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APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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Date/Time: 3/30/2010 10:27:36 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide CDMA800 low chan Amb Tem 23.2 Liq Tem 21.3 C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.875 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$
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: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.864 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
 $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

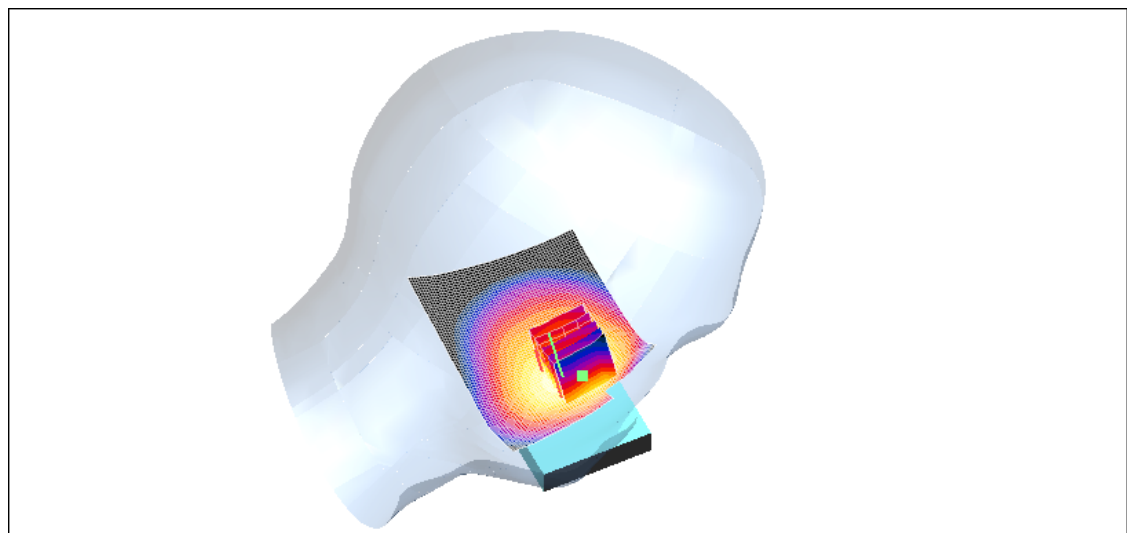
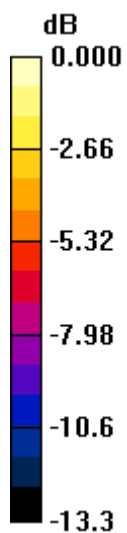
Reference Value = 11.5 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.795 mW/g; SAR(10 g) = 0.561 mW/g

Maximum value of SAR (measured) = 0.832 mW/g

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0 dB = 0.832mW/g

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Date/Time: 3/30/2010 10:44:07 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_CDMA800_mid_chan_Amb_Tem_23.2_Liq_Tem_21.3_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.887 \text{ mho/m}$; $\epsilon_r = 40.1$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.953 mW/g

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

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

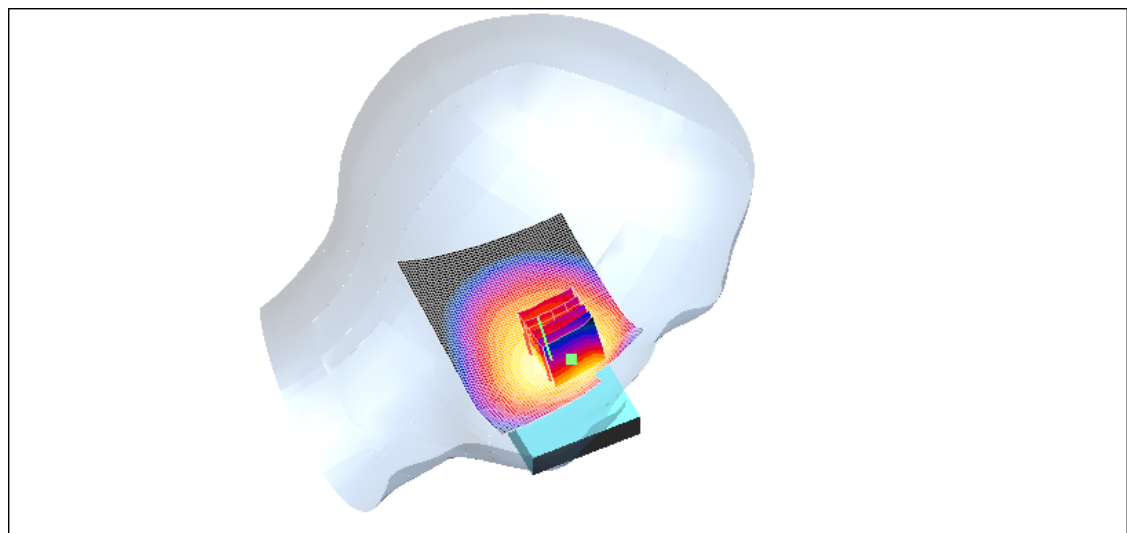
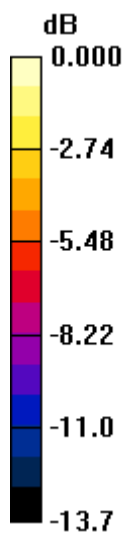
Reference Value = 11.8 V/m ; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.864 mW/g ; SAR(10 g) = 0.609 mW/g

Maximum value of SAR (measured) = 0.919 mW/g

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0 dB = 0.919mW/g

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Date/Time: 3/30/2010 11:15:46 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_CDMA800_high_chan_Amb_Tem_23.2_Liq_Tem_21.3_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 848.52 \text{ MHz}$; $\sigma = 0.897 \text{ mho/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.11 mW/g

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

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

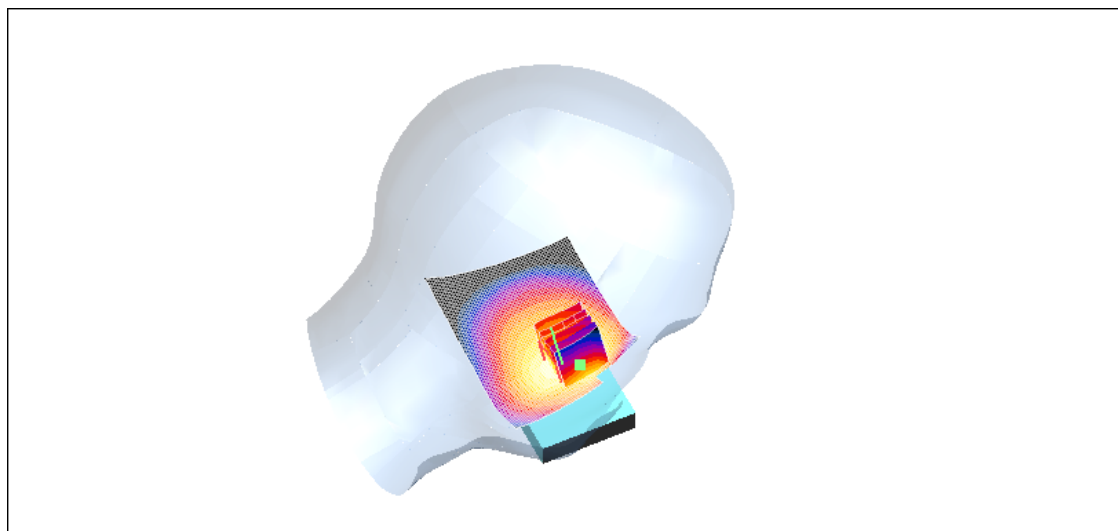
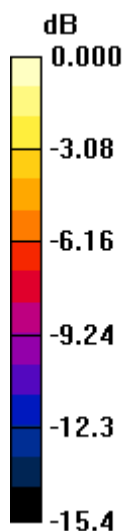
Reference Value = 12.4 V/m; Power Drift = 0.111 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.990 mW/g; SAR(10 g) = 0.696 mW/g

Maximum value of SAR (measured) = 1.06 mW/g

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0 dB = 1.06mW/g

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Date/Time: 3/30/2010 11:56:28 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_Tilt_CDMA800_high_chan_Amb_Tem_23.2_Liq_Tem_21.3_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 848.52 \text{ MHz}$; $\sigma = 0.897 \text{ mho/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.502 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 = 18.3 V/m; Power Drift = 0.099 dB

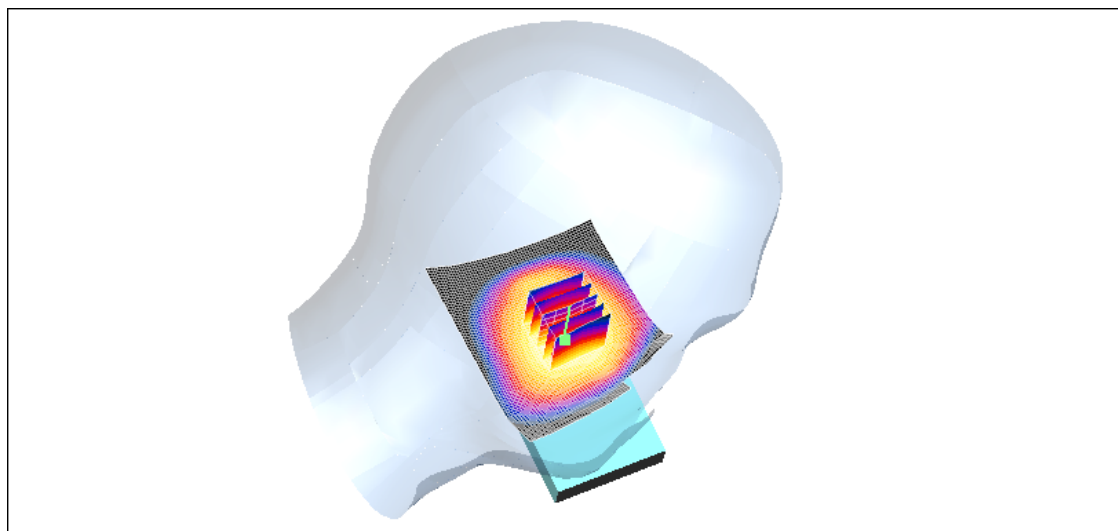
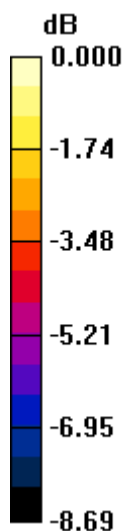
Peak SAR (extrapolated) = 0.614 W/kg

SAR(1 g) = 0.491 mW/g; SAR(10 g) = 0.370 mW/g

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

Maximum value of SAR (measured) = 0.518 mW/g

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0 dB = 0.518mW/g

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Date/Time: 3/30/2010 8:58:27 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_CDMA800_low_chan_amb_tem_23.0_Liq_Tem_21.2C_.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.875 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$

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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.934 mW/g

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

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

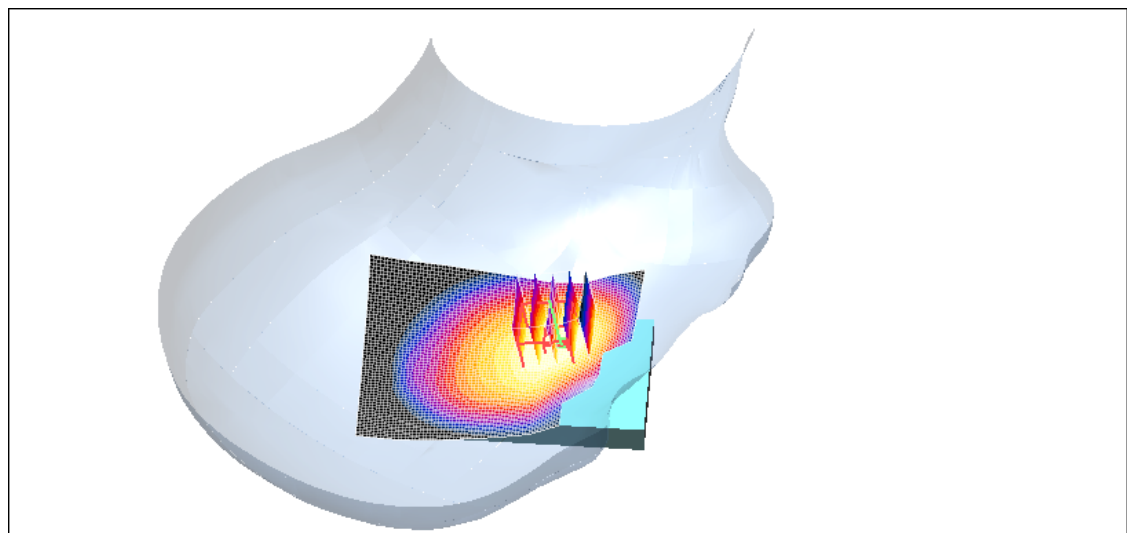
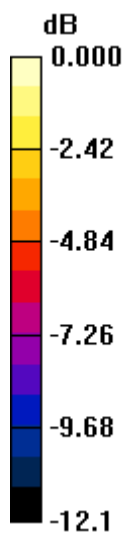
Reference Value = 11.1 V/m ; Power Drift = 0.153 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.823 mW/g ; SAR(10 g) = 0.571 mW/g

Maximum value of SAR (measured) = 0.874 mW/g

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0 dB = 0.874mW/g

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Date/Time: 3/30/2010 8:39:43 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_CDMA800_mid_chan_amb_tem_22.9_Liq_Tem_21.2C_.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.887 \text{ mho/m}$; $\epsilon_r = 40.1$; $\rho = 1000 \text{ kg/m}^3$

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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.06 mW/g

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

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

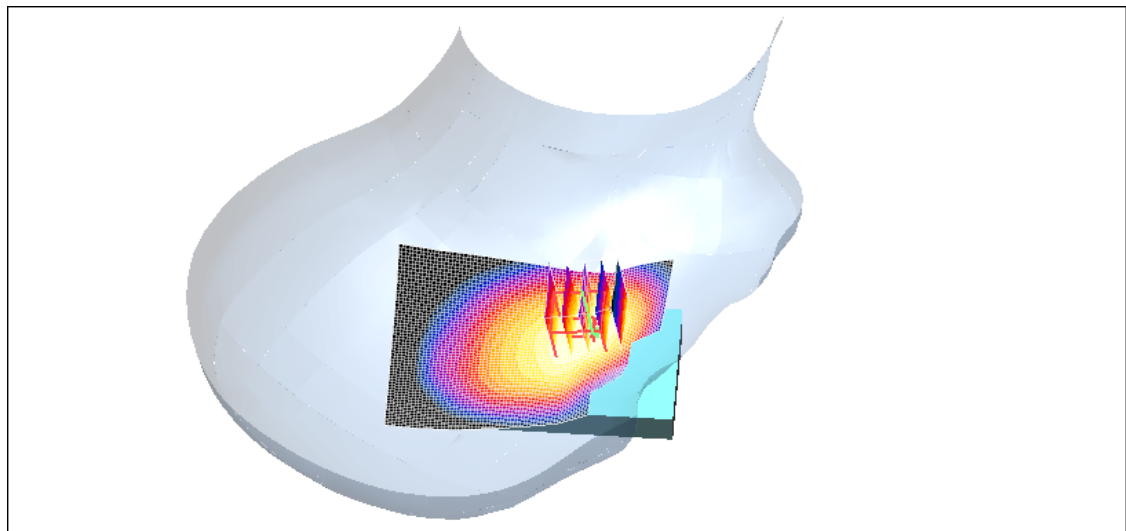
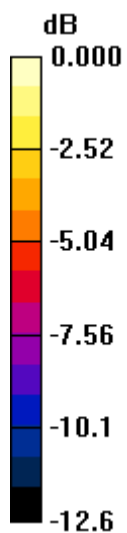
Reference Value = 12.0 V/m ; Power Drift = -0.085 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.920 mW/g ; SAR(10 g) = 0.636 mW/g

Maximum value of SAR (measured) = 0.972 mW/g

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0 dB = 0.972mW/g

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Date/Time: 3/30/2010 9:13:58 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_CDMA800_high_chan_amb_tem_23.1_Liq_Tem_21.3C_da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 848.52 \text{ MHz}$; $\sigma = 0.897 \text{ mho/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$

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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.20 mW/g

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

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

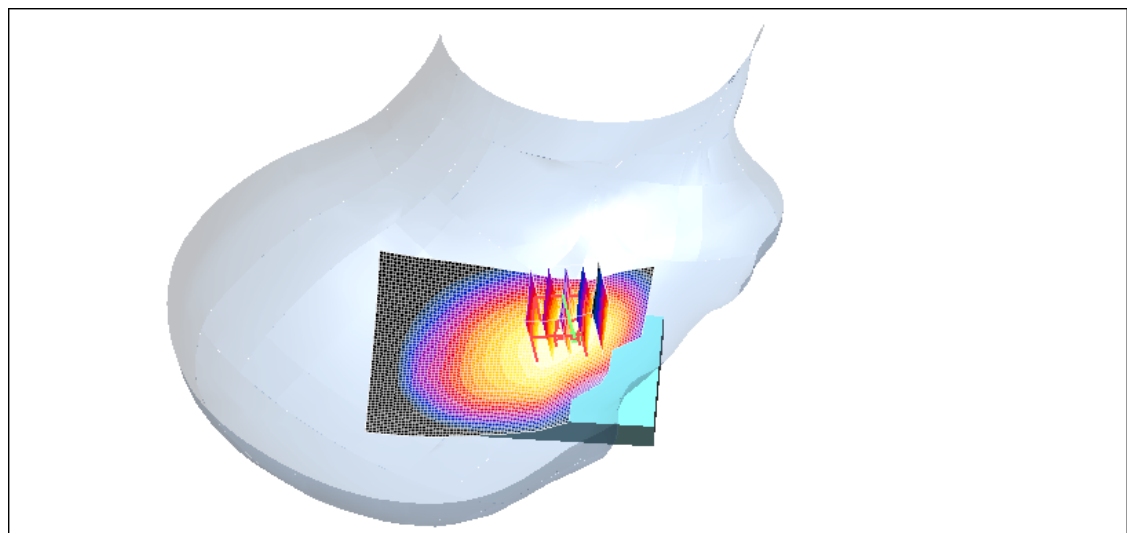
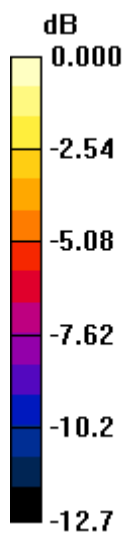
Reference Value = 12.5 V/m ; Power Drift = 0.131 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 1.06 mW/g ; SAR(10 g) = 0.727 mW/g

Maximum value of SAR (measured) = 1.13 mW/g

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0 dB = 1.13mW/g

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Date/Time: 3/30/2010 9:59:13 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_Tilt_CDMA800_high_chan_amb_tem_23.1_Liq_Tem_21.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 848.52 \text{ MHz}$; $\sigma = 0.897 \text{ mho/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$

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

Tilt position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.535 mW/g

Tilt 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 = 17.5 V/m ; Power Drift = -0.069 dB

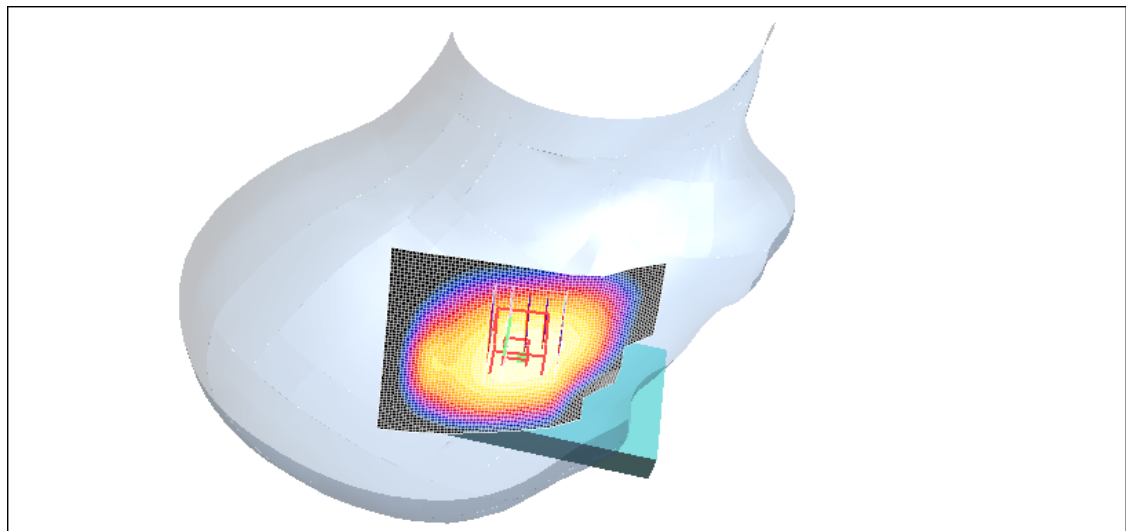
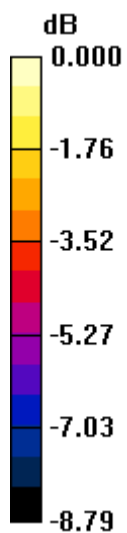
Peak SAR (extrapolated) = 0.624 W/kg

SAR(1 g) = 0.504 mW/g ; SAR(10 g) = 0.382 mW/g

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

Maximum value of SAR (measured) = 0.524 mW/g

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0 dB = 0.524mW/g

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Date/Time: 3/30/2010 11:10:41 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_CDMA1700_low_chan_Amb_Tem_22.4_Liq_Tem_20.5_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA AWS 1700; Frequency: 1711.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1711.25 \text{ MHz}$; $\sigma = 1.28 \text{ mho/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.795 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 = 11.0 V/m; Power Drift = 0.000 dB

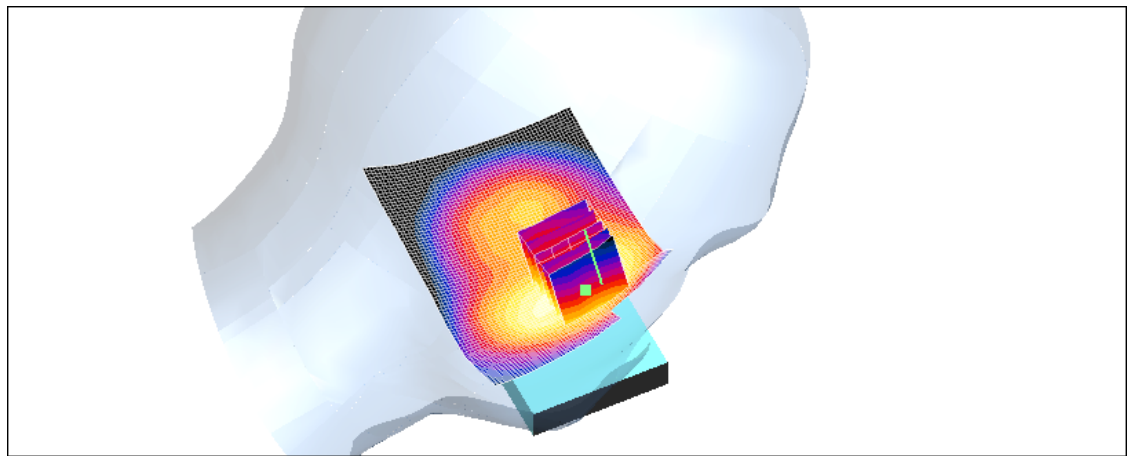
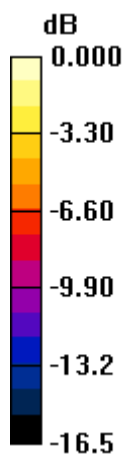
Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.721 mW/g; SAR(10 g) = 0.463 mW/g

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

Maximum value of SAR (measured) = 0.763 mW/g

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0 dB = 0.763mW/g

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Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/30/2010 10:54:10 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_CDMA1700_mid_chan_Amb_Tem_23.0_Liq_Tem_20.2_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.3 \text{ mho/m}$; $\epsilon_r = 39.7$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.912 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 = 12.3 V/m; Power Drift = 0.012 dB

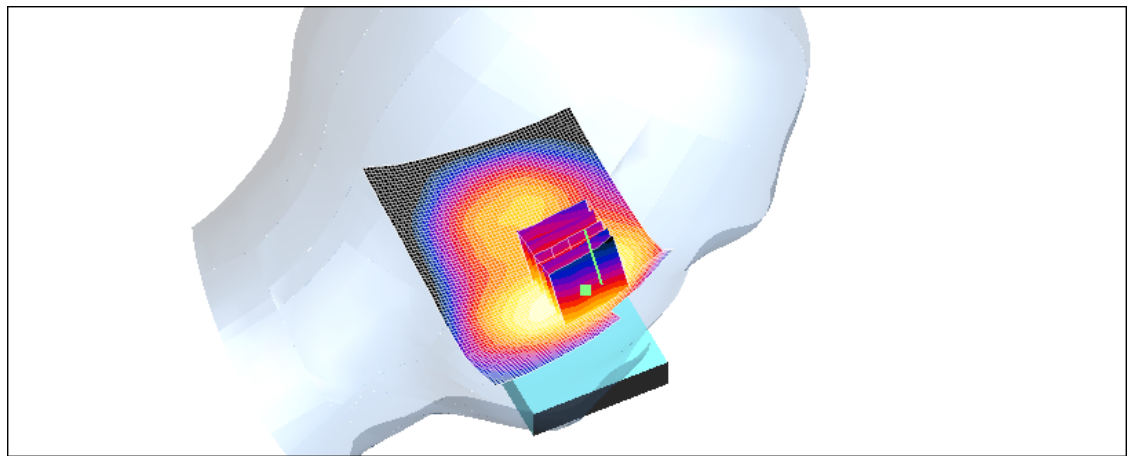
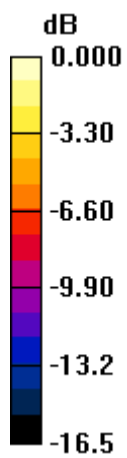
Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.800 mW/g; SAR(10 g) = 0.511 mW/g

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

Maximum value of SAR (measured) = 0.853 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 21(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.853mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 22(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/29/2010 6:22:39 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_CDMA1700_high_chan_Amb_Tem_23.0_Liq_Tem_21.0_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA AWS 1700; Frequency: 1753.75 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1753.75$ MHz; $\sigma = 1.33$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

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) = 0.144 mW/g

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

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

Reference Value = 4.30 V/m; Power Drift = 0.334 dB

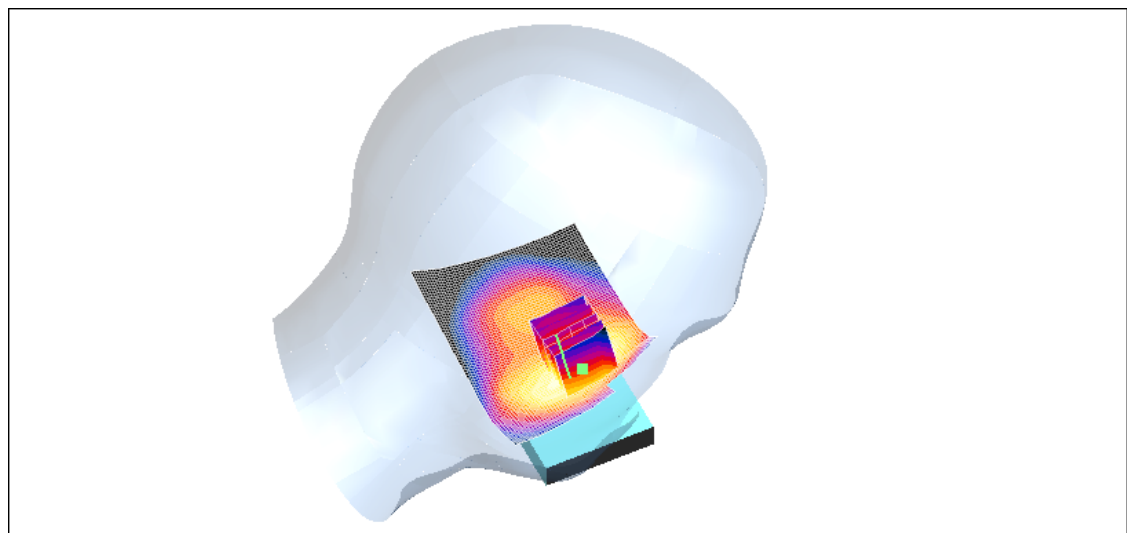
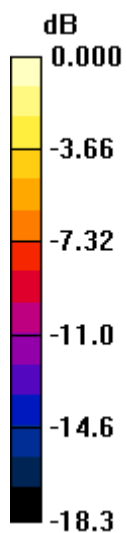
Peak SAR (extrapolated) = 0.244 W/kg

SAR(1 g) = 0.144 mW/g; SAR(10 g) = 0.086 mW/g

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

Maximum value of SAR (measured) = 0.158 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 23(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.158mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 24(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/30/2010 11:25:41 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_CDMA1700_high_chan_Amb_Tem_22.1_Liq_Tem_20.3_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA AWS 1700; Frequency: 1753.75 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1753.75 \text{ MHz}$; $\sigma = 1.33 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.791 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 = 10.7 V/m; Power Drift = -0.046 dB

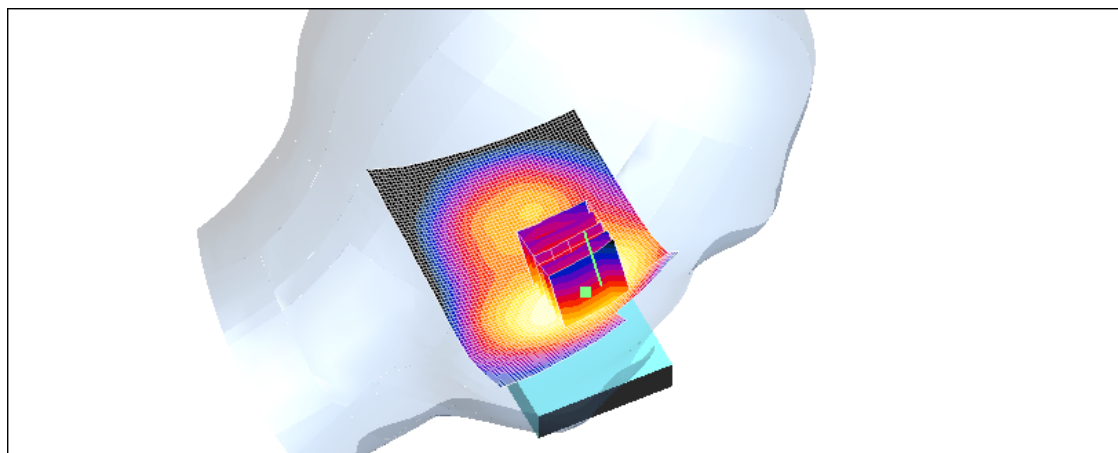
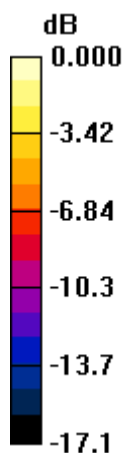
Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.675 mW/g; SAR(10 g) = 0.426 mW/g

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

Maximum value of SAR (measured) = 0.732 mW/g

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Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.732mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 26(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/30/2010 11:41:58 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_Tilt_CDMA1700_mid_chan_Amb_Tem_23.0_Liq_Tem_20.6_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.3 \text{ mho/m}$; $\epsilon_r = 39.7$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.588 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 = 19.4 V/m; Power Drift = -0.013 dB

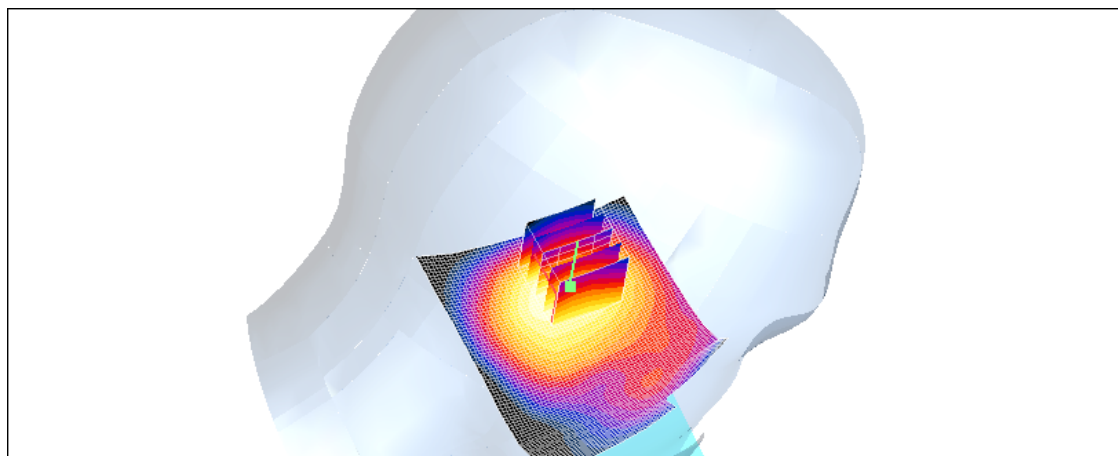
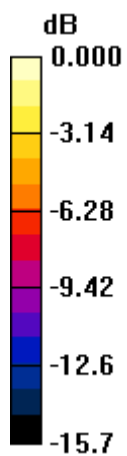
Peak SAR (extrapolated) = 0.749 W/kg

SAR(1 g) = 0.524 mW/g; SAR(10 g) = 0.341 mW/g

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

Maximum value of SAR (measured) = 0.558 mW/g

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Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.558mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 28(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/29/2010 3:51:40 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_CDMA1700_low_chan_amb_tem_23.0_Liq_Tem_21.1C_.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: CDMA AWS 1700; Frequency: 1711.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1711.25 \text{ MHz}$; $\sigma = 1.28 \text{ mho/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$

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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.04 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 = 9.77 V/m ; Power Drift = -0.152 dB

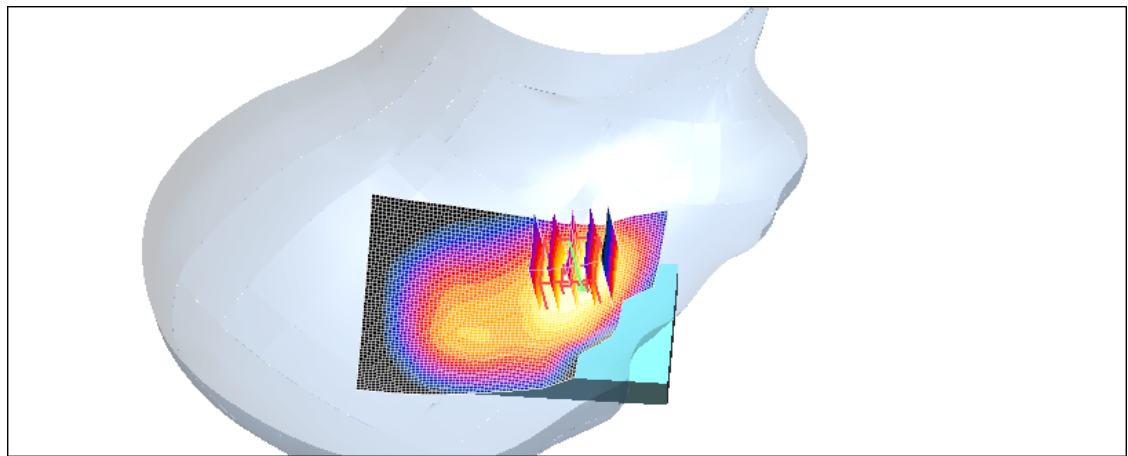
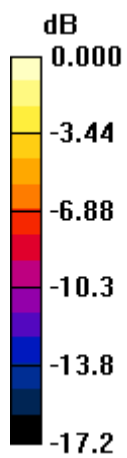
Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.903 mW/g ; SAR(10 g) = 0.555 mW/g

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

Maximum value of SAR (measured) = 0.966 mW/g

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Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.966mW/g

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Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/29/2010 3:34:00 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_CDMA1700_mid_chan_amb_tem_23.1_Liq_Tem_21.2C_.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.3 \text{ mho/m}$; $\epsilon_r = 39.7$; $\rho = 1000 \text{ kg/m}^3$

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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.35 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 = 11.2 V/m ; Power Drift = -0.258 dB

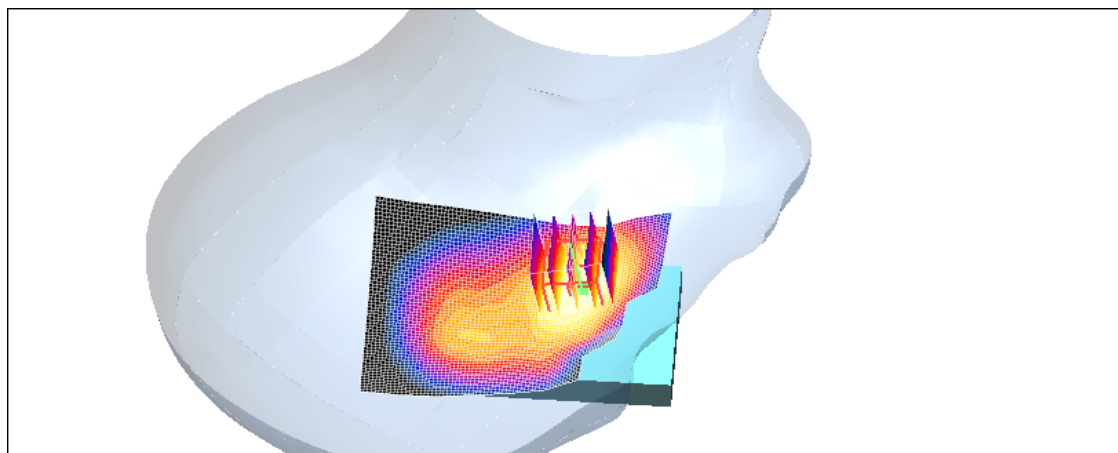
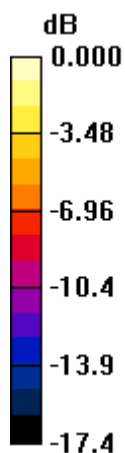
Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 1.17 mW/g ; SAR(10 g) = 0.702 mW/g

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

Maximum value of SAR (measured) = 1.27 mW/g

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Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 1.27mW/g

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Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/29/2010 4:07:30 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_CDMA1700_high_chan_amb_tem_23.0_Liq_Tem_21.0C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: CDMA AWS 1700; Frequency: 1753.75 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1753.75$ MHz; $\sigma = 1.33$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

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 (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

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

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

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

Reference Value = 9.42 V/m; Power Drift = 0.270 dB

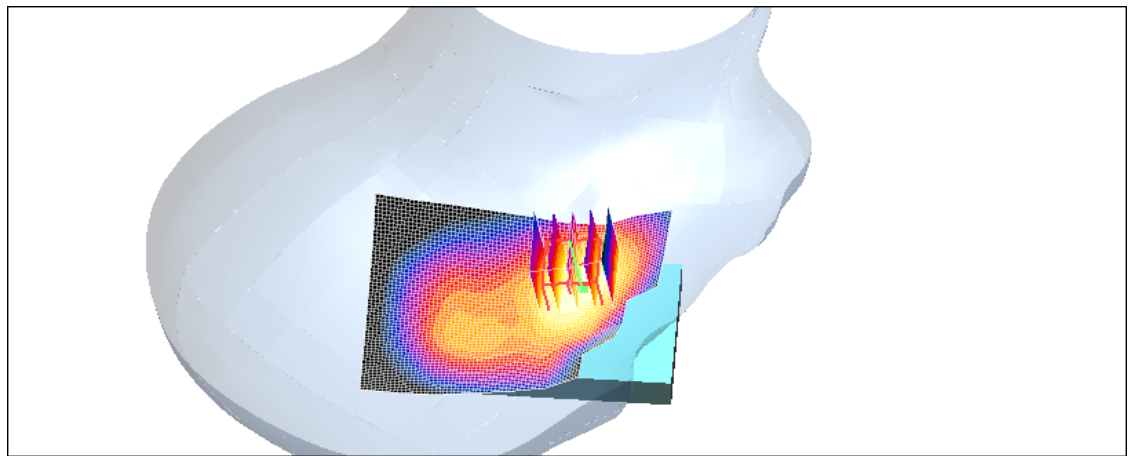
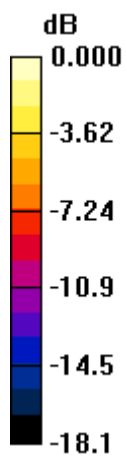
Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.983 mW/g; SAR(10 g) = 0.582 mW/g

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

Maximum value of SAR (measured) = 1.09 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 33(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 1.09mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 34(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/30/2010 12:00:25 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide Tilt CDMA1700 mid chan amb tem 22.2 Liq Tem 20.7C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.5 \text{ MHz}$; $\sigma = 1.3 \text{ mho/m}$; $\epsilon_r = 39.7$; $\rho = 1000 \text{ kg/m}^3$

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

Tilt position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.672 mW/g

Tilt 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 = 18.0 V/m ; Power Drift = 0.034 dB

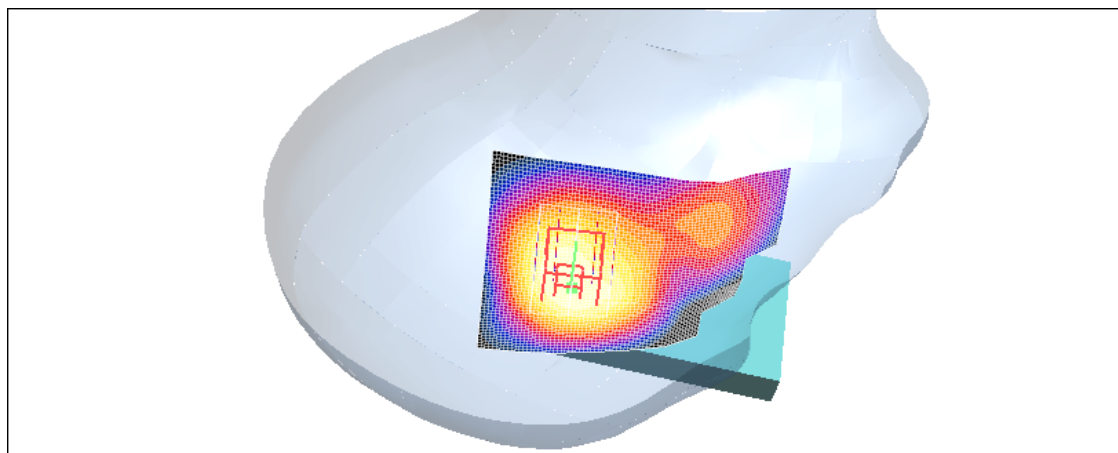
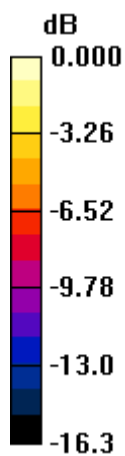
Peak SAR (extrapolated) = 0.776 W/kg

SAR(1 g) = 0.558 mW/g ; SAR(10 g) = 0.370 mW/g

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

Maximum value of SAR (measured) = 0.599 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 35(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.599mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 36(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/25/2010 2:12:27 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_CDMA1900_high_chan_Amb_Tem_23.3_Liq_Tem_22.4_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.16 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 = 14.2 V/m ; Power Drift = 0.015 dB

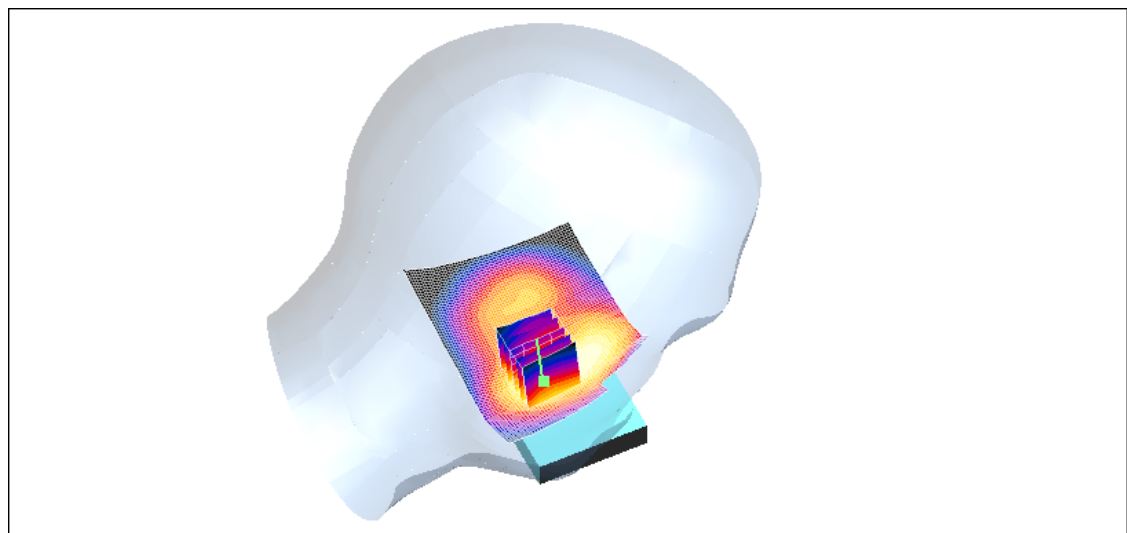
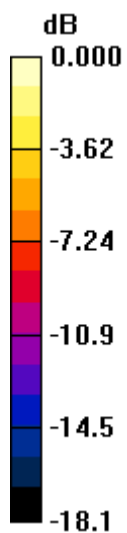
Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.974 mW/g ; SAR(10 g) = 0.577 mW/g

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

Maximum value of SAR (measured) = 1.05 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 37(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 1.05mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 38(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/25/2010 1:56:28 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_Tilt_CDMA1900_high_chan_Amb_Tem_23.3_Liq_Tem_22.4_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.821 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 = 22.7 V/m; Power Drift = 0.097 dB

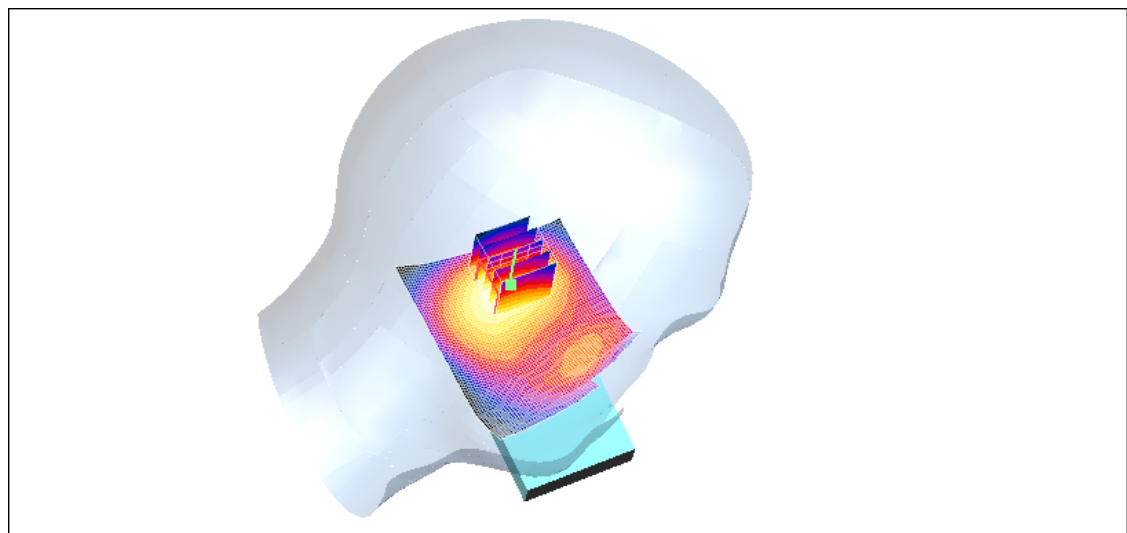
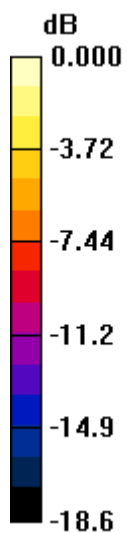
Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.729 mW/g; SAR(10 g) = 0.425 mW/g

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

Maximum value of SAR (measured) = 0.802 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 39(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.802mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 40(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/25/2010 12:43:29 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_CDMA1900_low_chan_amb_tem_23.2_Liq_Tem_22.3C_.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 38.6$; $\rho = 1000 \text{ kg/m}^3$

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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.25 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 = 9.74 V/m ; Power Drift = 0.045 dB

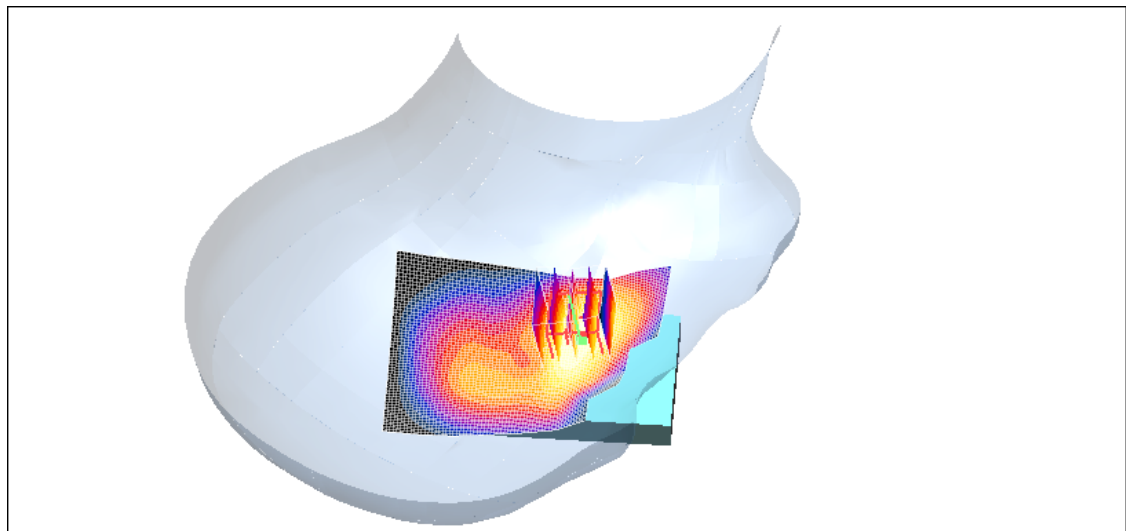
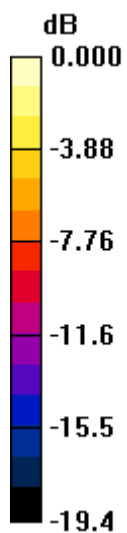
Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 1.08 mW/g ; SAR(10 g) = 0.617 mW/g

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

Maximum value of SAR (measured) = 1.17 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 41(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 1.17mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 42(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/25/2010 12:15:40 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_CDMA1900_mid_chan_amb_tem_23.1_Liq_Tem_22.3C_.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 38.4$; $\rho = 1000 \text{ kg/m}^3$

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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.25 mW/g

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

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

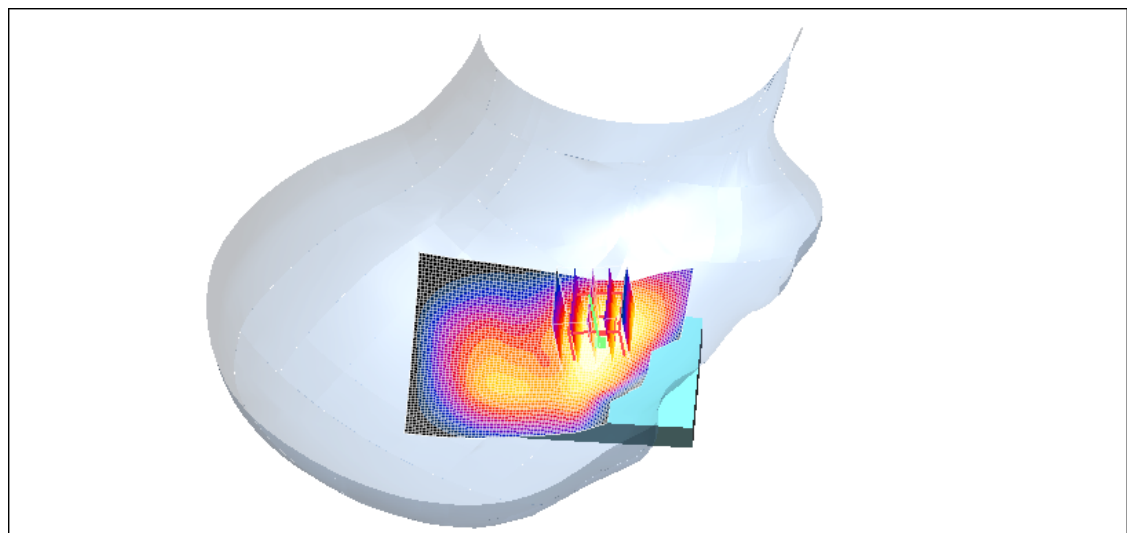
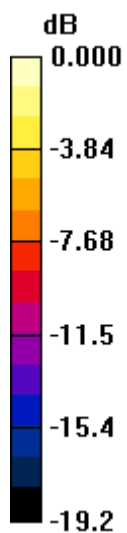
Reference Value = 10.9 V/m; Power Drift = 0.098 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.622 mW/g

Maximum value of SAR (measured) = 1.18 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 43(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 1.18mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 44(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/25/2010 12:59:36 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_CDMA1900_high_chan_amb_tem_23.2_Liq_Tem_22.3C_da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.38 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 = 12.1 V/m ; Power Drift = 0.162 dB

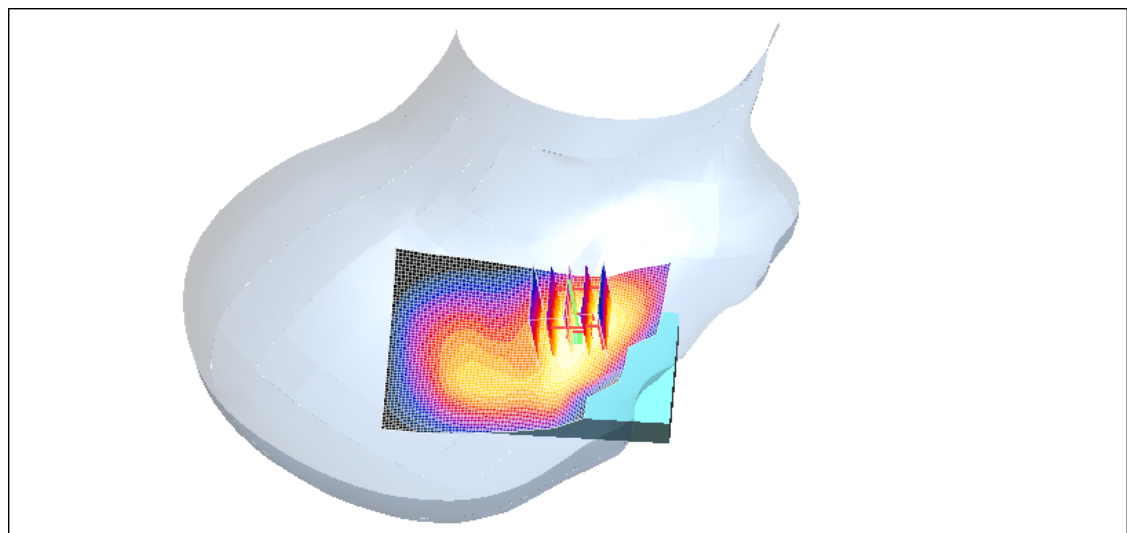
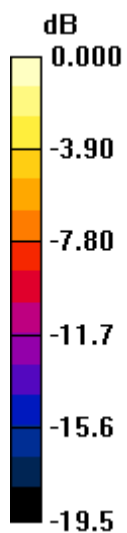
Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 1.22 mW/g ; SAR(10 g) = 0.685 mW/g

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

Maximum value of SAR (measured) = 1.32 mW/g

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Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 1.32mW/g

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Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/25/2010 1:38:04 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_Tilt_CDMA1900_high_chan_amb_tem_23.2_Liq_Tem_22.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

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

Tilt position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.759 mW/g

Tilt 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 = 20.3 V/m ; Power Drift = 0.234 dB

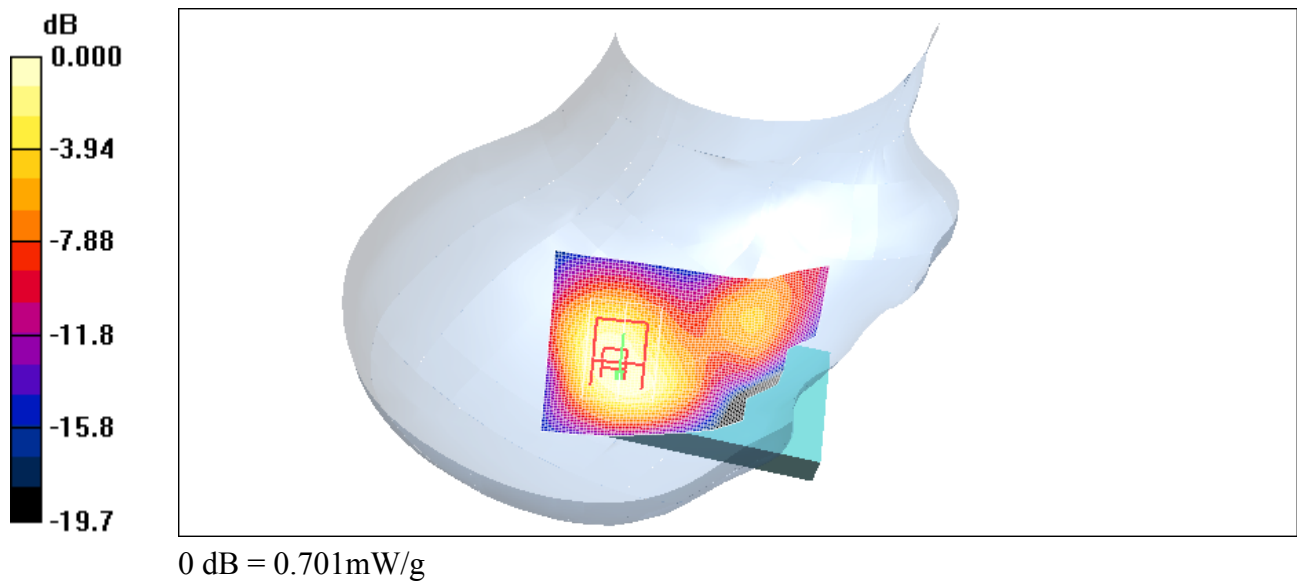
Peak SAR (extrapolated) = 0.983 W/kg

SAR(1 g) = 0.662 mW/g ; SAR(10 g) = 0.405 mW/g

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

Maximum value of SAR (measured) = 0.701 mW/g

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Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 48(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/12/2010 11:05:58 AM

Test Laboratory: RIM TESTING SERVICES

File Name: [LeftHandSide_802.11b_mid_chan_Amb_Tem_22.4_Liq_Tem_21.3_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.87 \text{ mho/m}$; $\epsilon_r = 37.6$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.259 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 = 12.5 V/m ; Power Drift = -0.165 dB

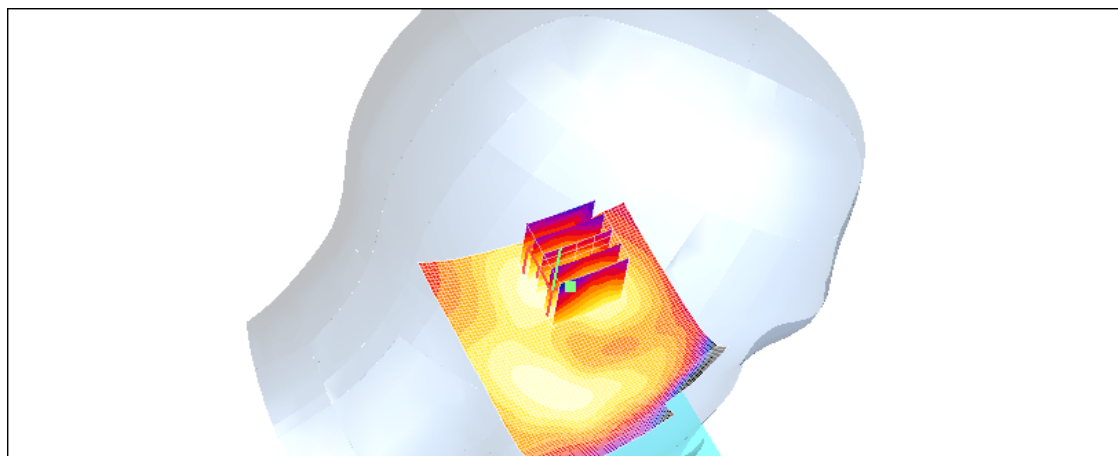
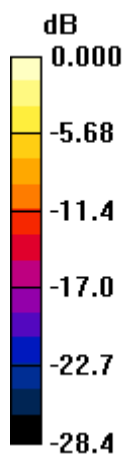
Peak SAR (extrapolated) = 0.497 W/kg

SAR(1 g) = 0.244 mW/g ; SAR(10 g) = 0.126 mW/g

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

Maximum value of SAR (measured) = 0.260 mW/g

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Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.260mW/g

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Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/12/2010 11:21:48 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_Tilt_802.11b_mid_chan_Amb_Tem_22.2_Liq_Tem_21.4_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.87 \text{ mho/m}$; $\epsilon_r = 37.6$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.380 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 = 15.3 V/m ; Power Drift = -0.185 dB

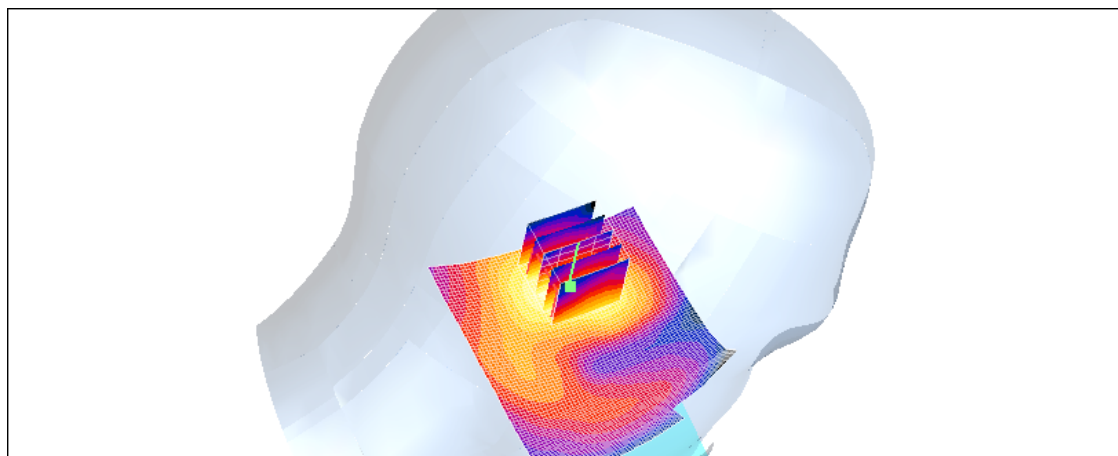
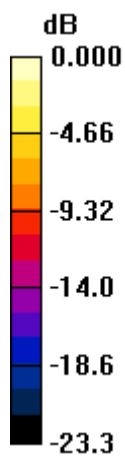
Peak SAR (extrapolated) = 0.759 W/kg

SAR(1 g) = 0.357 mW/g ; SAR(10 g) = 0.175 mW/g

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

Maximum value of SAR (measured) = 0.392 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 51(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.392mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 52(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/12/2010 9:24:13 AM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide_802.11b_low_chan_amb_tem_22.7_Liq_Tem_21.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.84 \text{ mho/m}$; $\epsilon_r = 37.7$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.349 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 = 10.2 V/m ; Power Drift = -0.256 dB

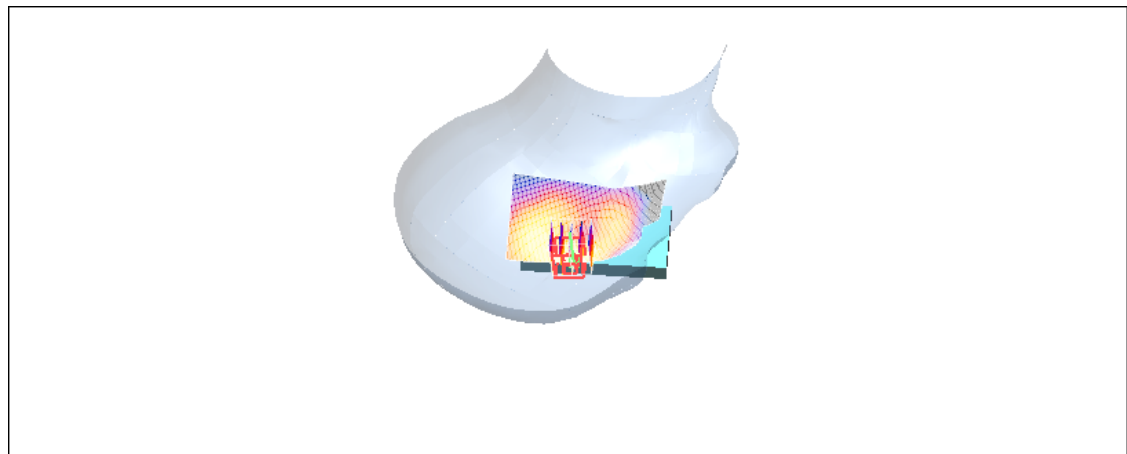
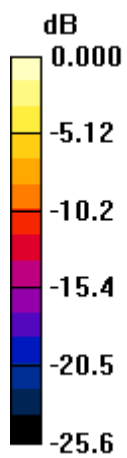
Peak SAR (extrapolated) = 0.812 W/kg

SAR(1 g) = 0.334 mW/g ; SAR(10 g) = 0.154 mW/g

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

Maximum value of SAR (measured) = 0.361 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 53(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.361mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 54(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/12/2010 10:44:28 AM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide_802.11b_mid_chan_amb_tem_22.6_Liq_Tem_21.5C_.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.87 \text{ mho/m}$; $\epsilon_r = 37.6$; $\rho = 1000 \text{ kg/m}^3$

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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.385 mW/g

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

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

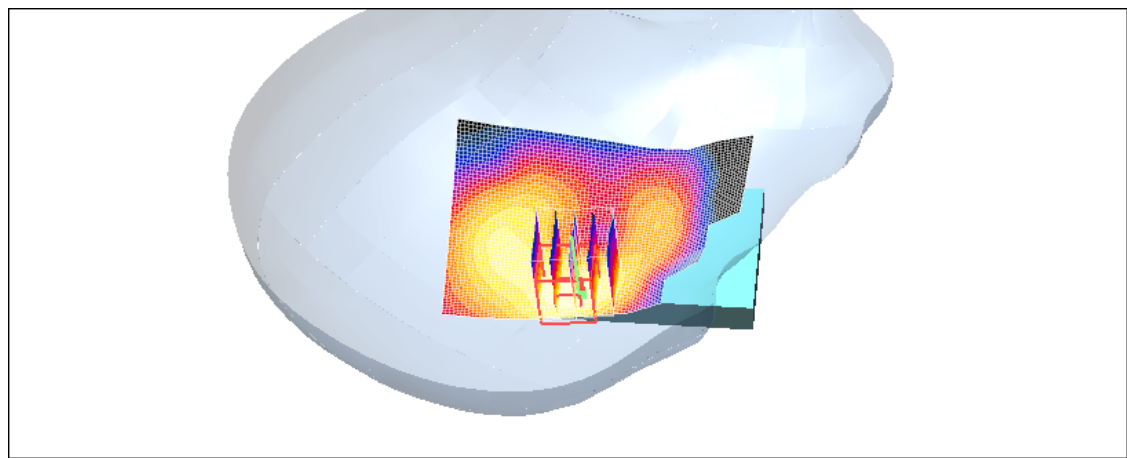
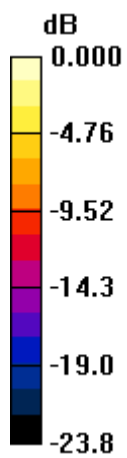
Reference Value = 11.0 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 0.943 W/kg

SAR(1 g) = 0.390 mW/g; SAR(10 g) = 0.179 mW/g

Maximum value of SAR (measured) = 0.407 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCZ31CW SAR Report			Page 55(60)
Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW



0 dB = 0.407mW/g

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Author Data Andrew Becker	Dates of Test Mar 12 – Mar 30, 2010	Test Report No RTS-2068-1004-37	FCC ID: L6ARCZ30CW	IC ID: 2503A-RCZ30CW

Date/Time: 3/12/2010 10:08:35 AM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide_802.11b_high_chan_amb_tem_22.6_Liq_Tem_21.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 37.5$; $\rho = 1000 \text{ kg/m}^3$

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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.327 mW/g

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

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

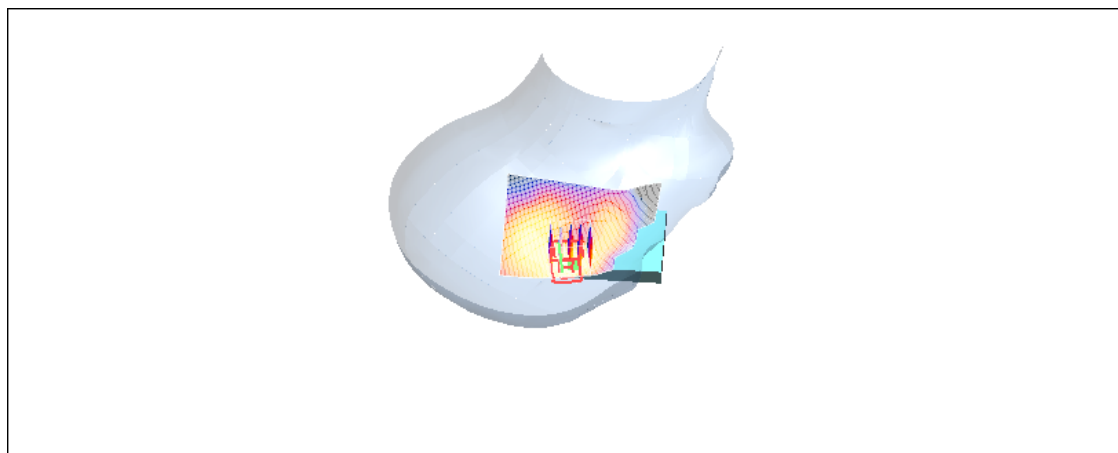
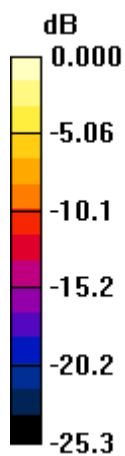
Reference Value = 10.2 V/m ; Power Drift = -0.068 dB

Peak SAR (extrapolated) = 0.801 W/kg

SAR(1 g) = 0.336 mW/g ; SAR(10 g) = 0.155 mW/g

Maximum value of SAR (measured) = 0.355 mW/g

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0 dB = 0.355mW/g

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Date/Time: 3/12/2010 10:26:32 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_Tilt_802.11b_mid_chan_amb_tem_22.4_Liq_Tem_21.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3154325B

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.87 \text{ mho/m}$; $\epsilon_r = 37.6$; $\rho = 1000 \text{ kg/m}^3$

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

Tilt position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.389 mW/g

Tilt 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 = 14.4 V/m ; Power Drift = -0.083 dB

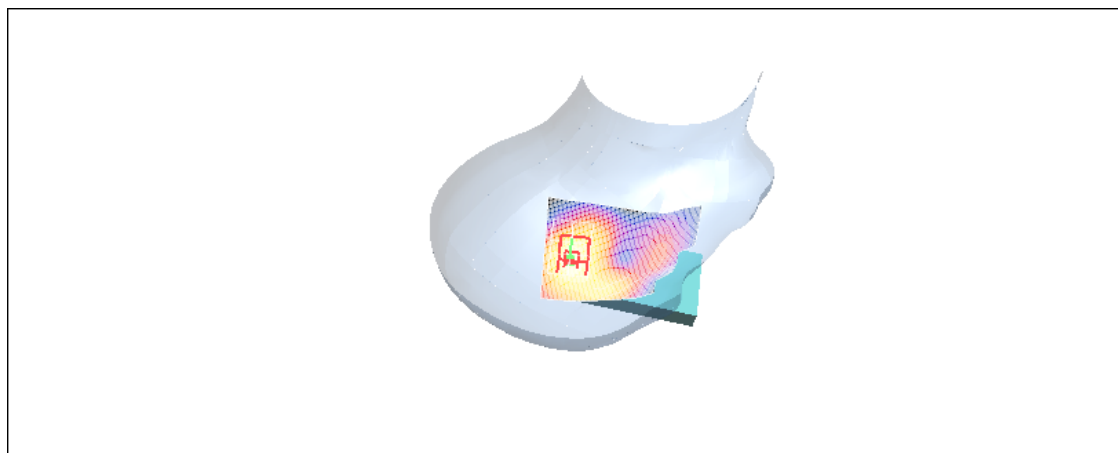
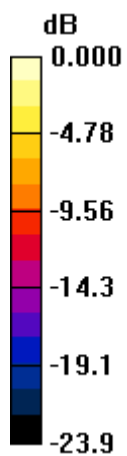
Peak SAR (extrapolated) = 0.773 W/kg

SAR(1 g) = 0.368 mW/g ; SAR(10 g) = 0.182 mW/g

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

Maximum value of SAR (measured) = 0.411 mW/g

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0 dB = 0.411mW/g

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Z axis plot for the worst case head configuration:

