.35 V/m; Power Drift = -0.009 dB

Peak SAR (extrapolated) = 0.066 W/kg

**SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.017 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.039 mW/g

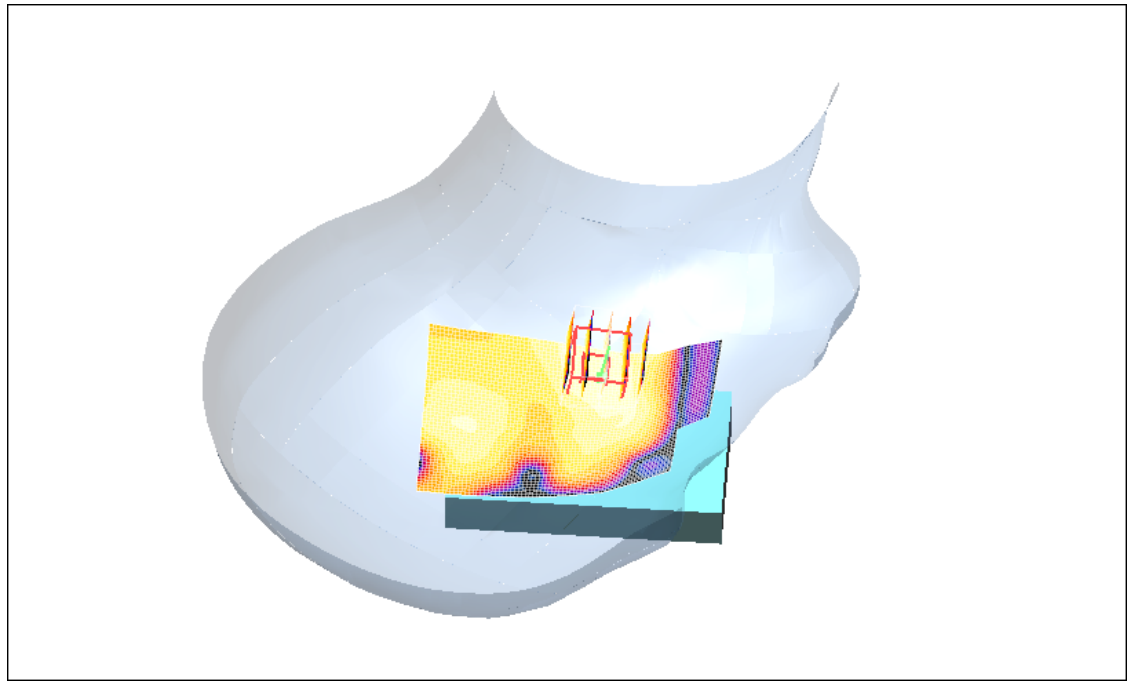
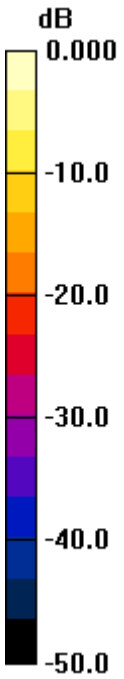
Author Data  
**Andrew Becker**

Dates of Test  
**July 19 – Aug. 6, 2010**


Test Report No  
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FCC ID:  
**L6ARDG70UW**

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0 dB = 0.039mW/g

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Date/Time: 8/5/2010 1:34:08 AM

Test Laboratory: RIM Testing Services

## RightHandSide\_Tilt\_802.11b\_mid\_chan\_Amb\_Tem\_22.7\_Liq\_Tem\_22.0 C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 40.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.179 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.64 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.294 W/kg

**SAR(1 g) = 0.161 mW/g; SAR(10 g) = 0.083 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.172 mW/g

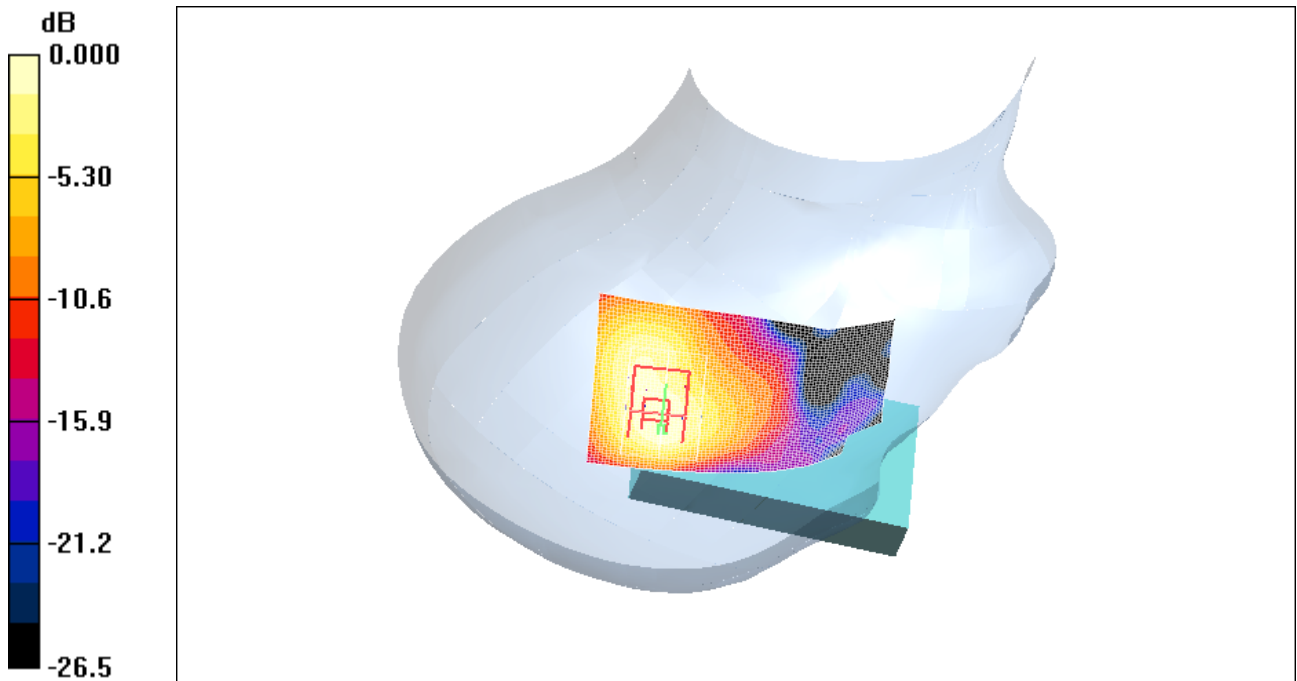
Author Data  
**Andrew Becker**

Dates of Test  
**July 19 – Aug. 6, 2010**


Test Report No  
**RTS-2337-1008-36**

FCC ID:  
**L6ARDG70UW**

IC ID  
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0 dB = 0.172mW/g

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Date/Time: 8/5/2010 12:23:32 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_802.11b\_low\_chan\_Amb\_Tem\_22.0\_Liq\_Tem\_21.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.149 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.60 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 0.286 W/kg

**SAR(1 g) = 0.135 mW/g; SAR(10 g) = 0.065 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.150 mW/g



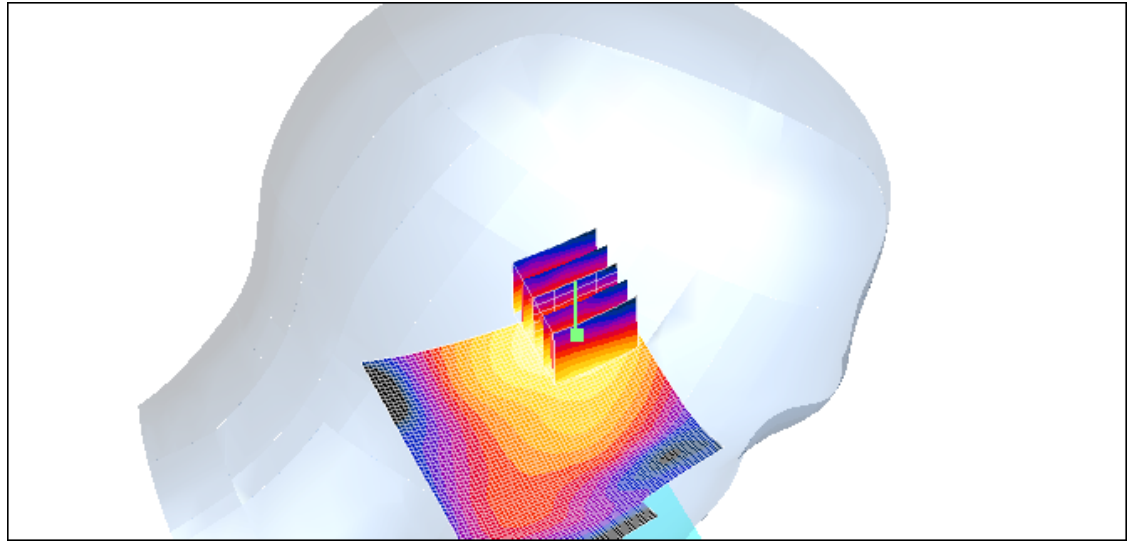
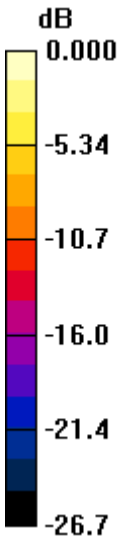
Author Data  
**Andrew Becker**

Dates of Test  
**July 19 – Aug. 6, 2010**


Test Report No  
**RTS-2337-1008-36**

FCC ID:  
**L6ARDG70UW**

IC ID  
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0 dB = 0.150mW/g

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Date/Time: 8/5/2010 1:52:41 AM

Test Laboratory: RIM Testing Services

## LeftHandSide\_802.11b\_mid\_chan\_Amb\_Tem\_22.6\_Liq\_Tem\_21.9\_C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 40.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.239 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.26 V/m; Power Drift = 0.153 dB

Peak SAR (extrapolated) = 0.456 W/kg

**SAR(1 g) = 0.221 mW/g; SAR(10 g) = 0.107 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.247 mW/g

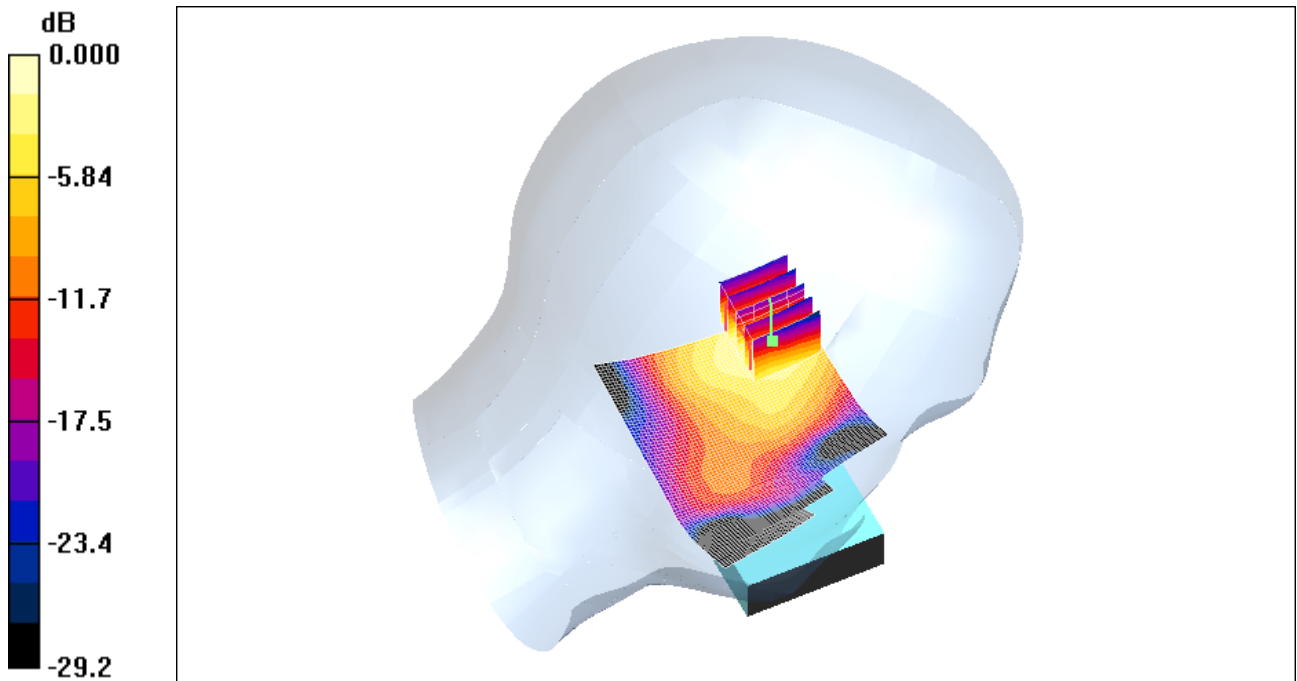
Author Data  
**Andrew Becker**

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0 dB = 0.247mW/g

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Date/Time: 8/5/2010 2:08:38 AM

Test Laboratory: RIM Testing Services

**LeftHandSide\_802.11b\_Slide\_Open\_mid\_chan\_Amb\_Tem\_22.7\_Liq\_Tem\_22.0\_C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 40.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.070 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.87 V/m; Power Drift = 1.86 dB

Peak SAR (extrapolated) = 0.110 W/kg

**SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.025 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.063 mW/g

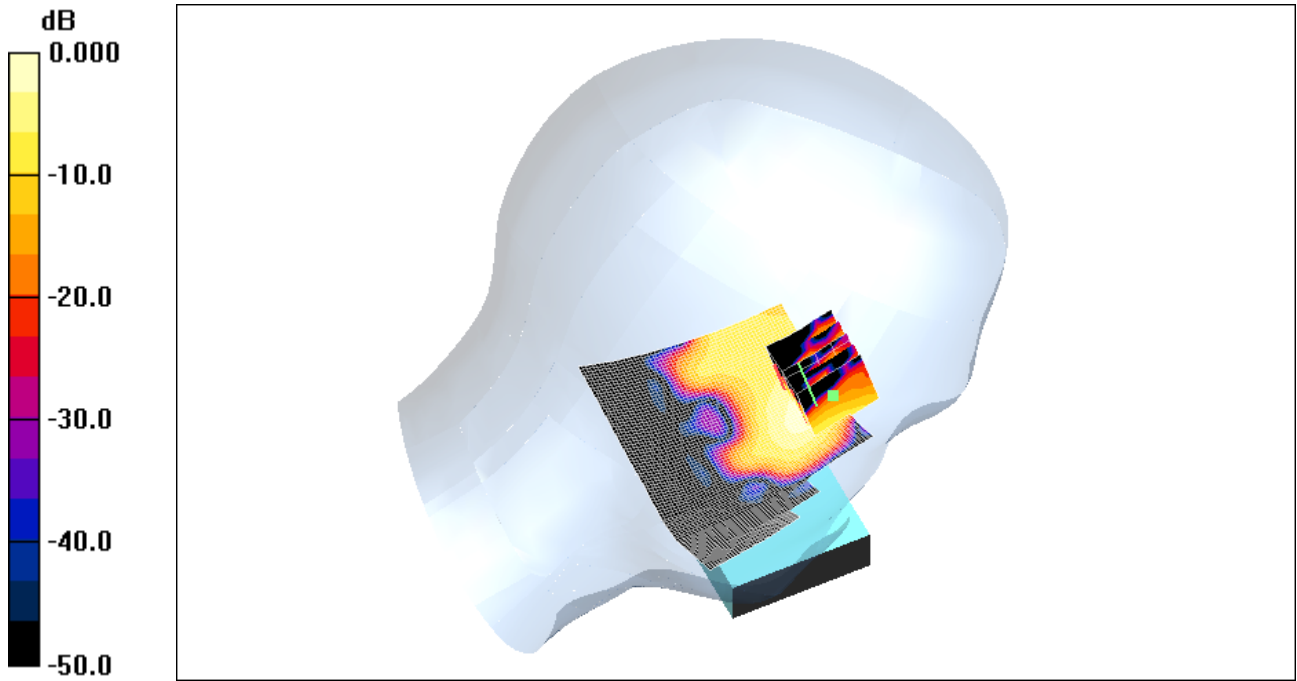
Author Data  
**Andrew Becker**

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0 dB = 0.063mW/g

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Date/Time: 8/5/2010 12:40:10 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_802.11b\_high\_chan\_Amb\_Tem\_21.9\_Liq\_Tem\_21.0C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.91$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.147 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.64 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 0.274 W/kg

**SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.063 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.150 mW/g

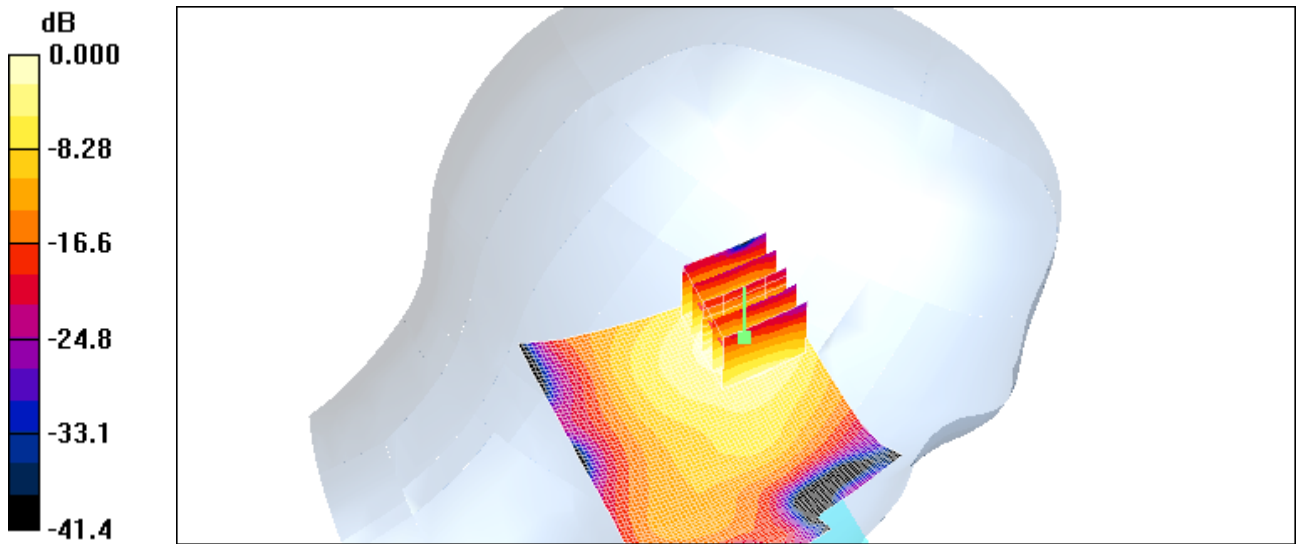
Author Data  
**Andrew Becker**

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0 dB = 0.150mW/g

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Date/Time: 8/5/2010 2:30:33 AM

Test Laboratory: RIM Testing Services

## LeftHandSide\_Tilt\_802.11b\_mid\_chan\_Amb\_Tem\_22.9\_Liq\_Tem\_22.2\_C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 229CD418**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 40.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.252 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.40 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 0.467 W/kg

**SAR(1 g) = 0.218 mW/g; SAR(10 g) = 0.103 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.243 mW/g



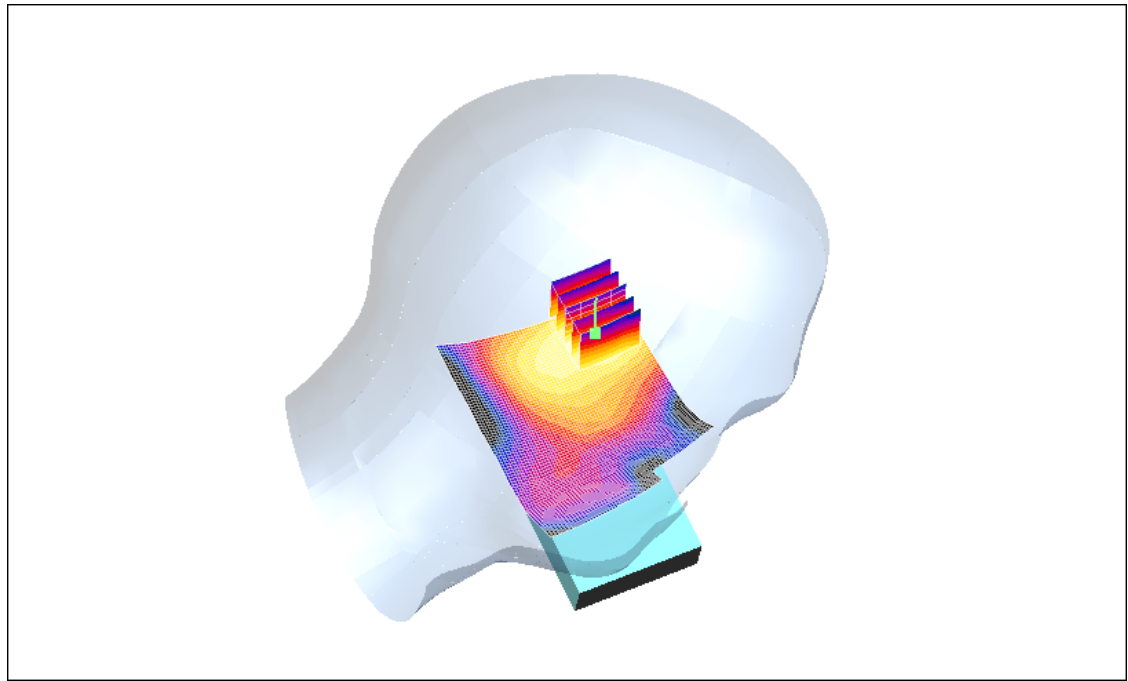
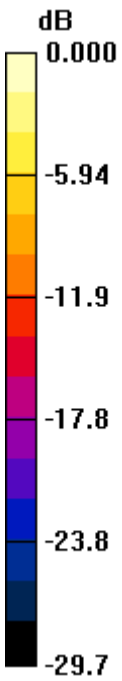
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0 dB = 0.243mW/g

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**Z axis plot for the worst case head configuration:**

