APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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Date/Time: 6/2/2011 1:19:15 AM, Date/Time: 6/2/2011 1:26:26 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_GPRS850_mid_chan_amb_temp_23.7_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: GPRS 850; Communication System Band: GPRS 850;
Frequency: 836.8 MHz;Communication System PAR: 6.232 dB
Medium parameters used (interpolated): f = 836.8 MHz; σ = 1.008 mho/m; ε_r = 56.833; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.784 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 28.281 V/m; Power Drift = -0.24 dB
Peak SAR (extrapolated) = 0.919 W/kg
SAR(1 g) = 0.725 mW/g; SAR(10 g) = 0.535 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.765 mW/g

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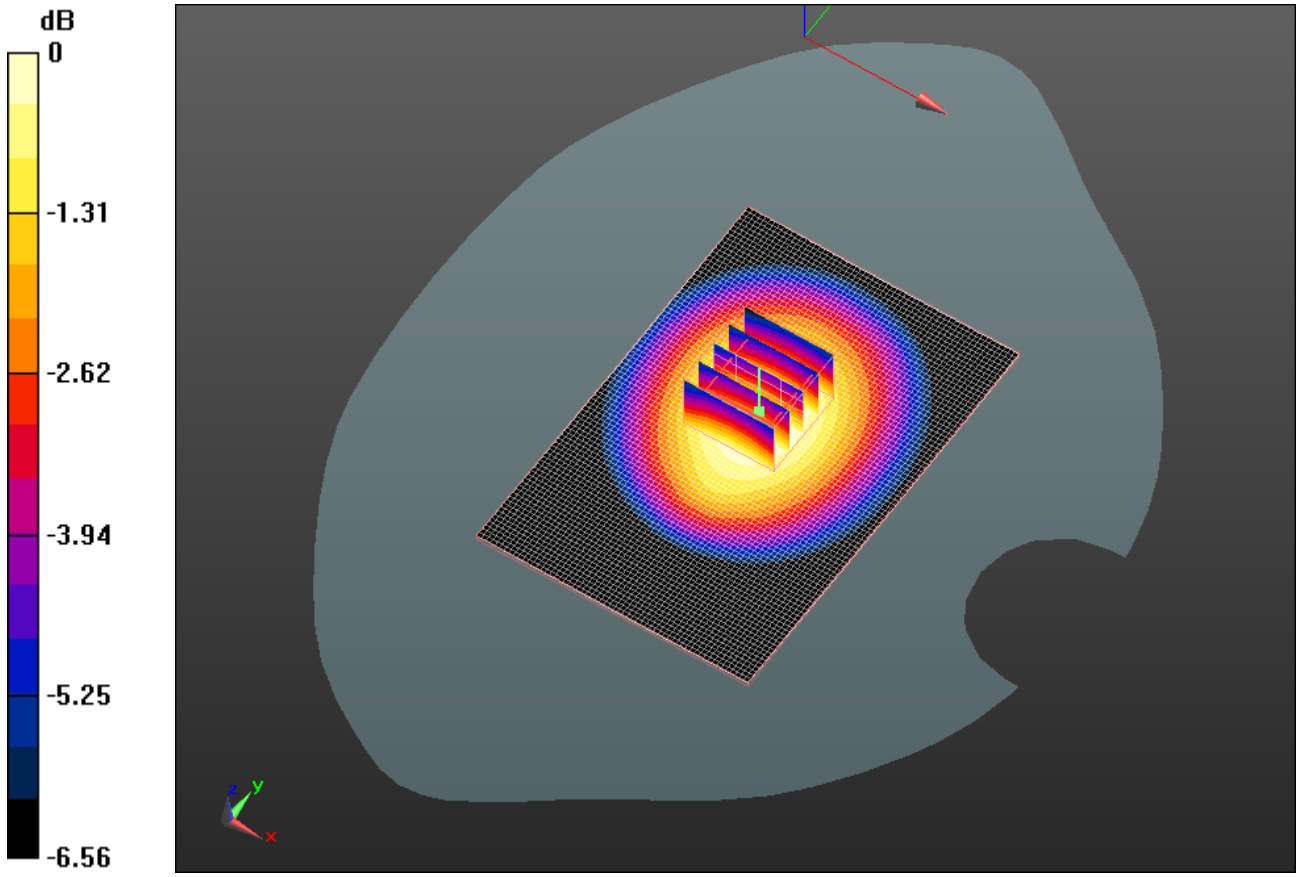

0 dB = 0.760mW/g

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Date/Time: 6/7/2011 1:58:07 PM, Date/Time: 6/7/2011 2:05:00 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_4-slots_low_chan_amb_temp_23.0_liq_temp_21.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: GPRS 850 (4 slots); Communication System Band: GPRS (4 slots); Frequency: 824.2 MHz;Communication System PAR: 3.222 dB
Medium parameters used: f = 825 MHz; σ = 0.98 mho/m; ε_r = 53.791; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.809 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 27.698 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.005 W/kg
SAR(1 g) = 0.766 mW/g; SAR(10 g) = 0.561 mW/g
Maximum value of SAR (measured) = 0.808 mW/g

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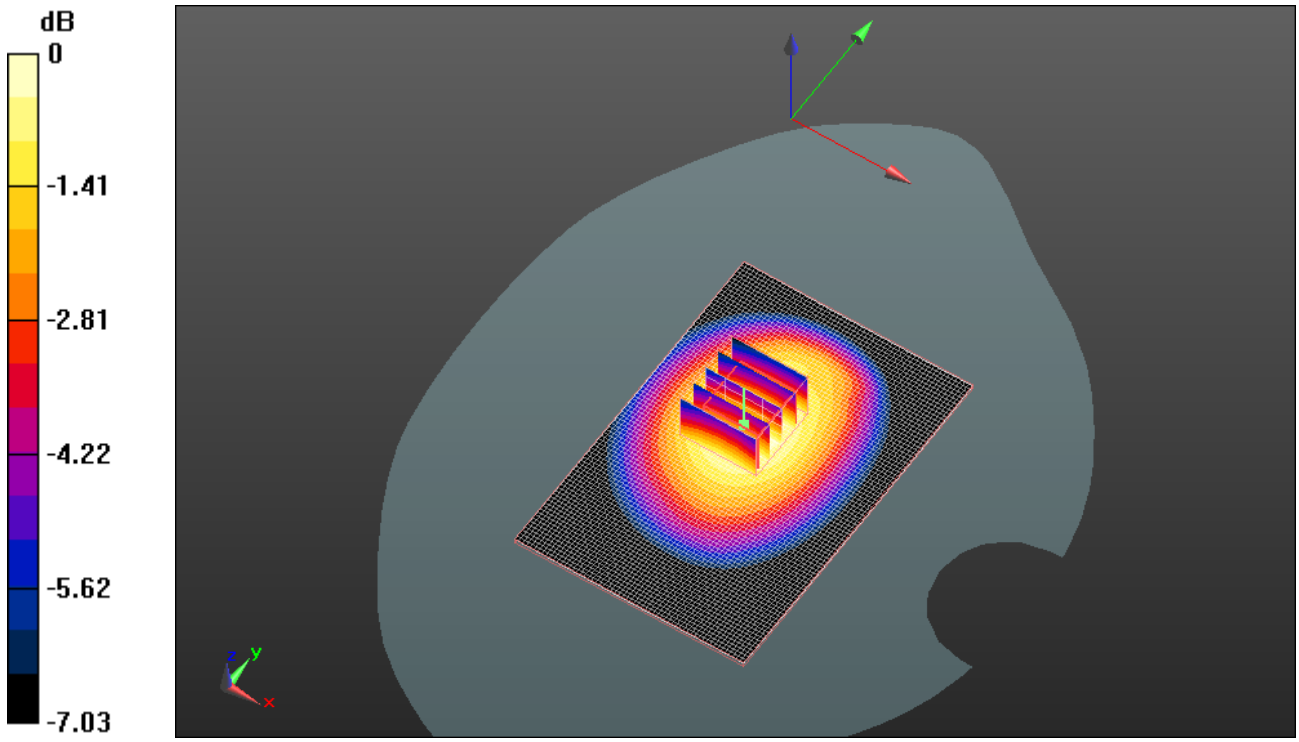

0 dB = 0.810mW/g

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Date/Time: 6/7/2011 1:43:22 PM, Date/Time: 6/7/2011 1:50:16 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_3-slots_low_chan_amb_temp_23.2_liq_temp_22.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: GPRS 850 (3 slots); Communication System Band: GPRS 850 (3 slots); Frequency: 824.2 MHz;Communication System PAR: 4.472 dB
Medium parameters used: f = 825 MHz; σ = 0.98 mho/m; ε_r = 53.791; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.962 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 29.319 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.208 W/kg
SAR(1 g) = 0.908 mW/g; SAR(10 g) = 0.660 mW/g
Maximum value of SAR (measured) = 0.953 mW/g

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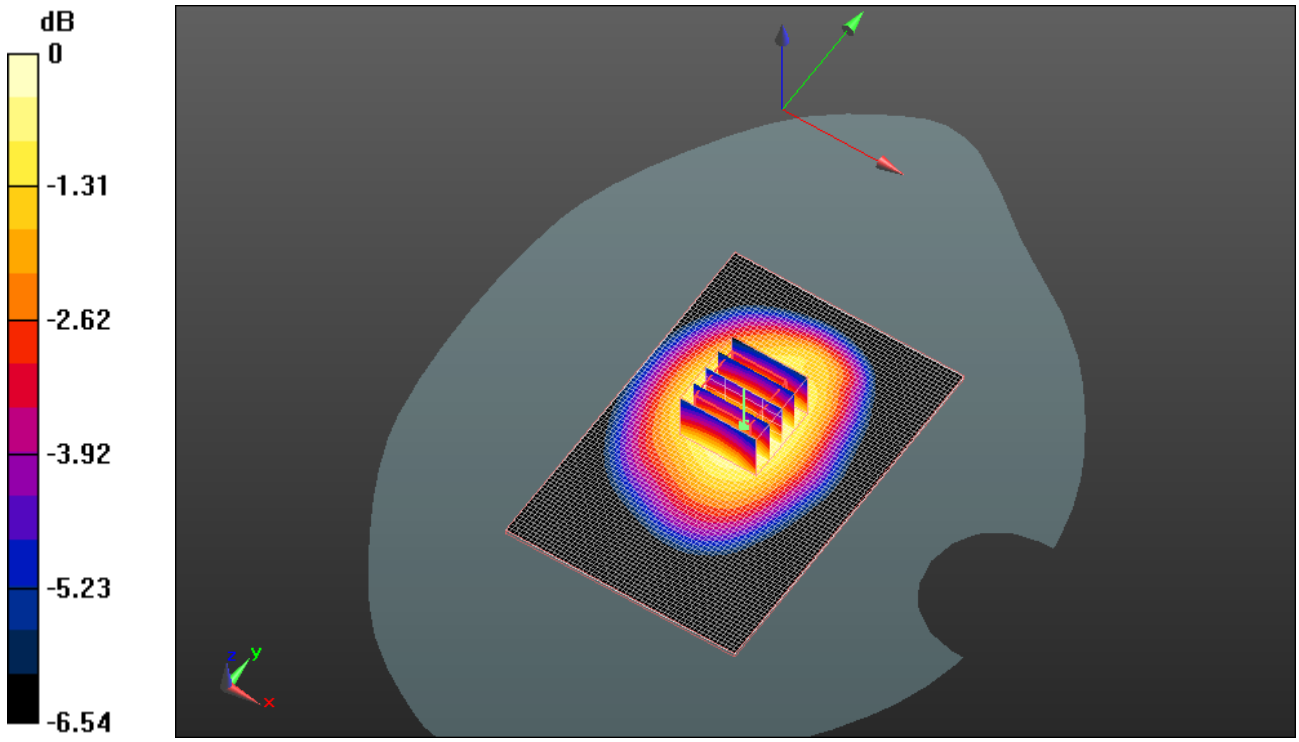

0 dB = 0.950mW/g

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Date/Time: 6/7/2011 12:27:16 PM, Date/Time: 6/7/2011 12:34:10 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_low_chan_amb_temp_22.9_liq_temp_22.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: GPRS 850; Communication System Band: GPRS 850;
Frequency: 824.2 MHz;Communication System PAR: 6.232 dB
Medium parameters used: f = 825 MHz; σ = 0.98 mho/m; ε_r = 53.791; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.065 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.171 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.323 W/kg
SAR(1 g) = 1 mW/g; SAR(10 g) = 0.724 mW/g
Maximum value of SAR (measured) = 1.068 mW/g

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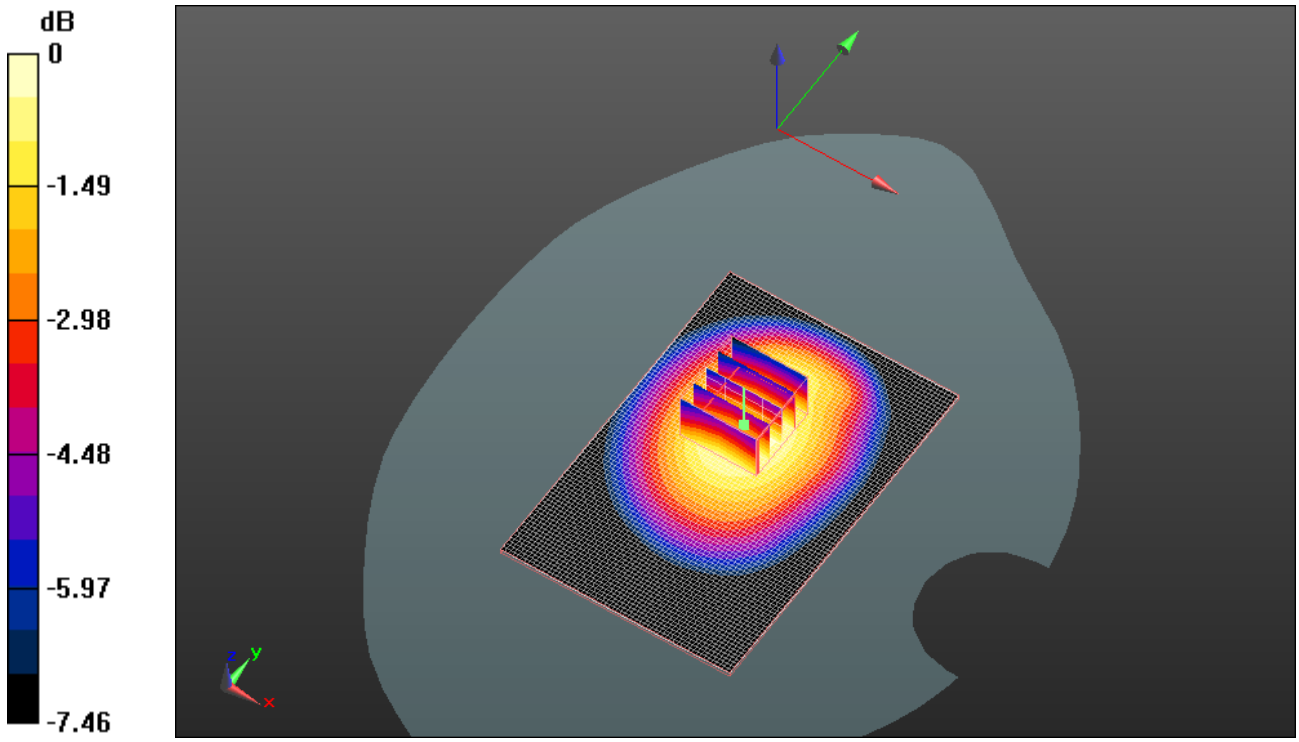

0 dB = 1.070mW/g

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Date/Time: 6/7/2011 12:41:53 PM, Date/Time: 6/7/2011 12:48:48 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_mid_chan_amb_temp_23.0_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: GPRS 850; Communication System Band: GPRS 850;
Frequency: 836.8 MHz;Communication System PAR: 6.232 dB
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.994 mho/m; ε_r = 53.676; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.839 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 27.607 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.053 W/kg
SAR(1 g) = 0.804 mW/g; SAR(10 g) = 0.583 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.851 mW/g

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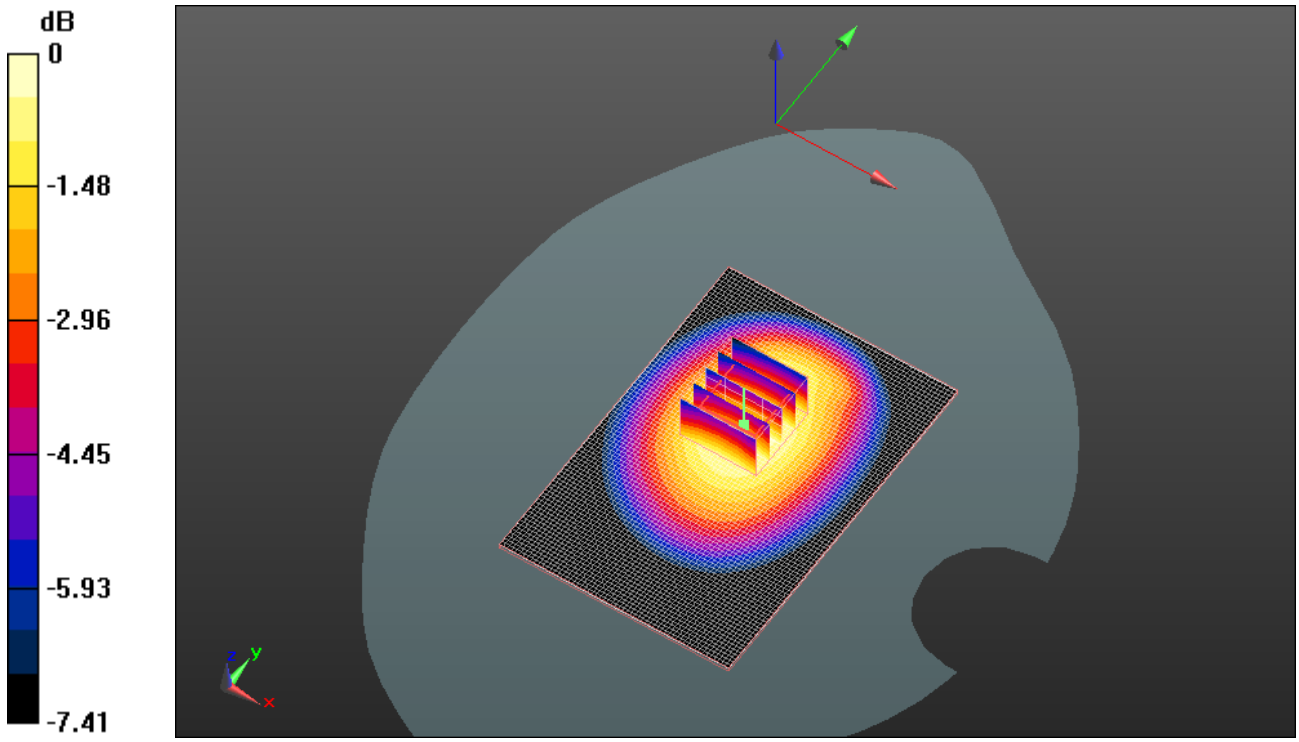

0 dB = 0.850mW/g

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Date/Time: 6/7/2011 12:56:55 PM, Date/Time: 6/7/2011 1:03:51 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_high_chan_amb_temp_23.4_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: GPRS 850; Communication System Band: GPRS 850;
Frequency: 848.8 MHz;Communication System PAR: 6.232 dB
Medium parameters used (interpolated): f = 848.8 MHz; σ = 1.004 mho/m; ε_r = 53.541; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.549 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 22.327 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.708 W/kg
SAR(1 g) = 0.534 mW/g; SAR(10 g) = 0.387 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.567 mW/g

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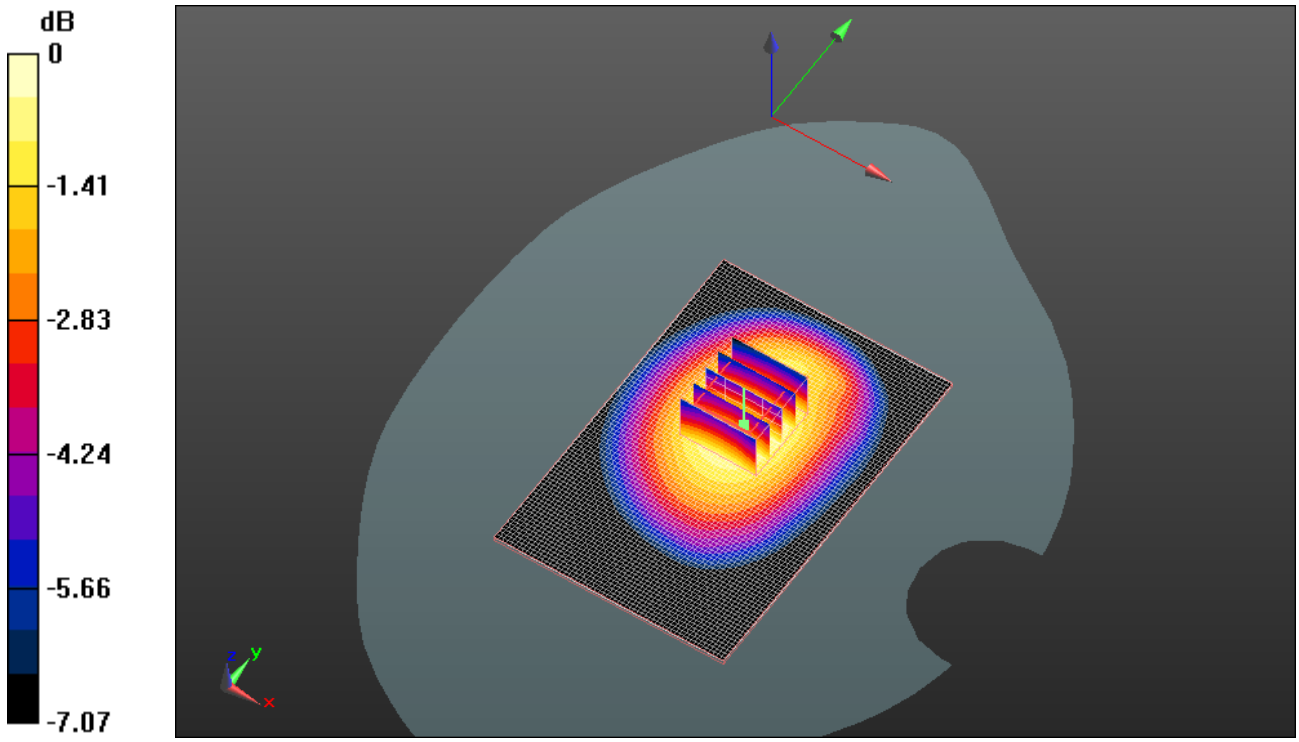

0 dB = 0.570mW/g

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Date/Time: 6/7/2011 2:45:50 PM, Date/Time: 6/7/2011 2:52:47 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_GPRS850_low_chan_amb_temp_22.7_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: GPRS 850; Communication System Band: GPRS 850;
Frequency: 824.2 MHz;Communication System PAR: 6.232 dB
Medium parameters used: f = 825 MHz; σ = 0.98 mho/m; ε_r = 53.791; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.500 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 20.509 V/m; Power Drift = -0.25 dB
Peak SAR (extrapolated) = 0.570 W/kg
SAR(1 g) = 0.448 mW/g; SAR(10 g) = 0.330 mW/g
Maximum value of SAR (measured) = 0.470 mW/g

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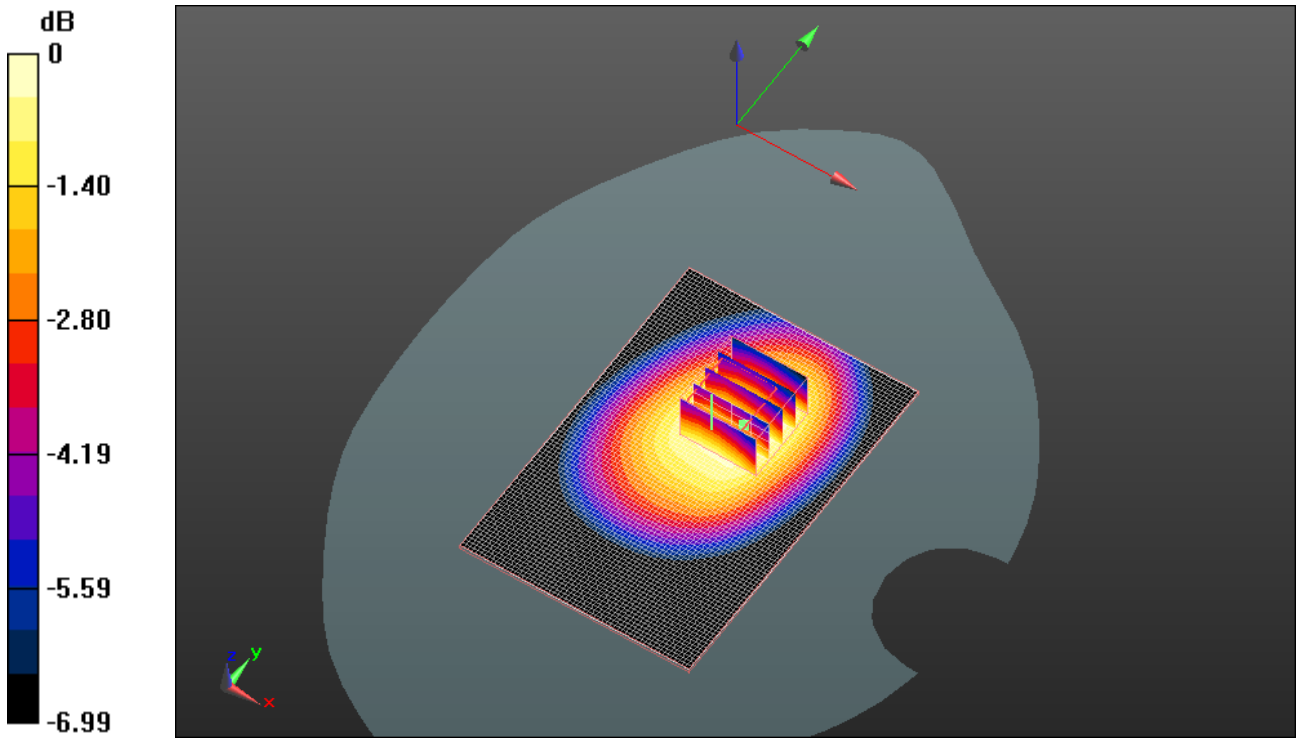

0 dB = 0.470mW/g

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Date/Time: 6/7/2011 2:16:15 PM, Date/Time: 6/7/2011 2:23:11 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_HS_GPRS850_low_chan_amb_temp_22.8_liq_temp_21.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: GPRS 850; Communication System Band: GPRS 850;
Frequency: 824.2 MHz;Communication System PAR: 6.232 dB
Medium parameters used: f = 825 MHz; σ = 0.98 mho/m; ε_r = 53.791; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.526 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 21.732 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.670 W/kg
SAR(1 g) = 0.523 mW/g; SAR(10 g) = 0.383 mW/g
Maximum value of SAR (measured) = 0.555 mW/g

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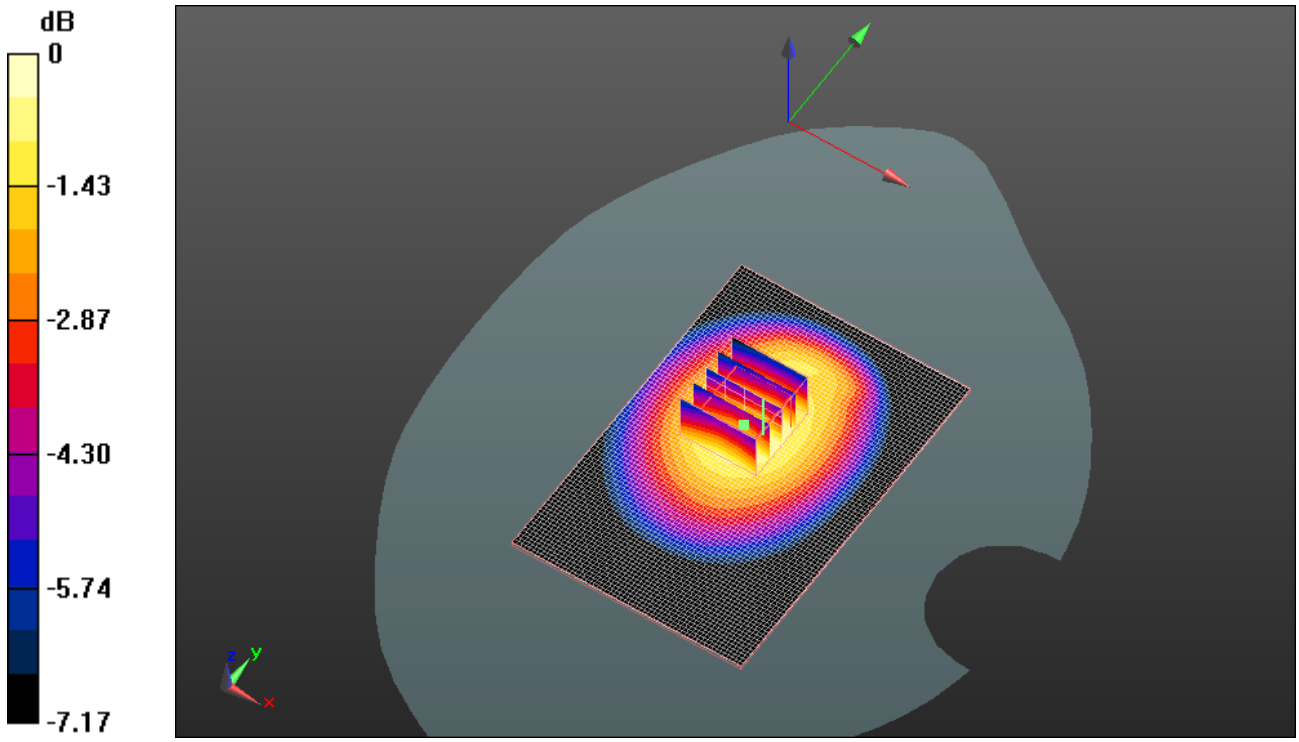

0 dB = 0.560mW/g

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Date/Time: 6/10/2011 8:06:24 PM, Date/Time: 6/10/2011 8:19:08 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_HS_GPRS1900_4_Slots_mid_chan_amb_temp_23.2_liq_temp_22.0C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: GPRS 1900 (4-slots); Communication System Band: GPRS 1900 (4 slots); Frequency: 1880 MHz;Communication System PAR: 3.222 dB
Medium parameters used: f = 1880 MHz; σ = 1.499 mho/m; ε_r = 51.301; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.520 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 9.185 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.746 W/kg
SAR(1 g) = 0.502 mW/g; SAR(10 g) = 0.314 mW/g
Maximum value of SAR (measured) = 0.543 mW/g

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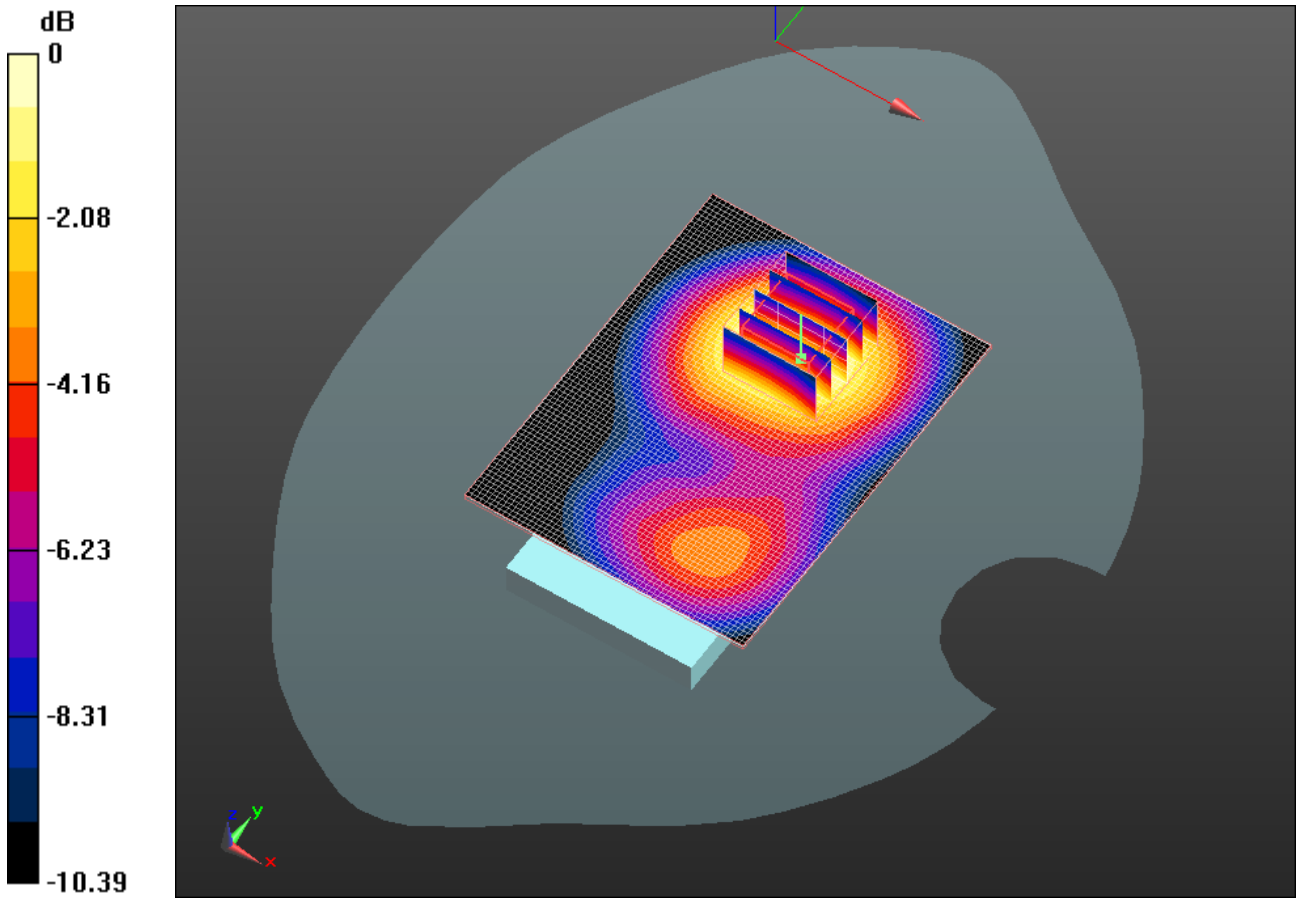

0 dB = 0.540mW/g

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Date/Time: 5/4/2011 11:59:11 AM, Date/Time: 5/4/2011 12:06:07 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Headset_GPRS1900_3_Slots_mid_chan_amb_temp_23.3_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: GPRS 1900 (3-slots); Frequency: 1880 MHz;Communication System PAR: 4.472 dB
Medium parameters used: f = 1880 MHz; σ = 1.494 mho/m; ε_r = 51.549; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.360 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.703 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.473 W/kg
SAR(1 g) = 0.324 mW/g; SAR(10 g) = 0.201 mW/g
Maximum value of SAR (measured) = 0.354 mW/g

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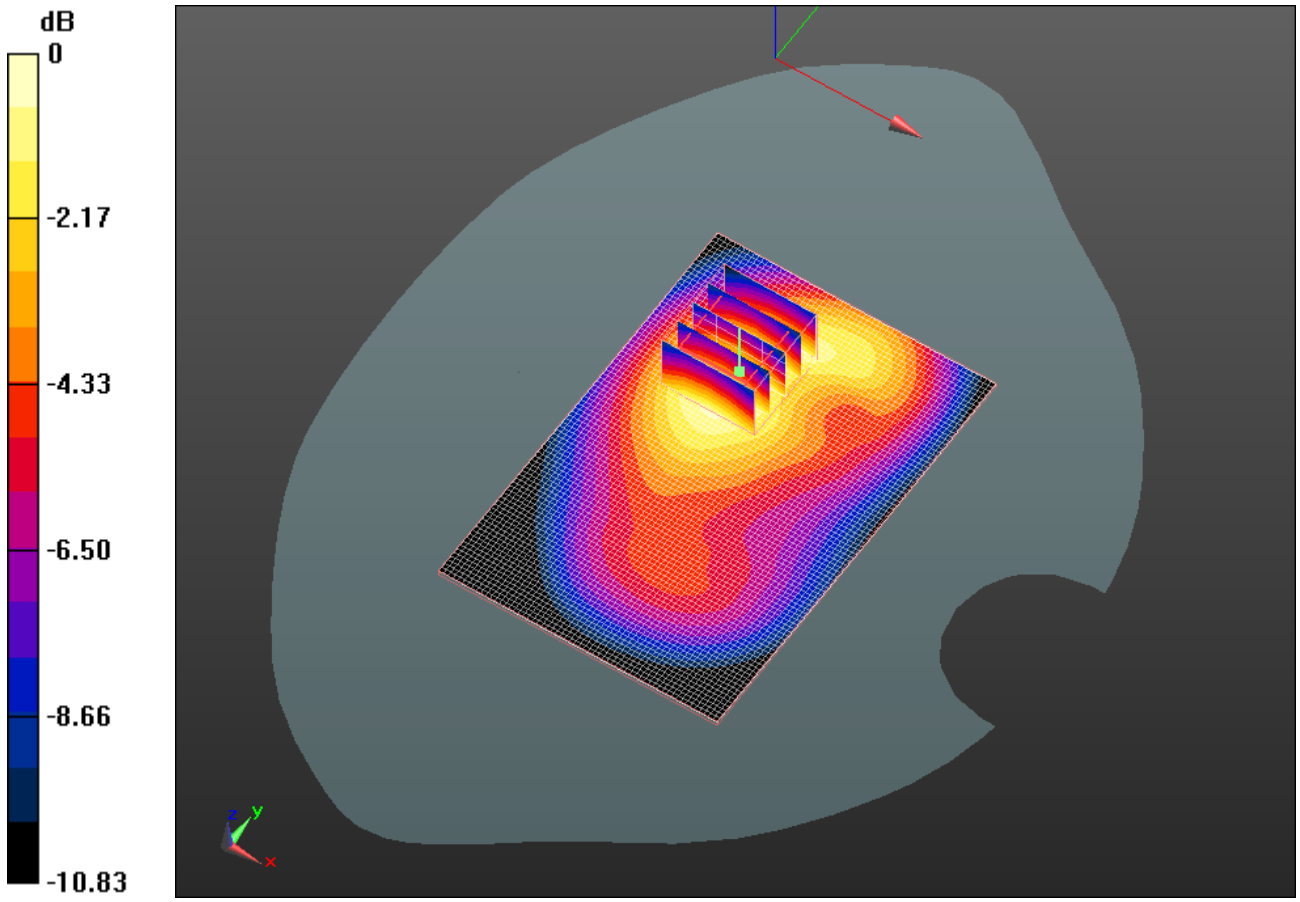

0 dB = 0.350mW/g

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Date/Time: 5/4/2011 10:56:46 AM, Date/Time: 5/4/2011 11:03:39 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS1900_mid_chan_amb_temp_23.2_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: GPRS 1900; Frequency: 1880 MHz;Communication System PAR: 6.232 dB
Medium parameters used: f = 1880 MHz; σ = 1.494 mho/m; ε_r = 51.549; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.368 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 9.988 V/m; Power Drift = -0.23 dB
Peak SAR (extrapolated) = 0.488 W/kg
SAR(1 g) = 0.331 mW/g; SAR(10 g) = 0.208 mW/g
Maximum value of SAR (measured) = 0.355 mW/g

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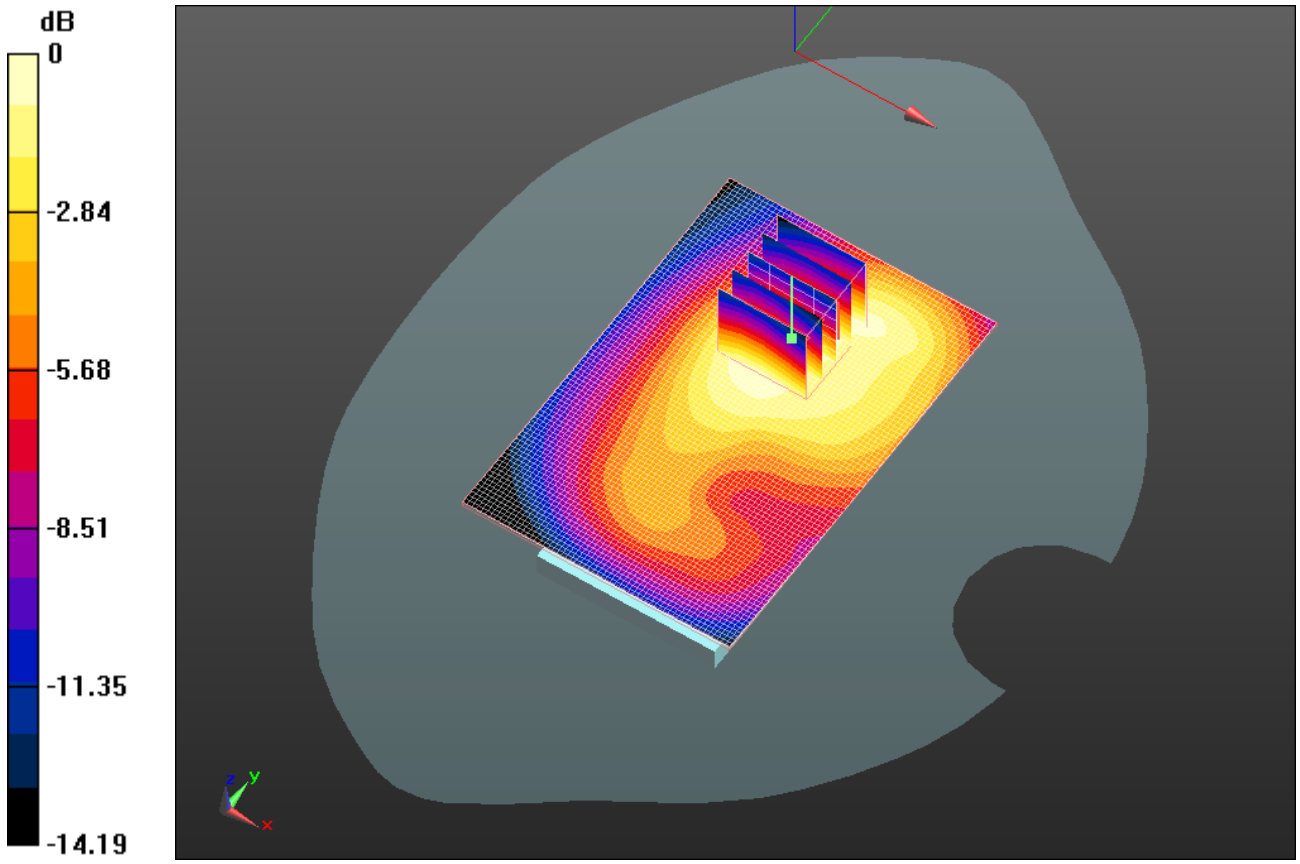

0 dB = 0.350mW/g

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Date/Time: 5/4/2011 11:14:00 AM, Date/Time: 5/4/2011 11:20:53 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_GPRS1900_mid_chan_amb_temp_23.2_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: GPRS 1900; Frequency: 1880 MHz;Communication System PAR: 6.232 dB
Medium parameters used: f = 1880 MHz; σ = 1.494 mho/m; ε_r = 51.549; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.343 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.165 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.462 W/kg
SAR(1 g) = 0.306 mW/g; SAR(10 g) = 0.190 mW/g
Maximum value of SAR (measured) = 0.336 mW/g

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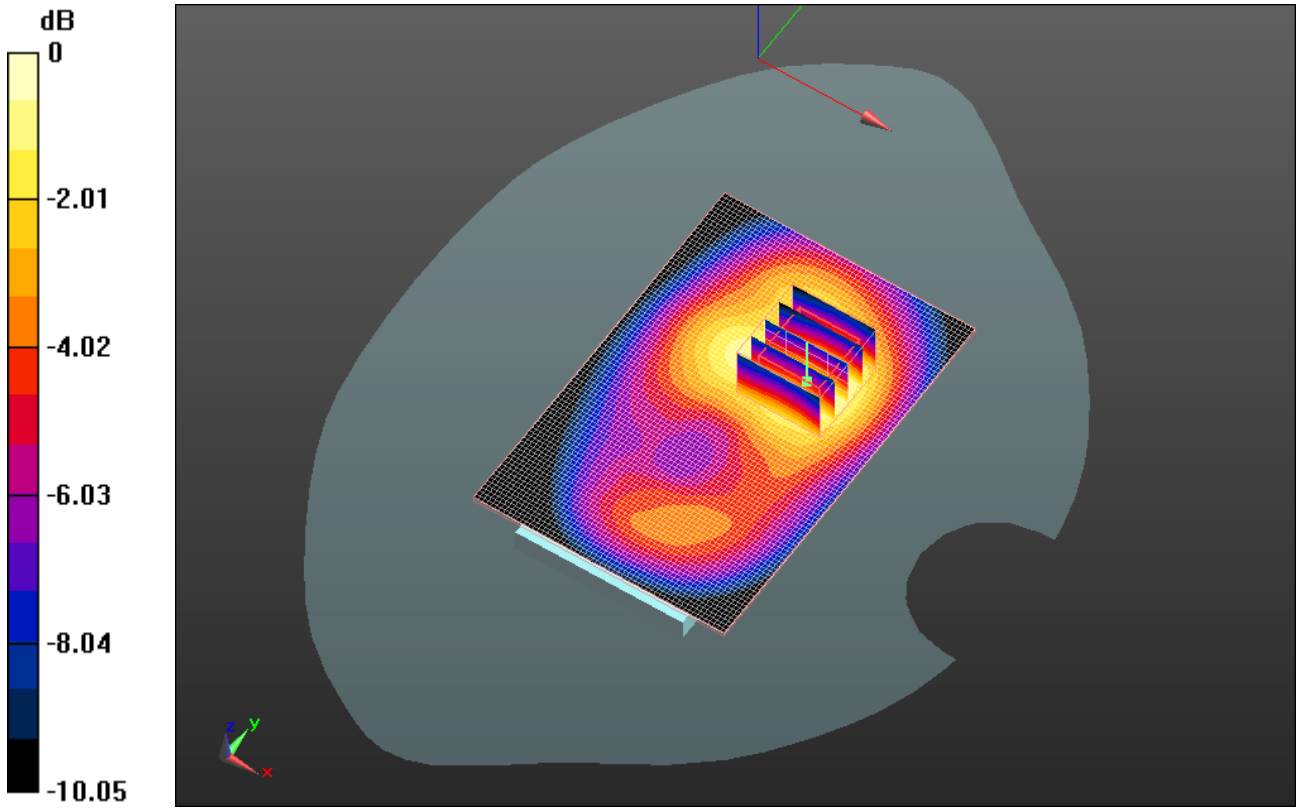

0 dB = 0.340mW/g

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Date/Time: 5/4/2011 11:29:03 AM, Date/Time: 5/4/2011 11:35:55 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_GPRS1900_mid_chan_amb_temp_23.2_liq_temp _22.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: GPRS 1900; Frequency: 1880 MHz;Communication System PAR: 6.232 dB
Medium parameters used: f = 1880 MHz; σ = 1.494 mho/m; ε_r = 51.549; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.239 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 7.053 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.321 W/kg
SAR(1 g) = 0.220 mW/g; SAR(10 g) = 0.141 mW/g
Maximum value of SAR (measured) = 0.239 mW/g

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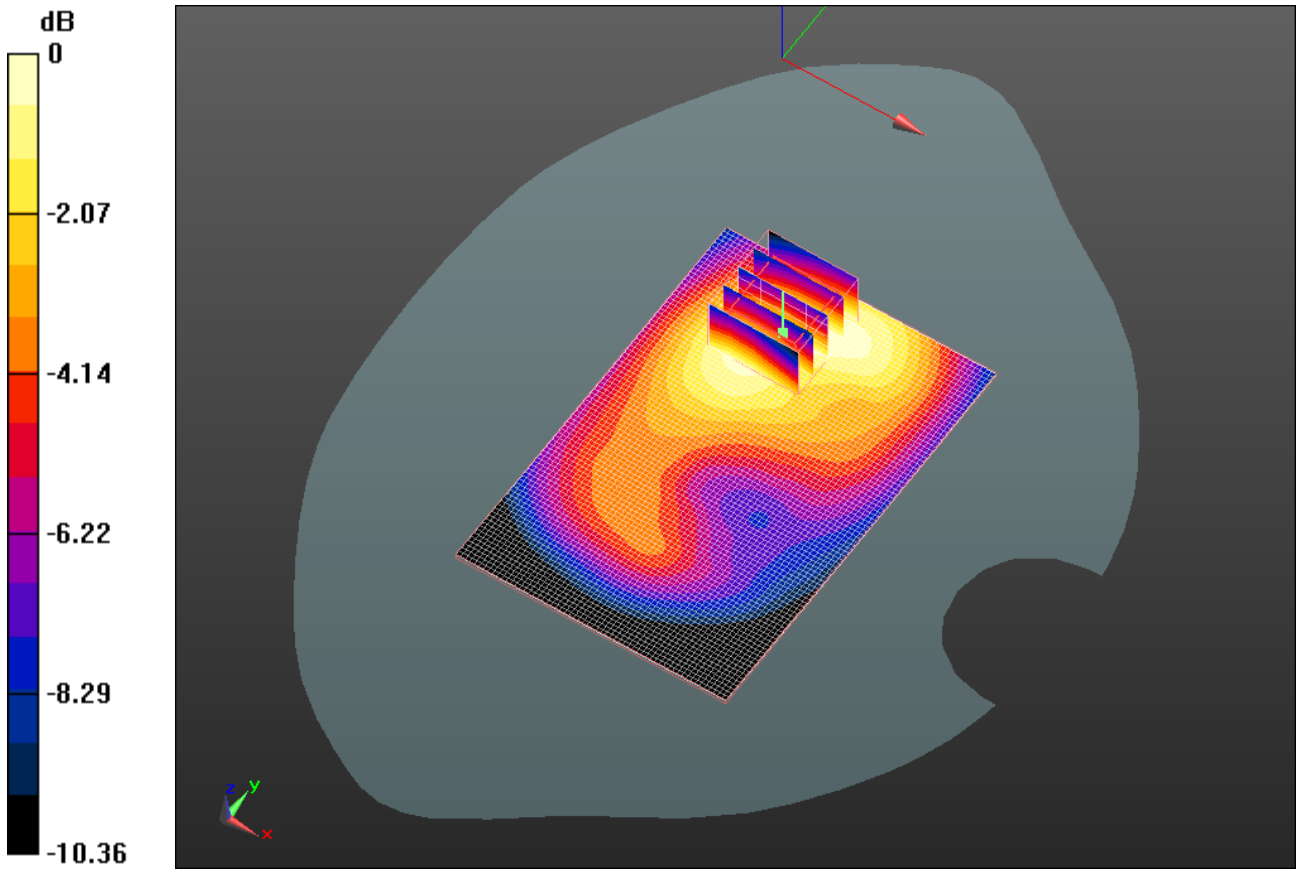

0 dB = 0.240mW/g

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Date/Time: 5/4/2011 11:46:21 AM, Date/Time: 5/4/2011 11:53:16 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Headset_GPRS1900_mid_chan_amb_temp_23.2_liq_temp_22.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: GPRS 1900; Frequency: 1880 MHz;Communication System PAR: 6.232 dB
Medium parameters used: f = 1880 MHz; σ = 1.494 mho/m; ε_r = 51.549; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.384 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.974 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.528 W/kg
SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.216 mW/g
Maximum value of SAR (measured) = 0.378 mW/g

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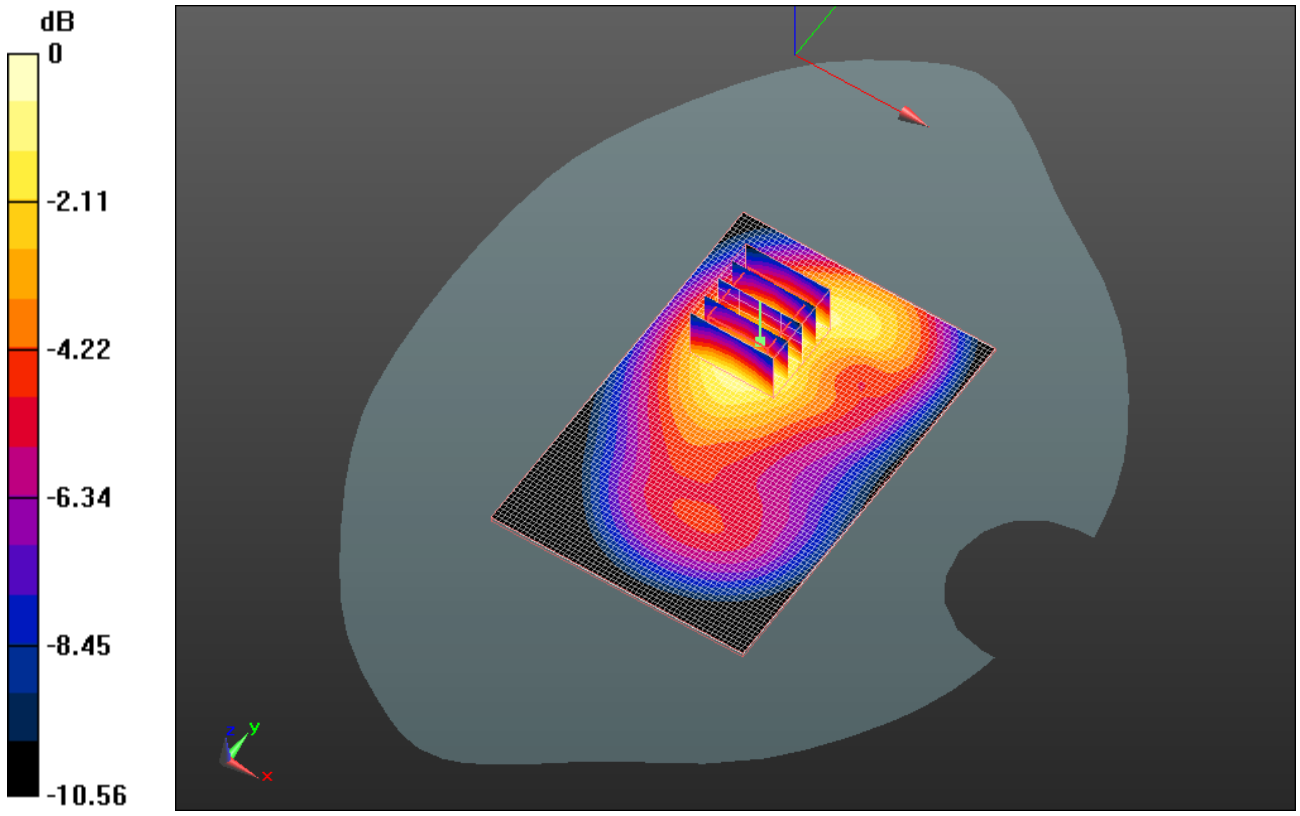

0 dB = 0.380mW/g

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Date/Time: 6/10/2011 8:25:55 PM, Date/Time: 6/10/2011 8:32:15 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_HS_GPRS1900_mid_chan_amb_temp_23.2_liq_temp_22.0C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: GPRS 1900; Communication System Band: GPRS 1900;
Frequency: 1880 MHz;Communication System PAR: 6.232 dB
Medium parameters used: f = 1880 MHz; σ = 1.499 mho/m; ε_r = 51.301; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.434 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.070 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.556 W/kg
SAR(1 g) = 0.379 mW/g; SAR(10 g) = 0.238 mW/g
Maximum value of SAR (measured) = 0.404 mW/g

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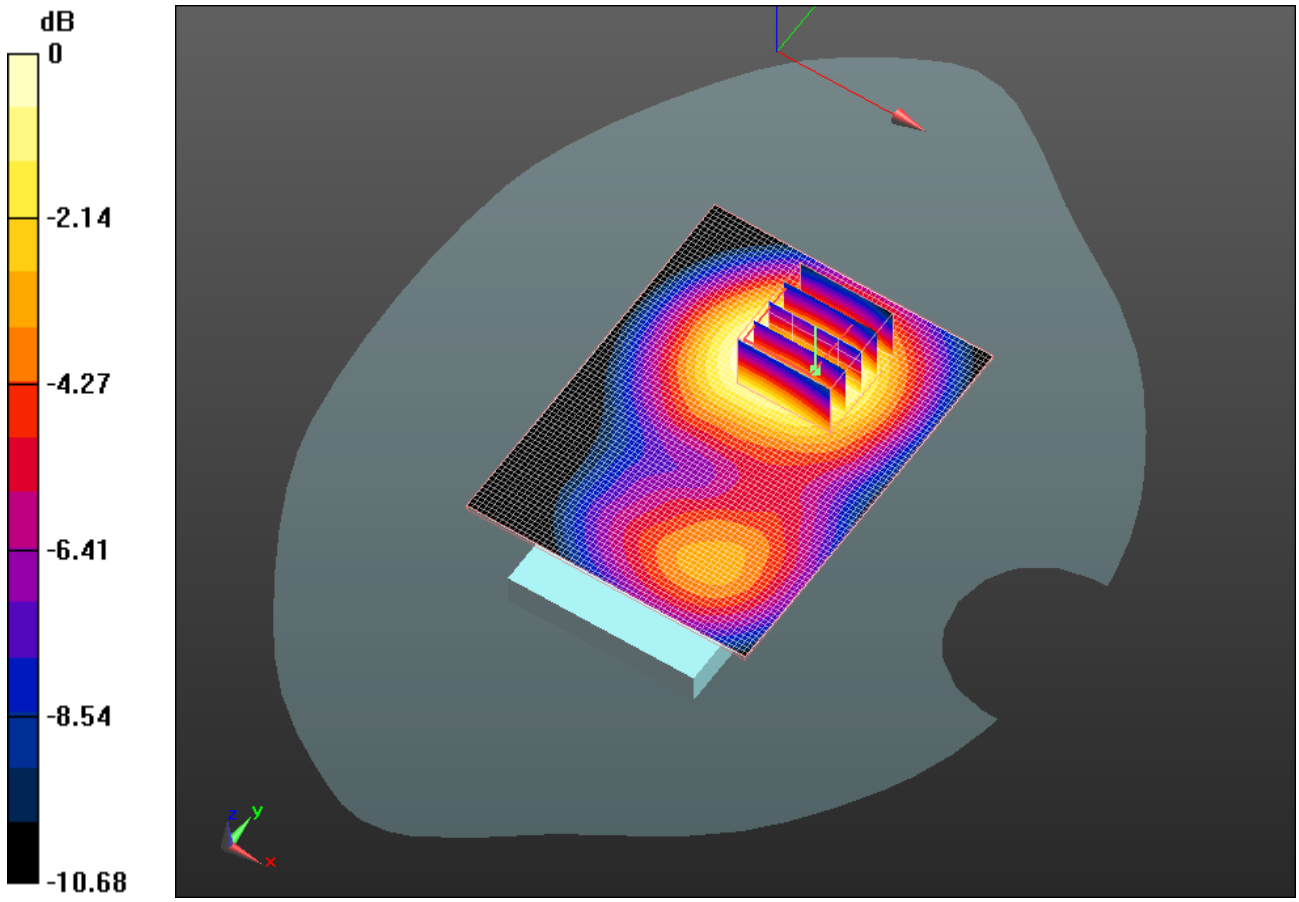

0 dB = 0.400mW/g

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Date/Time: 5/27/2011 9:45:38 PM, Date/Time: 5/27/2011 9:52:31 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_CDMA850_low_chan_amb_temp_23.5_liq_temp_22.0C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: CDMA 850; Communication System Band: CDMA 2000 Cellular; Frequency: 824.7 MHz;Communication System PAR: 0 dB
Medium parameters used: f = 825 MHz; σ = 0.974 mho/m; ε_r = 53.235; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.980 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.494 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.241 W/kg
SAR(1 g) = 0.948 mW/g; SAR(10 g) = 0.689 mW/g
Maximum value of SAR (measured) = 1.003 mW/g

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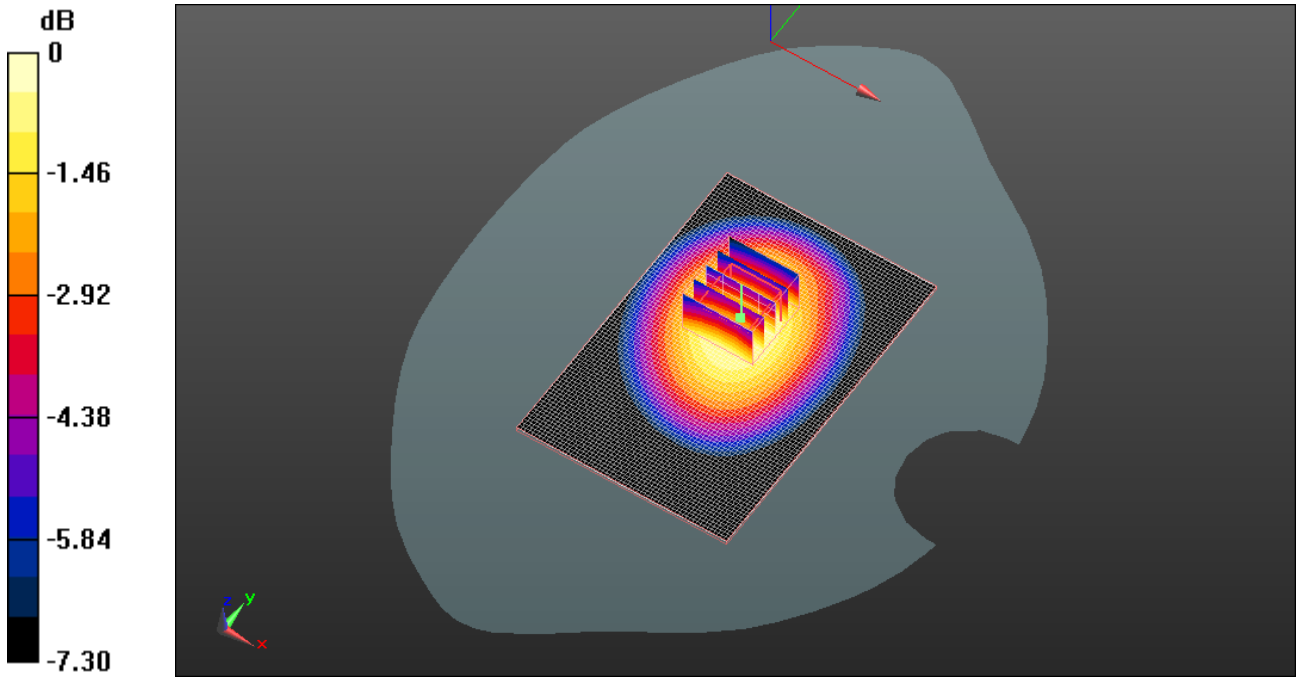

0 dB = 1.000mW/g

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Date/Time: 5/27/2011 9:31:29 PM, Date/Time: 5/27/2011 9:38:22 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_CDMA850_mid_chan_amb_temp_24.2_liq_temp_22.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: CDMA 850; Communication System Band: CDMA 2000 Cellular; Frequency: 836.52 MHz;Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 836.52 MHz; σ = 0.986 mho/m; ε_r = 53.092; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.848 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 28.444 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.034 W/kg
SAR(1 g) = 0.810 mW/g; SAR(10 g) = 0.590 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.850 mW/g

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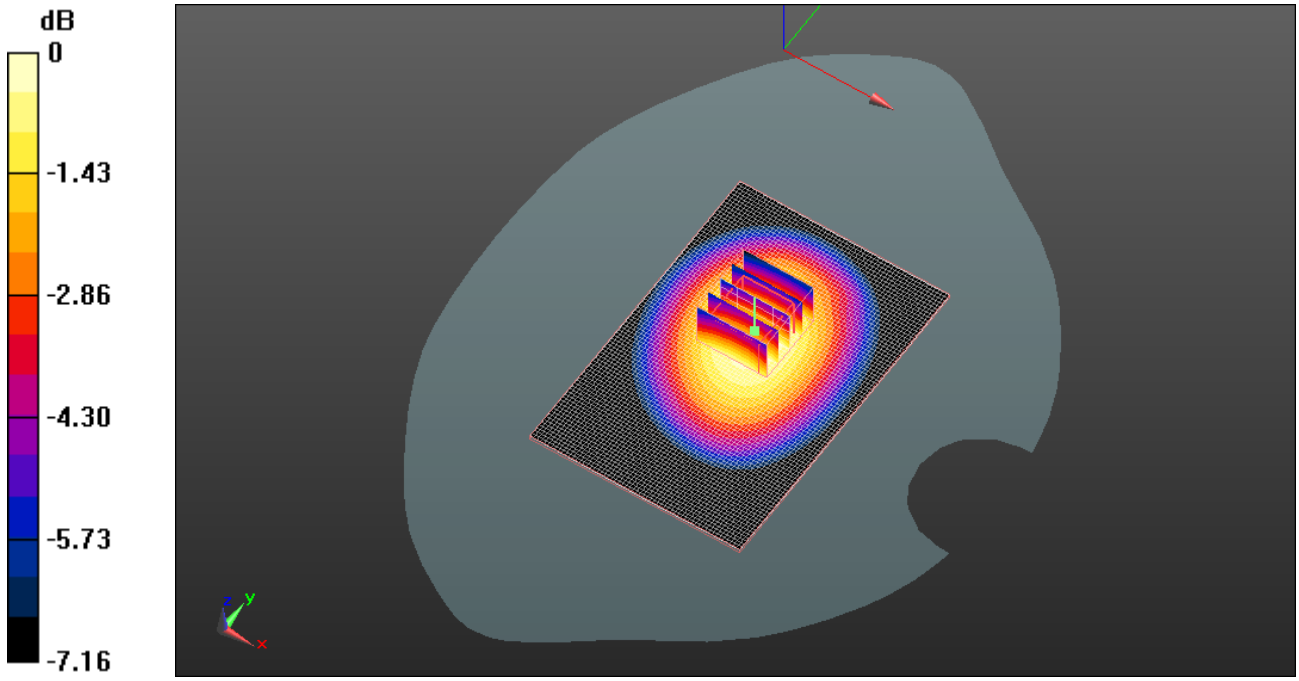

0 dB = 0.850mW/g

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Date/Time: 5/27/2011 9:58:45 PM, Date/Time: 5/27/2011 10:05:42 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_CDMA850_high_chan_amb_temp_23.6_liq_temp_22.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: CDMA 850; Communication System Band: CDMA 2000 Cellular; Frequency: 848.52 MHz;Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 848.52 MHz; σ = 0.998 mho/m; ε_r = 52.981; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.750 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 26.938 V/m; Power Drift = 0.0097 dB
Peak SAR (extrapolated) = 0.914 W/kg
SAR(1 g) = 0.706 mW/g; SAR(10 g) = 0.515 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.750 mW/g

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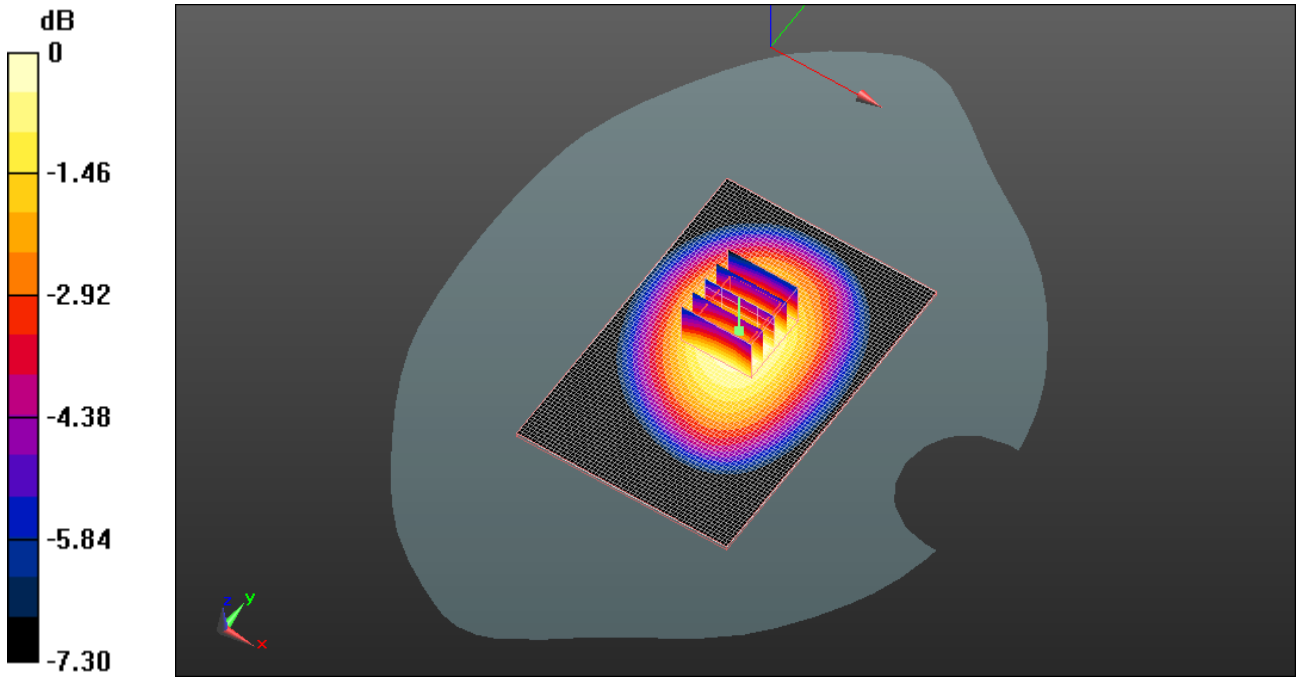

0 dB = 0.750mW/g

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Date/Time: 5/27/2011 10:27:41 PM, Date/Time: 5/27/2011 10:34:33 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_CDMA850_mid_chan_amb_temp_23.9_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: CDMA 850; Communication System Band: CDMA 2000 Cellular; Frequency: 836.52 MHz;Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 836.52 MHz; σ = 0.986 mho/m; ε_r = 53.092; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.620 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 18.460 V/m; Power Drift = 2.04 dB
Peak SAR (extrapolated) = 0.765 W/kg
SAR(1 g) = 0.590 mW/g; SAR(10 g) = 0.433 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.618 mW/g

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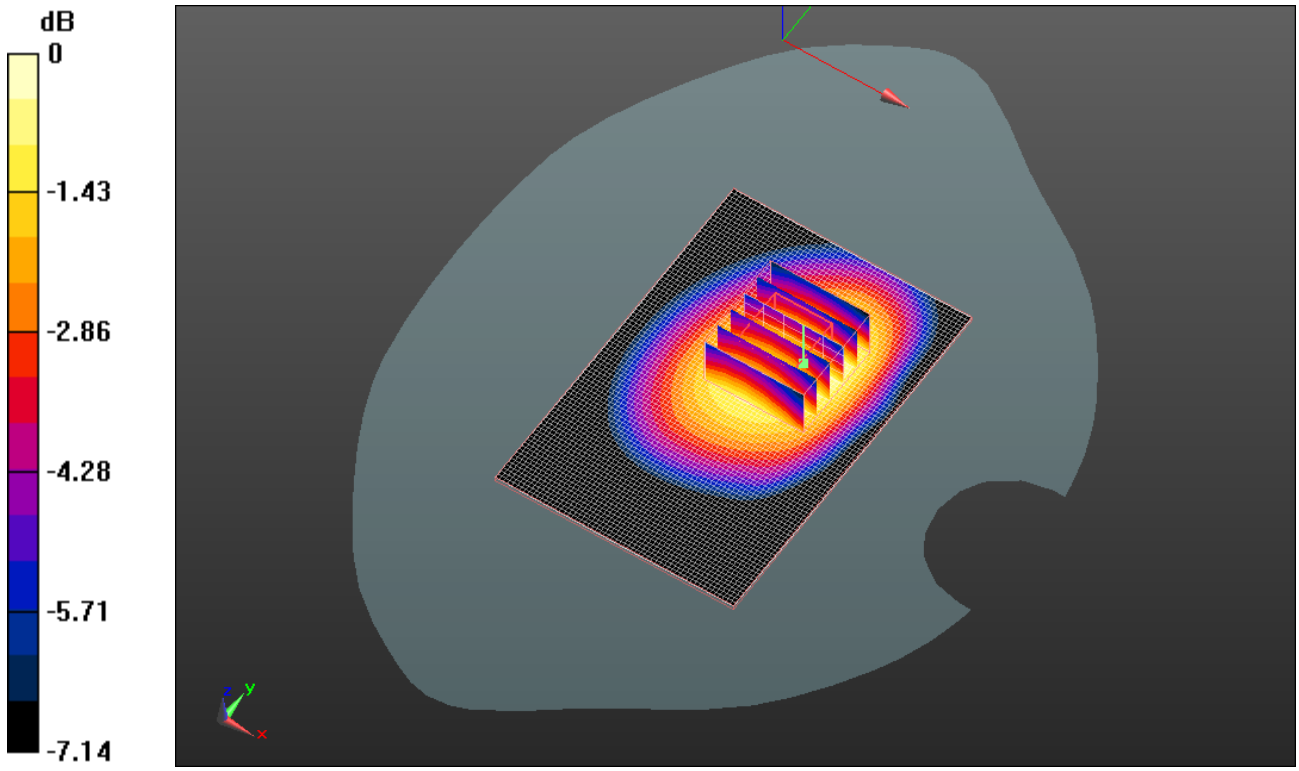

0 dB = 0.620mW/g

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Date/Time: 5/27/2011 10:14:07 PM, Date/Time: 5/27/2011 10:21:00 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_CDMA850_mid_chan_amb_temp_23.7_liq_temp_22.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: CDMA 850; Communication System Band: CDMA 2000 Cellular; Frequency: 836.52 MHz;Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 836.52 MHz; σ = 0.986 mho/m; ε_r = 53.092; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.645 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 25.879 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.768 W/kg
SAR(1 g) = 0.603 mW/g; SAR(10 g) = 0.446 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.643 mW/g

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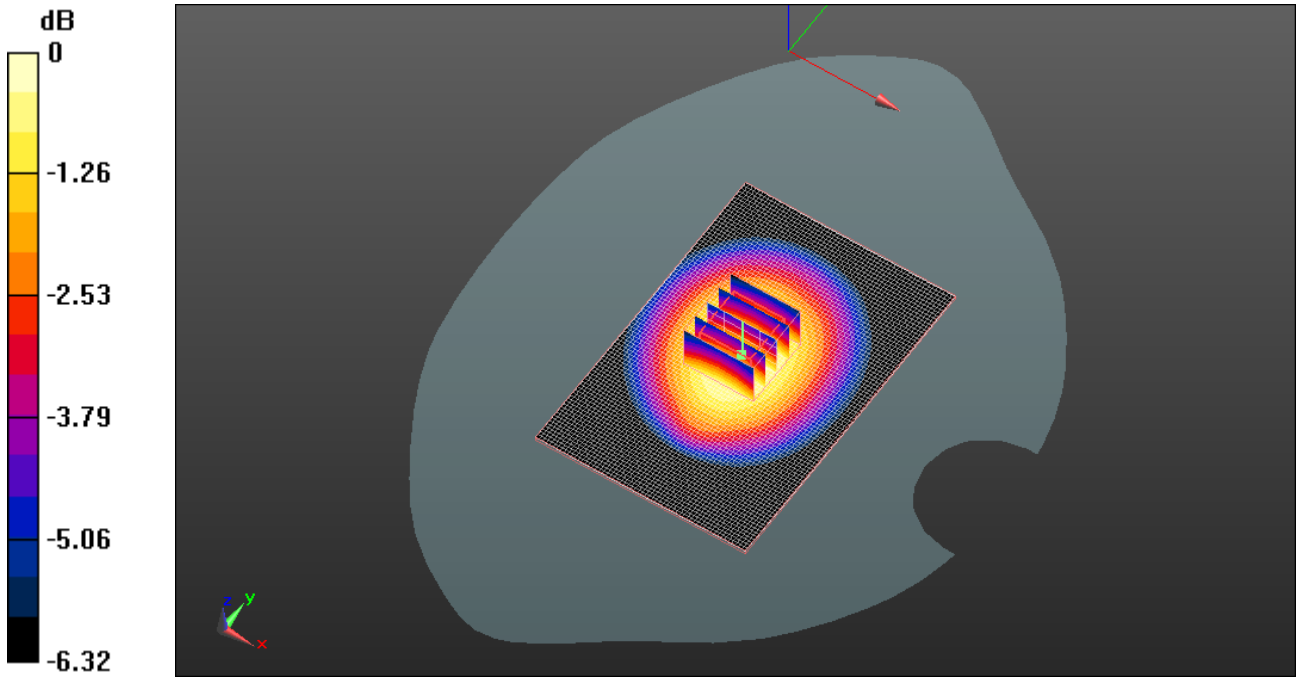

0 dB = 0.640mW/g

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Date/Time: 5/27/2011 10:45:11 PM, Date/Time: 5/27/2011 10:52:05 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Headset_CDMA850_low_chan_amb_temp_24.1_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: CDMA 850; Communication System Band: CDMA 2000 Cellular; Frequency: 824.7 MHz;Communication System PAR: 0 dB
Medium parameters used: f = 825 MHz; σ = 0.974 mho/m; ε_r = 53.235; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.570 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.139 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.897 W/kg
SAR(1 g) = 0.532 mW/g; SAR(10 g) = 0.388 mW/g
Maximum value of SAR (measured) = 0.565 mW/g

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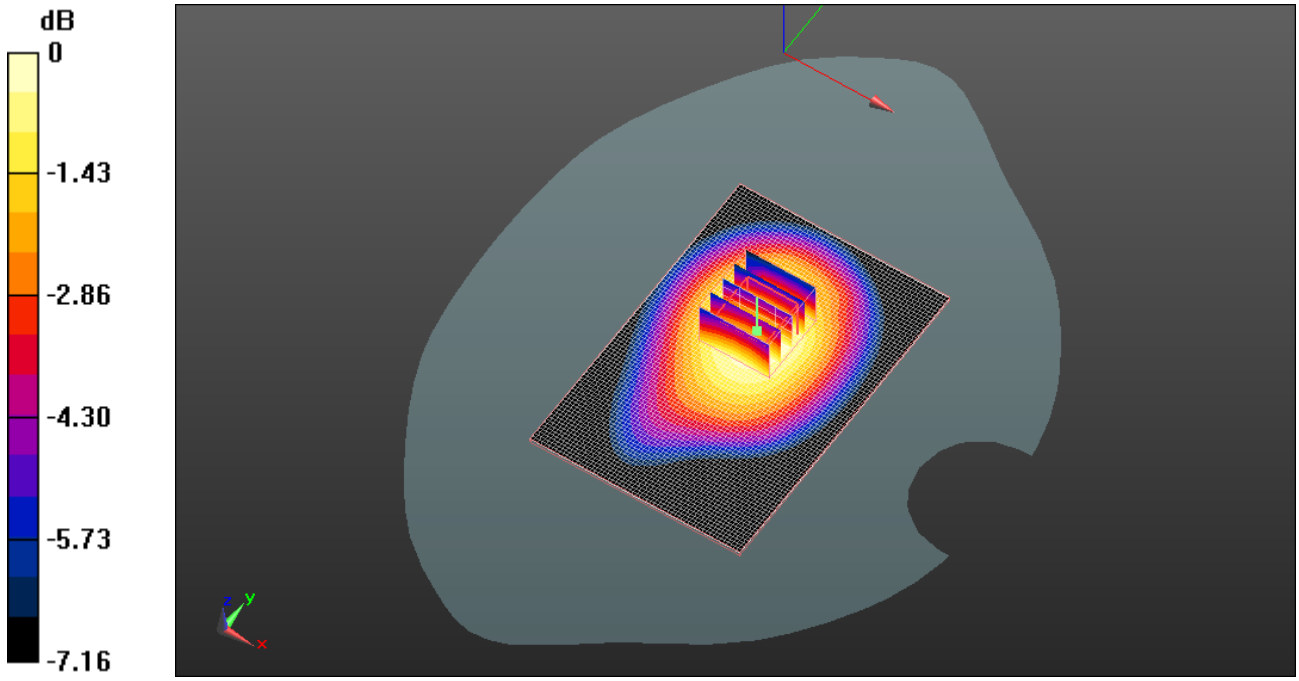

0 dB = 0.560mW/g

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Date/Time: 5/5/2011 12:46:16 PM, Date/Time: 5/5/2011 12:53:12 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_CDMA1900_mid_chan_amb_temp_23.6_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: CDMA 1900; Frequency: 1880 MHz;Communication System PAR: 0 dB
Medium parameters used: f = 1880 MHz; σ = 1.529 mho/m; ε_r = 51.114; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.578 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 11.264 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.786 W/kg
SAR(1 g) = 0.525 mW/g; SAR(10 g) = 0.329 mW/g
Maximum value of SAR (measured) = 0.569 mW/g

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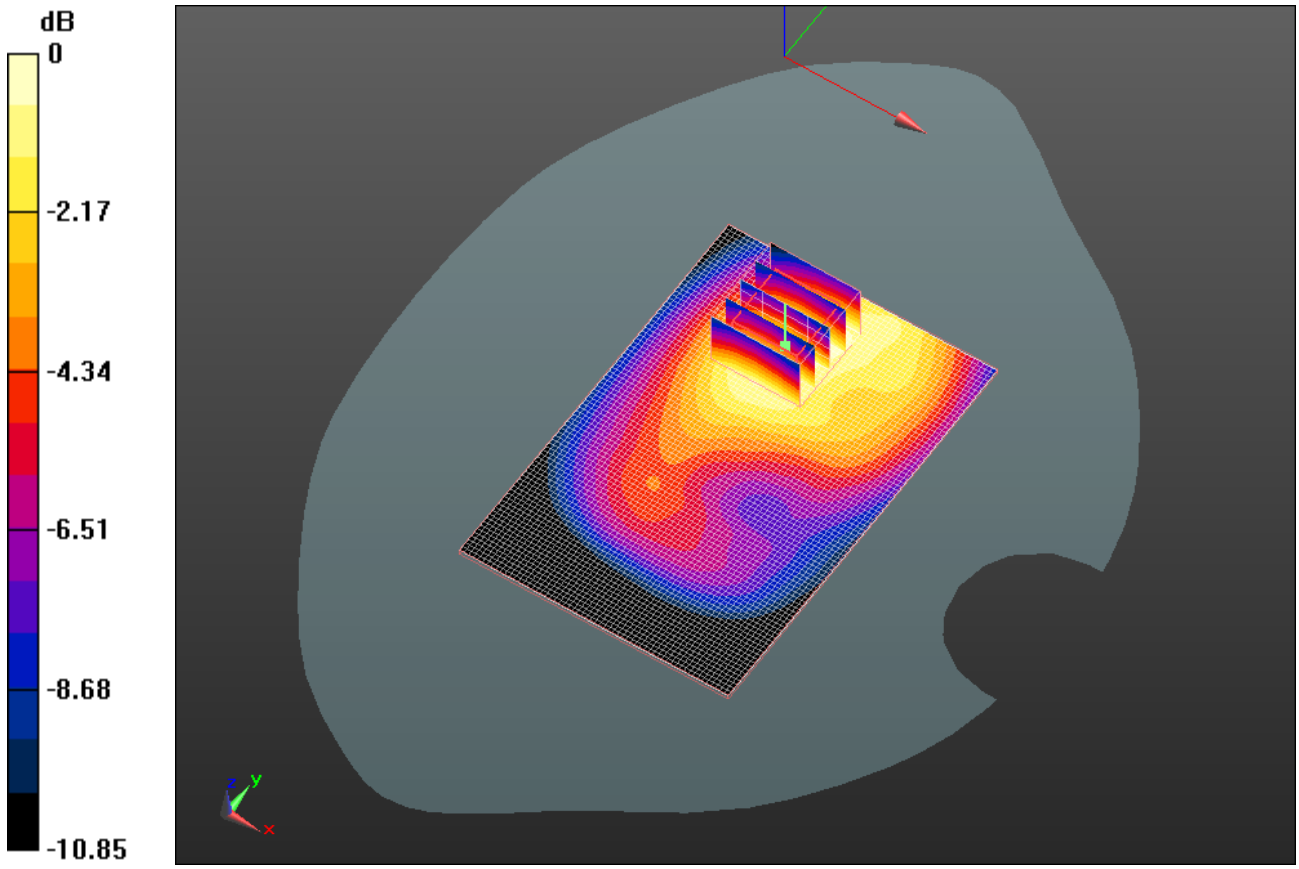

0 dB = 0.570mW/g

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Date/Time: 5/5/2011 1:14:20 PM, Date/Time: 5/5/2011 1:21:17 PM

Test Laboratory: RIM Testing Services

15mm_Space_Front_CDMA1900_mid_chan_amb_temp_23.5_liq_temp_22.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: CDMA 1900; Frequency: 1880 MHz;Communication System PAR: 0 dB
Medium parameters used: f = 1880 MHz; σ = 1.529 mho/m; ε_r = 51.114; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.578 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 9.712 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.794 W/kg
SAR(1 g) = 0.522 mW/g; SAR(10 g) = 0.317 mW/g
Maximum value of SAR (measured) = 0.573 mW/g

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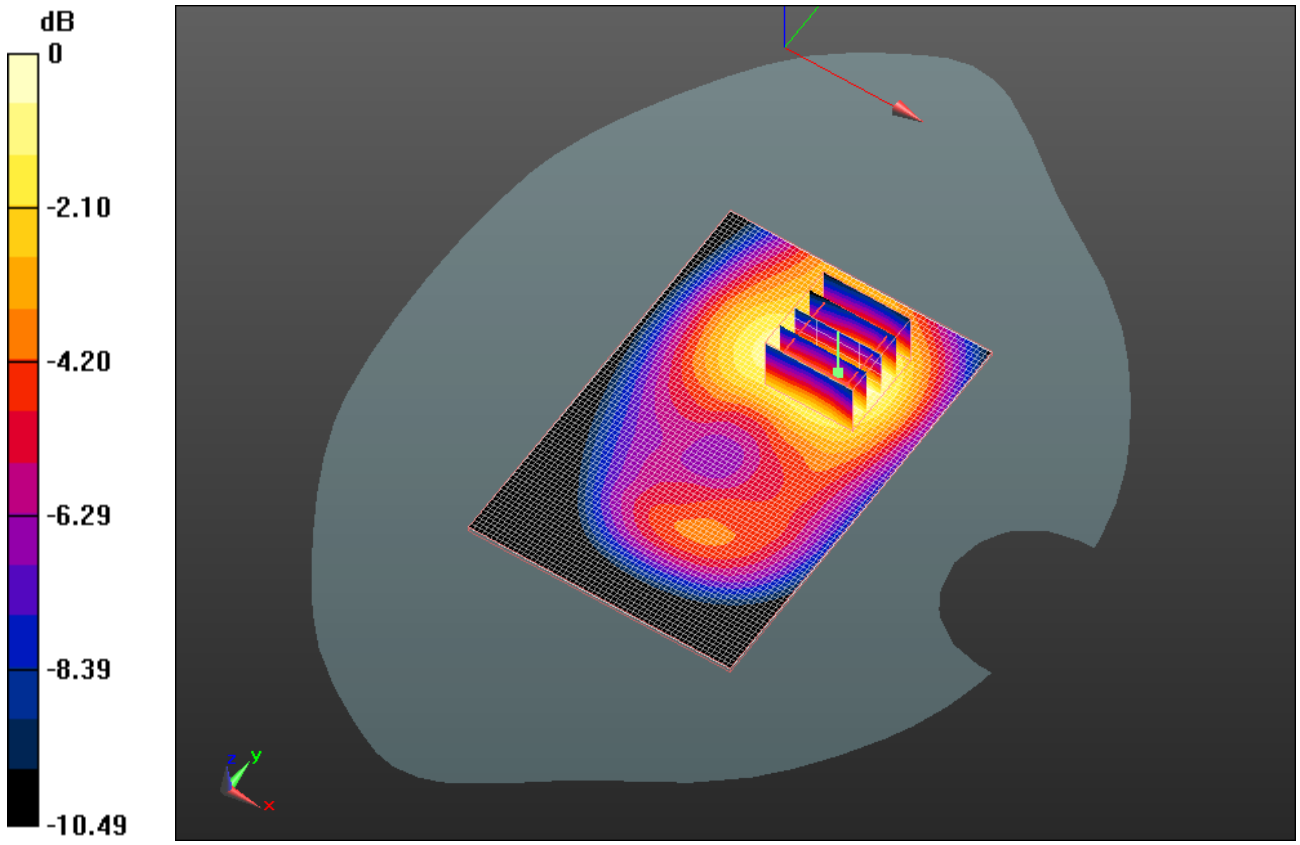

0 dB = 0.570mW/g

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Date/Time: 5/5/2011 1:29:03 PM, Date/Time: 5/5/2011 1:35:58 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_CDMA1900_mid_chan_amb_temp_23.5_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: CDMA 1900; Frequency: 1880 MHz;Communication System PAR: 0 dB
Medium parameters used: f = 1880 MHz; σ = 1.529 mho/m; ε_r = 51.114; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.388 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 7.608 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.518 W/kg
SAR(1 g) = 0.353 mW/g; SAR(10 g) = 0.224 mW/g
Maximum value of SAR (measured) = 0.376 mW/g

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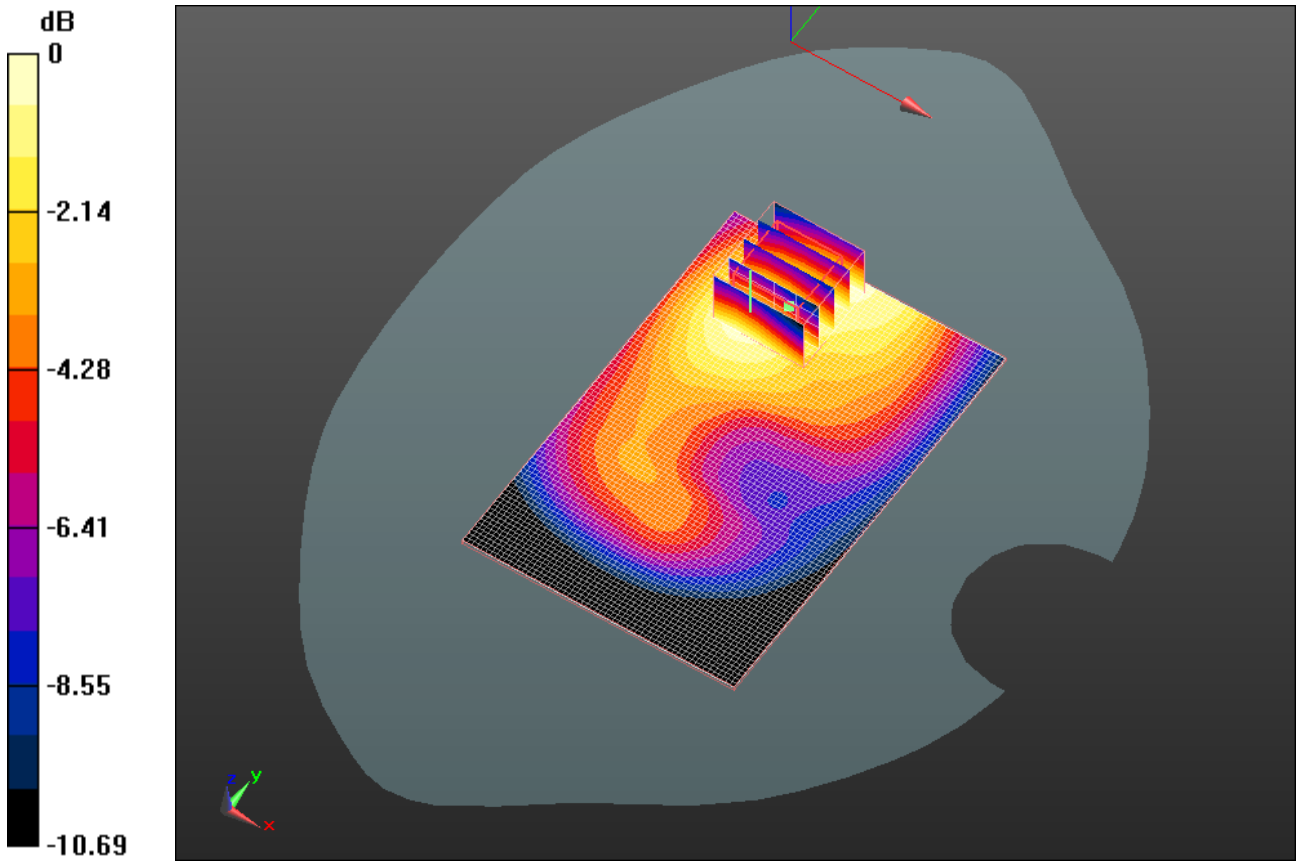

0 dB = 0.380mW/g

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Date/Time: 5/5/2011 2:12:05 PM, Date/Time: 5/5/2011 2:19:00 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Headset_CDMA1900_mid_chan_amb_temp_23.5_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32E4DEC7

Communication System: CDMA 1900; Frequency: 1880 MHz;Communication System PAR: 0 dB
Medium parameters used: f = 1880 MHz; σ = 1.529 mho/m; ε_r = 51.114; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.602 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 11.915 V/m; Power Drift = 0.41 dB
Peak SAR (extrapolated) = 0.855 W/kg
SAR(1 g) = 0.567 mW/g; SAR(10 g) = 0.347 mW/g
Maximum value of SAR (measured) = 0.611 mW/g

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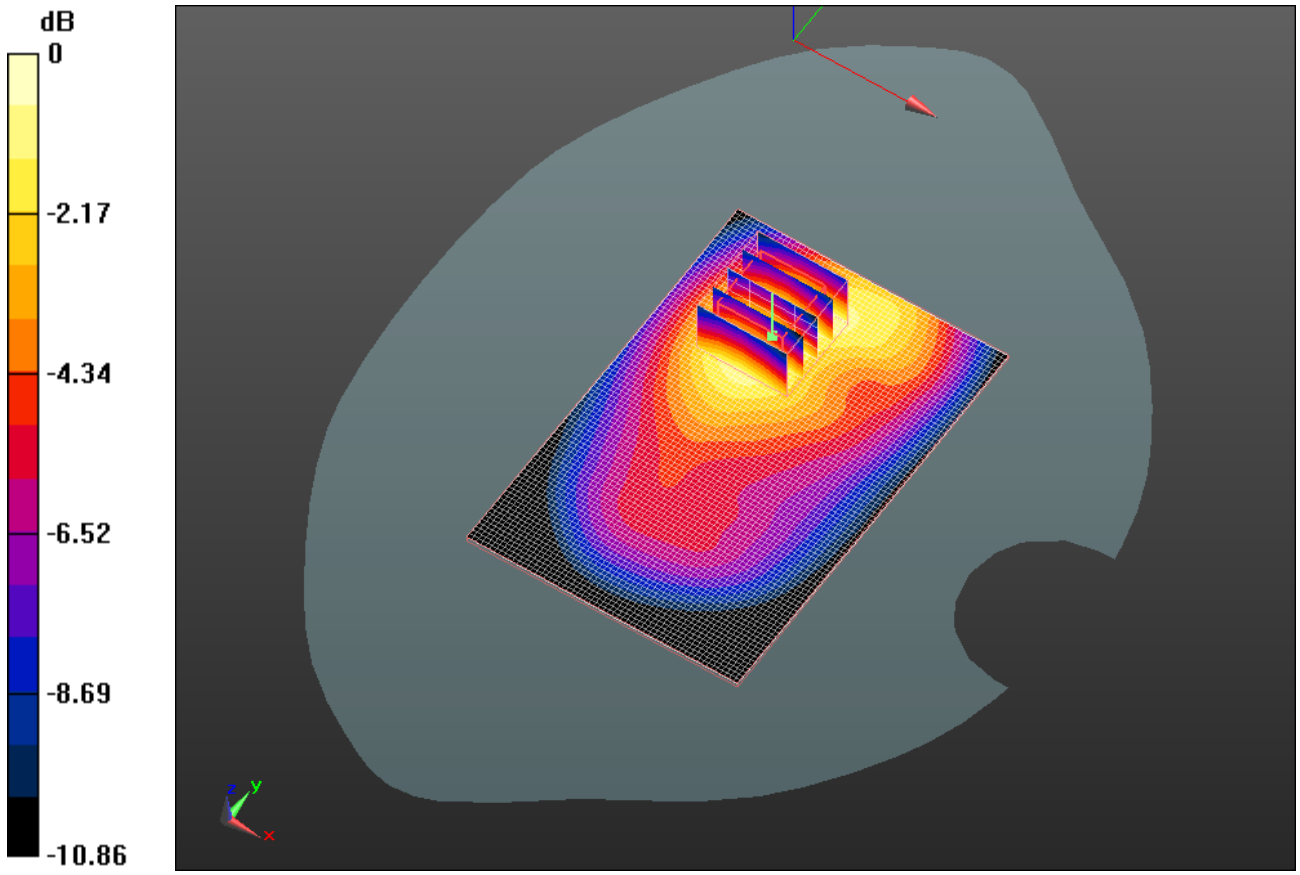

0 dB = 0.610mW/g

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Date/Time: 6/10/2011 6:53:57 PM, Date/Time: 6/10/2011 7:05:17 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_CDMA1900_mid_chan_amb_temp_23.4_liq_temp_22.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: CDMA 1900; Communication System Band: CDMA 2000 PCS; Frequency: 1880 MHz;Communication System PAR: 0 dB
Medium parameters used: f = 1880 MHz; σ = 1.499 mho/m; ε_r = 51.301; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.608 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 9.838 V/m; Power Drift = 0.25 dB
Peak SAR (extrapolated) = 1.055 W/kg
SAR(1 g) = 0.680 mW/g; SAR(10 g) = 0.427 mW/g
Maximum value of SAR (measured) = 0.733 mW/g

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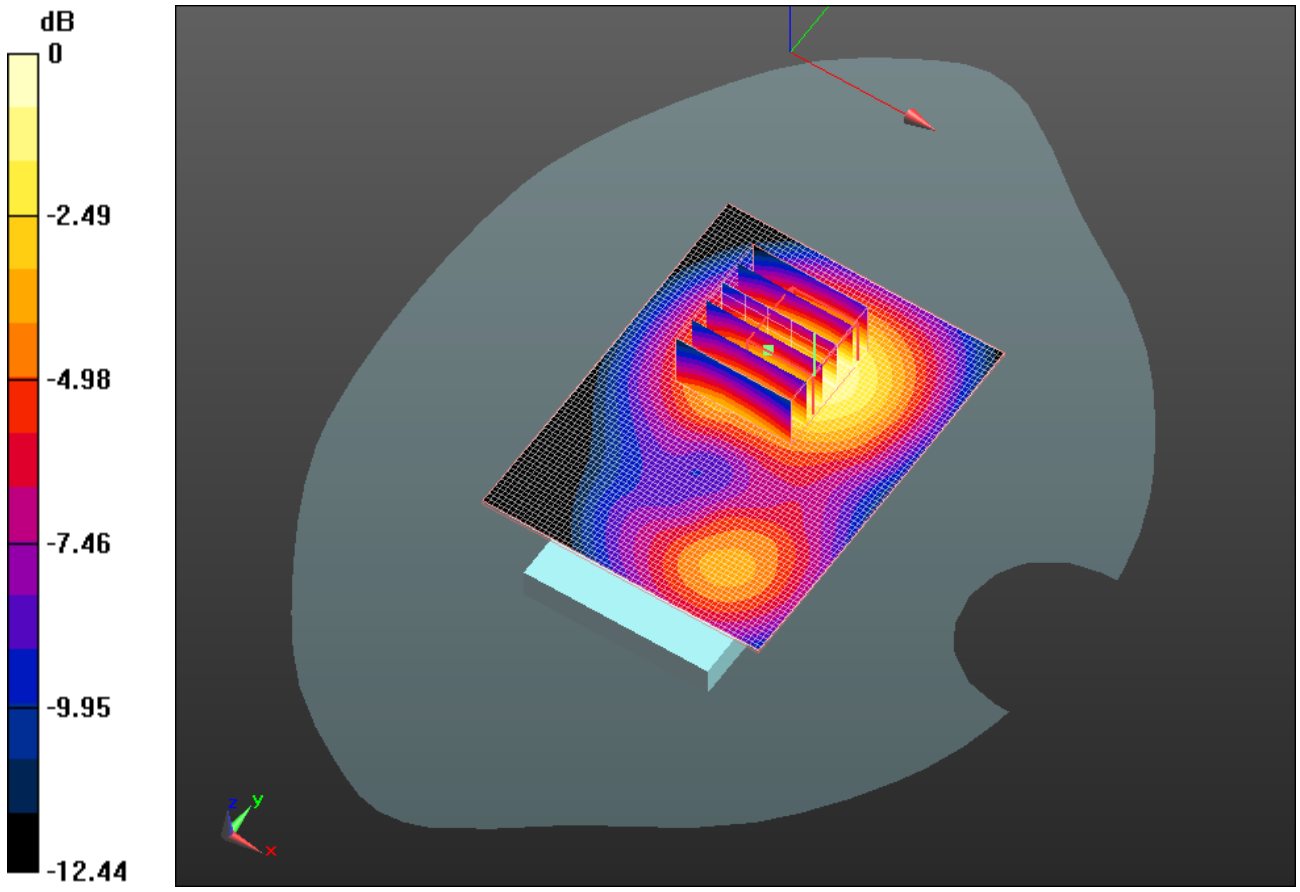

0 dB = 0.730mW/g

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Date/Time: 6/10/2011 7:35:18 PM, Date/Time: 6/10/2011 7:41:39 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_CDMA1900_mid_chan_amb_temp_23.2_liq_temp _22.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: CDMA 1900; Communication System Band: CDMA 2000 PCS; Frequency: 1880 MHz;Communication System PAR: 0 dB
Medium parameters used: f = 1880 MHz; σ = 1.499 mho/m; ε_r = 51.301; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.642 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 9.146 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.902 W/kg
SAR(1 g) = 0.601 mW/g; SAR(10 g) = 0.375 mW/g
Maximum value of SAR (measured) = 0.649 mW/g

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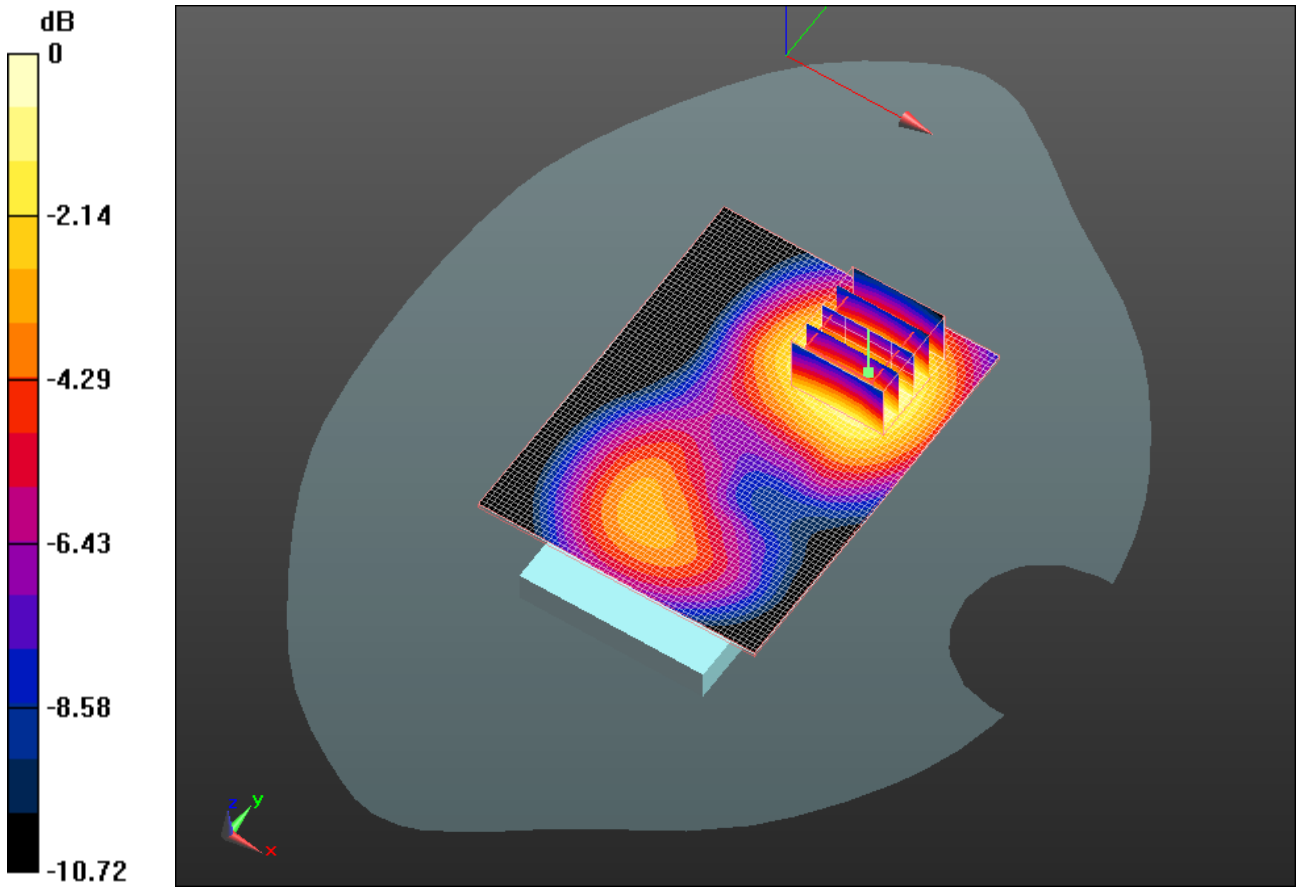

0 dB = 0.650mW/g

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Date/Time: 6/10/2011 7:14:22 PM, Date/Time: 6/10/2011 7:26:34 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_CDMA1900_mid_chan_amb_temp_23.2_liq_temp_22.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: CDMA 1900; Communication System Band: CDMA 2000 PCS; Frequency: 1880 MHz;Communication System PAR: 0 dB
Medium parameters used: f = 1880 MHz; σ = 1.499 mho/m; ε_r = 51.301; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.437 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.662 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.619 W/kg
SAR(1 g) = 0.412 mW/g; SAR(10 g) = 0.263 mW/g
Maximum value of SAR (measured) = 0.437 mW/g

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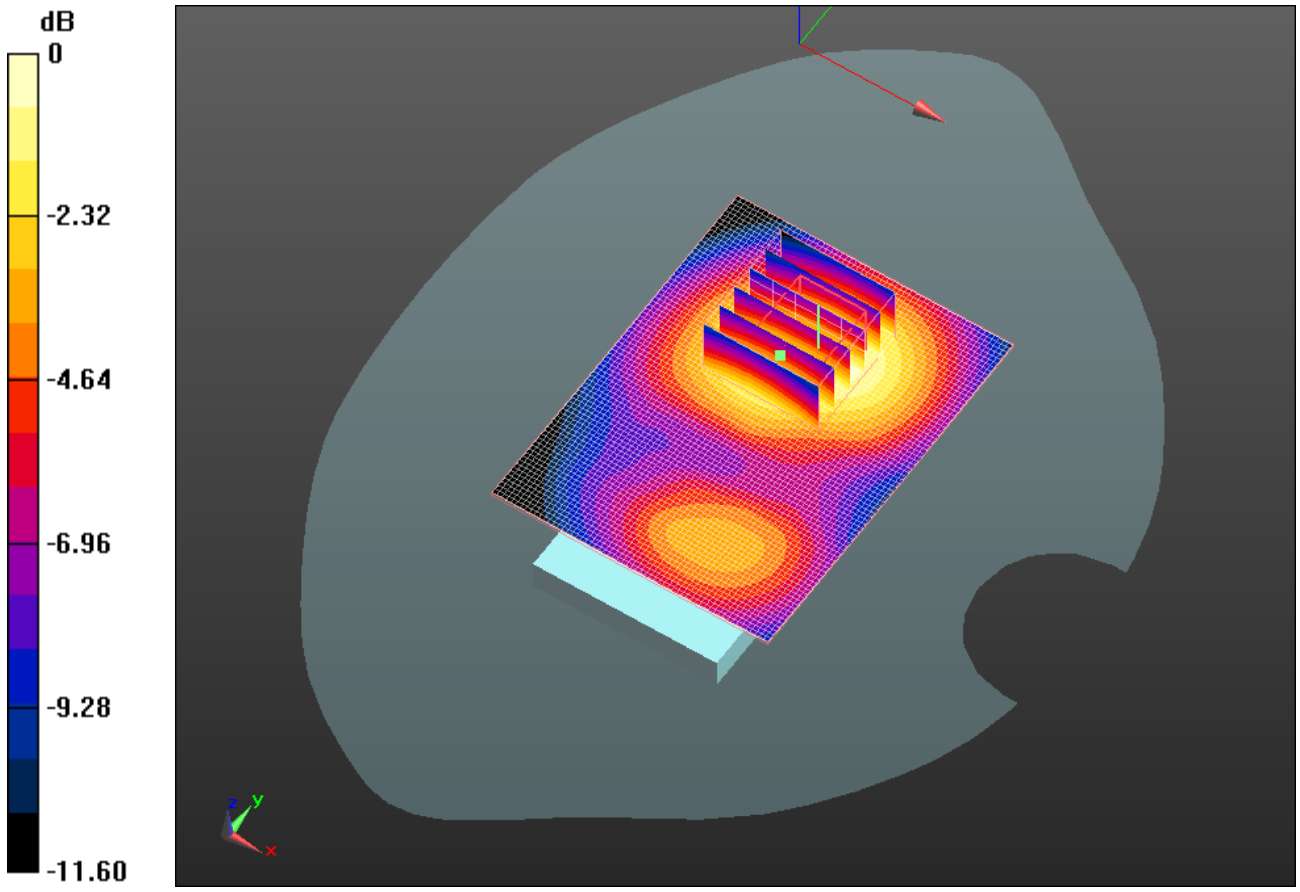

0 dB = 0.440mW/g

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Date/Time: 6/10/2011 7:48:50 PM, Date/Time: 6/10/2011 7:55:11 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Headset_CDMA1900_mid_chan_amb_temp_23.2_liq_temp_22.0C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: CDMA 1900; Communication System Band: CDMA 2000 PCS; Frequency: 1880 MHz;Communication System PAR: 0 dB
Medium parameters used: f = 1880 MHz; σ = 1.499 mho/m; ε_r = 51.301; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.758 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.558 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.011 W/kg
SAR(1 g) = 0.676 mW/g; SAR(10 g) = 0.423 mW/g
Maximum value of SAR (measured) = 0.741 mW/g

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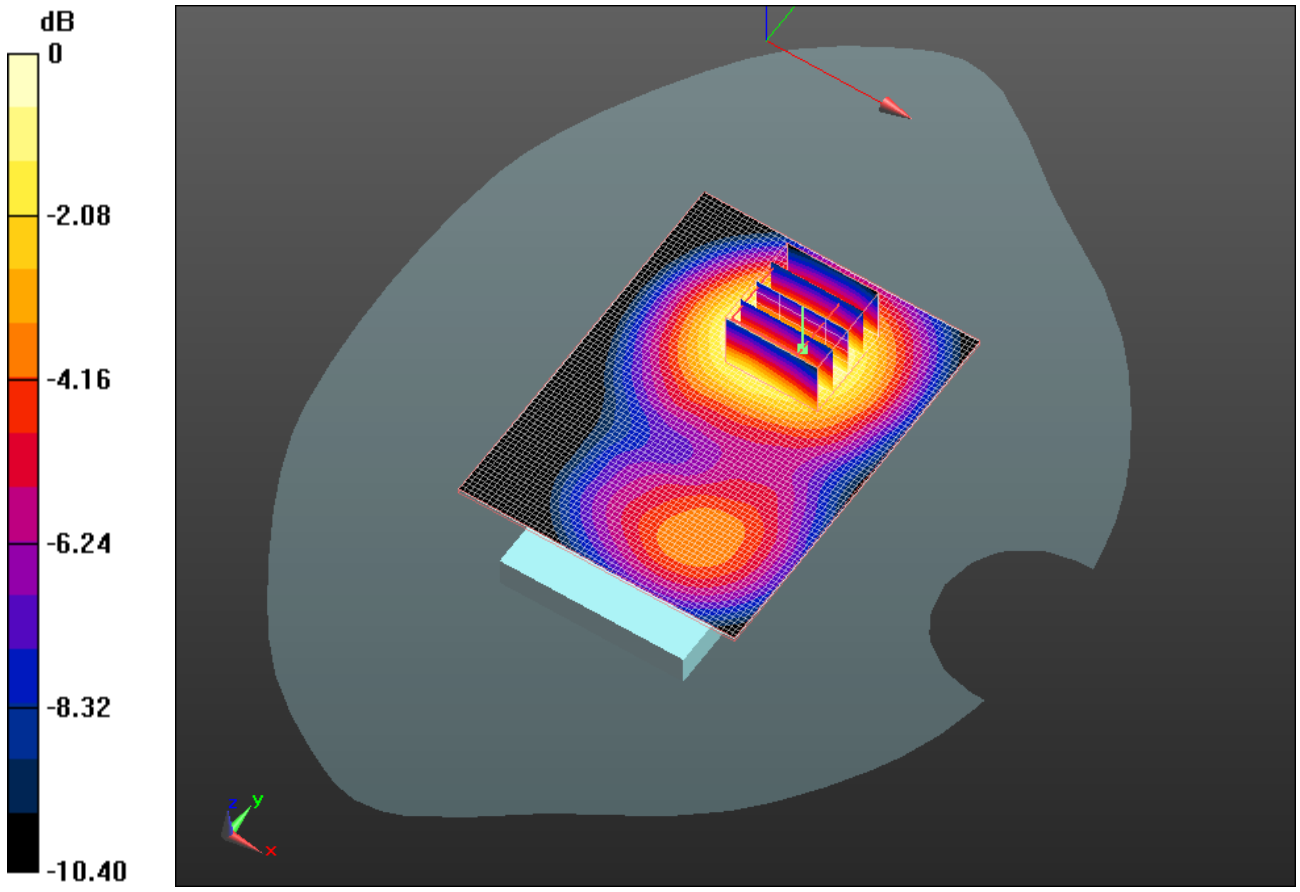

0 dB = 0.740mW/g

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Date/Time: 6/24/2011 8:29:33 PM, Date/Time: 6/24/2011 8:36:26 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_802.11b_high_chan_amb_temp_23.4_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2462 MHz;Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 2462 MHz; σ = 1.892 mho/m; ε_r = 50.43; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.074 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 4.137 V/m; Power Drift = 0.47 dB
Peak SAR (extrapolated) = 0.132 W/kg
SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.035 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.074 mW/g

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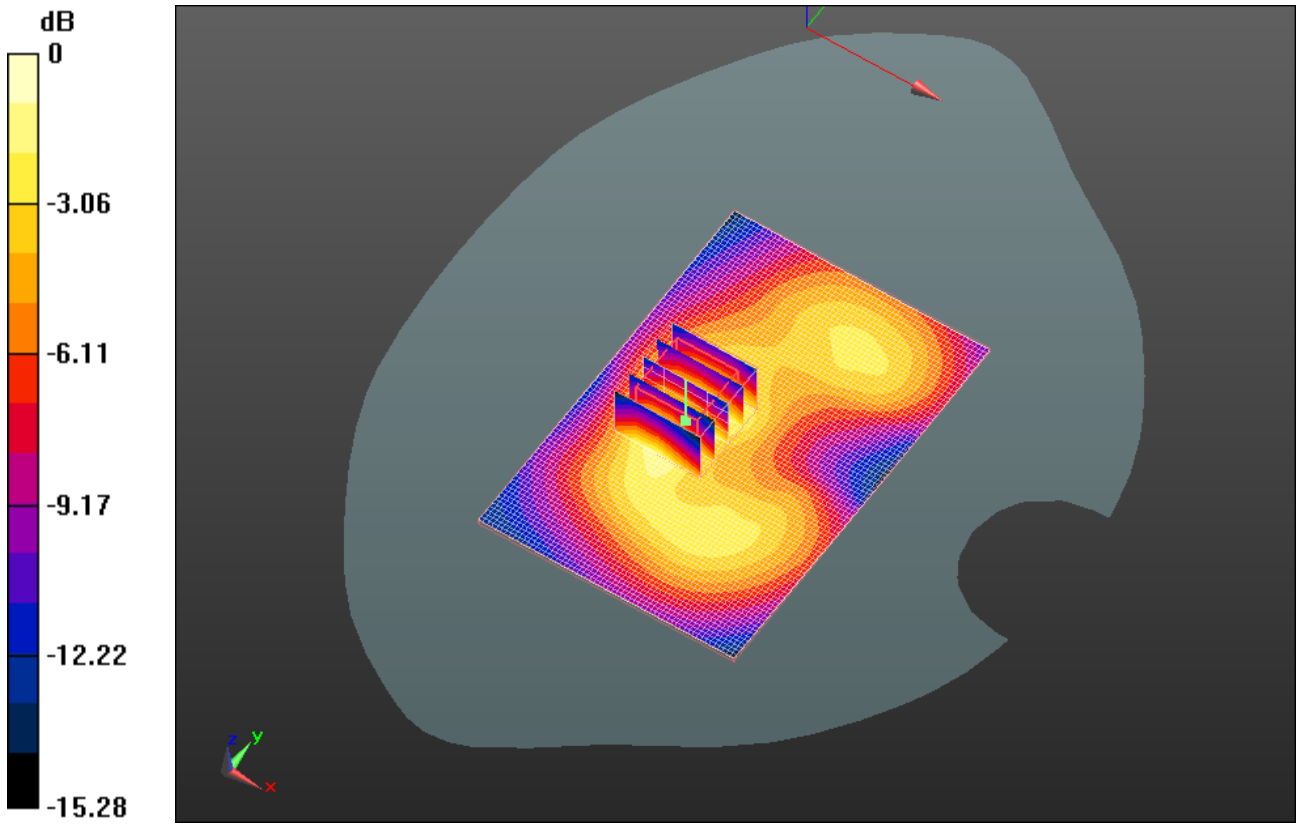

0 dB = 0.070mW/g

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Date/Time: 6/24/2011 8:42:58 PM, Date/Time: 6/24/2011 8:49:51 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_802.11b_high_chan_amb_temp_23.3_liq_temp_22.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2462 MHz;Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 2462 MHz; σ = 1.892 mho/m; ε_r = 50.43; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.018 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 1.064 V/m; Power Drift = 0.45 dB
Peak SAR (extrapolated) = 0.029 W/kg
SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00898 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.017 mW/g

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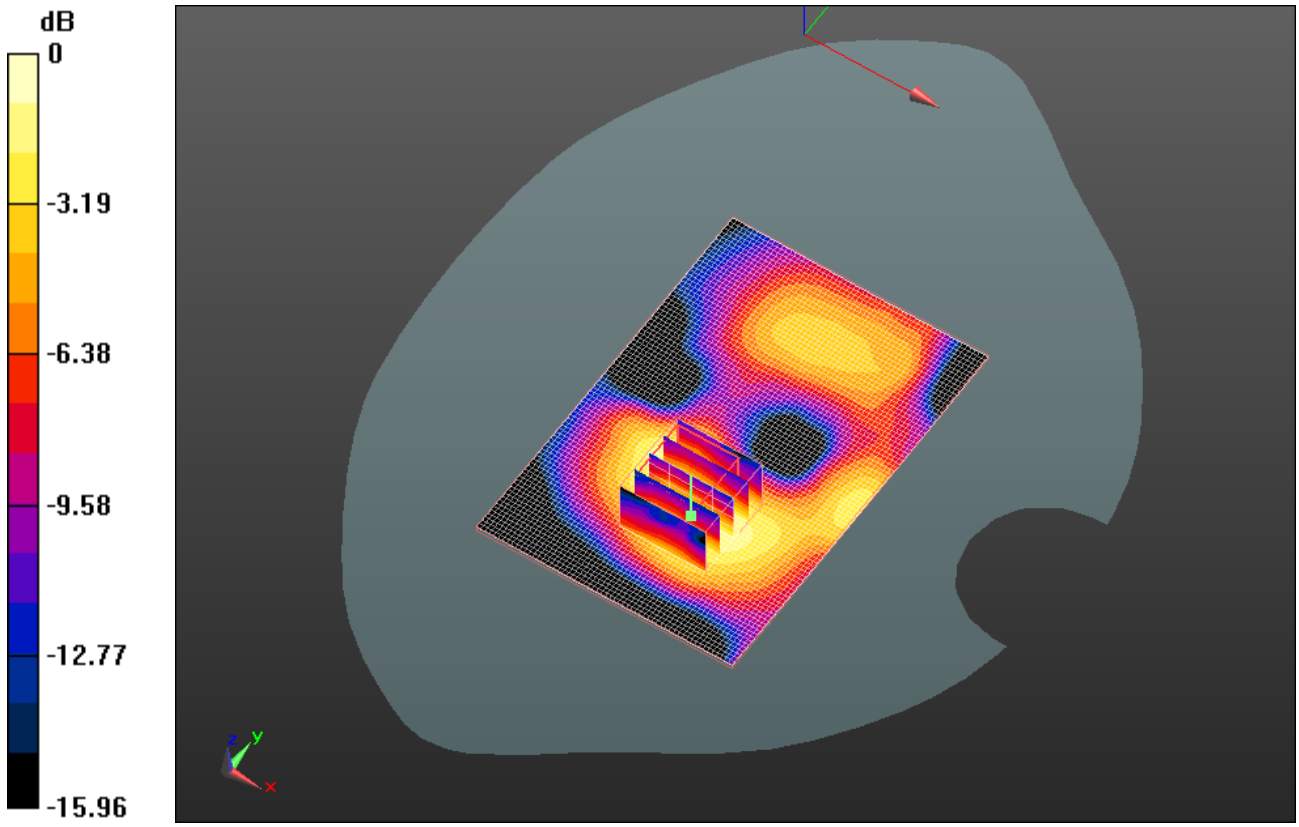

0 dB = 0.020mW/g

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Date/Time: 6/24/2011 8:56:44 PM, Date/Time: 6/24/2011 9:03:35 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_802.11b_high_chan_amb_temp_23.2_liq_temp_22.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2462 MHz;Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 2462 MHz; σ = 1.892 mho/m; ε_r = 50.43; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.044 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 3.366 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.075 W/kg
SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.022 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.043 mW/g

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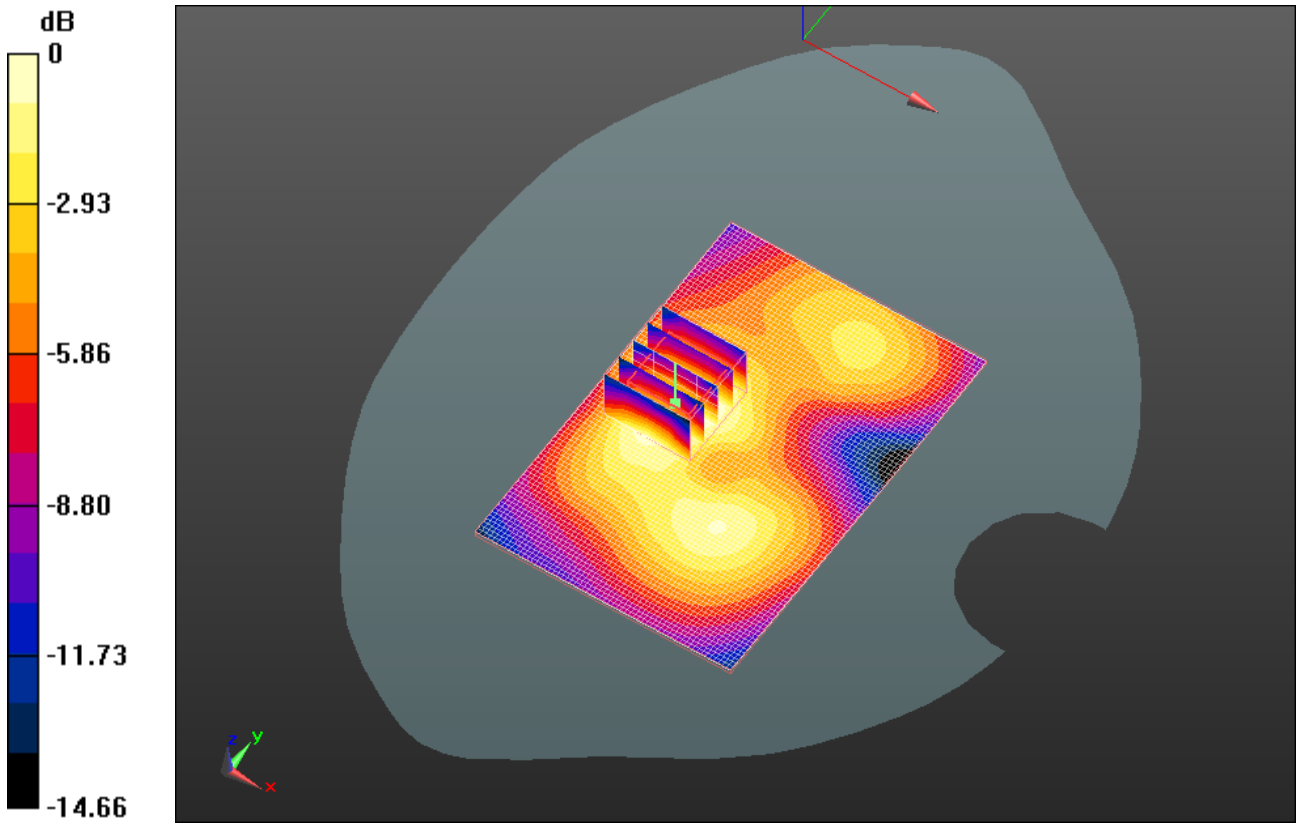

0 dB = 0.040mW/g

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Date/Time: 6/24/2011 9:09:53 PM, Date/Time: 6/24/2011 9:16:45 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Headset_802.11b_high_chan_amb_temp_23.2_liq_temp_22.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2462 MHz;Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 2462 MHz; σ = 1.892 mho/m; ε_r = 50.43; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.067 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 4.188 V/m; Power Drift = -0.21 dB
Peak SAR (extrapolated) = 0.133 W/kg
SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.034 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.074 mW/g

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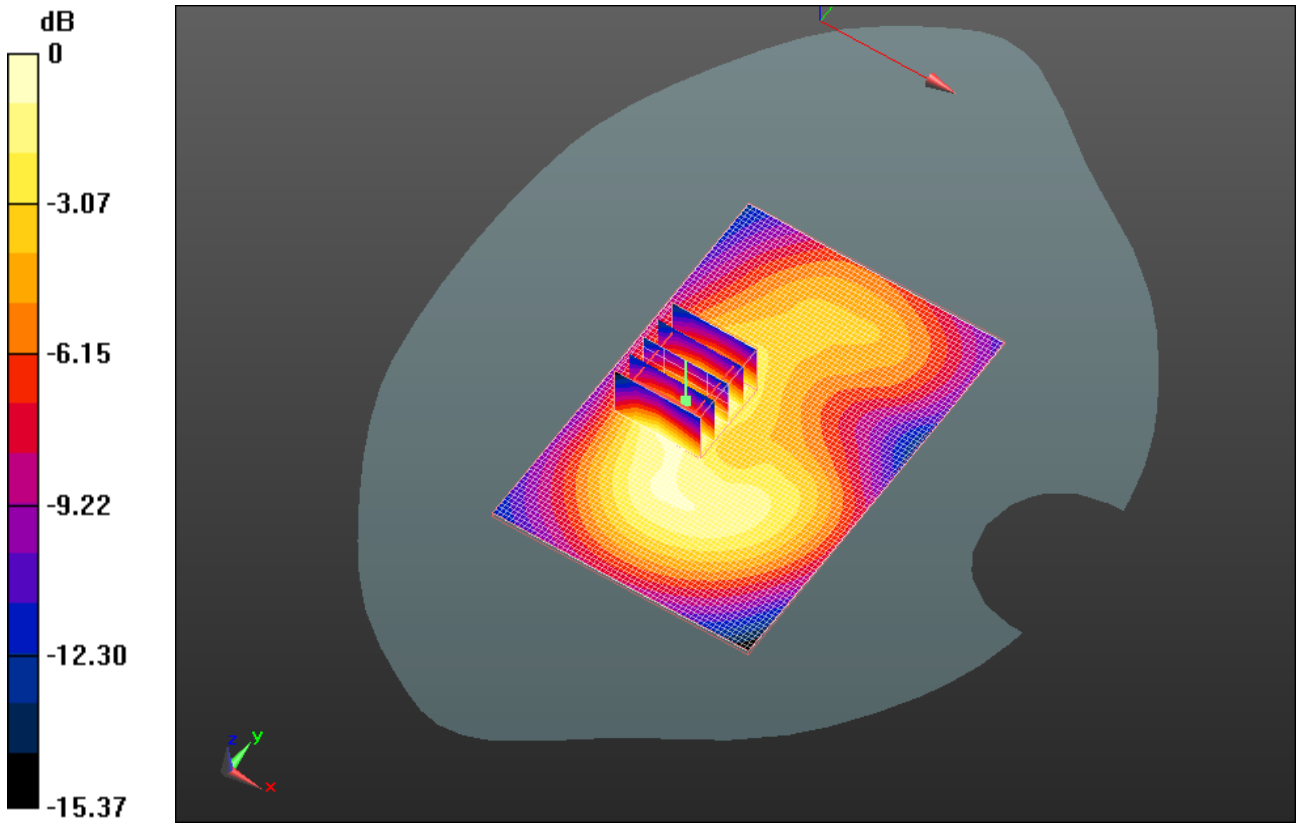

0 dB = 0.070mW/g

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Date/Time: 6/15/2011 9:34:46 PM, Date/Time: 6/15/2011 9:41:39 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Bluetooth_mid_chan_amb_temp_23.7_liq_temp_22.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: Bluetooth; Frequency: 2441 MHz;Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 2441 MHz; σ = 2.021 mho/m; ε_r = 50.158; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.00278 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (7x6x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 1.016 V/m; Power Drift = 2.58 dB
Peak SAR (extrapolated) = 0.00603 W/kg
SAR(1 g) = 0.00159 mW/g; SAR(10 g) = 0.000801 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.00179 mW/g

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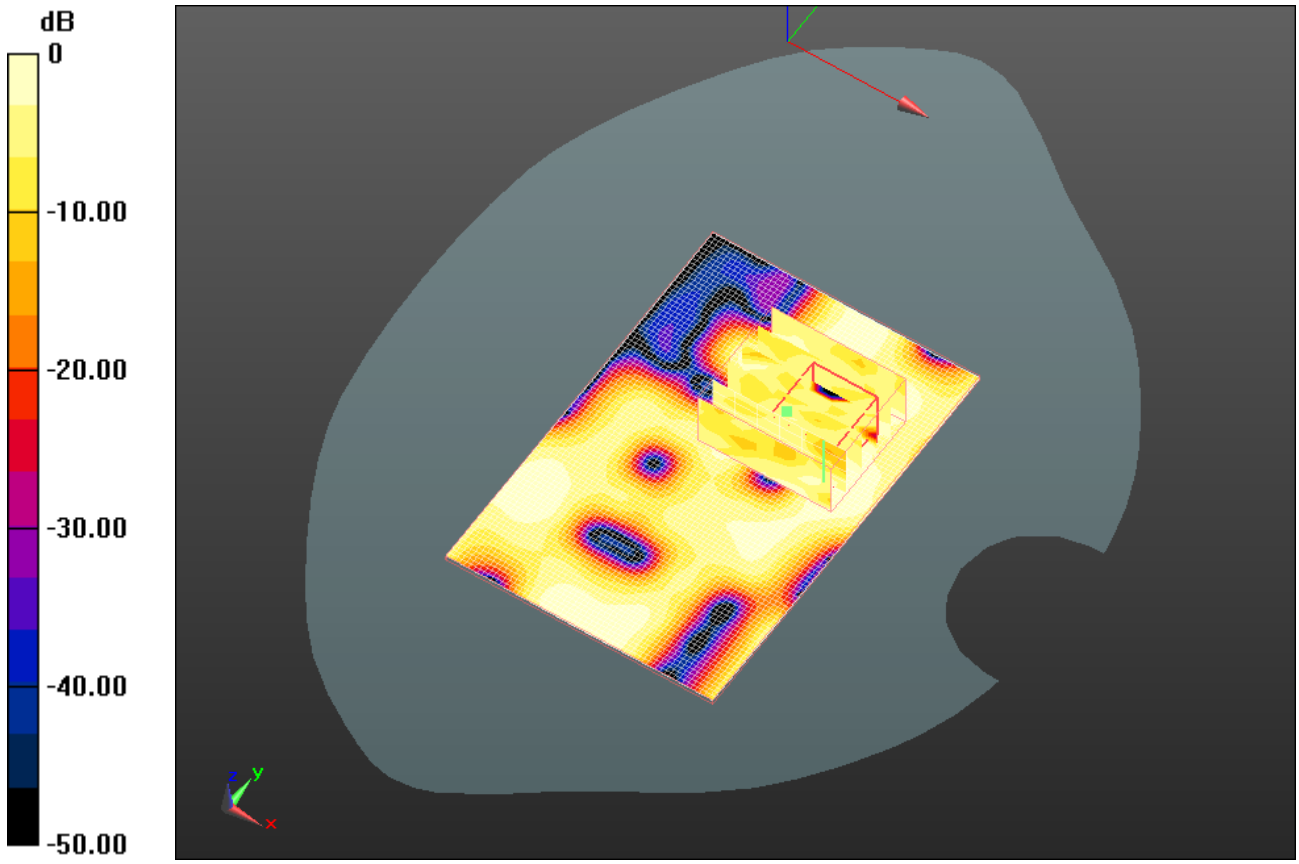

0 dB = 0.0018mW/g

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Date/Time: 6/15/2011 9:51:25 PM, Date/Time: 6/15/2011 9:58:15 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_Bluetooth_mid_chan_amb_temp_23.7_liq_temp_22.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 32EFD945

Communication System: Bluetooth; Frequency: 2441 MHz;Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 2441 MHz; σ = 2.021 mho/m; ε_r = 50.158; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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) = 0.00325 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (7x6x5)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 1.225 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.00479 W/kg
SAR(1 g) = 0.00145 mW/g; SAR(10 g) = 0.000831 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.00199 mW/g

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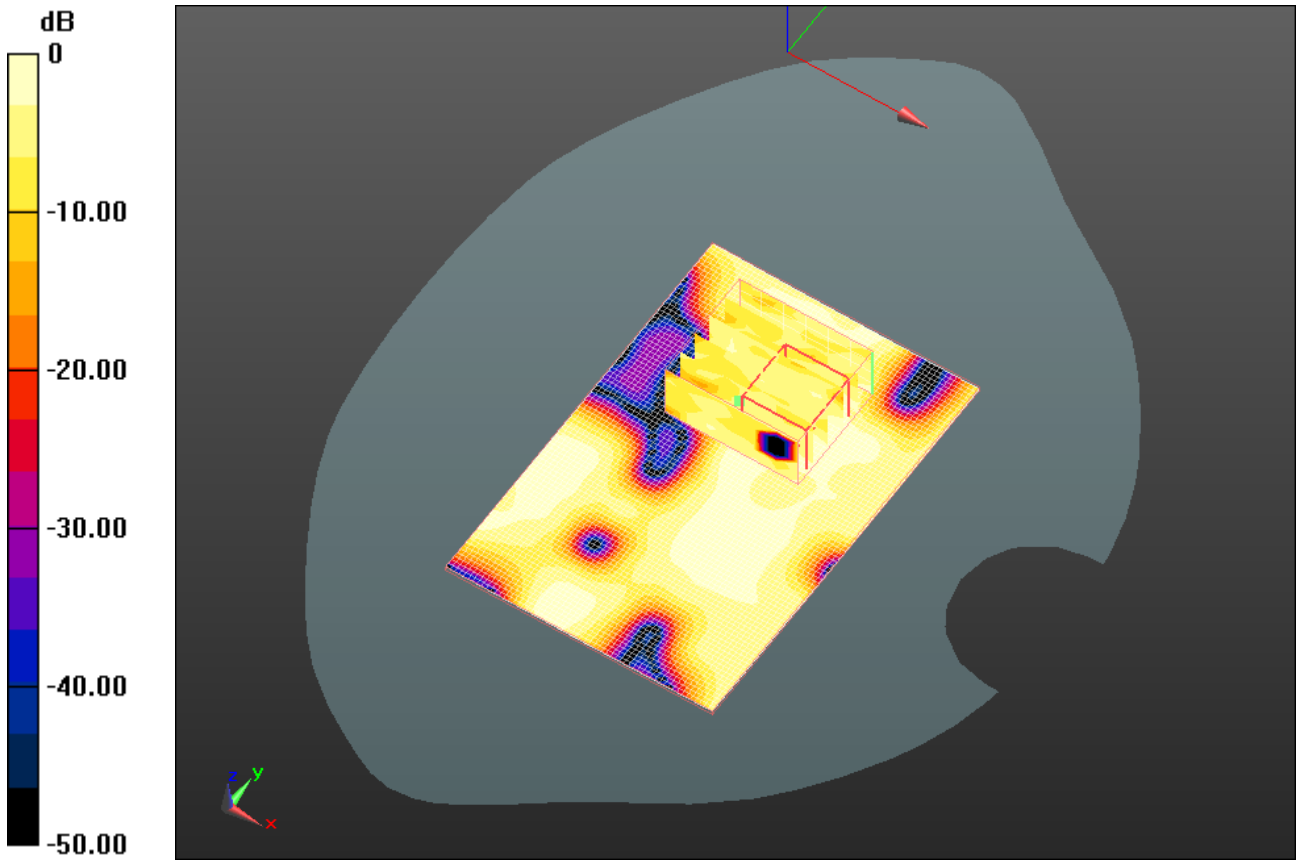

0 dB = 0.002mW/g

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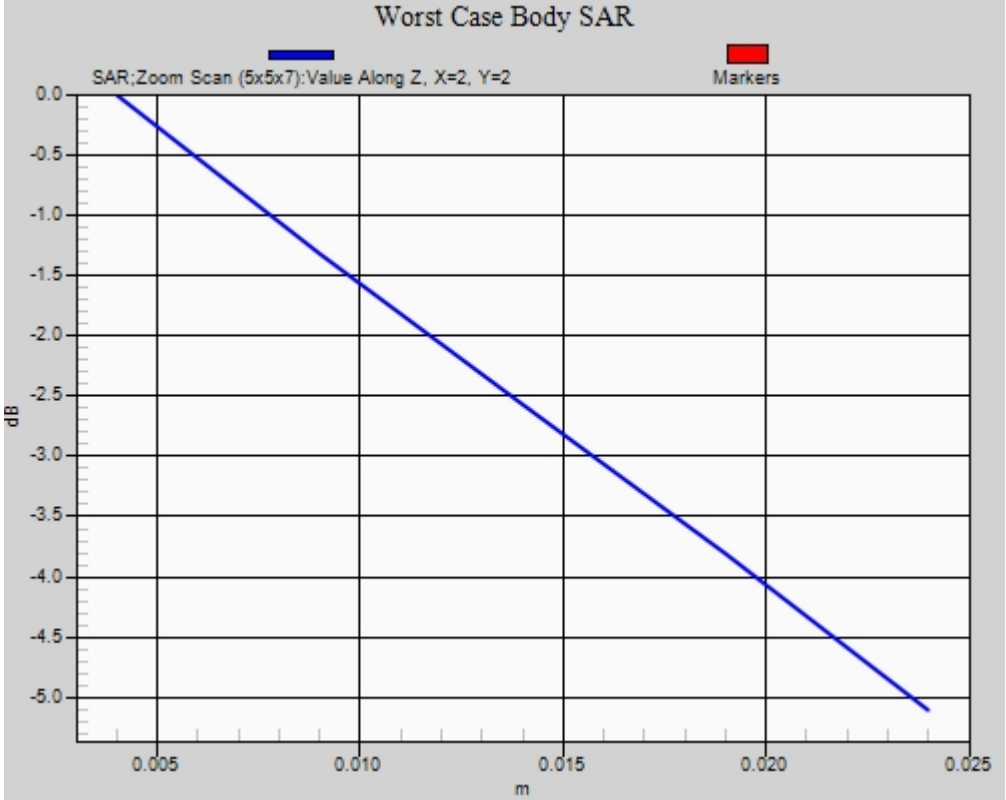
Z axis plot for the worst case body configuration:



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