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

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Date/Time: 3/16/2010 12:39:13 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide\\_EDGE850\\_high\\_chan\\_Amb\\_Tem\\_22.8\\_Liq\\_Tem\\_21.3\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21F2589E**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.87$  mho/m;  $\epsilon_r = 42.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(6.08, 6.08, 6.08); Calibrated: 11/11/2009
- 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) = 1.22 mW/g

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

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


Reference Value = 13.4 V/m; Power Drift = -0.150 dB

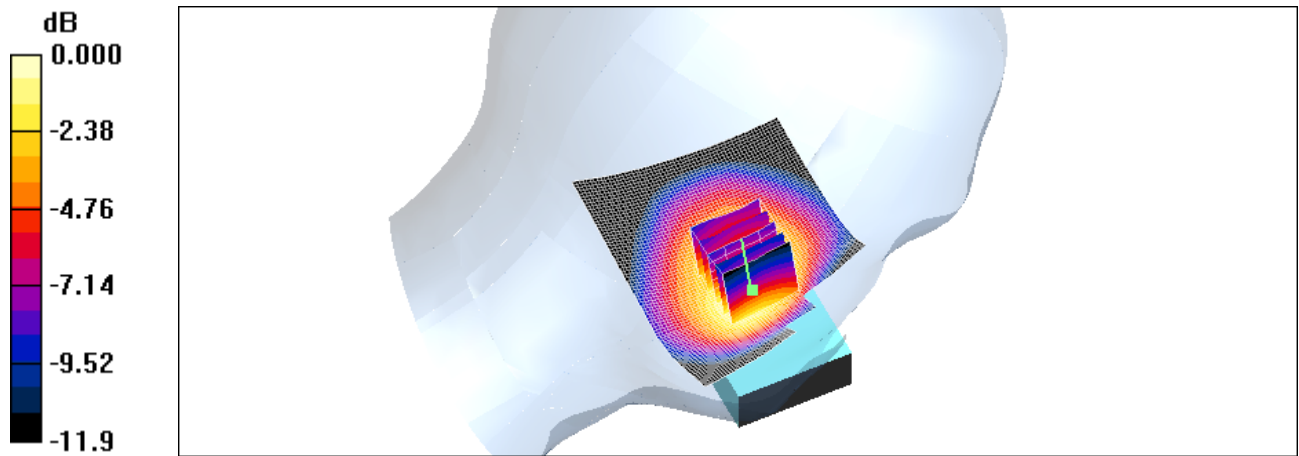
Peak SAR (extrapolated) = 1.61 W/kg

**SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.767 mW/g**


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

Maximum value of SAR (measured) = 1.22 mW/g

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0 dB = 1.22mW/g

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Date/Time: 3/16/2010 11:38:34 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide UMTS Band IV mid chan Amb Tem 22.6 Liq Tem 21.3C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21F2589E**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.17, 5.17, 5.17); Calibrated: 11/11/2009
- 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) = 1.12 mW/g

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

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


Reference Value = 7.69 V/m; Power Drift = -0.105 dB

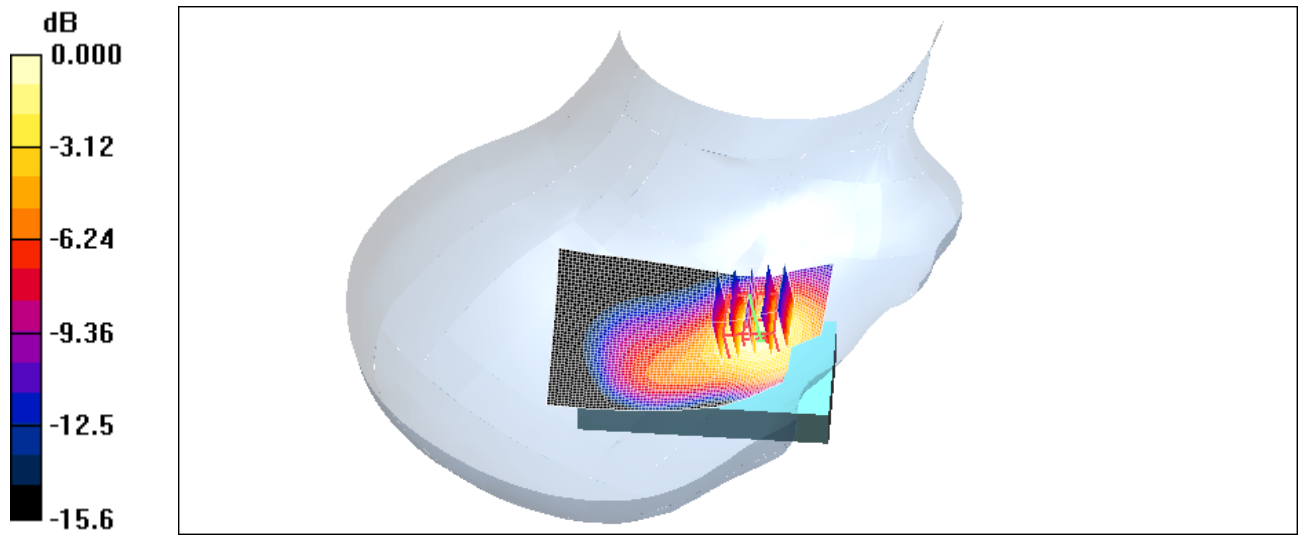
Peak SAR (extrapolated) = 1.41 W/kg

**SAR(1 g) = 0.969 mW/g; SAR(10 g) = 0.581 mW/g**


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

Maximum value of SAR (measured) = 1.07 mW/g

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0 dB = 1.07mW/g

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Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide\\_EDGE1900\\_mid\\_chan\\_Amb\\_Tem\\_22.2\\_Liq\\_Tem\\_21.2C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21F2589E**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 40.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section


DASY4 Configuration:

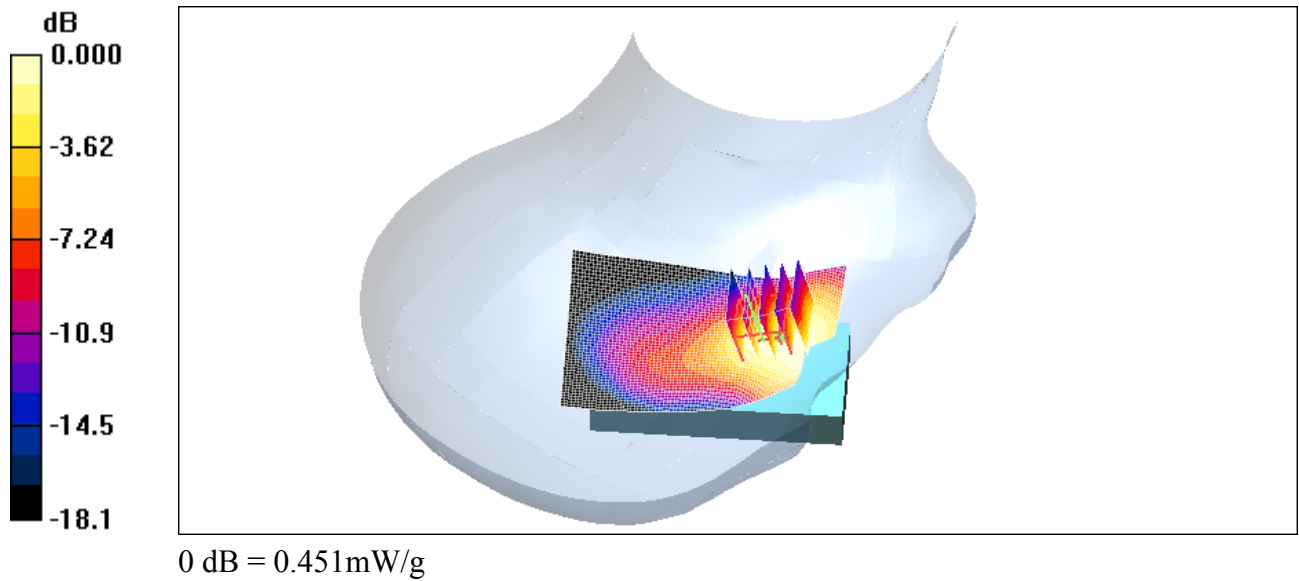
- Probe: ET3DV6 - SN1644; ConvF(5.17, 5.17, 5.17); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.500 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 5.27 V/m; Power Drift = 0.035 dB  
Peak SAR (extrapolated) = 0.638 W/kg  
**SAR(1 g) = 0.420 mW/g; SAR(10 g) = 0.241 mW/g**

Maximum value of SAR (measured) = 0.451 mW/g

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Date/Time: 3/15/2010 12:29:55 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [LeftHandSide\\_802.11b\\_low\\_chan\\_Amb\\_Tem\\_22.8\\_Liq\\_Tem\\_21.0\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21F2589E**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.83$  mho/m;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.5, 4.5, 4.5); Calibrated: 11/11/2009
- 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) = 0.403 mW/g

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

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

Reference Value = 11.9 V/m; Power Drift = -0.166 dB


Peak SAR (extrapolated) = 0.802 W/kg

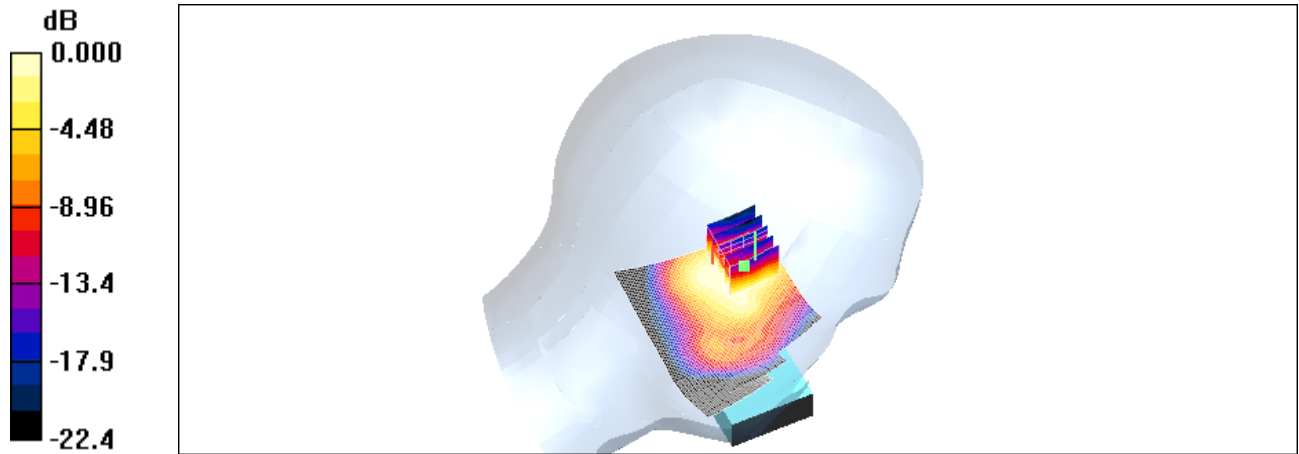
**SAR(1 g) = 0.306 mW/g; SAR(10 g) = 0.155 mW/g**

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


Maximum value of SAR (measured) = 0.348 mW/g



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0 dB = 0.348mW/g

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Date/Time: 3/15/2010 12:54:22 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide\\_802.11b\\_low\\_chan\\_Amb\\_Tem\\_22.5\\_Liq\\_Tem\\_21.0C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21F2589E**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.83$  mho/m;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.5, 4.5, 4.5); Calibrated: 11/11/2009
- 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) = 0.312 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 = -0.182 dB

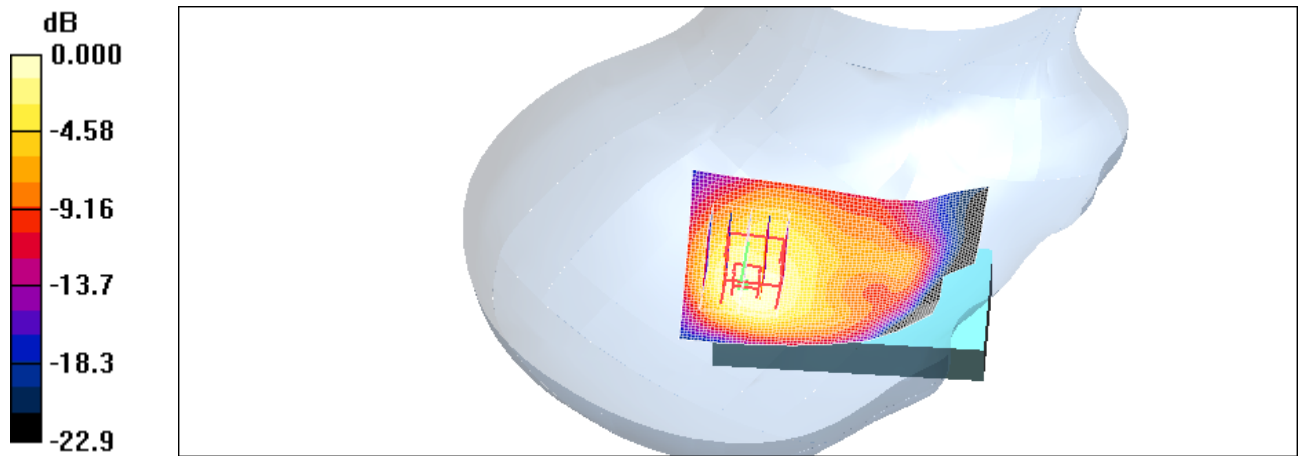
Peak SAR (extrapolated) = 0.558 W/kg

**SAR(1 g) = 0.297 mW/g; SAR(10 g) = 0.155 mW/g**


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

Maximum value of SAR (measured) = 0.328 mW/g

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0 dB = 0.328mW/g

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

