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	Author Data Andrew Becker	Dates of Test February 02 – March 6 , 2012	Test Report No RTS-5992-1203-29	FCC ID: L6AREW70UW

APPENDIX C1: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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Date/Time: 2/10/2012 11:01:37 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_mid_chan_amb_temp_22.8_liq_temp_1 9.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC945

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.997$ mho/m; $\epsilon_r = 55.764$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.643 mW/g

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

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

Reference Value = 25.261 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.7530

SAR(1 g) = 0.579 mW/g; SAR(10 g) = 0.425 mW/g

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

Maximum value of SAR (measured) = 0.644 mW/g

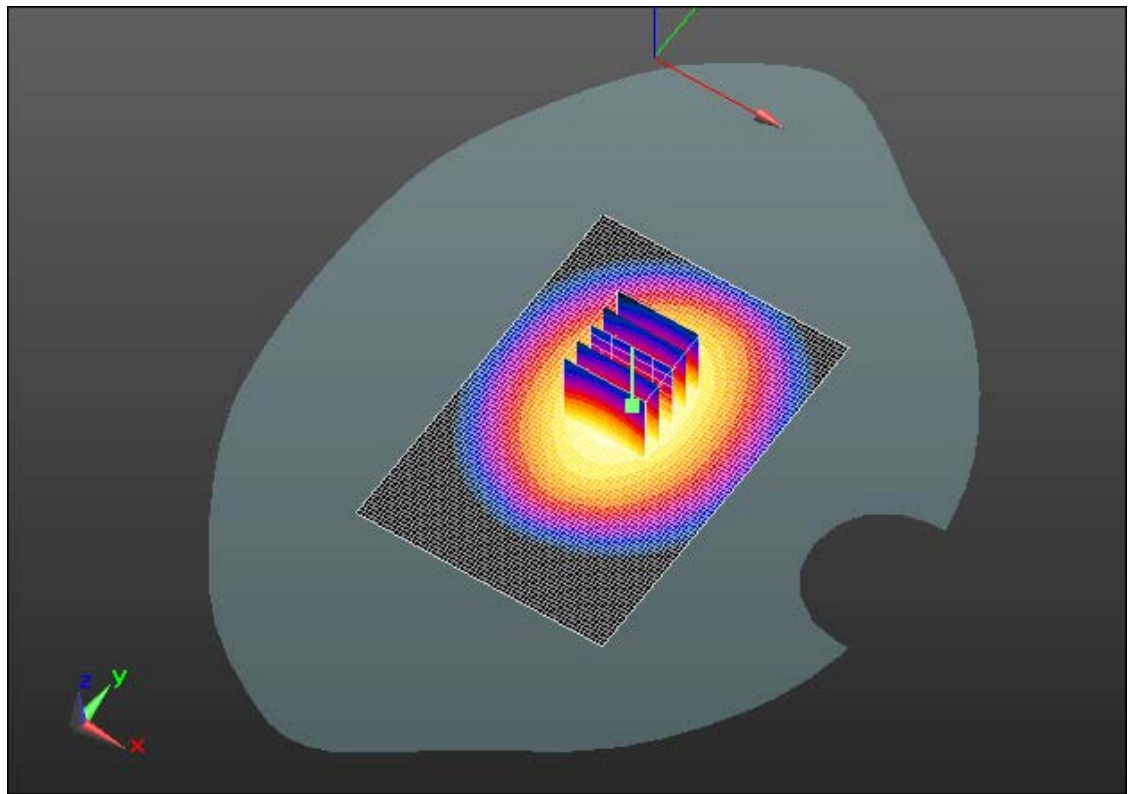
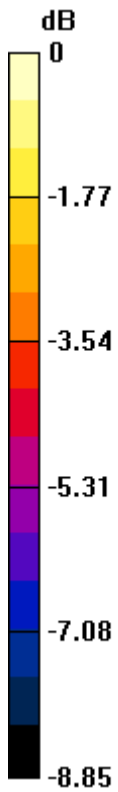
Author Data
Andrew Becker

Dates of Test
February 02 – March 6 , 2012


Test Report No
RTS-5992-1203-29

FCC ID:
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IC ID
2503A-REW70UW



0 dB = 0.640mW/g = -3.88 dB mW/g

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Date/Time: 2/13/2012 6:25:37 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_GPRS850_mid_chan_amb_temp_23.1C_liq_tem p_20.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC945

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.978$ mho/m; $\epsilon_r = 55.03$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

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

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

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

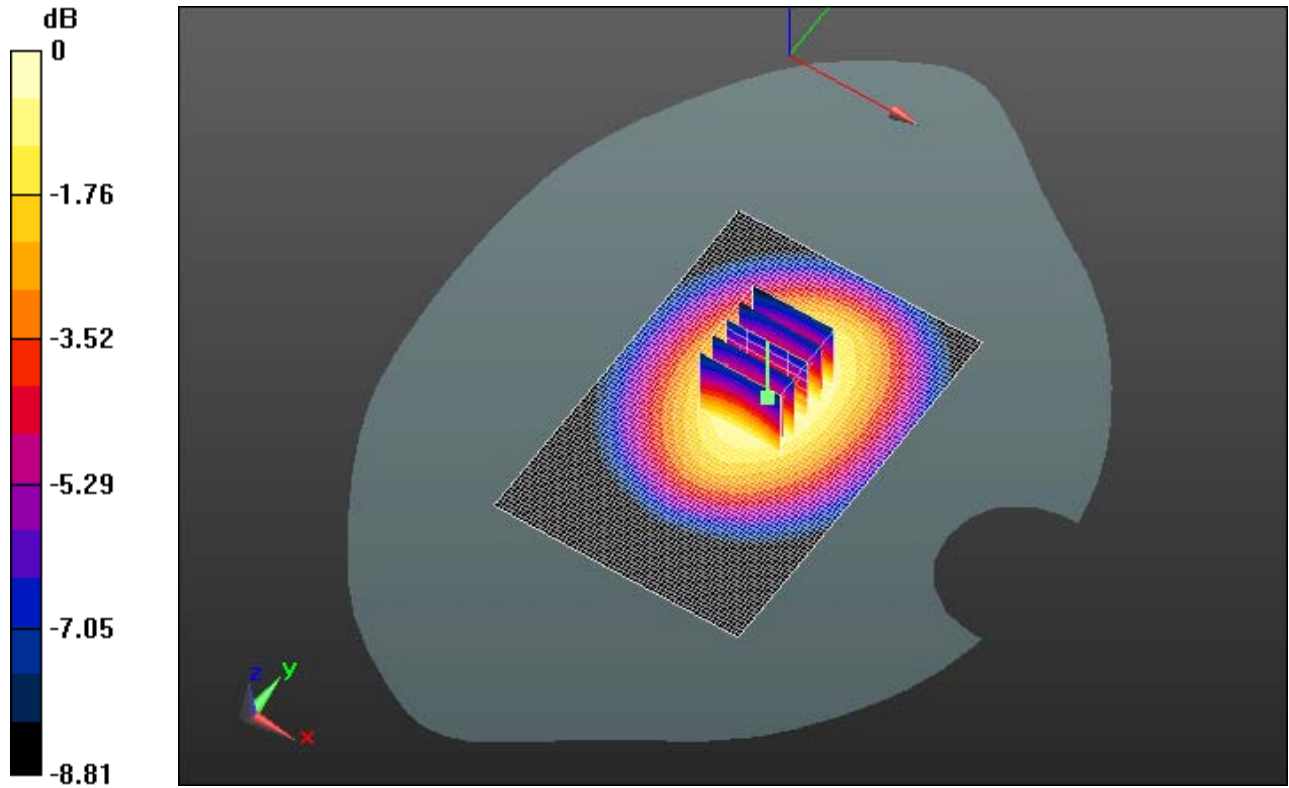
Reference Value = 25.266 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.7420


SAR(1 g) = 0.570 mW/g; SAR(10 g) = 0.418 mW/g

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

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



0 dB = 0.640mW/g = -3.88 dB mW/g

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Date/Time: 2/6/2012 11:18:22 AM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_UMTS_Band_IV_mid_chan_amb_temp_22.8_liq_t
emp_20.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC945

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz
Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.516$ mho/m; $\epsilon_r = 55.137$;
 $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.69, 4.69, 4.69); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
 $dx=15$ mm, $dy=15$ mm

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

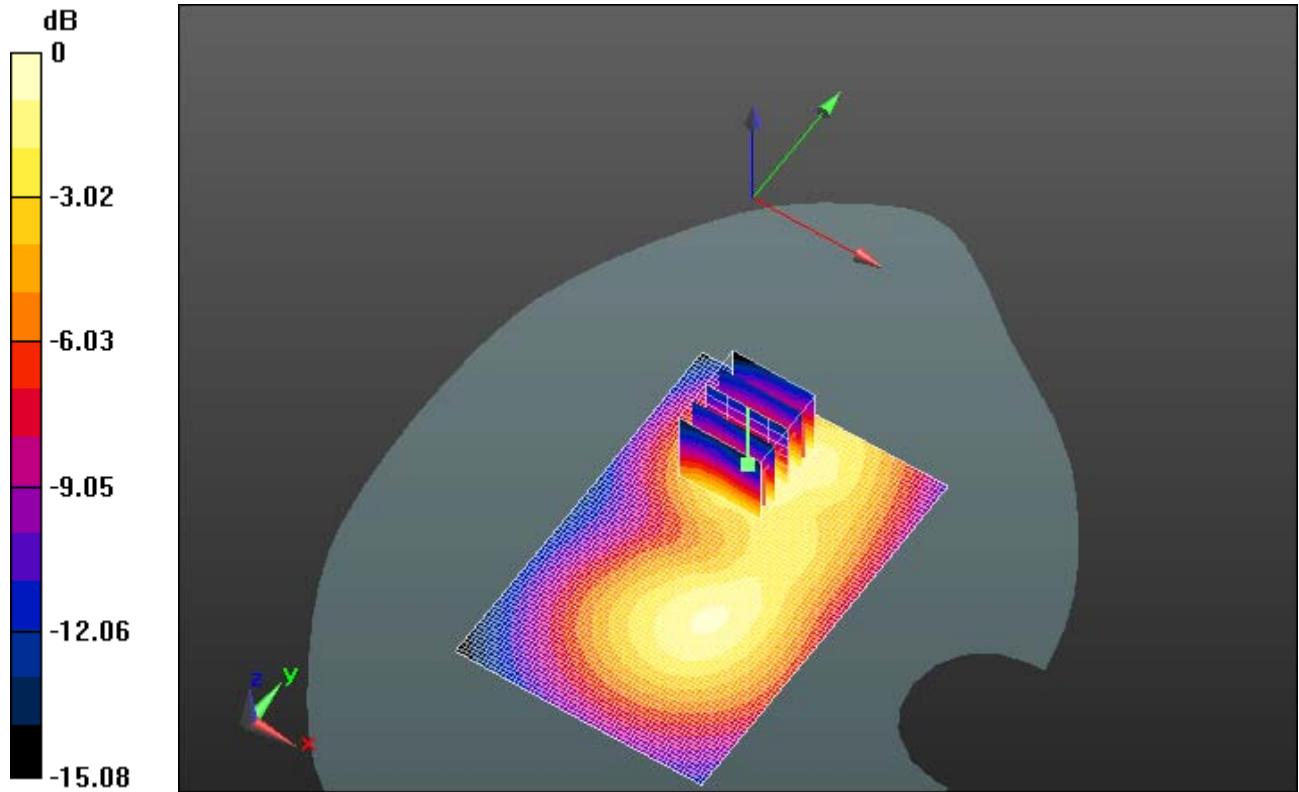
Maximum value of SAR (interpolated) = 0.342 mW/g

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


Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
Reference Value = 10.976 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.4730
SAR(1 g) = 0.313 mW/g; SAR(10 g) = 0.185 mW/g

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

Maximum value of SAR (measured) = 0.347 mW/g



0 dB = 0.350mW/g = -9.12 dB mW/g

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Date/Time: 2/6/2012 11:40:23 AM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Front_UMTS_Band_IV_mid_chan_amb_temp_22.8_liq_t
emp_20.6C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC945

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz
Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.516$ mho/m; $\epsilon_r = 55.137$;
 $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.69, 4.69, 4.69); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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


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

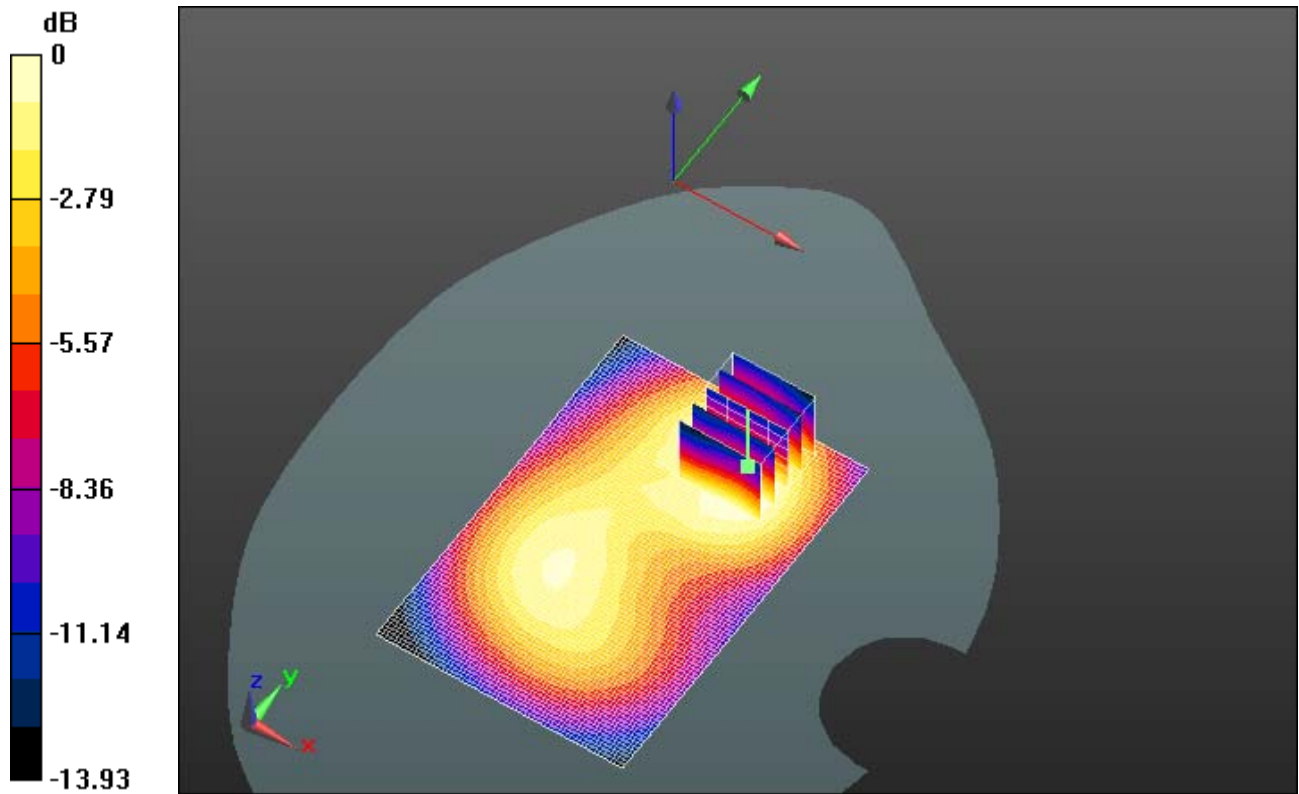
Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 11.668 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.4770
SAR(1 g) = 0.302 mW/g; SAR(10 g) = 0.191 mW/g


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

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

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0 dB = 0.320mW/g = -9.90 dB mW/g

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Date/Time: 2/6/2012 12:37:13 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_UMTS_Band_IV_mid_chan_amb_temp_22.9_liq_temp_20.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC945

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz
 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.516$ mho/m; $\epsilon_r = 55.137$;
 $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.69, 4.69, 4.69); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
 $dx=15$ mm, $dy=15$ mm

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

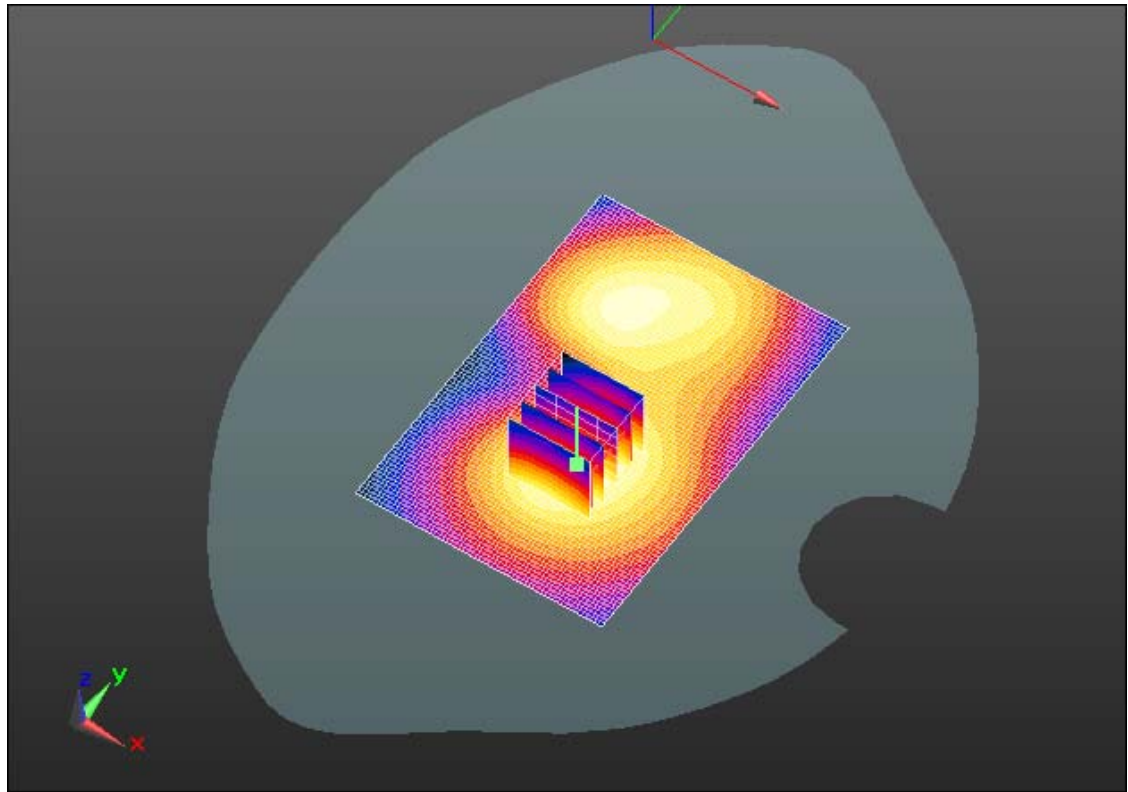
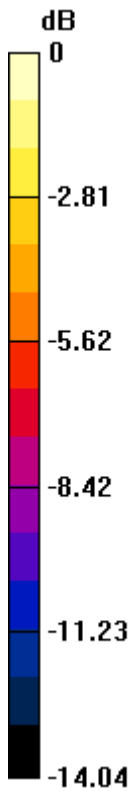
Maximum value of SAR (interpolated) = 0.268 mW/g

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


Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 10.011 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 0.3510
SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.159 mW/g

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

Maximum value of SAR (measured) = 0.264 mW/g



0 dB = 0.260mW/g = -11.70 dB mW/g

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Date/Time: 2/6/2012 11:59:07 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Headset_UMTS_Band_IV_mid_chan_amb_temp_22.8_liq_temp_20.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC945

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz
Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.516$ mho/m; $\epsilon_r = 55.137$;
 $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.69, 4.69, 4.69); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.320 mW/g

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

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

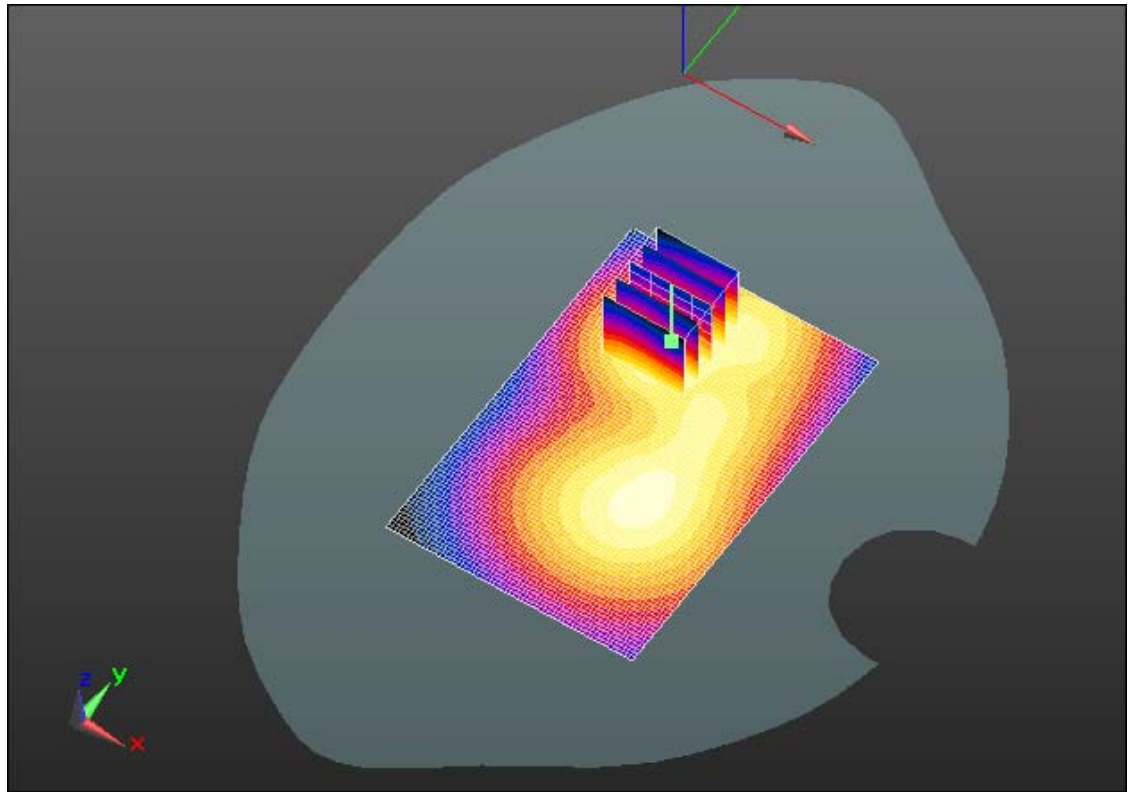
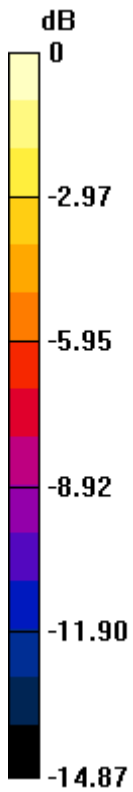
Reference Value = 11.087 V/m; Power Drift = 0.0027 dB

Peak SAR (extrapolated) = 0.4380


SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.167 mW/g

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

Maximum value of SAR (measured) = 0.311 mW/g



0 dB = 0.310mW/g = -10.17 dB mW/g

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Z axis plot for the worst case body configuration

