

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 1(44)
Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03	FCC ID: L6ARCE20CW

APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 2(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 01/12/2008 2:23:35 PM

Test Laboratory: RTS

File Name: [LeftHandSide_CDMA800_low_chan_amb_temp_23.8_liq_temp_22.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3048F4CB
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 825$ MHz; $\sigma = 0.855$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 0.982 mW/g

Touch position - Low_/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

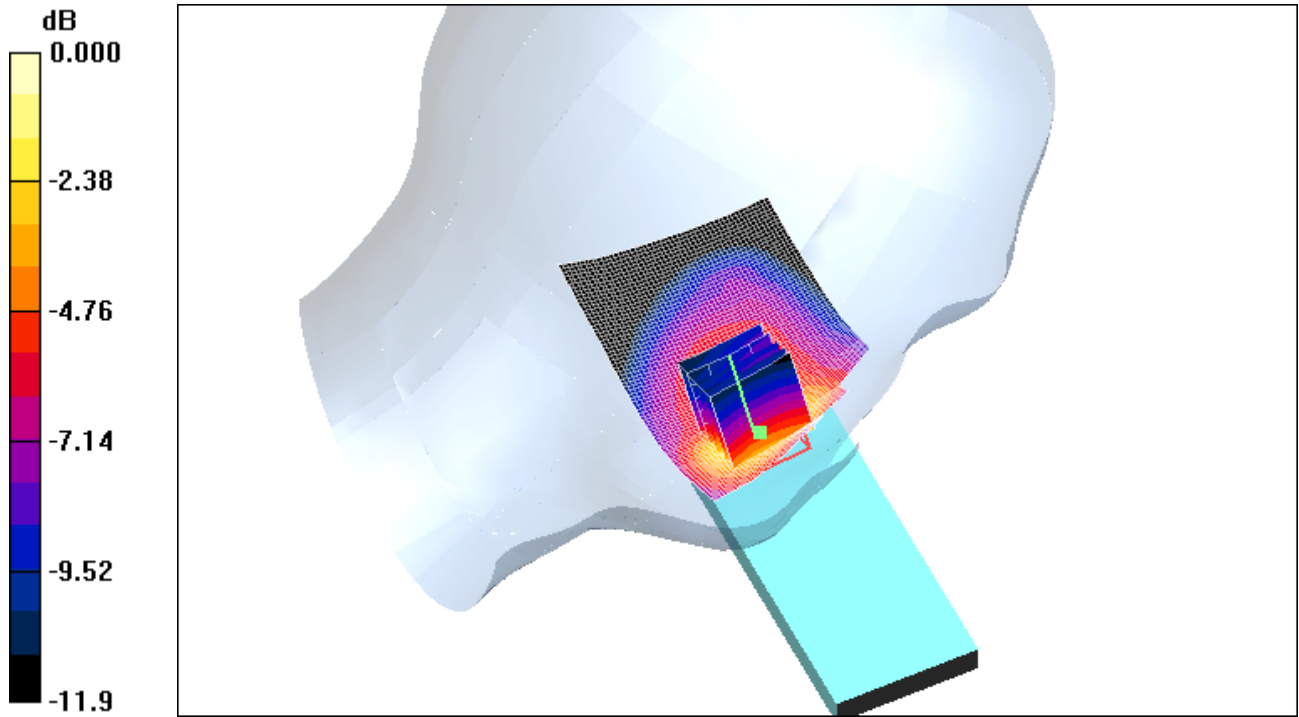
Reference Value = 35.6 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 0.989 mW/g; SAR(10 g) = 0.562 mW/g

Maximum value of SAR (measured) = 1.08 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 3(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 1.08mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 4(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 01/12/2008 1:56:38 PM

Test Laboratory: RTS

File Name: [LeftHandSide_CDMA800_mid_chan_amb_temp_23.9_liq_temp_22.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3048F4CB
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): $f = 836.52$ MHz; $\sigma = 0.867$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Touch position - Mid_/Area Scan (51x81x1): 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 - Mid_/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 35.2 V/m; Power Drift = 0.083 dB

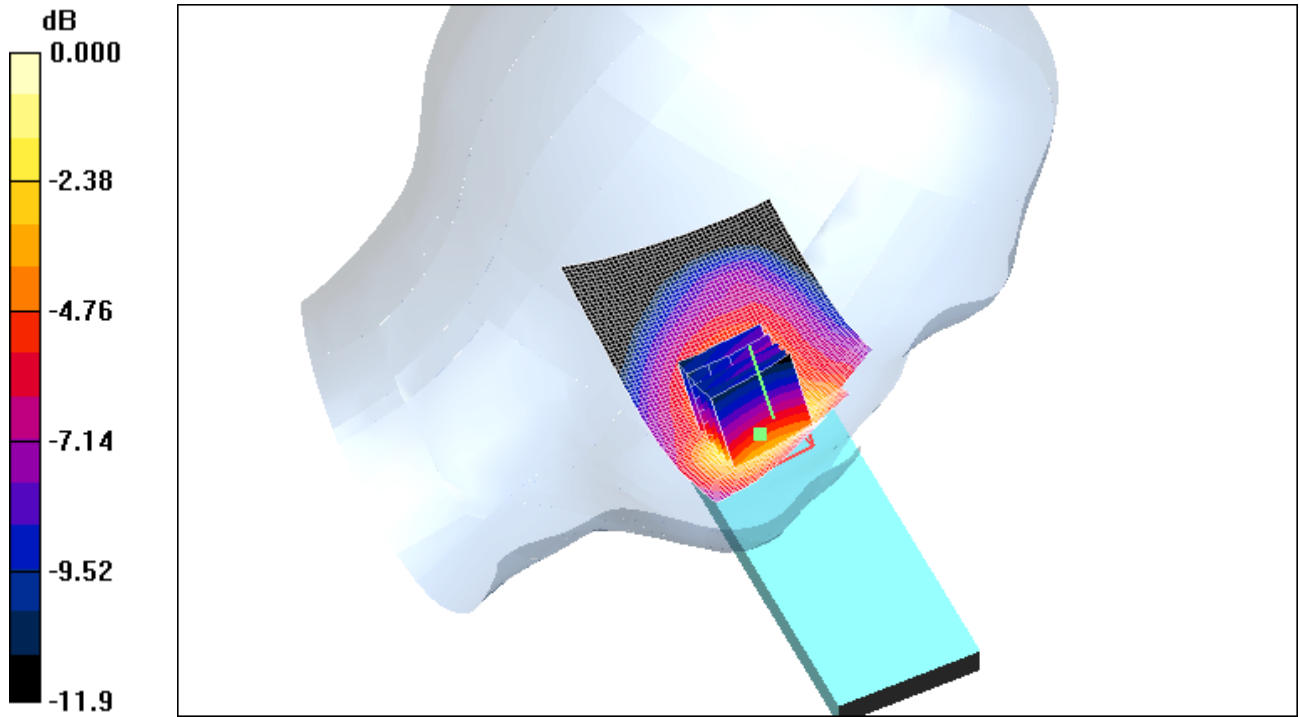
Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 0.992 mW/g; SAR(10 g) = 0.571 mW/g

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

Maximum value of SAR (measured) = 1.03 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 5(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 1.03mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 6(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 01/12/2008 2:38:20 PM

Test Laboratory: RTS

File Name: [LeftHandSide_CDMA800_high_chan_amb_temp_23.3_liq_temp_22.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3048F4CB
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): $f = 848.52$ MHz; $\sigma = 0.878$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

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

Maximum value of SAR (interpolated) = 0.950 mW/g

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

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

Reference Value = 34.0 V/m; Power Drift = 0.081 dB

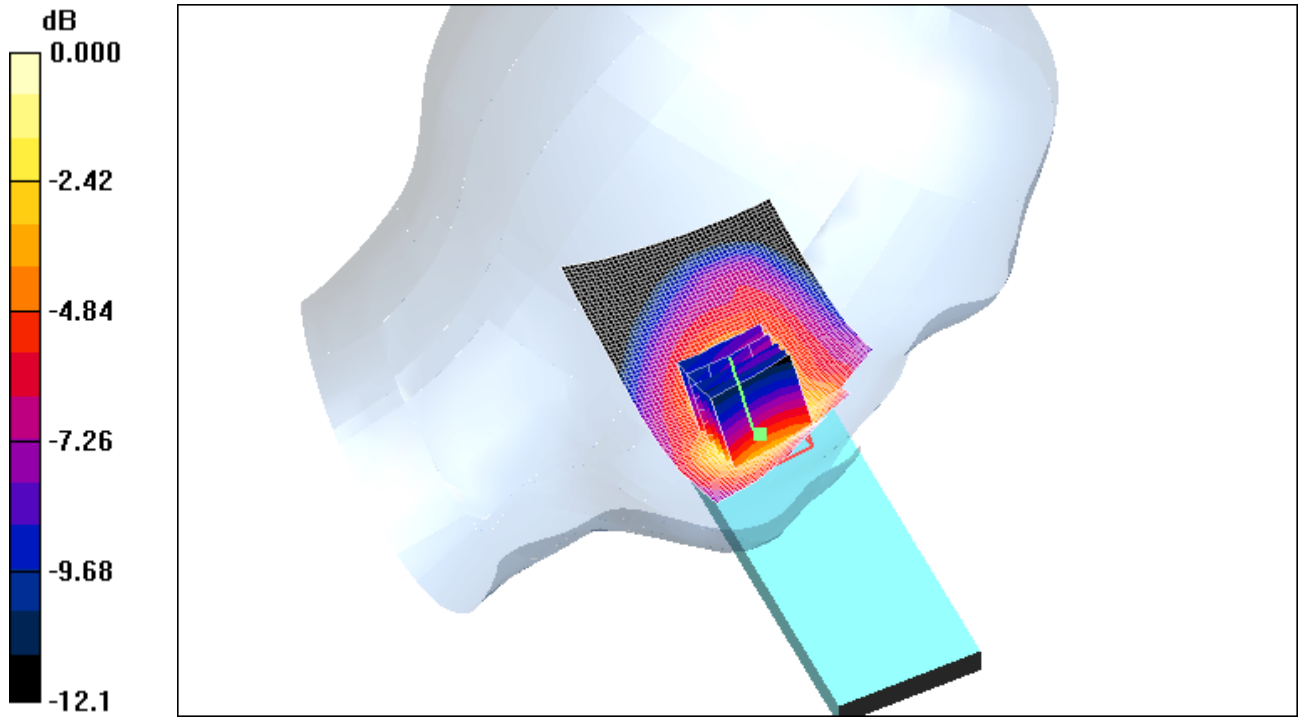
Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 0.963 mW/g; SAR(10 g) = 0.548 mW/g

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

Maximum value of SAR (measured) = 0.992 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 7(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 0.992mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 8(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 01/12/2008 3:13:18 PM

Test Laboratory: RTS

File Name:

[LeftHandSide_Tilt_CDMA800_mid_chan_amb_temp_23.4_liq_temp_22.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3048F4CB
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): $f = 836.52$ MHz; $\sigma = 0.867$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

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

Maximum value of SAR (interpolated) = 0.474 mW/g

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

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

Reference Value = 15.0 V/m; Power Drift = -0.334 dB

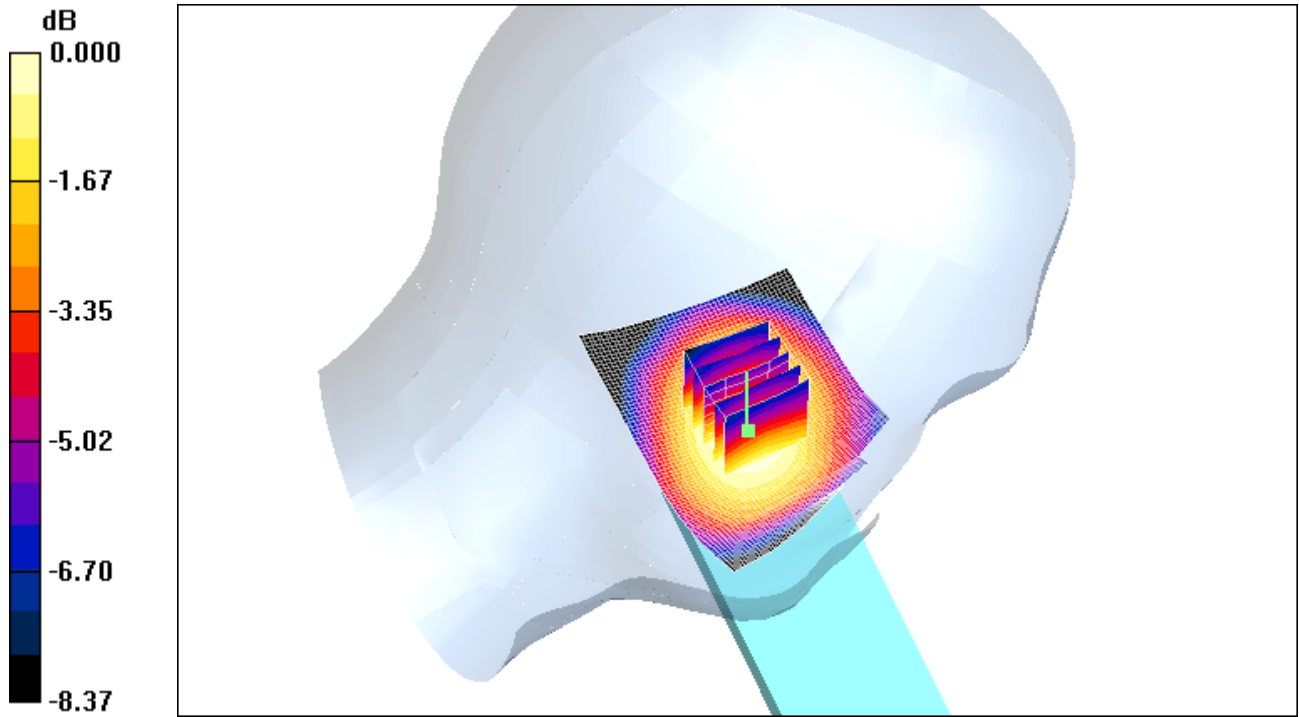
Peak SAR (extrapolated) = 0.498 W/kg

SAR(1 g) = 0.425 mW/g; SAR(10 g) = 0.326 mW/g

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

Maximum value of SAR (measured) = 0.452 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 9(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 0.452mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 10(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 01/12/2008 4:01:37 PM

Test Laboratory: RTS

File Name: [RightHandSide_CDMA800_low_chan_amb_temp_22.7_liq_temp_22.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: 3048F4CB
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 825$ MHz; $\sigma = 0.855$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

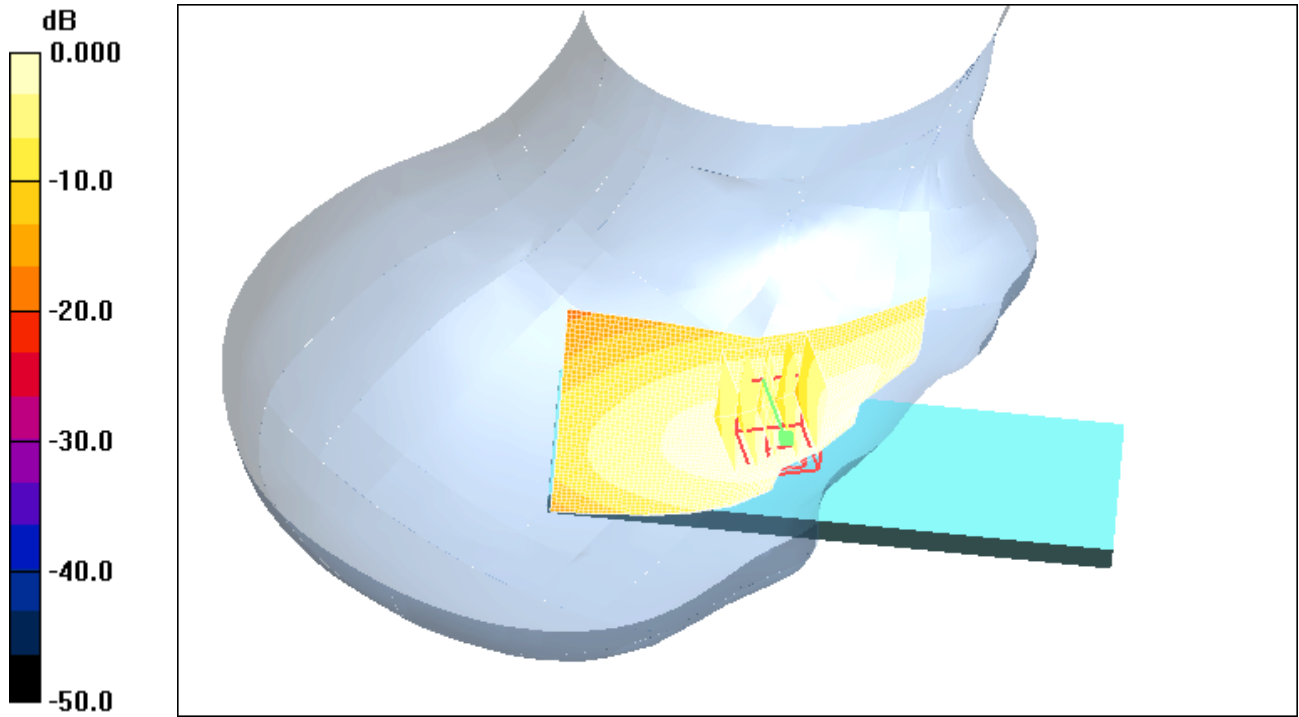
- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Touch position - Low/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.744 mW/g

Touch position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.8 V/m; Power Drift = 0.040 dB
Peak SAR (extrapolated) = 0.946 W/kg
SAR(1 g) = 0.663 mW/g; SAR(10 g) = 0.455 mW/g
Maximum value of SAR (measured) = 0.746 mW/g

Touch position - Low/Area Scan 2 (51x51x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.737 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 11(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 0.737mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 12(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 01/12/2008 3:35:49 PM

Test Laboratory: RTS

File Name: [RightHandSide_CDMA800_mid_chan_amb_temp_23.5_liq_temp_22.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: 3048F4CB
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.867$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

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

Maximum value of SAR (interpolated) = 0.851 mW/g

Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 32.4 V/m; Power Drift = -0.098 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.770 mW/g; SAR(10 g) = 0.522 mW/g

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

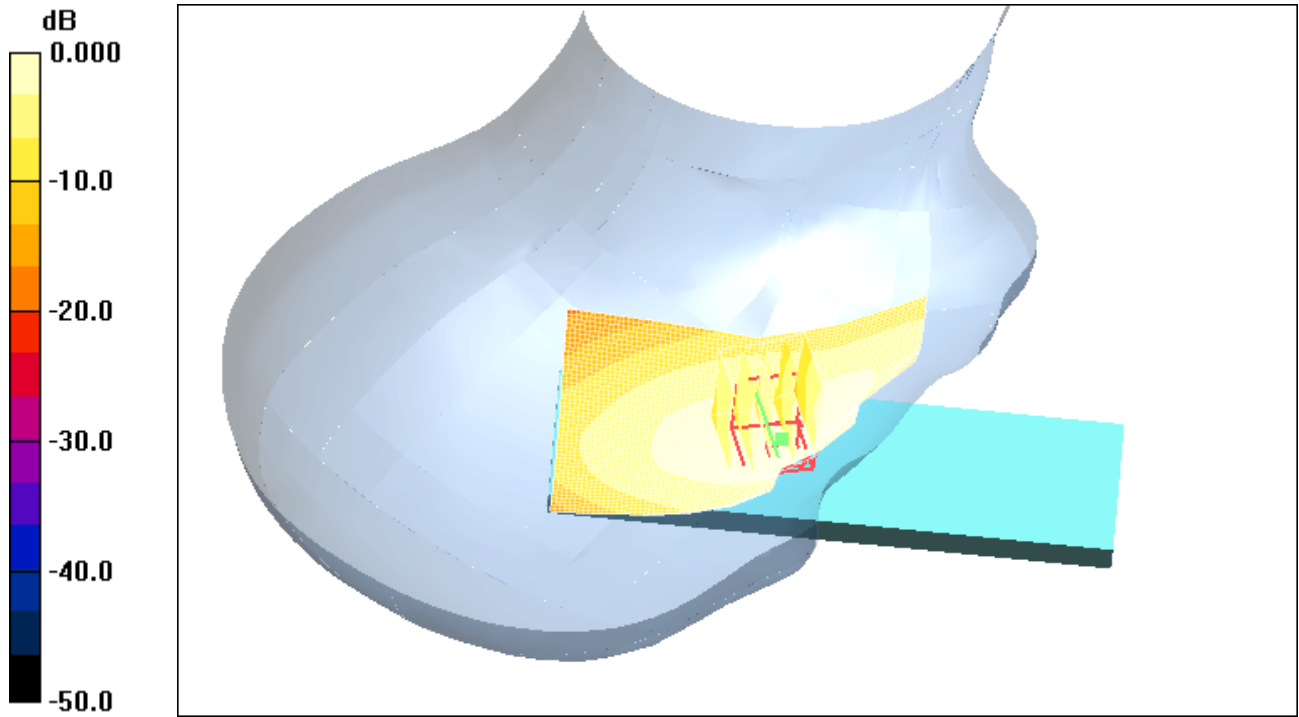
Maximum value of SAR (measured) = 0.824 mW/g

Touch position - Middle/Area Scan 2 (51x51x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.824 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 13(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 0.824mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 14(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 02/12/2008 9:19:24 AM

Test Laboratory: RTS

File Name:

[RightHandSide_CDMA800_high_chan_amb_temp_23.3_liq_temp_22.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: 3048F4CB
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 848.52 \text{ MHz}$; $\sigma = 0.878 \text{ mho/m}$; $\epsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

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

Maximum value of SAR (interpolated) = 0.887 mW/g

Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 33.4 V/m; Power Drift = -0.142 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.822 mW/g; SAR(10 g) = 0.549 mW/g

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

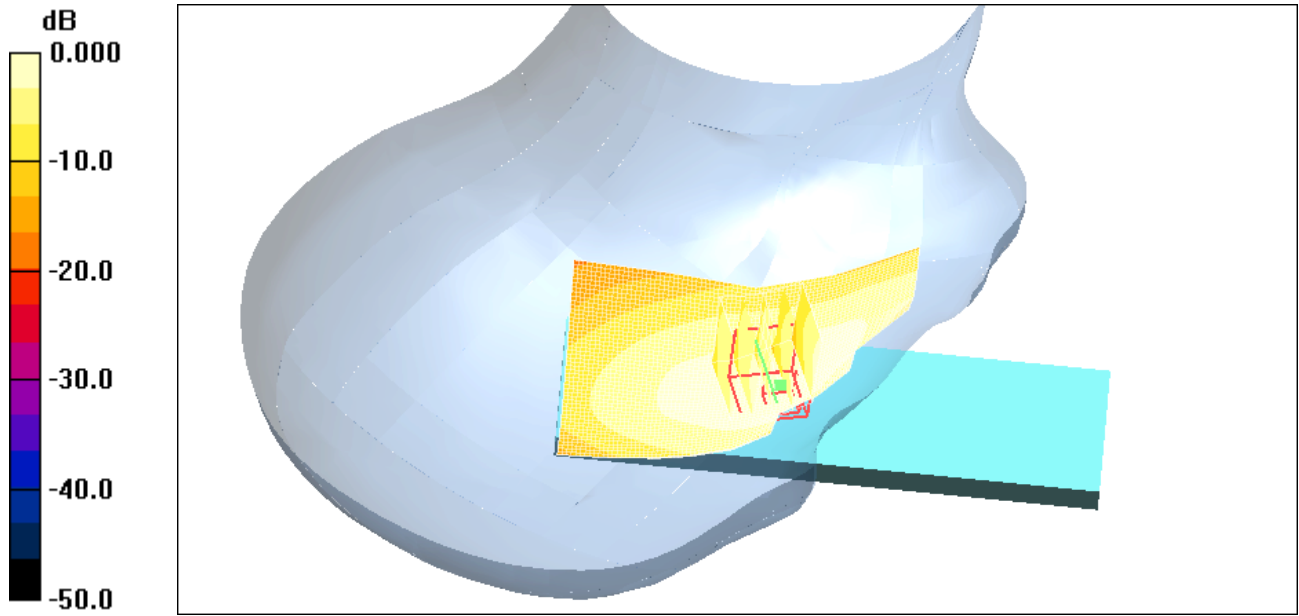
Maximum value of SAR (measured) = 0.877 mW/g

Touch position - High/Area Scan 2 (51x51x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.889 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 15(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 0.889mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 16(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 02/12/2008 9:46:59 AM

Test Laboratory: RTS

File Name:

[RightHandSide_Tilt_CDMA800_mid_chan_amb_temp_22.7_liq_temp_22.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: 3048F4CB
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.867 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

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

Maximum value of SAR (interpolated) = 0.432 mW/g

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

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

Reference Value = 23.5 V/m; Power Drift = -0.085 dB

Peak SAR (extrapolated) = 0.495 W/kg

SAR(1 g) = 0.407 mW/g; SAR(10 g) = 0.306 mW/g

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

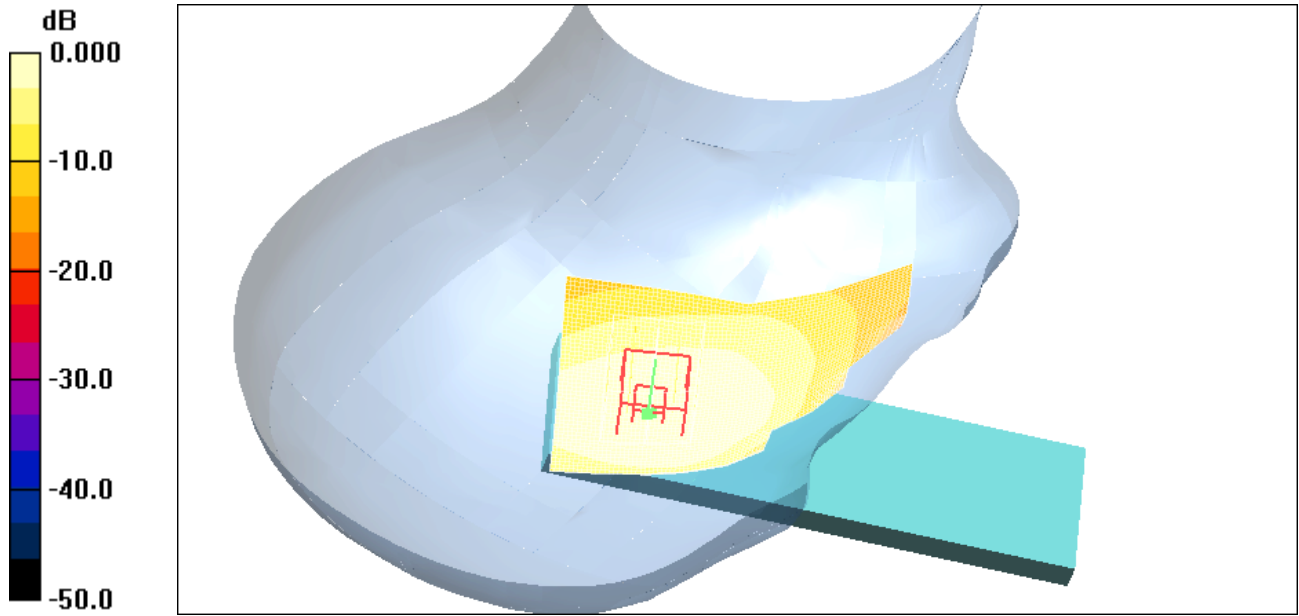
Maximum value of SAR (measured) = 0.430 mW/g

Touch position - Middle/Area Scan 2 (51x51x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.445 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 17(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 0.445mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 18(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 02/12/2008 10:34:11 AM

Test Laboratory: RTS

File Name:

[Head_Flat_phantom_CDMA800_low_chan_amb_temp_22.9_liq_temp_22.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: 3048F4CB

Program Name: Compliance Testing: Head Flat Phantom

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 825$ MHz; $\sigma = 0.855$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

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

Touch position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 39.6 V/m; Power Drift = -0.283 dB

Peak SAR (extrapolated) = 1.81 W/kg

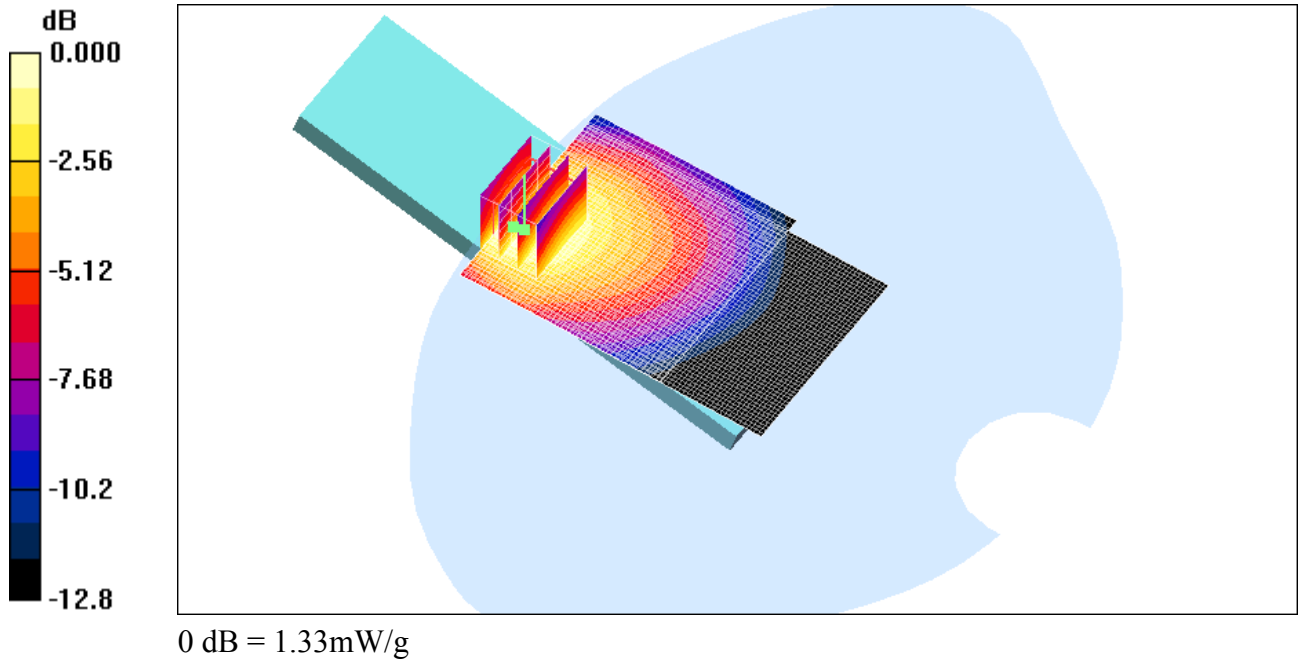
SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.791 mW/g

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

Touch position - Low/Area Scan 2 (41x41x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.33 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 19(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 20(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 02/12/2008 10:51:37 AM

Test Laboratory: RTS

File Name:

[Head Flat phantom CDMA800 mid_chan_amb_temp_23.3_liq_temp_22.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: 3048F4CB

Program Name: Compliance Testing: Head Flat Phantom

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.867$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

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

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

Touch position - Mid/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 37.3 V/m; Power Drift = -0.106 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.735 mW/g

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

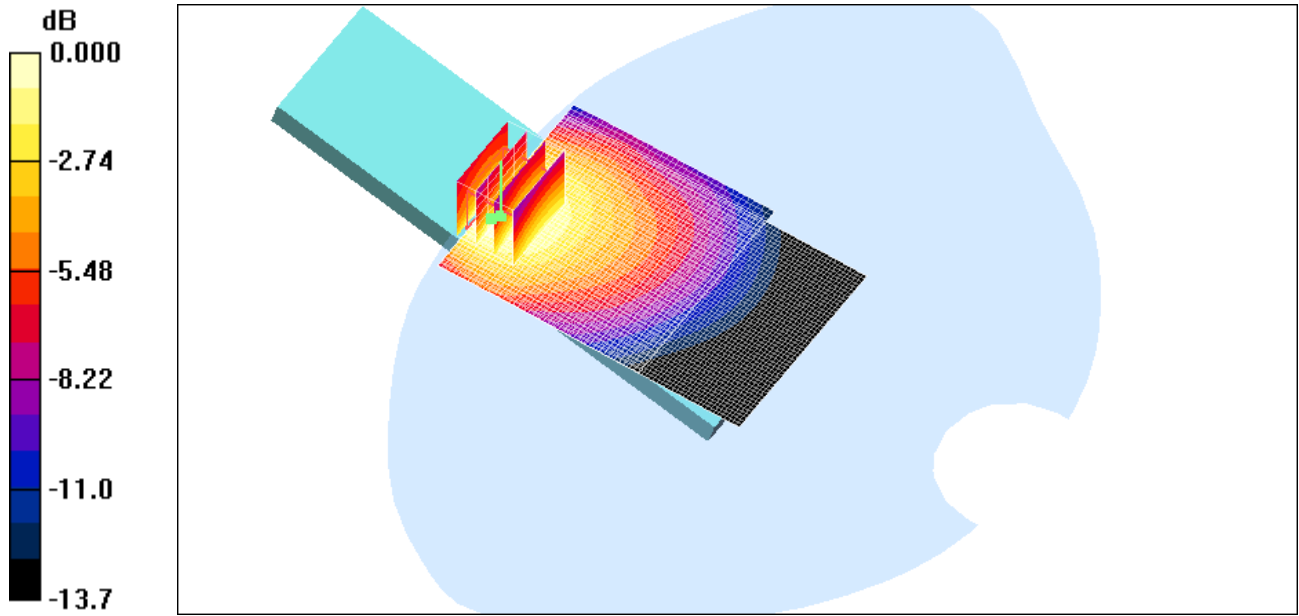
Maximum value of SAR (measured) = 1.13 mW/g

Touch position - Mid/Area Scan 2 (41x41x1): Measurement grid: dx=20mm, dy=20mm

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

Maximum value of SAR (interpolated) = 1.16 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 21(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 1.16mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 22(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 02/12/2008 11:07:06 AM

Test Laboratory: RTS

File Name:

[Head Flat phantom CDMA800 high chan amb temp 23.2 liq temp 22.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: 3048F4CB

Program Name: Compliance Testing: Head Flat Phantom

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 848.52$ MHz; $\sigma = 0.878$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

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

Maximum value of SAR (interpolated) = 1.04 mW/g

Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 35.6 V/m; Power Drift = -0.161 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.674 mW/g

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

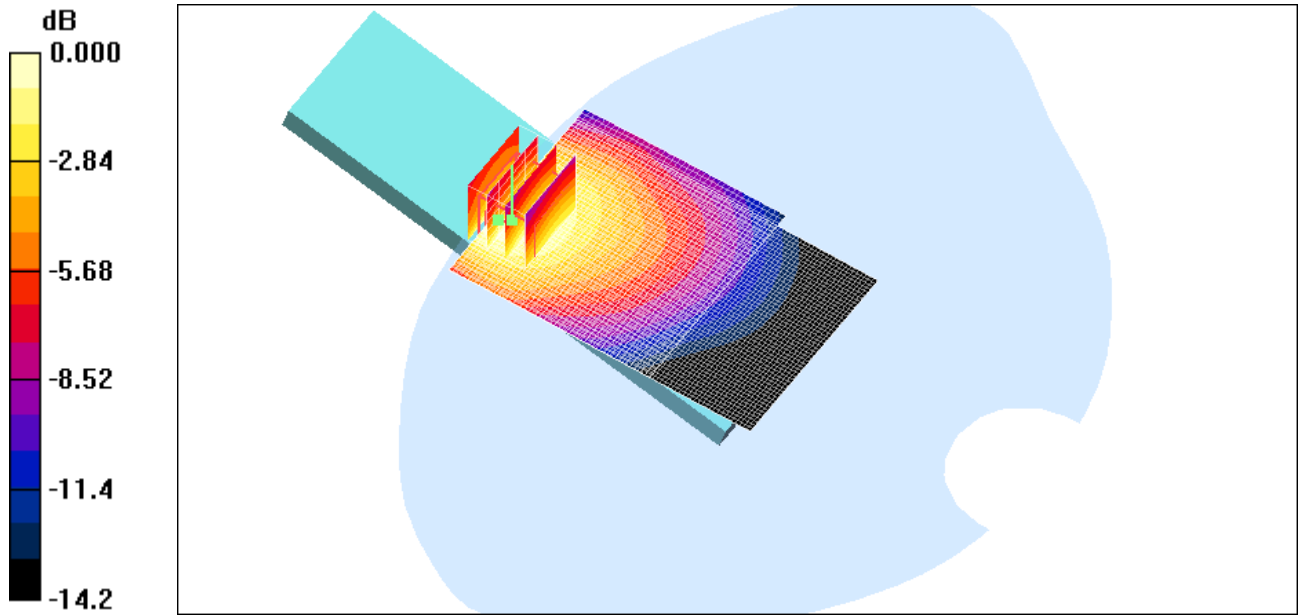
Maximum value of SAR (measured) = 1.06 mW/g

Touch position - High/Area Scan 2 (41x41x1): Measurement grid: dx=20mm, dy=20mm

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

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

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 23(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 1.06mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 24(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 27/11/2008 1:59:10 PM

Test Laboratory: RTS

File Name: [LeftHandSide_CDMA1900_mid_chan_amb_temp_24.0_liq_temp_22.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3048F4CB
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Touch position - Mid/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$,
 $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.01 mW/g

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

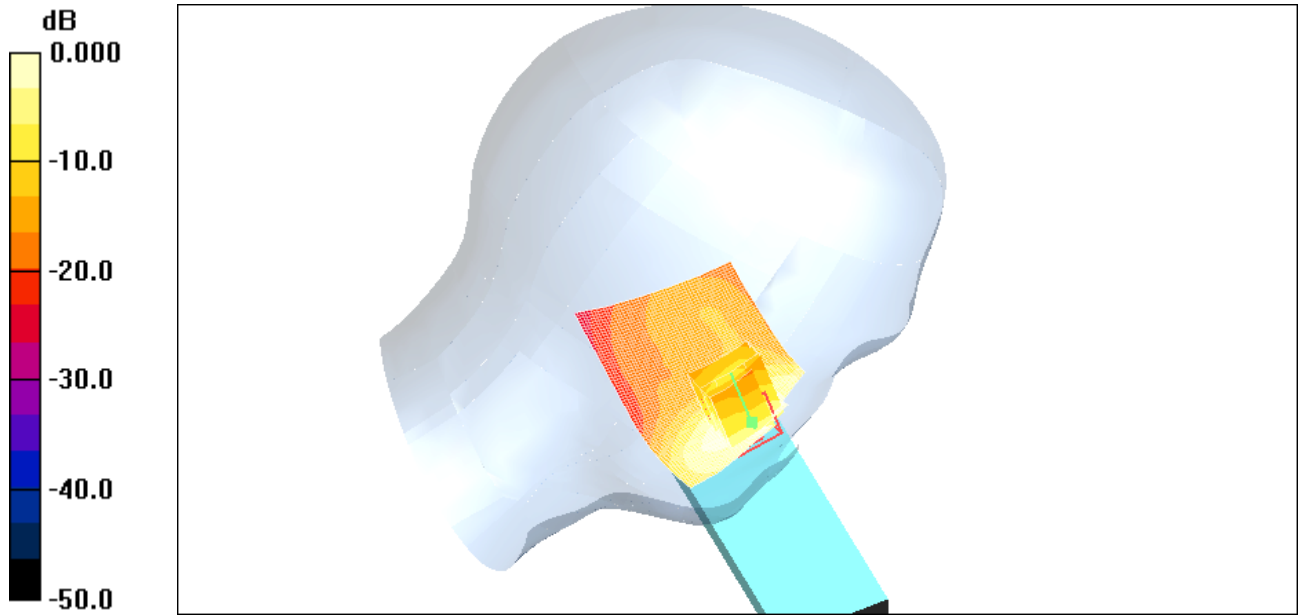
Reference Value = 4.56 V/m; Power Drift = 0.349 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.932 mW/g; SAR(10 g) = 0.554 mW/g

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

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 25(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 1.02mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 26(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 27/11/2008 2:50:59 PM

Test Laboratory: RTS

File Name:

[LeftHandSide_CDMA1900_high_chan_amb_temp_24.1_liq_temp_23.0C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3048F4CB
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): $f = 1908.5 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 38$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Touch position - High/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) = 1.26 mW/g

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

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

Reference Value = 4.19 V/m; Power Drift = -0.022 dB

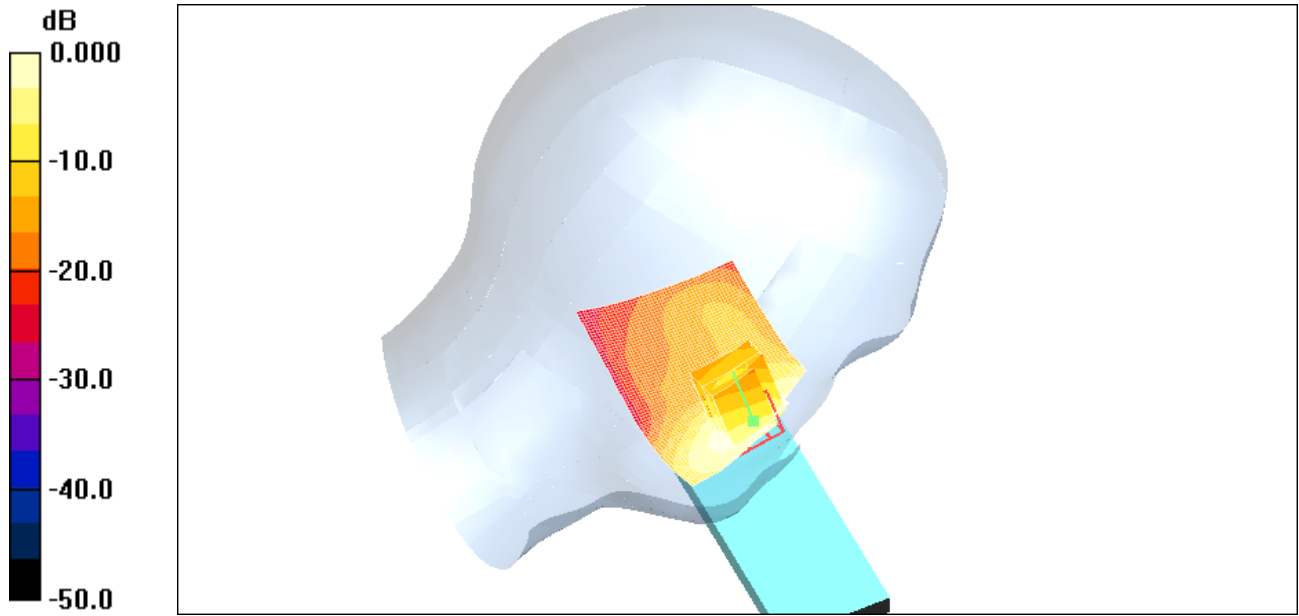
Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.655 mW/g

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

Maximum value of SAR (measured) = 1.30 mW/g

RTS RIM Testing Services	Document	Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page	27(44)
	Author Data	Dates of Test	Test Report No	FCC ID:	
Jean-Paul Hacquoil	Nov 27 - Dec 02, 2008	RTS-1364-0812-03	L6ARCE20CW		



0 dB = 1.30mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 28(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 27/11/2008 3:12:19 PM

Test Laboratory: RTS

File Name:

[LeftHandSide Tilt CDMA1900_mid_chan_amb_temp_24.0_liq_temp_23.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3048F4CB
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 0.236 mW/g

Touch position - Mid/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

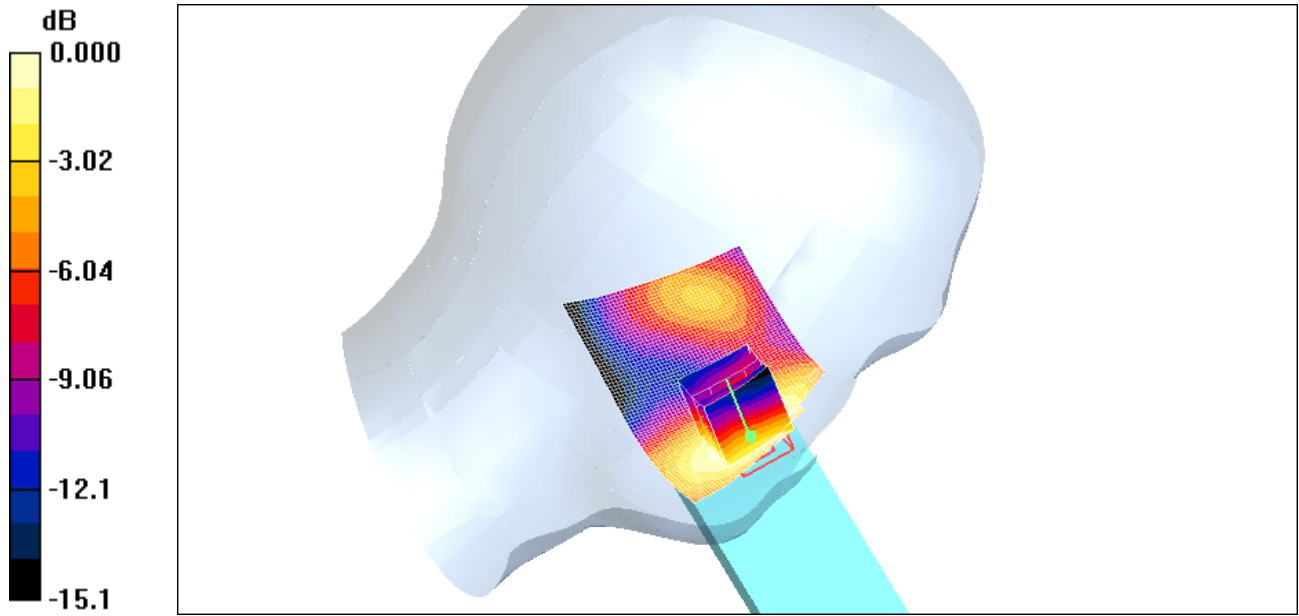
Reference Value = 7.57 V/m; Power Drift = 0.158 dB

Peak SAR (extrapolated) = 0.287 W/kg

SAR(1 g) = 0.217 mW/g; SAR(10 g) = 0.146 mW/g

Maximum value of SAR (measured) = 0.234 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 29(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 0.234mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 30(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 28/11/2008 8:27:23 AM

Test Laboratory: RTS

File Name:

[RightHandSide_CDMA1900_low_chan_amb_temp_23.5_liq_temp_22.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: 3048F4CB
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.35 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Touch position - Low/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) = 0.965 mW/g

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

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

Reference Value = 6.94 V/m; Power Drift = 0.119 dB

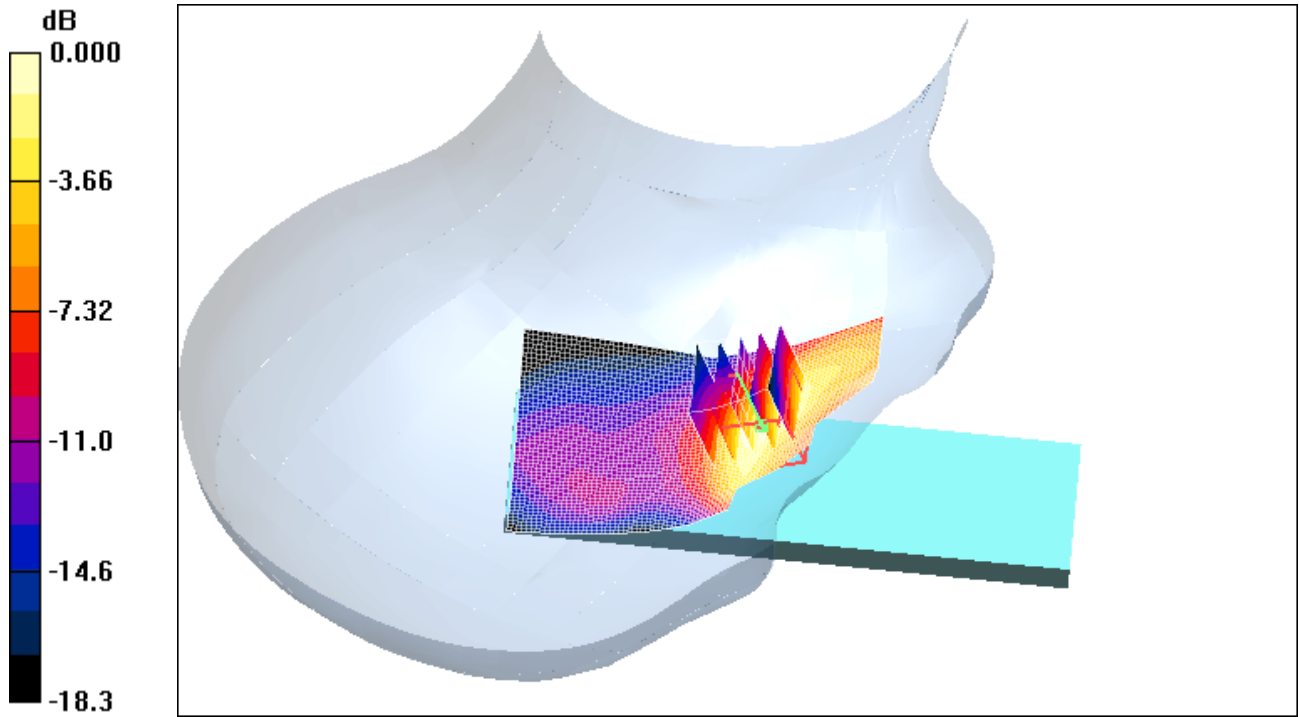
Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.885 mW/g; SAR(10 g) = 0.488 mW/g

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

Maximum value of SAR (measured) = 0.940 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 31(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 0.940mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 32(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 27/11/2008 3:42:07 PM

Test Laboratory: RTS

File Name:

[RightHandSide_CDMA1900_mid_chan_amb_temp_23.4_liq_temp_22.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: 3048F4CB
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 0.777 mW/g

Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

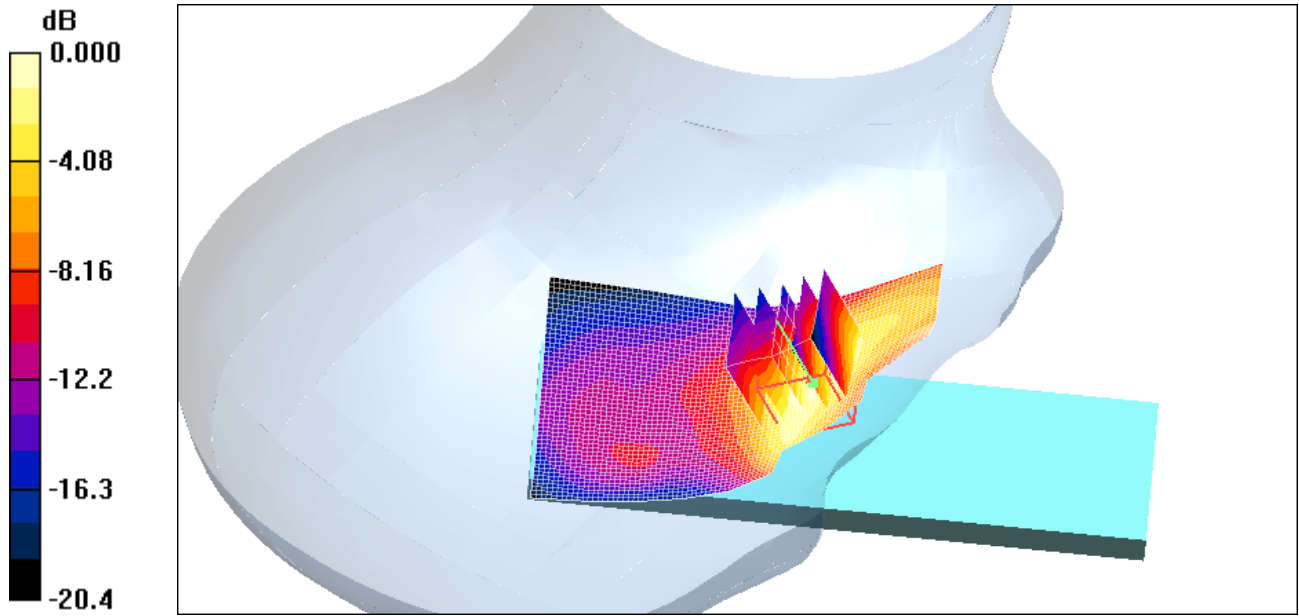
Reference Value = 5.84 V/m; Power Drift = -0.345 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.805 mW/g; SAR(10 g) = 0.434 mW/g

Maximum value of SAR (measured) = 0.863 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 33(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 0.863mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 34(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 28/11/2008 8:42:37 AM

Test Laboratory: RTS

File Name:

[RightHandSide_CDMA1900_high_chan_amb_temp_23.3_liq_temp_22.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: 3048F4CB
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

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

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

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

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

Reference Value = 6.77 V/m; Power Drift = -0.105 dB

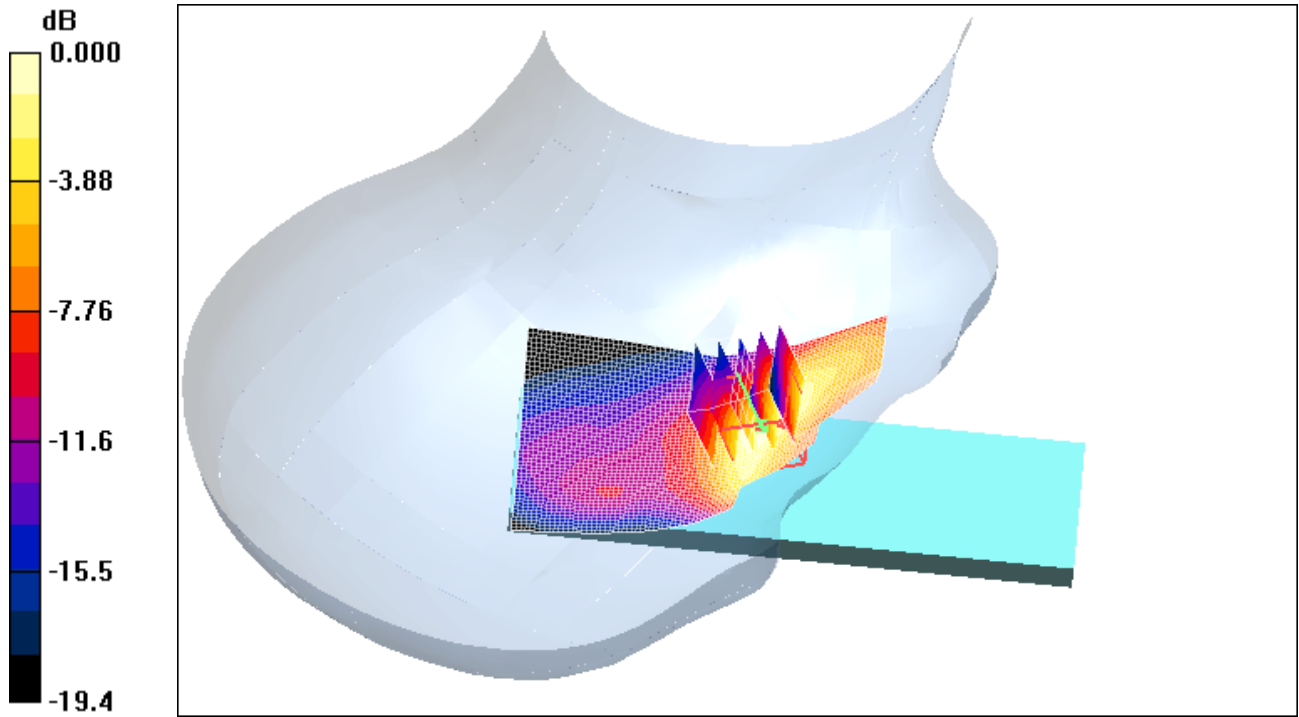
Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.589 mW/g

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

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

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 35(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 1.17mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 36(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 28/11/2008 8:58:59 AM

Test Laboratory: RTS

File Name:

[RightHandSide_Tilt_CDMA1900_mid_chan_amb_temp_23.0_liq_temp_22.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: 3048F4CB
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 0.187 mW/g

Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

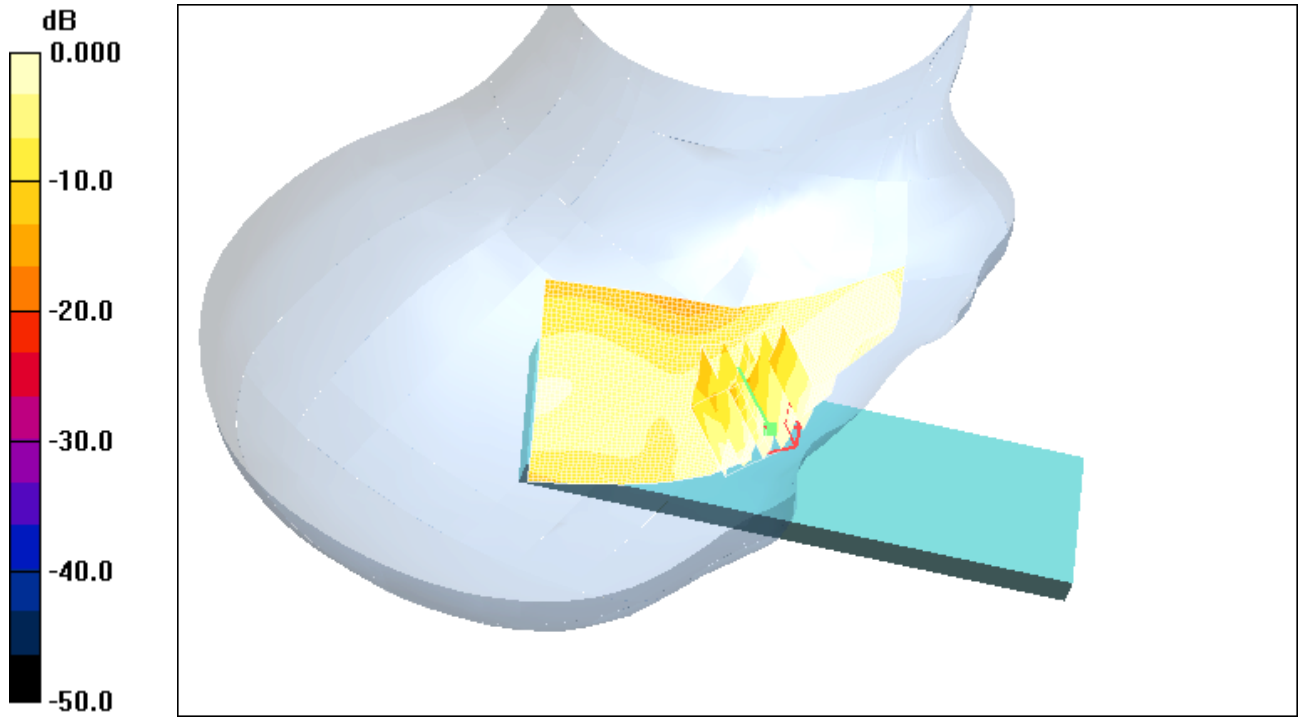
Reference Value = 9.08 V/m; Power Drift = -0.163 dB

Peak SAR (extrapolated) = 0.222 W/kg

SAR(1 g) = 0.170 mW/g; SAR(10 g) = n.a.

Maximum value of SAR (measured) = 0.182 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 37(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 0.182mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 38(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 28/11/2008 9:53:29 AM

Test Laboratory: RTS

File Name:

[Head_Flat_phantom_CDMA1900_low_chan_amb_temp_22.9_liq_temp_22.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: 3048F4CB

Program Name: Compliance Testing: Head Flat Phantom

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.35$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

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

Maximum value of SAR (interpolated) = 0.843 mW/g

Touch position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.8 V/m; Power Drift = -0.171 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.775 mW/g; SAR(10 g) = 0.468 mW/g

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

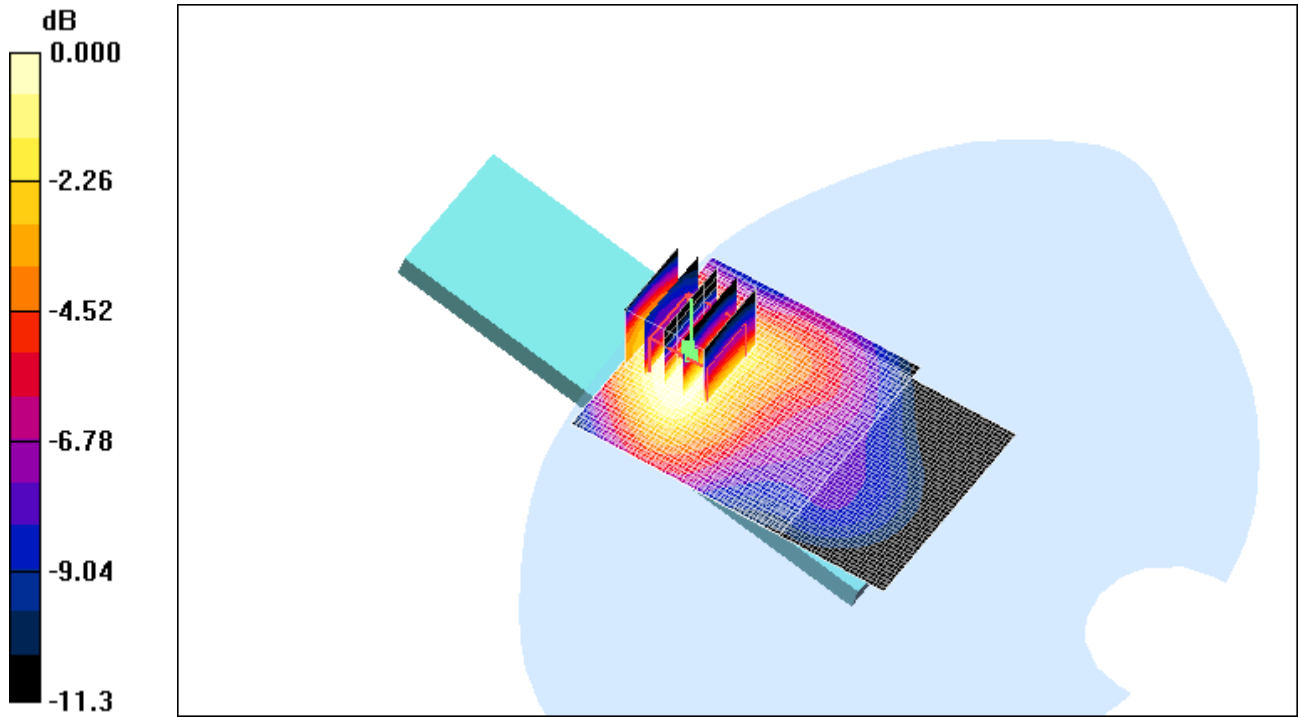
Maximum value of SAR (measured) = 0.867 mW/g

Touch position - Low/Area Scan 2 (41x41x1): Measurement grid: dx=20mm, dy=20mm

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

Maximum value of SAR (interpolated) = 0.839 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 39(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 0.839mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 40(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 28/11/2008 10:11:47 AM

Test Laboratory: RTS

File Name:

[Head Flat phantom CDMA1900 mid_chan_amb_temp_22.8_liq_temp_22.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: 3048F4CB

Program Name: Compliance Testing: Head Flat Phantom

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 0.860 mW/g

Touch position - Mid/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 25.4 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 1.59 W/kg

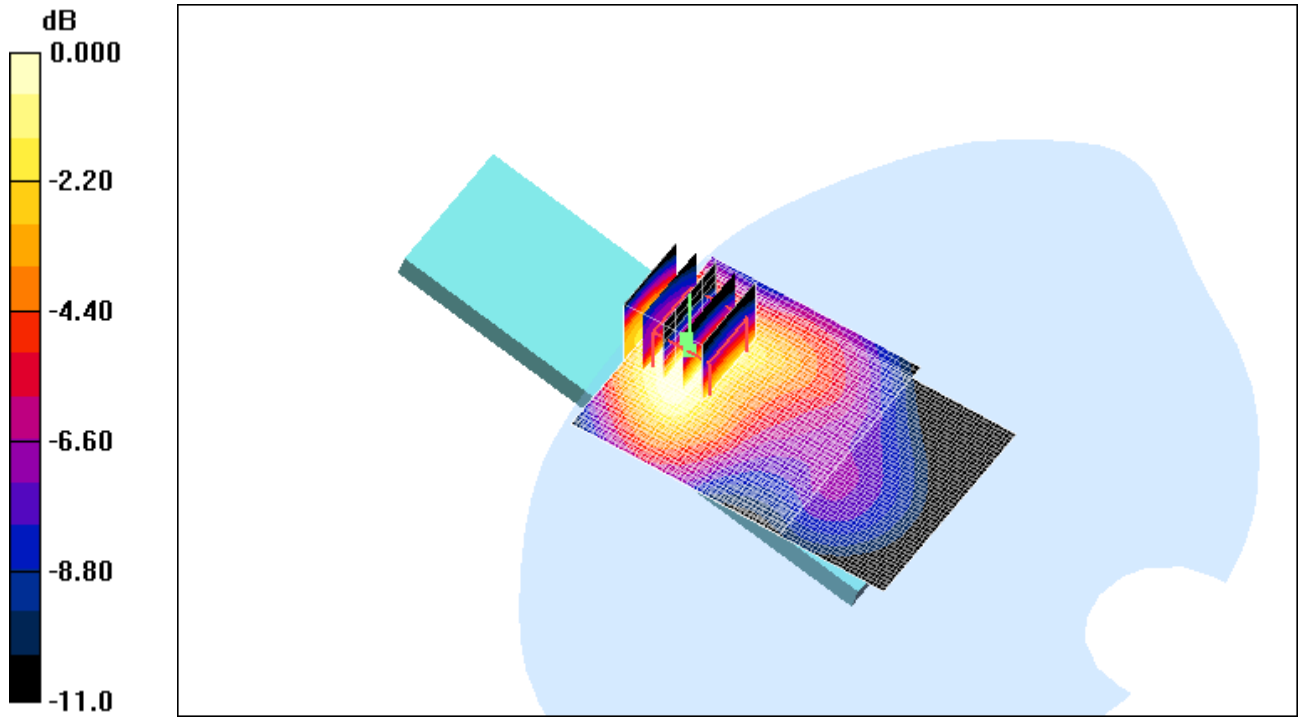
SAR(1 g) = 0.787 mW/g; SAR(10 g) = 0.471 mW/g

Maximum value of SAR (measured) = 0.858 mW/g

Touch position - Mid/Area Scan 2 (41x41x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.876 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 41(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 0.876mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 42(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Date/Time: 28/11/2008 10:34:41 AM

Test Laboratory: RTS

File Name:

[Head_Flat_phantom_CDMA1900_high_chan_amb_temp_22.8_liq_temp_22.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Clamshell; Serial: 3048F4CB

Program Name: Compliance Testing: Head Flat Phantom

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

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

Maximum value of SAR (interpolated) = 0.641 mW/g

Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.0 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.577 mW/g; SAR(10 g) = 0.336 mW/g

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

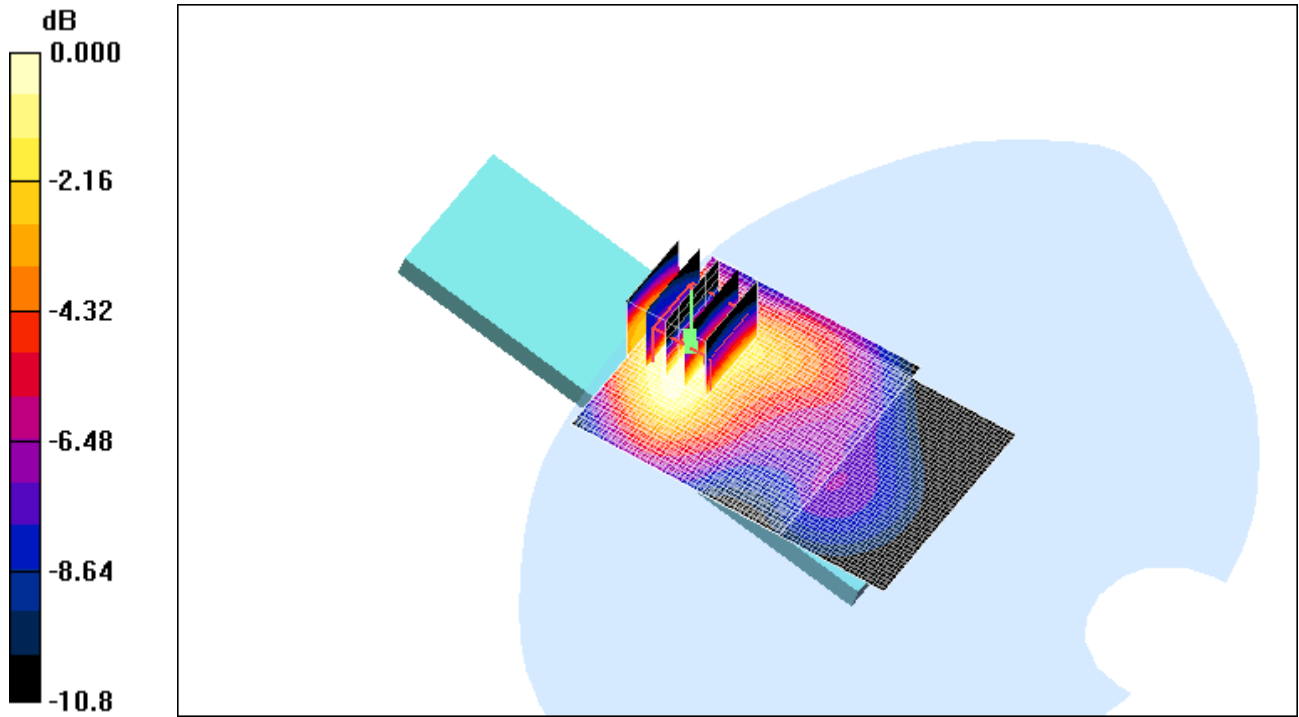
Maximum value of SAR (measured) = 0.639 mW/g

Touch position - High/Area Scan 2 (41x41x1): Measurement grid: dx=20mm, dy=20mm

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

Maximum value of SAR (interpolated) = 0.630 mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 43(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03



0 dB = 0.630mW/g

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCE21CW SAR Report		Page 44(44)
	Author Data Jean-Paul Hacquoil	Dates of Test Nov 27 - Dec 02, 2008	Test Report No RTS-1364-0812-03

Z axis plot for the worst case head configuration:

