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Author Data Andrew Becker	Dates of Test Mar 15 – Apr 26, 2010	Test Report No RTS-2341-1004-61	FCC ID: L6ARCW40GW	IC ID: 2503A-RCW40GW

APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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Andrew Becker	Mar 15 – Apr 26, 2010	RTS-2341-1004-61	L6ARCW40GW	2503A-RCW40GW

Date/Time: 4/26/2010 8:51:12 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back GPRS850 low chan amb temp 23.7C liq temp 21.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3158DB69

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 850; Frequency: 824.2 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.660 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

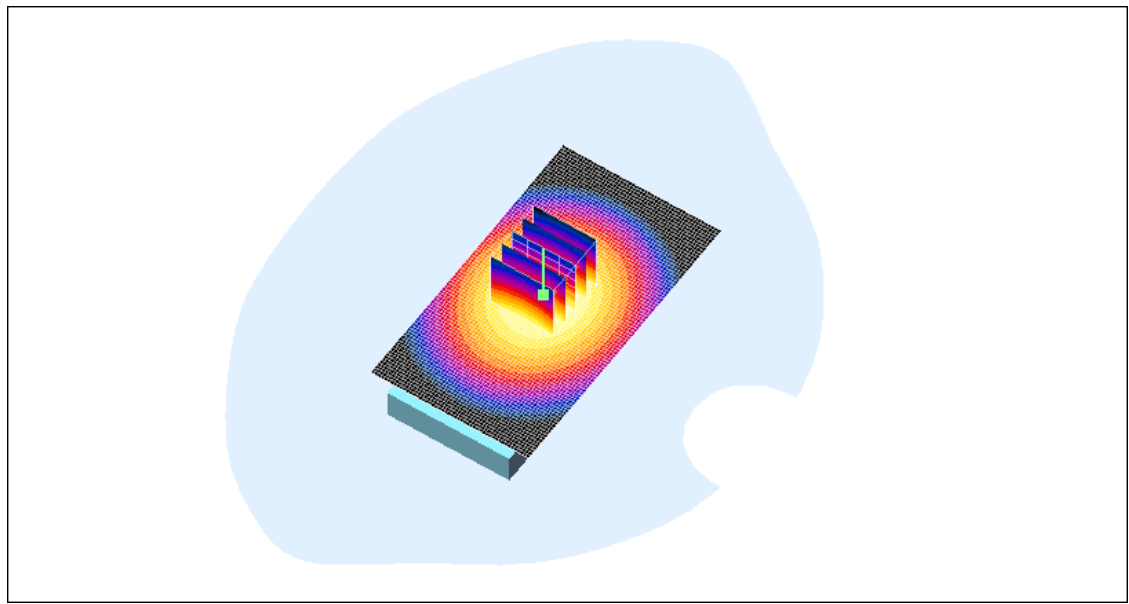
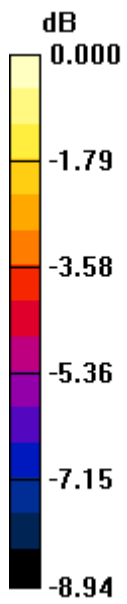
Reference Value = 25.5 V/m; Power Drift = -0.060 dB

Peak SAR (extrapolated) = 0.840 W/kg

SAR(1 g) = 0.619 mW/g; SAR(10 g) = 0.450 mW/g

Maximum value of SAR (measured) = 0.654 mW/g

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0 dB = 0.654mW/g

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Andrew Becker	Mar 15 – Apr 26, 2010	RTS-2341-1004-61	L6ARCW40GW	2503A-RCW40GW

Date/Time: 4/26/2010 9:06:14 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back GPRS850 mid chan amb temp 23.7C liq temp 21.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3158DB69

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 52.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.681 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 25.7 V/m; Power Drift = -0.064 dB

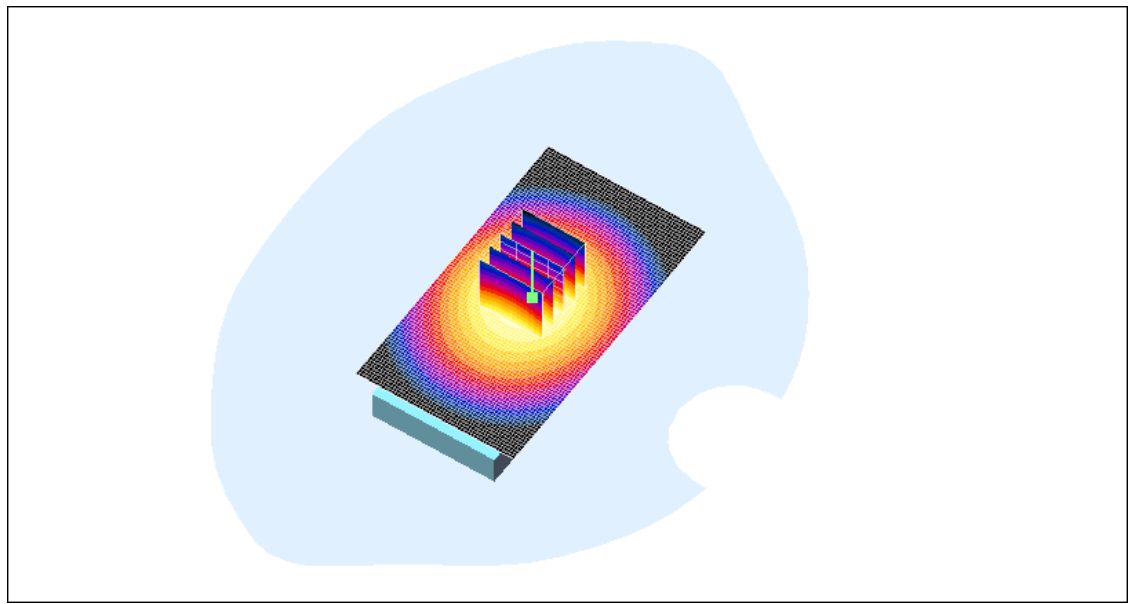
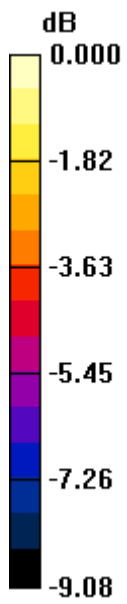
Peak SAR (extrapolated) = 0.859 W/kg

SAR(1 g) = 0.637 mW/g; SAR(10 g) = 0.464 mW/g

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

Maximum value of SAR (measured) = 0.673 mW/g

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0 dB = 0.673mW/g

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Date/Time: 4/26/2010 9:22:07 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back GPRS850 high chan amb temp 23.7C liq temp 21.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3158DB69

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.2

Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 1.03 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.616 mW/g

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

Reference Value = 24.2 V/m ; Power Drift = -0.013 dB

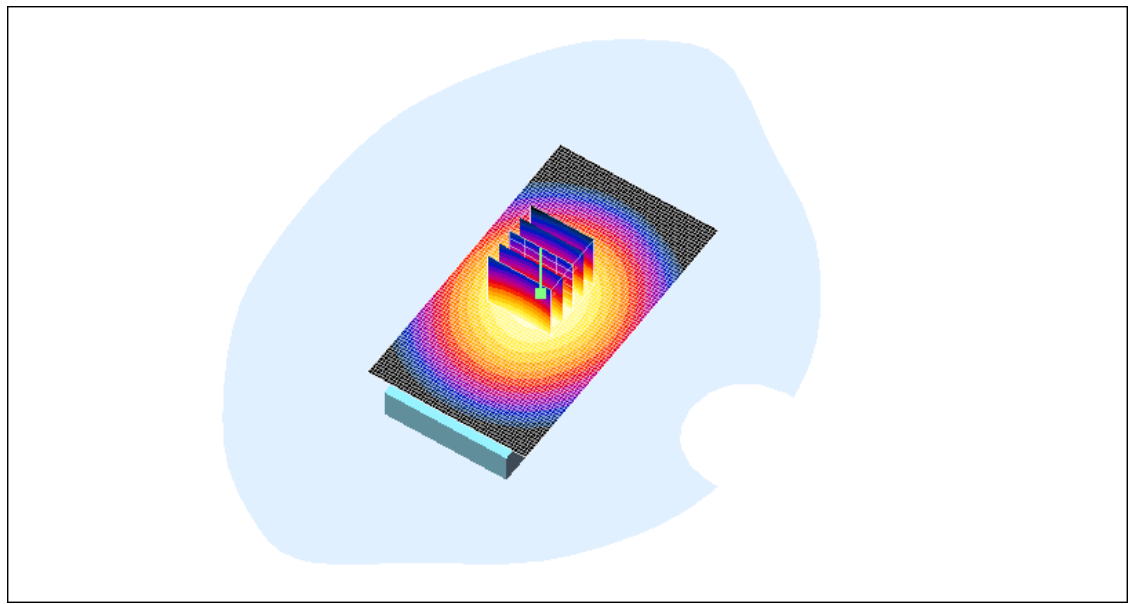
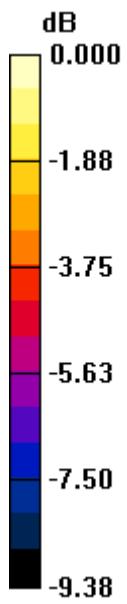
Peak SAR (extrapolated) = 0.788 W/kg

SAR(1 g) = 0.582 mW/g ; SAR(10 g) = 0.422 mW/g

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

Maximum value of SAR (measured) = 0.612 mW/g

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0 dB = 0.612mW/g

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Date/Time: 4/26/2010 9:41:22 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back GPRS850 mid chan amb temp 23.2C liq temp 21.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3158DB69

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 52.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.685 mW/g

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

Reference Value = 24.8 V/m; Power Drift = 0.030 dB

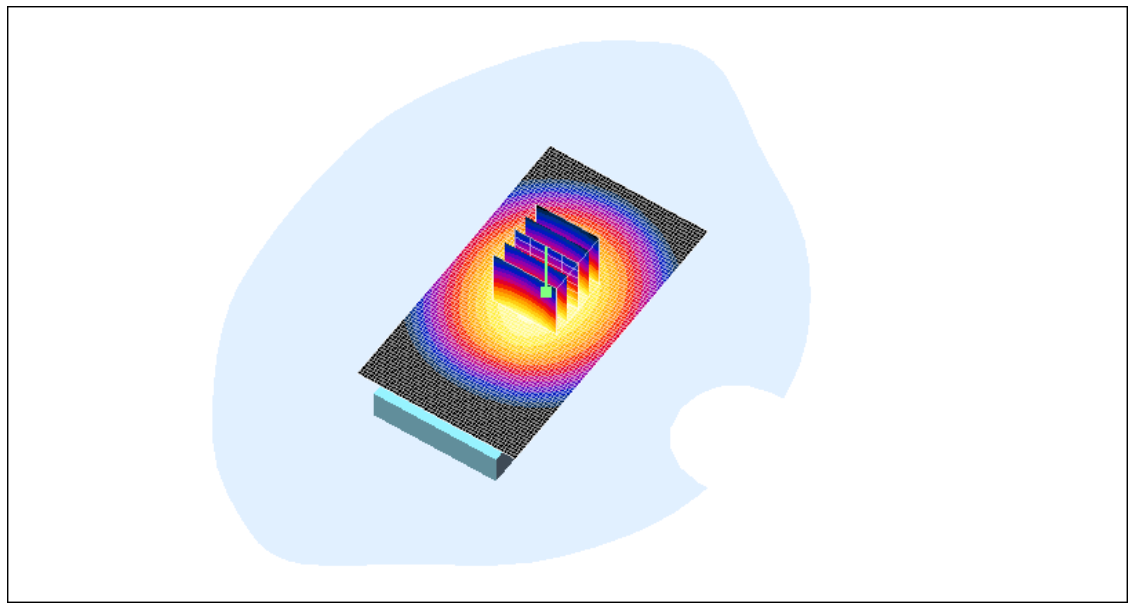
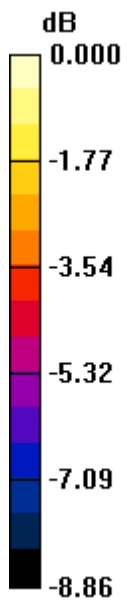
Peak SAR (extrapolated) = 0.857 W/kg

SAR(1 g) = 0.641 mW/g; SAR(10 g) = 0.466 mW/g

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

Maximum value of SAR (measured) = 0.678 mW/g

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0 dB = 0.678mW/g

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Date/Time: 4/26/2010 10:05:21 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Front GPRS850 mid chan amb temp 23.4C liq temp 21.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3158DB69

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 52.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

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

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.4 V/m; Power Drift = 0.033 dB

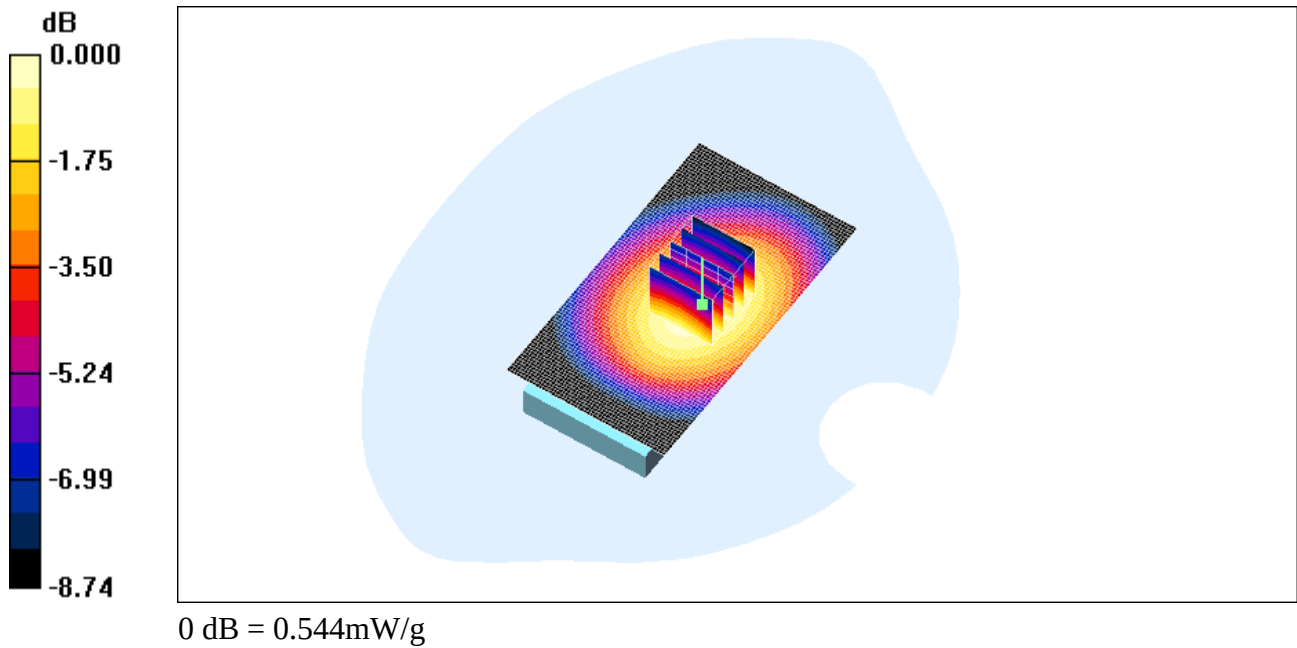
Peak SAR (extrapolated) = 0.680 W/kg

SAR(1 g) = 0.511 mW/g; SAR(10 g) = 0.373 mW/g

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

Maximum value of SAR (measured) = 0.544 mW/g

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Date/Time: 4/26/2010 10:31:32 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back HS#1 GPRS850 mid chan amb temp 23.7C liq temp 21.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3158DB69

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 52.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.636 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.0 V/m; Power Drift = -0.075 dB

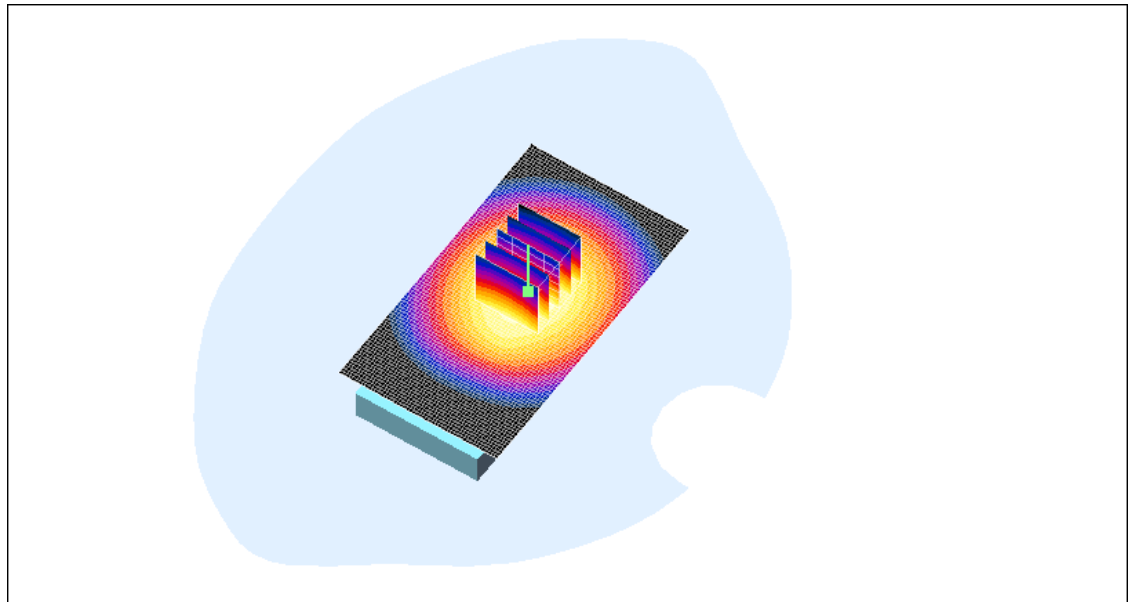
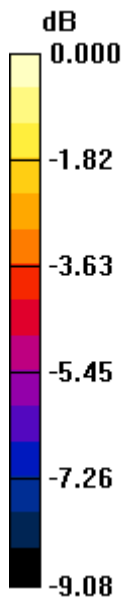
Peak SAR (extrapolated) = 0.800 W/kg

SAR(1 g) = 0.595 mW/g; SAR(10 g) = 0.432 mW/g

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

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

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0 dB = 0.630mW/g

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Date/Time: 4/26/2010 11:04:46 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [25mm Spacer GPRS850 mid chan amb temp 23.5C liq temp 21.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 3158DB69
Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 52.8$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.666 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.8 V/m; Power Drift = 0.045 dB

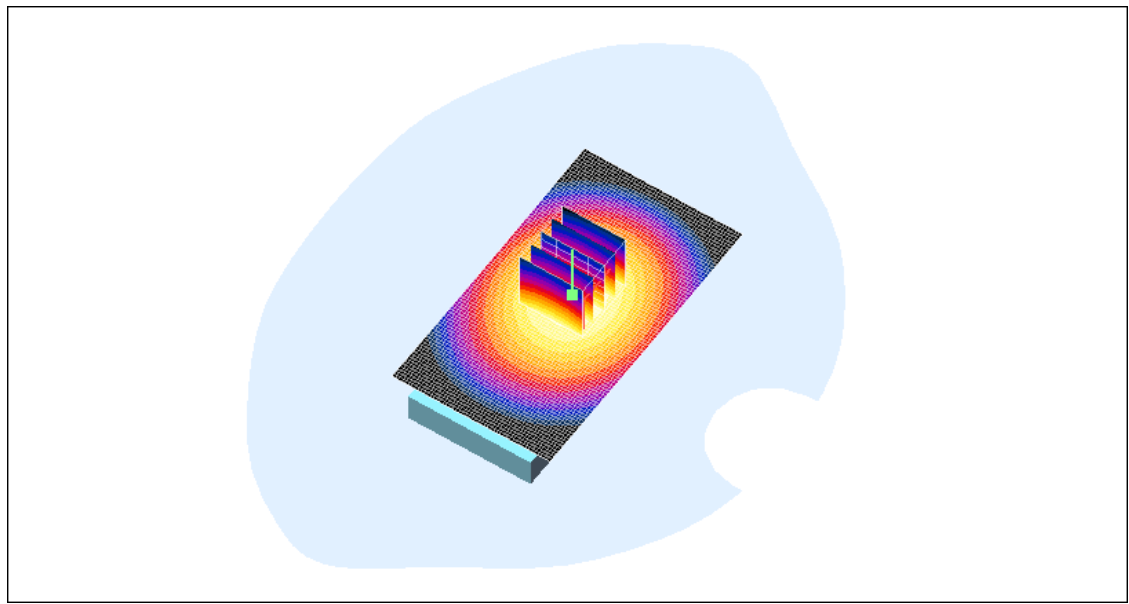
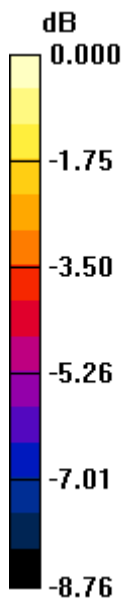
Peak SAR (extrapolated) = 0.850 W/kg

SAR(1 g) = 0.632 mW/g; SAR(10 g) = 0.461 mW/g

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

Maximum value of SAR (measured) = 0.665 mW/g

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0 dB = 0.665mW/g

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Date/Time: 3/25/2010 2:27:07 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back GPRS1900 mid chan amb temp 22.1C liq temp 21.0C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316FA02B

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.296 mW/g

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

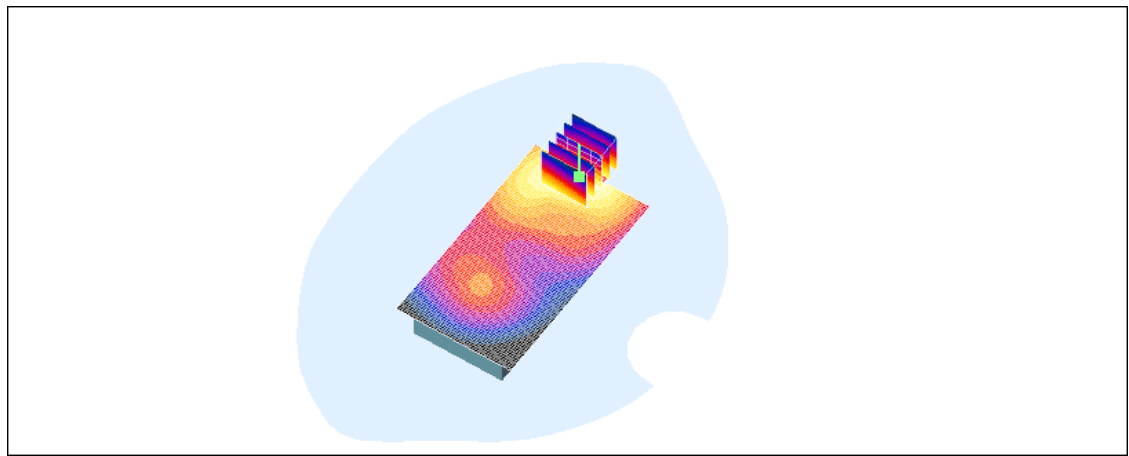
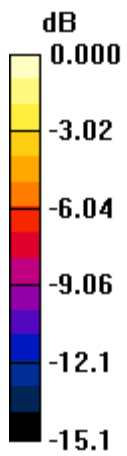
Reference Value = 5.04 V/m; Power Drift = 0.032 dB

Peak SAR (extrapolated) = 0.422 W/kg

SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.175 mW/g

Maximum value of SAR (measured) = 0.306 mW/g

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0 dB = 0.306mW/g

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Andrew Becker	Mar 15 – Apr 26, 2010	RTS-2341-1004-61	L6ARCW40GW	2503A-RCW40GW

Date/Time: 3/25/2010 2:41:51 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back GPRS1900 mid chan amb temp 22.4C liq temp 21.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316FA02B

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.316 mW/g

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

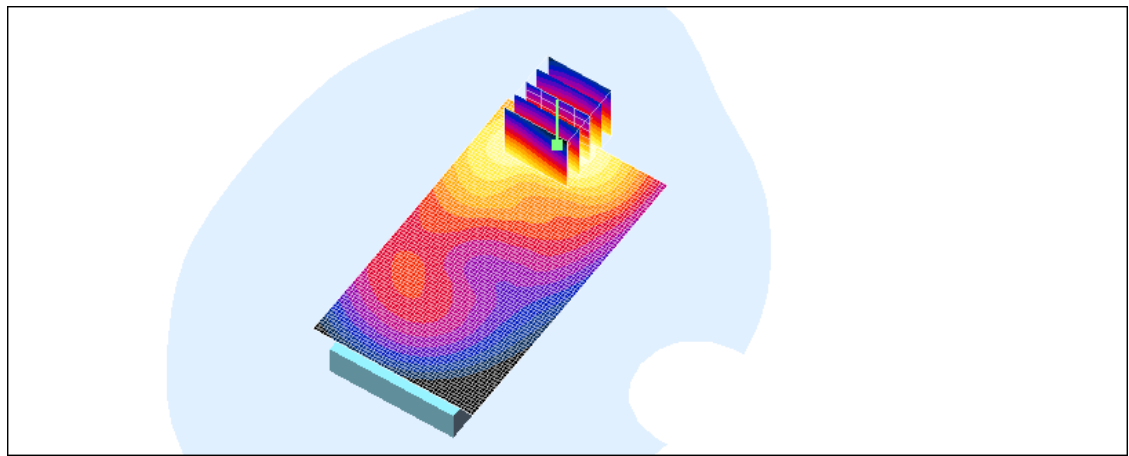
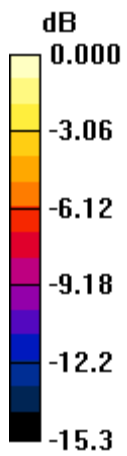
Reference Value = 4.89 V/m; Power Drift = 0.103 dB

Peak SAR (extrapolated) = 0.448 W/kg

SAR(1 g) = 0.299 mW/g; SAR(10 g) = 0.185 mW/g

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

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0 dB = 0.327mW/g

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Date/Time: 3/25/2010 5:53:56 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Front GPRS1900 mid chan amb temp 23.8C liq temp 21.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316FA02B

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.160 mW/g

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

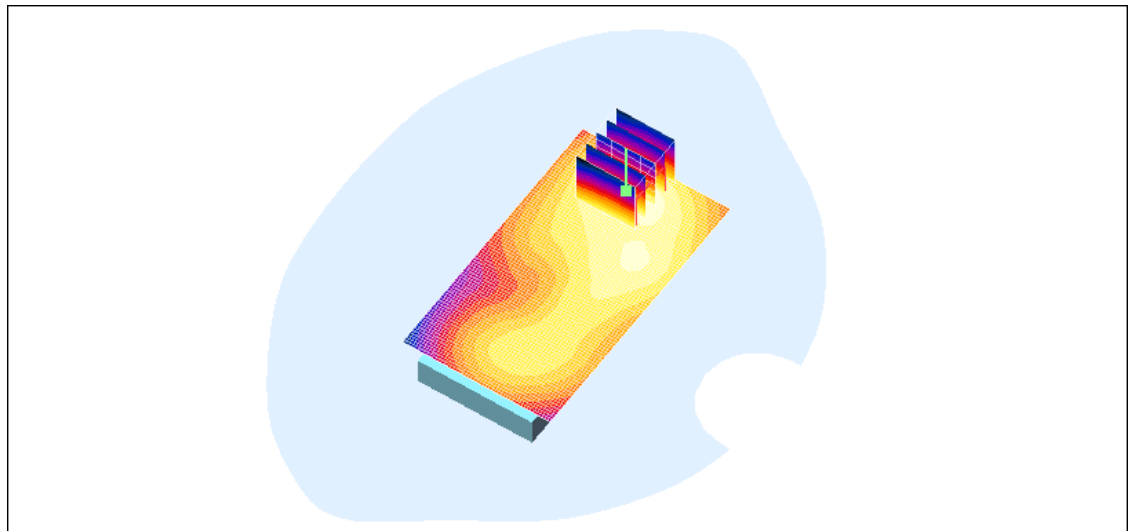
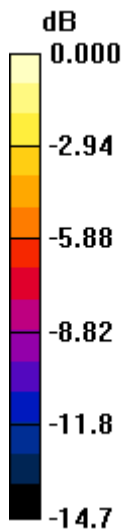
Reference Value = 6.87 V/m; Power Drift = -0.132 dB

Peak SAR (extrapolated) = 0.219 W/kg

SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.093 mW/g

Maximum value of SAR (measured) = 0.160 mW/g

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Author Data Andrew Becker	Dates of Test Mar 15 – Apr 26, 2010	Test Report No RTS-2341-1004-61	FCC ID: L6ARCW40GW	IC ID: 2503A-RCW40GW



0 dB = 0.160mW/g

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Author Data Andrew Becker	Dates of Test Mar 15 – Apr 26, 2010	Test Report No RTS-2341-1004-61	FCC ID: L6ARCW40GW	IC ID: 2503A-RCW40GW

Date/Time: 3/25/2010 6:12:00 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back HS#1 GPRS1900 mid chan amb temp 22.2C liq temp 21.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316FA02B

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.317 mW/g

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

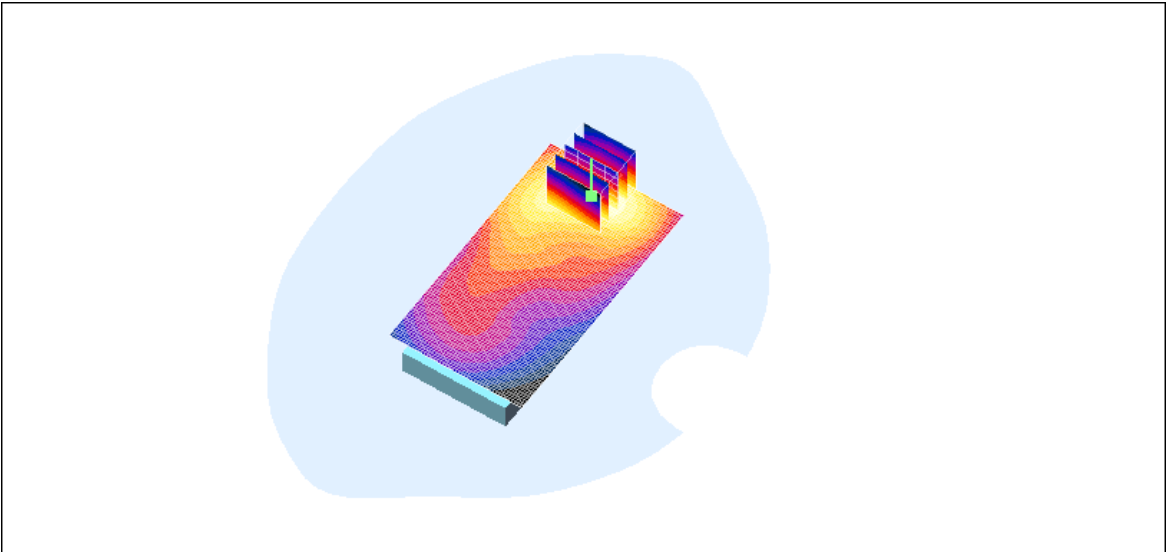
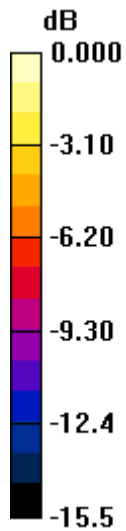
Reference Value = 5.93 V/m; Power Drift = 0.306 dB

Peak SAR (extrapolated) = 0.440 W/kg

SAR(1 g) = 0.294 mW/g; SAR(10 g) = 0.179 mW/g

Maximum value of SAR (measured) = 0.321 mW/g

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	Author Data Andrew Becker	Dates of Test Mar 15 – Apr 26, 2010	Test Report No RTS-2341-1004-61	FCC ID: L6ARCW40GW
		IC ID: 2503A-RCW40GW		



0 dB = 0.321mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
Andrew Becker	Mar 15 – Apr 26, 2010	RTS-2341-1004-61	L6ARCW40GW	2503A-RCW40GW

Date/Time: 3/25/2010 6:44:29 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[25mm Spacer GPRS1900 mid chan amb temp 23.1C liq temp 21.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316FA02B

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.192 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$,

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

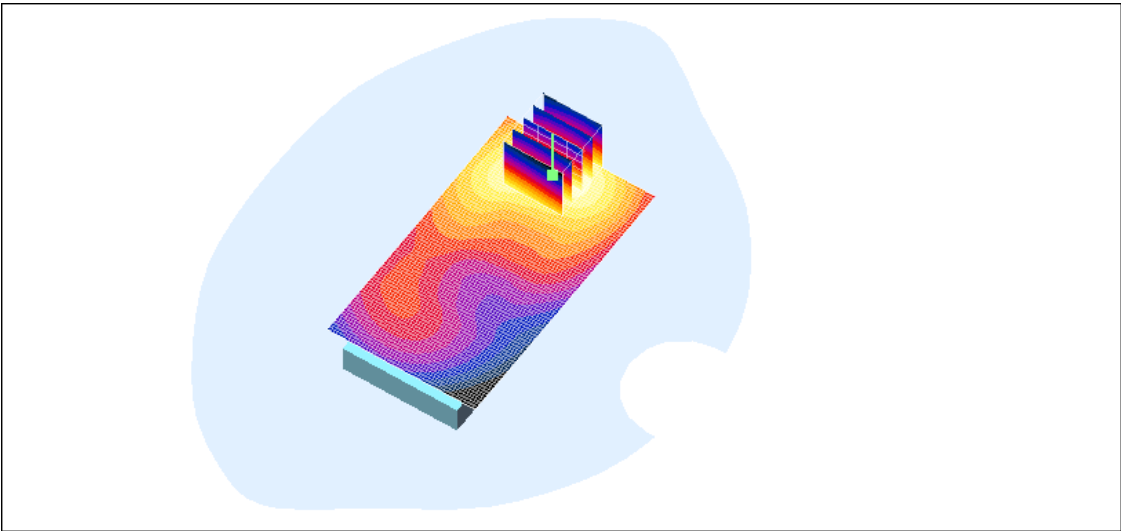
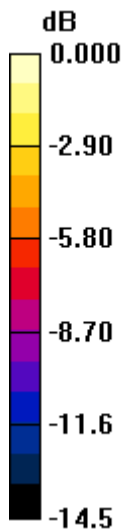
Reference Value = 4.11 V/m; Power Drift = 0.243 dB

Peak SAR (extrapolated) = 0.262 W/kg

SAR(1 g) = 0.177 mW/g; SAR(10 g) = 0.111 mW/g

Maximum value of SAR (measured) = 0.192 mW/g

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	Author Data Andrew Becker	Dates of Test Mar 15 – Apr 26, 2010	Test Report No RTS-2341-1004-61	FCC ID: L6ARCW40GW
		IC ID: 2503A-RCW40GW		



0 dB = 0.192mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
Andrew Becker	Mar 15 – Apr 26, 2010	RTS-2341-1004-61	L6ARCW40GW	2503A-RCW40GW

Date/Time: 3/15/2010 7:29:50 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back 802.11b mid chan amb temp 22.1C liq temp 20.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316FA02B

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.139 mW/g

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

Reference Value = 5.71 V/m ; Power Drift = -0.081 dB

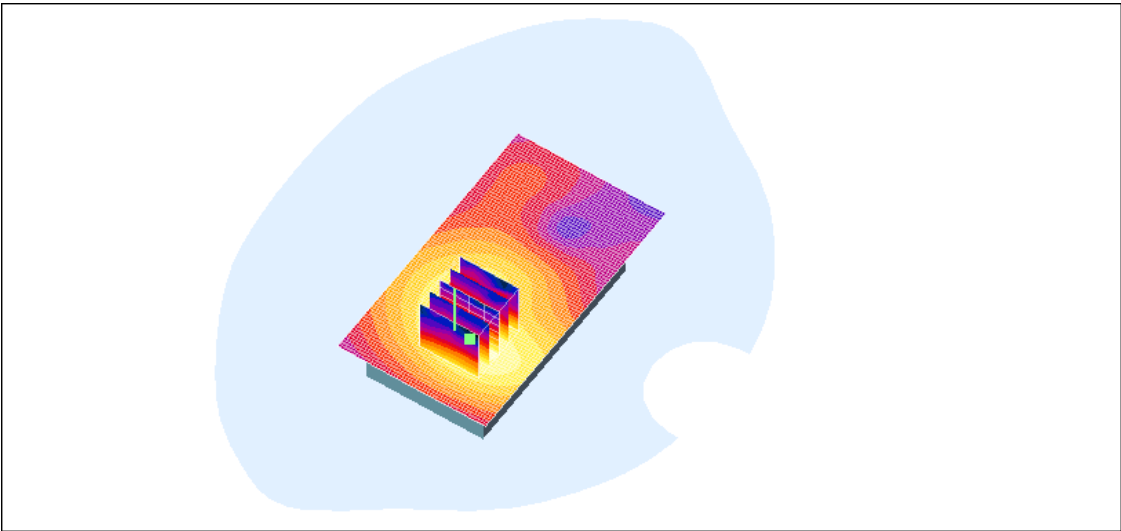
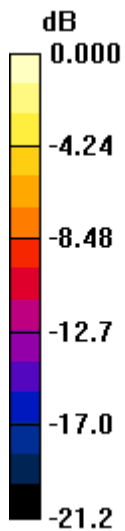
Peak SAR (extrapolated) = 0.319 W/kg

SAR(1 g) = 0.143 mW/g ; SAR(10 g) = 0.073 mW/g

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

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

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Author Data Andrew Becker	Dates of Test Mar 15 – Apr 26, 2010	Test Report No RTS-2341-1004-61	FCC ID: L6ARCW40GW	IC ID: 2503A-RCW40GW



0 dB = 0.149mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
Andrew Becker	Mar 15 – Apr 26, 2010	RTS-2341-1004-61	L6ARCW40GW	2503A-RCW40GW

Date/Time: 3/15/2010 8:03:11 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back 802.11b mid chan amb temp 21.9C liq temp 20.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316FA02B

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.098 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.52 V/m; Power Drift = -0.253 dB

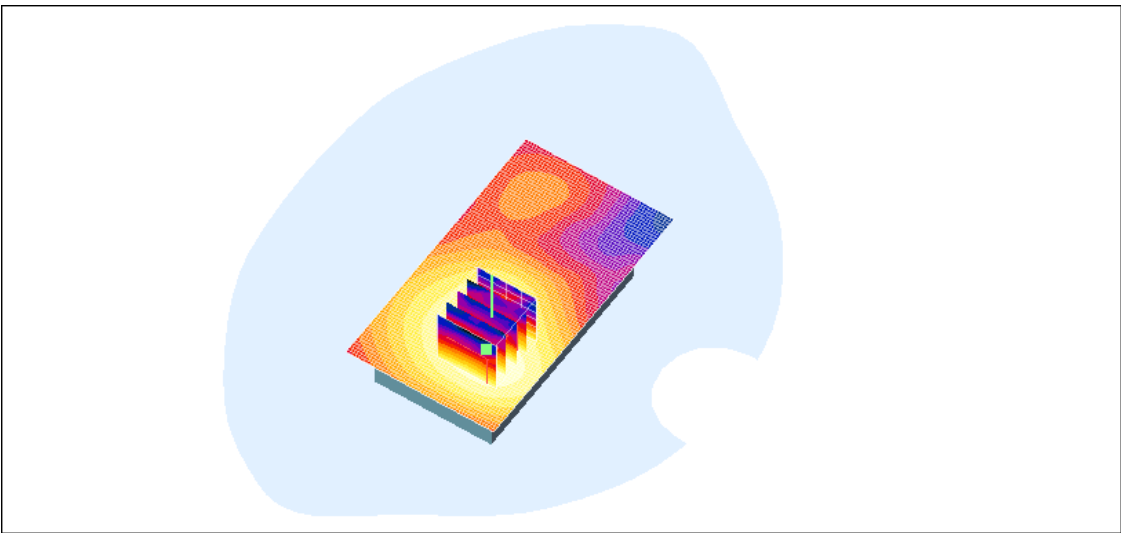
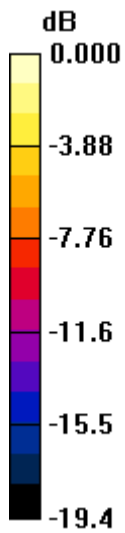
Peak SAR (extrapolated) = 0.192 W/kg

SAR(1 g) = 0.091 mW/g; SAR(10 g) = 0.050 mW/g

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

Maximum value of SAR (measured) = 0.095 mW/g

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Author Data Andrew Becker	Dates of Test Mar 15 – Apr 26, 2010	Test Report No RTS-2341-1004-61	FCC ID: L6ARCW40GW	IC ID: 2503A-RCW40GW



0 dB = 0.095mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
Andrew Becker	Mar 15 – Apr 26, 2010	RTS-2341-1004-61	L6ARCW40GW	2503A-RCW40GW

Date/Time: 3/15/2010 8:22:02 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Front 802.11b mid chan amb temp 22.6C liq temp 20.7C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316FA02B

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.050 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.06 V/m; Power Drift = -0.071 dB

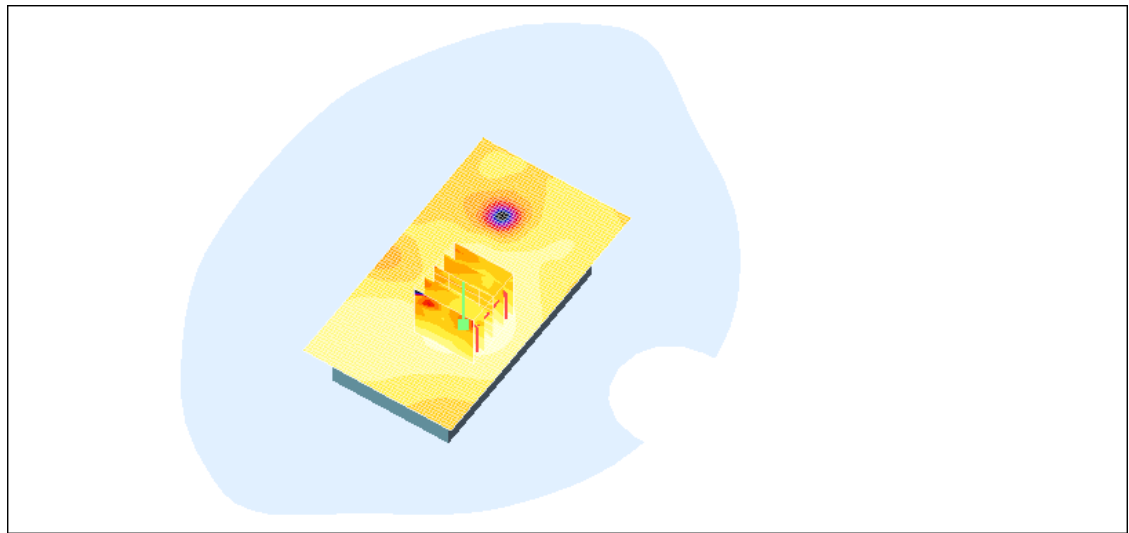
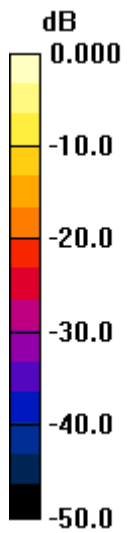
Peak SAR (extrapolated) = 0.075 W/kg

SAR(1 g) = 0.043 mW/g; SAR(10 g) = 0.023 mW/g

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

Maximum value of SAR (measured) = 0.048 mW/g

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Author Data Andrew Becker	Dates of Test Mar 15 – Apr 26, 2010	Test Report No RTS-2341-1004-61	FCC ID: L6ARCW40GW	IC ID: 2503A-RCW40GW



0 dB = 0.048mW/g

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Author Data Andrew Becker	Dates of Test Mar 15 – Apr 26, 2010	Test Report No RTS-2341-1004-61	FCC ID: L6ARCW40GW	IC ID: 2503A-RCW40GW

Date/Time: 3/15/2010 9:12:47 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back HS#1 802.11b mid chan amb temp 23.0C liq temp 20.8C.da](#)
[4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316FA02B

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

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

Reference Value = 5.83 V/m; Power Drift = -0.130 dB

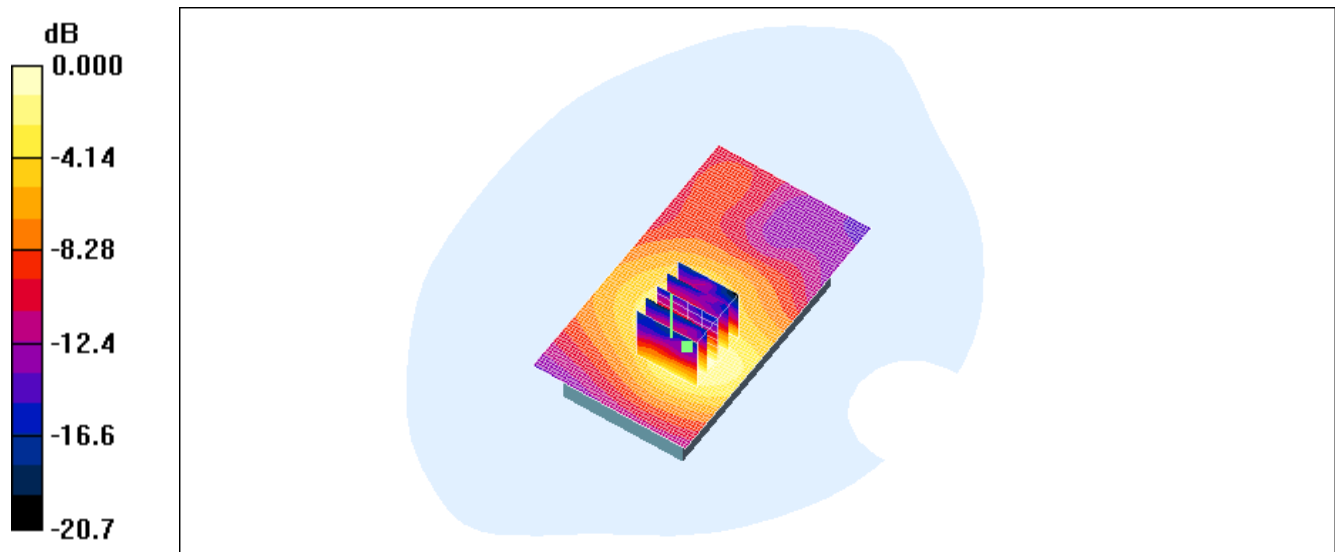
Peak SAR (extrapolated) = 0.312 W/kg

SAR(1 g) = 0.137 mW/g; SAR(10 g) = 0.070 mW/g

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

Maximum value of SAR (measured) = 0.148 mW/g

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	Author Data Andrew Becker	Dates of Test Mar 15 – Apr 26, 2010	Test Report No RTS-2341-1004-61	FCC ID: L6ARCW40GW
		IC ID: 2503A-RCW40GW		



0 dB = 0.148mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RCW41GW SAR Report			Page 34(40)
Author Data Andrew Becker	Dates of Test Mar 15 – Apr 26, 2010	Test Report No RTS-2341-1004-61	FCC ID: L6ARCW40GW	IC ID: 2503A-RCW40GW

Date/Time: 3/15/2010 9:30:54 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back HS#2 802.11b mid chan amb temp 22.2C liq temp 20.7C.da](#)
[4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316FA02B

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.144 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.62 V/m; Power Drift = -0.060 dB

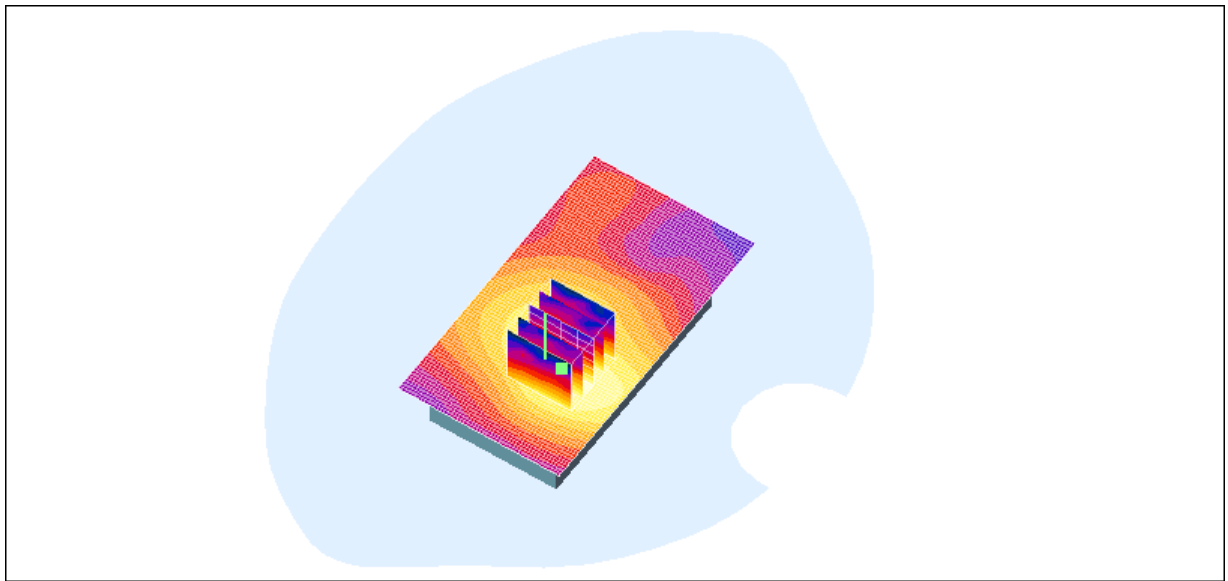
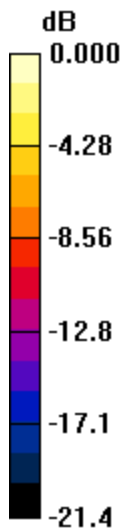
Peak SAR (extrapolated) = 0.299 W/kg

SAR(1 g) = 0.134 mW/g; SAR(10 g) = 0.068 mW/g

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

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

	Document Appendix C for the BlackBerry® Smartphone Model RCW41GW SAR Report			Page 35(40)
Author Data Andrew Becker	Dates of Test Mar 15 – Apr 26, 2010	Test Report No RTS-2341-1004-61	FCC ID: L6ARCW40GW	IC ID: 2503A-RCW40GW



0 dB = 0.145mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID:
Andrew Becker	Mar 15 – Apr 26, 2010	RTS-2341-1004-61	L6ARCW40GW	2503A-RCW40GW

Date/Time: 3/15/2010 9:51:48 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back HS#3 802.11b mid chan amb temp 22.0C liq temp 20.5C.da](#)
[4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316FA02B

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.134 mW/g

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

Reference Value = 5.76 V/m; Power Drift = 0.062 dB

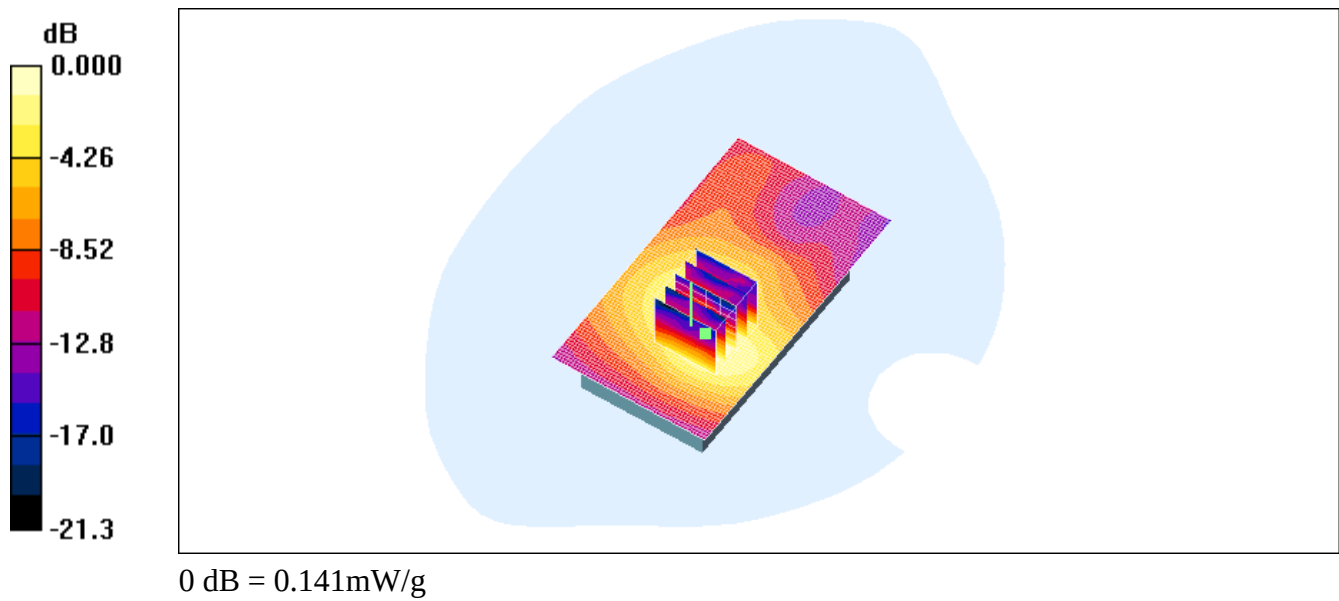
Peak SAR (extrapolated) = 0.301 W/kg

SAR(1 g) = 0.132 mW/g; SAR(10 g) = 0.066 mW/g

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

Maximum value of SAR (measured) = 0.141 mW/g

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Author Data Andrew Becker	Dates of Test Mar 15 – Apr 26, 2010	Test Report No RTS-2341-1004-61	FCC ID: L6ARCW40GW	IC ID: 2503A-RCW40GW



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Author Data Andrew Becker	Dates of Test Mar 15 – Apr 26, 2010	Test Report No RTS-2341-1004-61	FCC ID: L6ARCW40GW	IC ID: 2503A-RCW40GW

Date/Time: 3/15/2010 10:09:10 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [25mm Spacer 802.11b mid chan amb temp 22.0C liq temp 20.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316FA02B

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.060 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.11 V/m; Power Drift = -0.187 dB

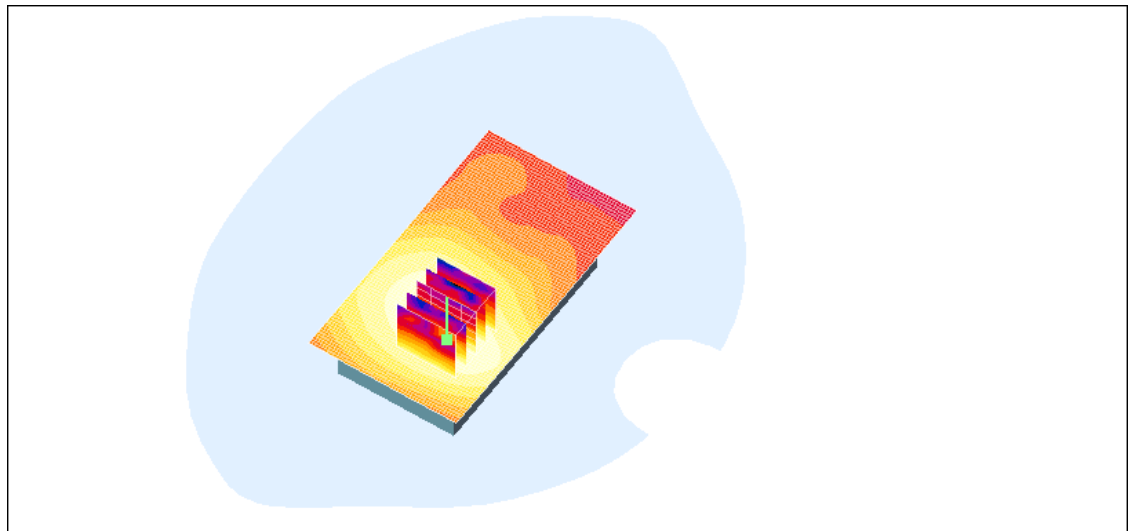
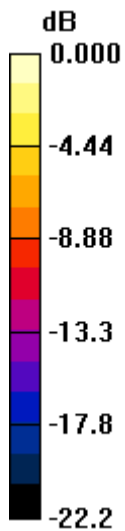
Peak SAR (extrapolated) = 0.098 W/kg

SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.029 mW/g

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

Maximum value of SAR (measured) = 0.059 mW/g

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0 dB = 0.059mW/g

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Z axis plot for the worst case body configuration:

