
	Document Appendix C1 for the BlackBerry® Smartphone Model REY21CW SAR Report			Page 1(30)
	Author Data Andrew Becker	Dates of Test February 23 – March 6 , 2012	Test Report No RTS-5994-1203-47	FCC ID: L6AREY20CW

APPENDIX C1: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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Date/Time: 2/27/2012 2:57:03 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_CDMA850_mid_chan_amb_temp_22.7_liq_temp_2 1.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4

Communication System: CDMA 850; Frequency: 836.52 MHz

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.977$ mho/m; $\epsilon_r = 54.633$;
 $\rho = 1000$ 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 Sn473; Calibrated: 1/13/2012
- 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:
 $dx=15$ mm, $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.798 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 = 28.600 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.9730

SAR(1 g) = 0.731 mW/g; SAR(10 g) = 0.531 mW/g

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

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

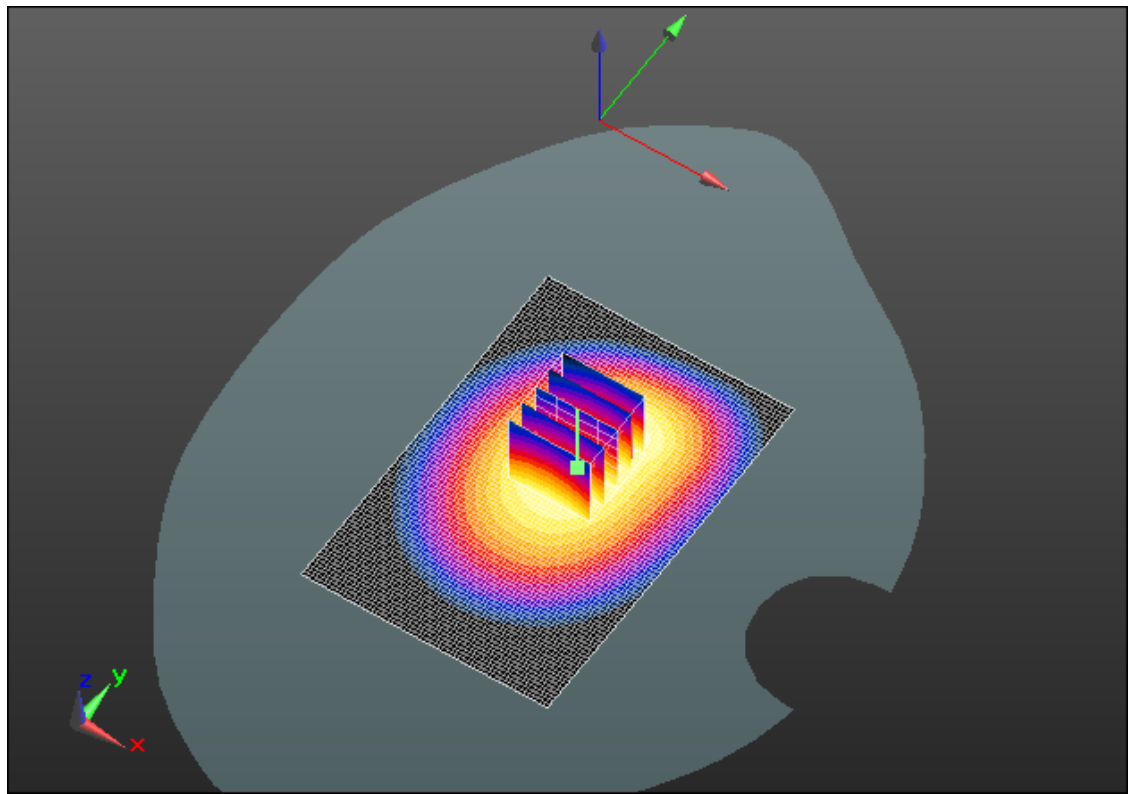
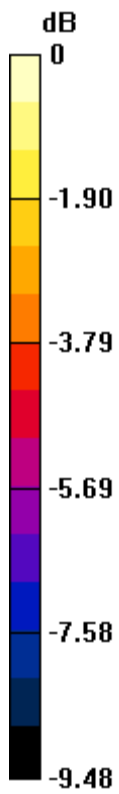
Author Data
Andrew Becker

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0 dB = 0.820mW/g = -1.72 dB mW/g

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Date/Time: 2/27/2012 3:51:45 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_CDMA850_mid_chan_amb_temp_22.7C_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4

Communication System: CDMA 850; Frequency: 836.52 MHz
 Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.977$ mho/m; $\epsilon_r = 54.633$;
 $\rho = 1000$ 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 Sn473; Calibrated: 1/13/2012
- 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:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.697 mW/g

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

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 25.922 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 0.8330
SAR(1 g) = 0.636 mW/g; SAR(10 g) = 0.472 mW/g

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

Maximum value of SAR (measured) = 0.705 mW/g

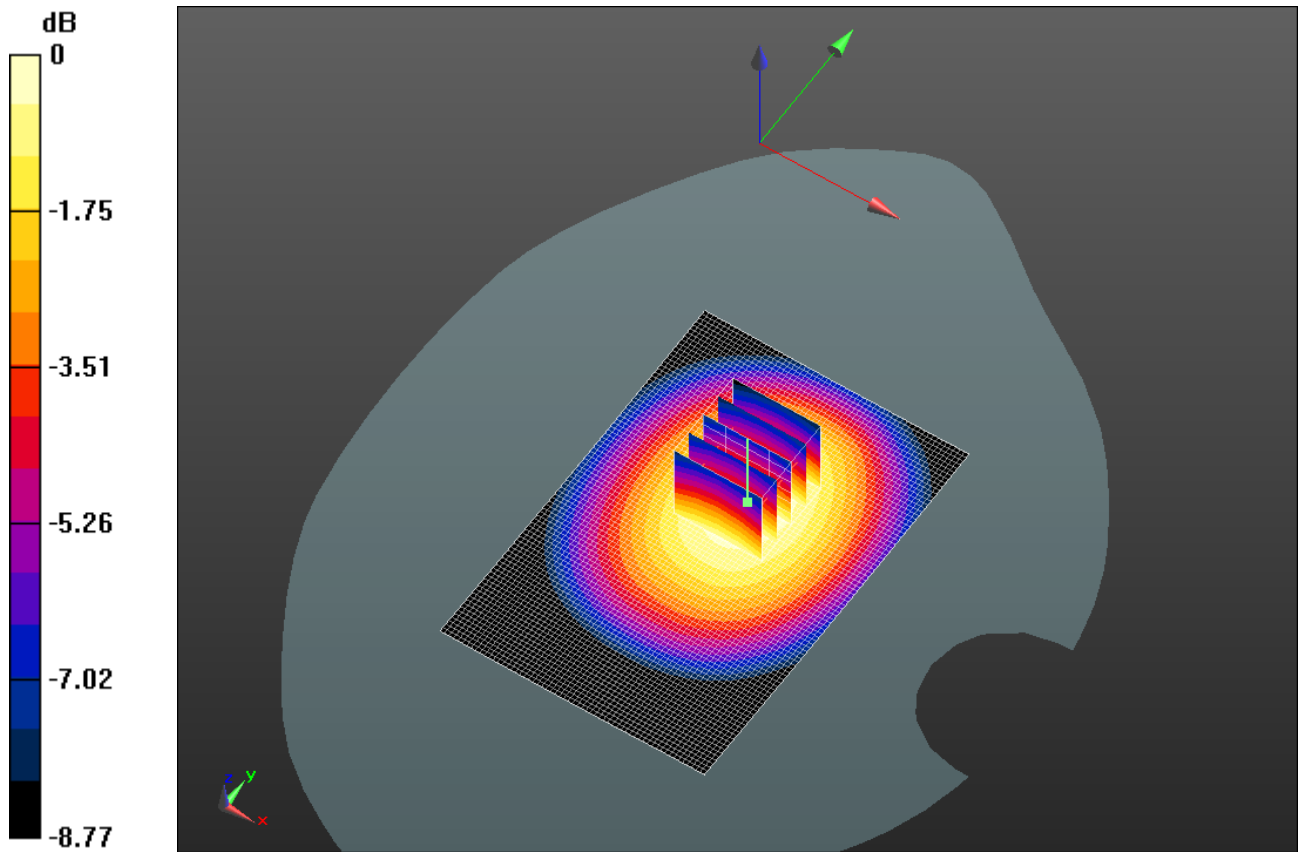
Author Data
Andrew Becker

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0 dB = 0.710mW/g = -2.97 dB mW/g

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Date/Time: 2/27/2012 4:09:18 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_CDMA850_mid_chan_amb_temp_22.7_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4

Communication System: CDMA 850; Frequency: 836.52 MHz

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.977$ mho/m; $\epsilon_r = 54.633$;
 $\rho = 1000$ 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 Sn473; Calibrated: 1/13/2012
- 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:
 $dx=15$ mm, $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.613 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 = 24.809 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.7070

SAR(1 g) = 0.541 mW/g; SAR(10 g) = 0.397 mW/g

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

Maximum value of SAR (measured) = 0.603 mW/g

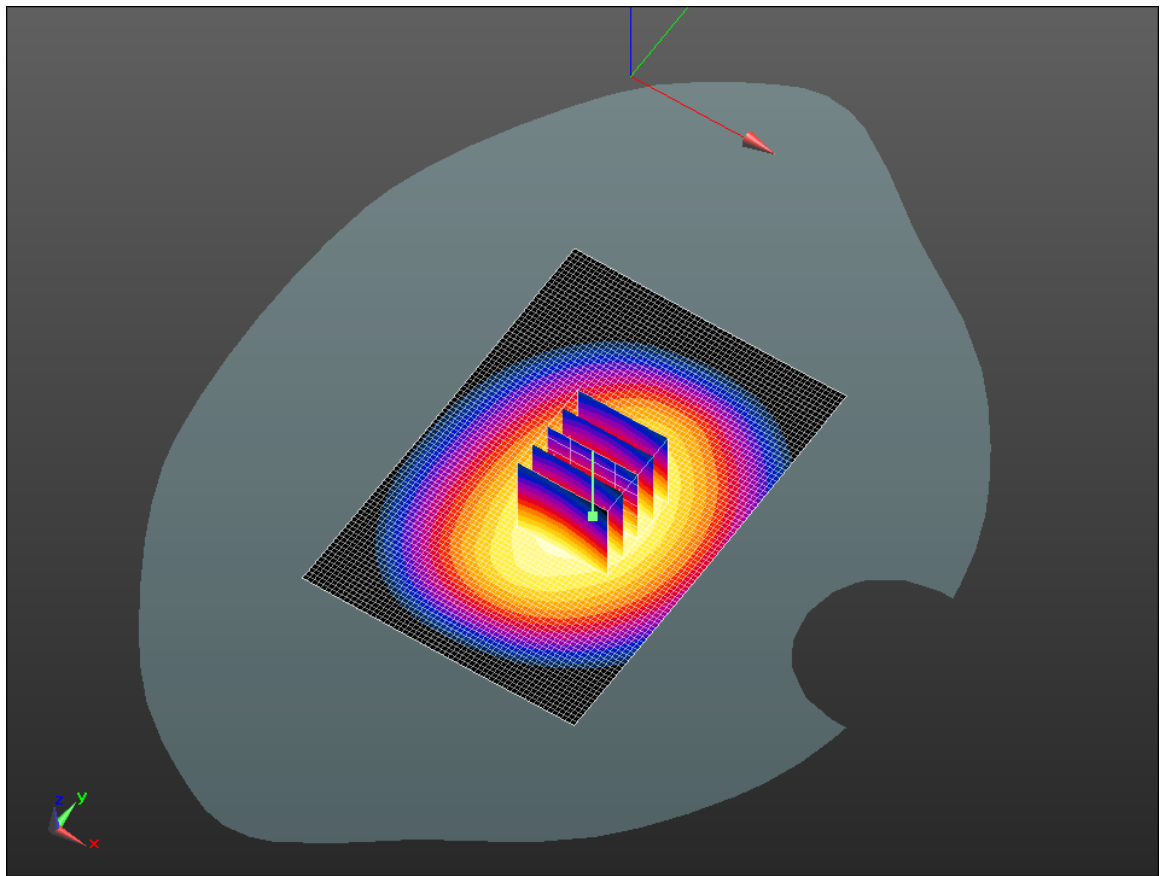
Author Data
Andrew Becker

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0 dB = 0.600mW/g = -4.44 dB mW/g

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Date/Time: 2/27/2012 3:28:31 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_Headset_CDMA850_mid_chan_amb_temp_22.7C
_liq_temp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4

Communication System: CDMA 850; Frequency: 836.52 MHz

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.977$ mho/m; $\epsilon_r = 54.633$;
 $\rho = 1000$ 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 Sn473; Calibrated: 1/13/2012
- 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:
 $dx=15$ mm, $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.679 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x7x7)/Cube 0:

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

Reference Value = 26.028 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.8020

SAR(1 g) = 0.592 mW/g; SAR(10 g) = 0.428 mW/g

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

Maximum value of SAR (measured) = 0.664 mW/g

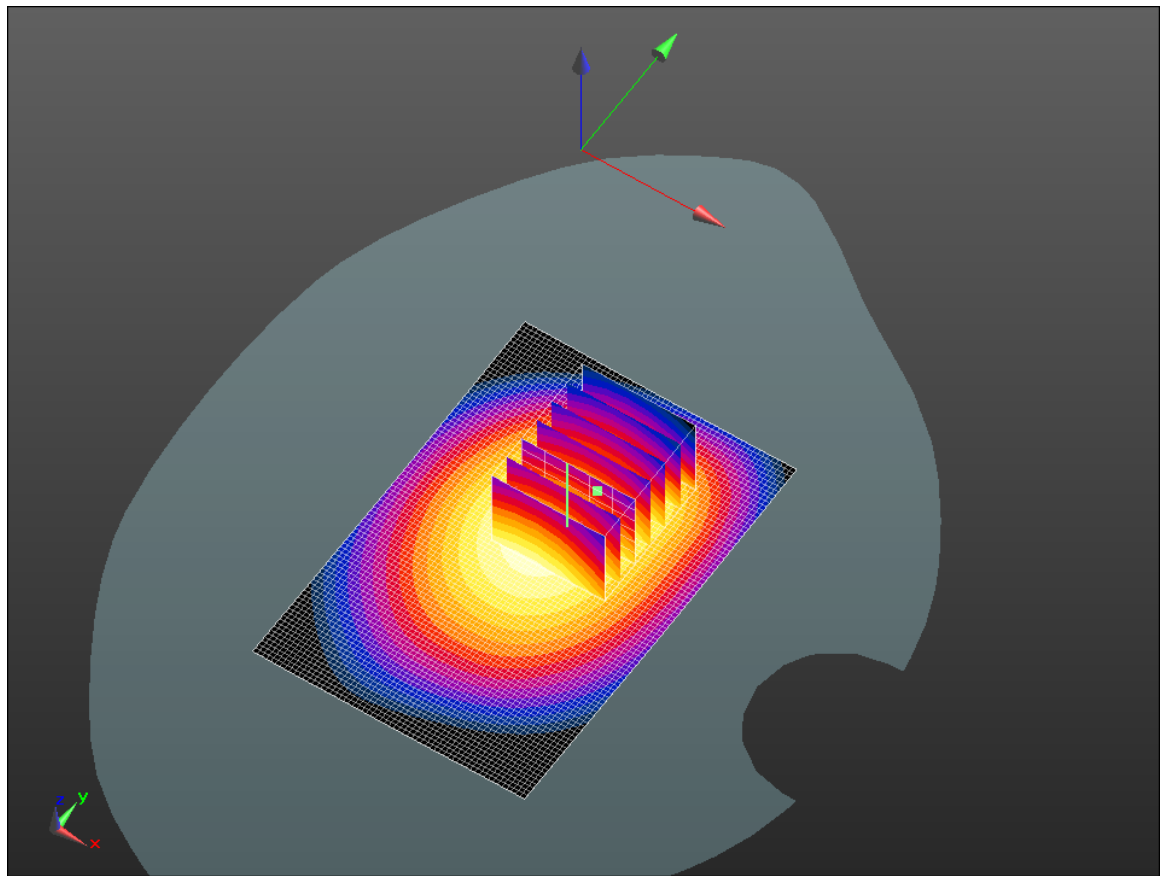
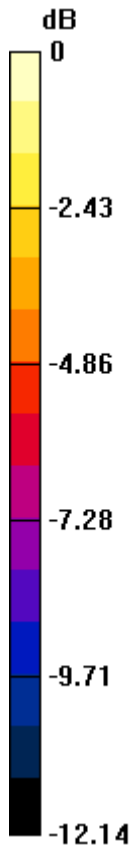
Author Data
Andrew Becker

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0 dB = 0.660mW/g = -3.61 dB mW/g

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Date/Time: 2/28/2012 11:22:31 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_CDMA1900_mid_chan_amb_temp_22.7_liq_temp_20.0C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4

Communication System: CDMA 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.563$ mho/m; $\epsilon_r = 52.857$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- 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:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.521 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 = 10.628 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.6690

SAR(1 g) = 0.423 mW/g; SAR(10 g) = 0.259 mW/g

Maximum value of SAR (measured) = 0.504 mW/g

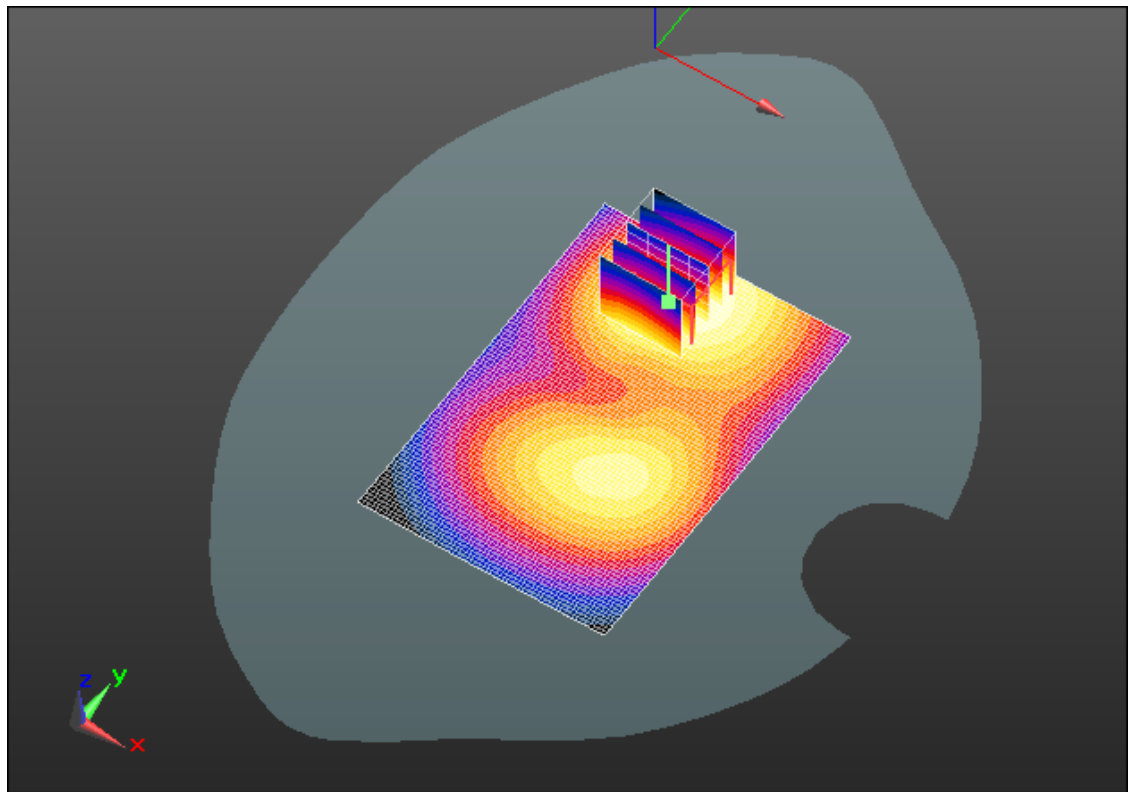
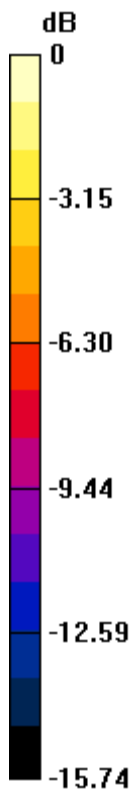
Author Data
Andrew Becker

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0 dB = 0.500mW/g = -6.02 dB mW/g

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Date/Time: 2/28/2012 11:39:39 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_CDMA1900_mid_chan_amb_temp_22.6_liq_temp_20.0C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4

Communication System: CDMA 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.563$ mho/m; $\epsilon_r = 52.857$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- 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:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.454 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 = 11.233 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.5990

SAR(1 g) = 0.376 mW/g; SAR(10 g) = 0.234 mW/g

Maximum value of SAR (measured) = 0.447 mW/g

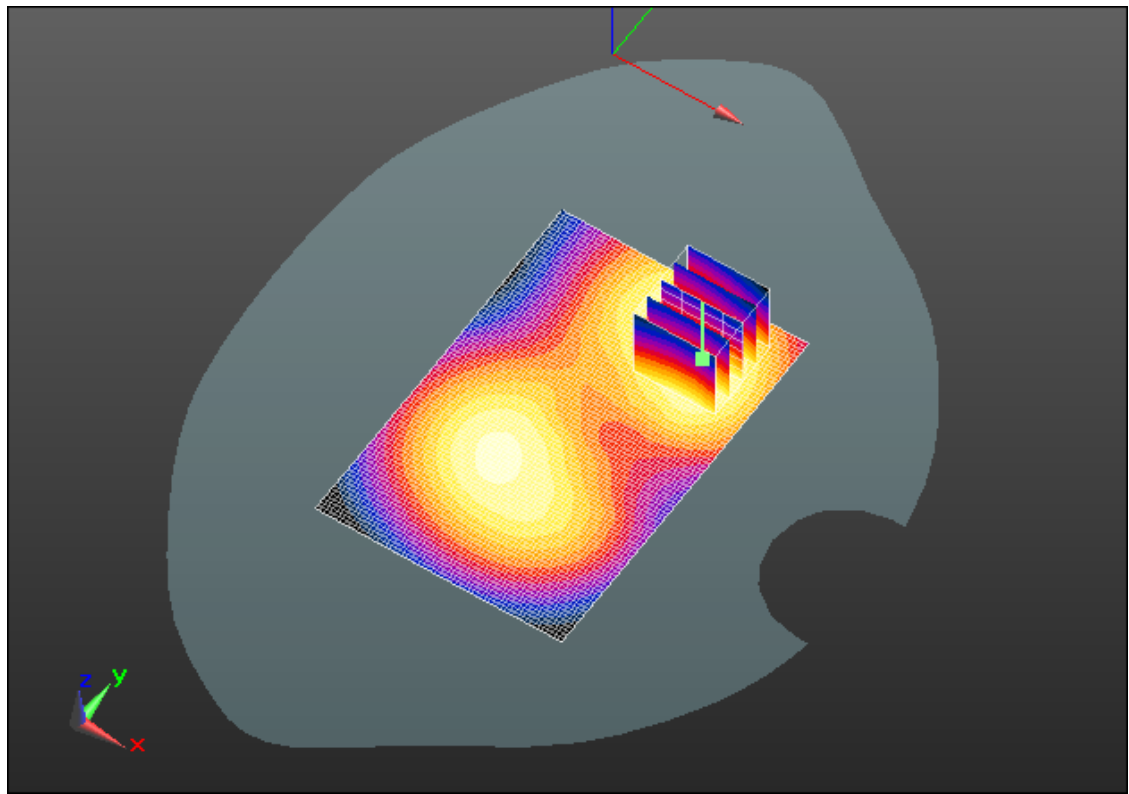
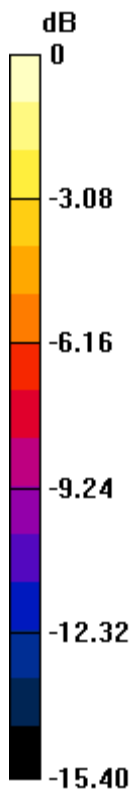
Author Data
Andrew Becker

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0 dB = 0.450mW/g = -6.94 dB mW/g

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Date/Time: 2/29/2012 12:11:18 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_CDMA1900_mid_chan_amb_temp_22.5_liq_tem p_20.0C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4

Communication System: CDMA 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.563$ mho/m; $\epsilon_r = 52.857$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- 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:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.416 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 = 7.236 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.5420

SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.219 mW/g

Maximum value of SAR (measured) = 0.413 mW/g

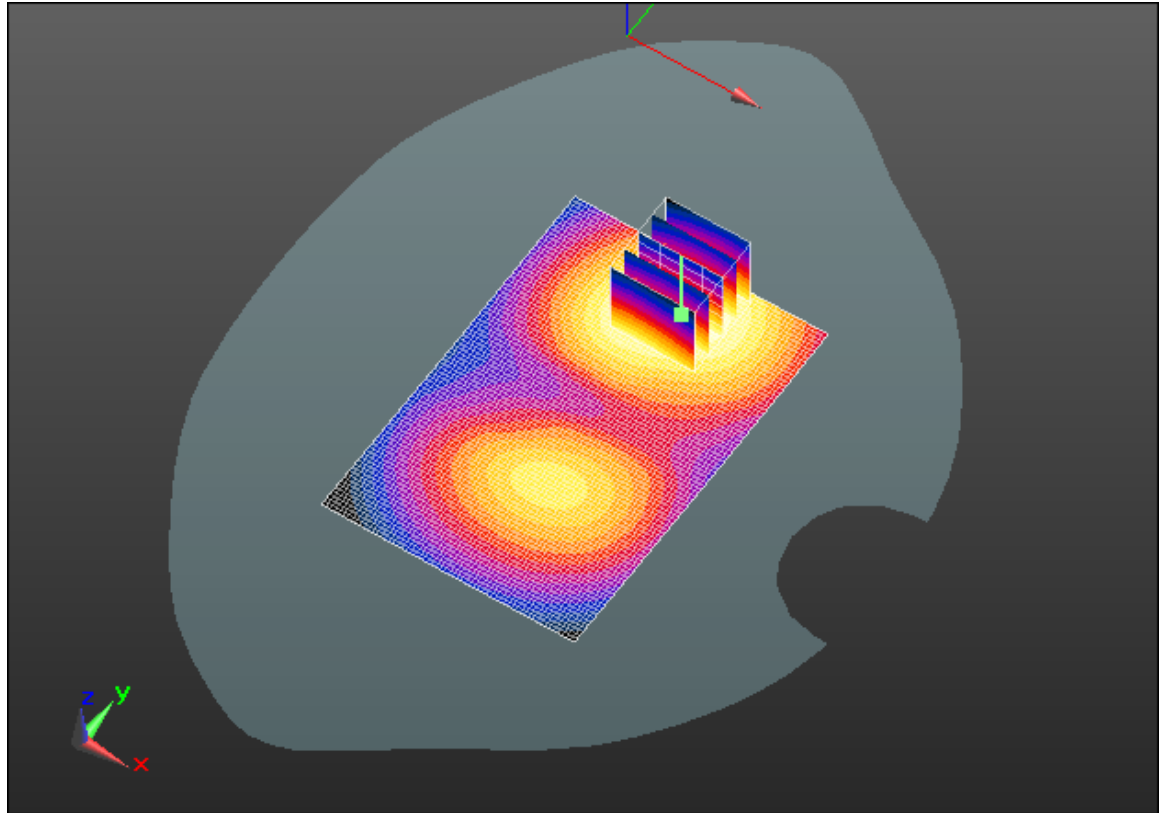
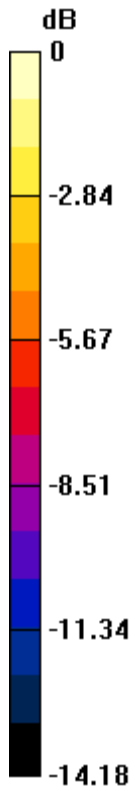
Author Data
Andrew Becker

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0 dB = 0.410mW/g = -7.74 dB mW/g

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Date/Time: 2/29/2012 12:33:10 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Headset_CDMA1900_mid_chan_amb_temp_22.5_liq_temp_20.0C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4

Communication System: CDMA 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.563$ mho/m; $\epsilon_r = 52.857$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- 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:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.450 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 = 8.965 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.5920

SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.223 mW/g

Maximum value of SAR (measured) = 0.442 mW/g

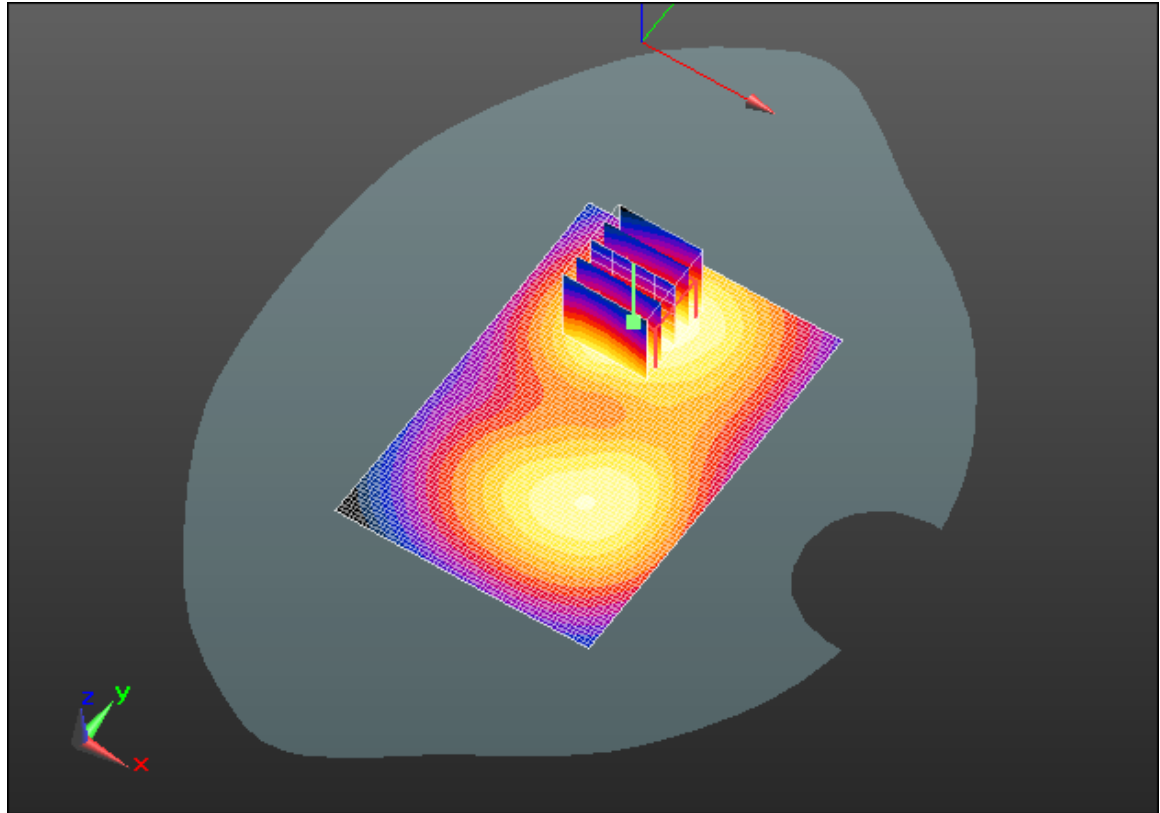
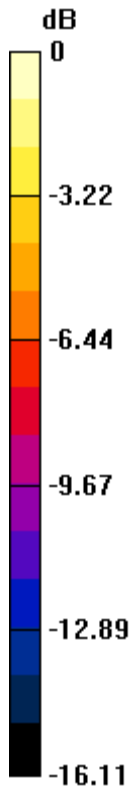
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Andrew Becker

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0 dB = 0.440mW/g = -7.13 dB mW/g

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Date/Time: 2/23/2012 10:58:41 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_802.11b_low_chan_amb_temp_22.4_liq_temp_19.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4

Communication System: 802.11 b (2450); Frequency: 2412 MHz

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.942$ mho/m; $\epsilon_r = 51.369$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); 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:
 $dx=15\text{mm}, dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.092 mW/g

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

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

Reference Value = 2.414 V/m; Power Drift = 1.10 dB

Peak SAR (extrapolated) = 0.1480

SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.047 mW/g

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

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

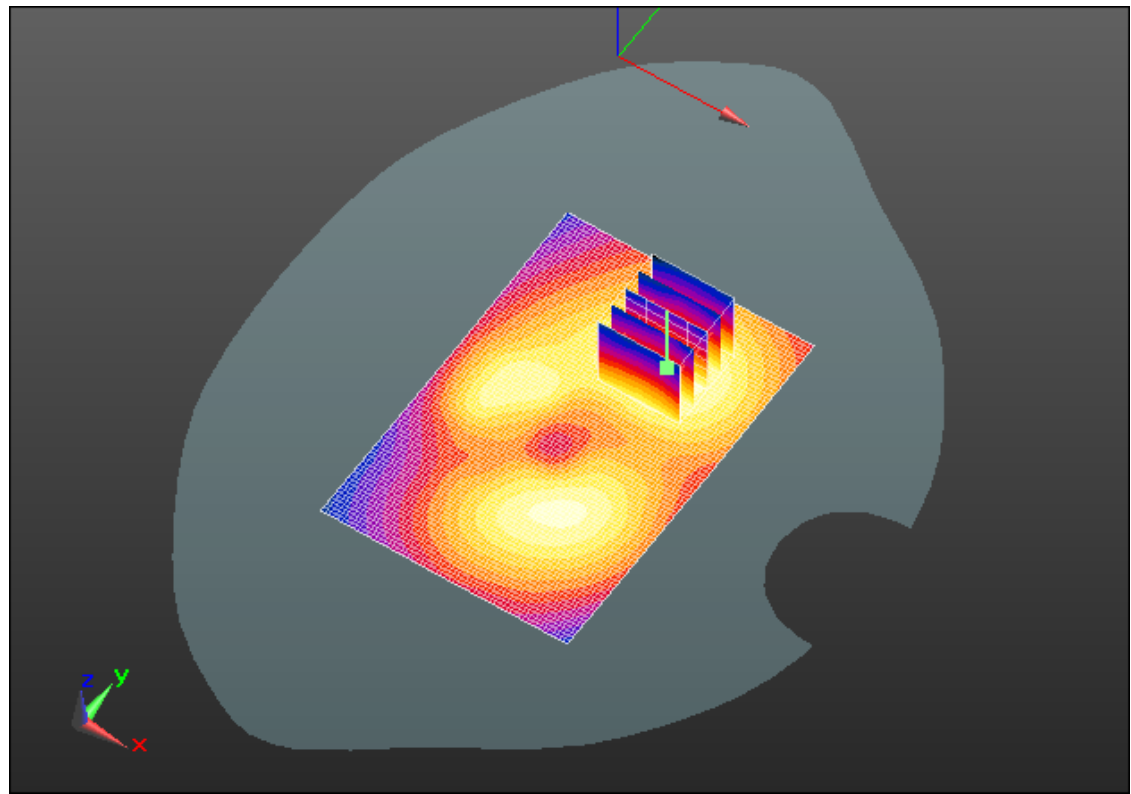
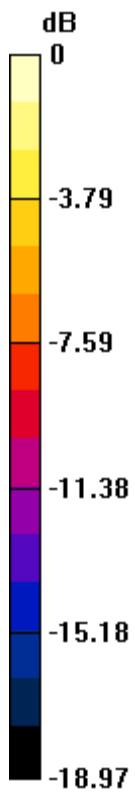
Author Data
Andrew Becker

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0 dB = 0.100mW/g = -20.00 dB mW/g

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Date/Time: 2/23/2012 11:19:56 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_802.11b_mid_chan_amb_temp_22.4_liq_temp_19.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4

Communication System: 802.11 b (2450); Frequency: 2437 MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.978$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); 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:
 $dx=15$ mm, $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.112 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 = 4.480 V/m; Power Drift = -0.22 dB

Peak SAR (extrapolated) = 0.1630

SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.044 mW/g

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

Maximum value of SAR (measured) = 0.105 mW/g

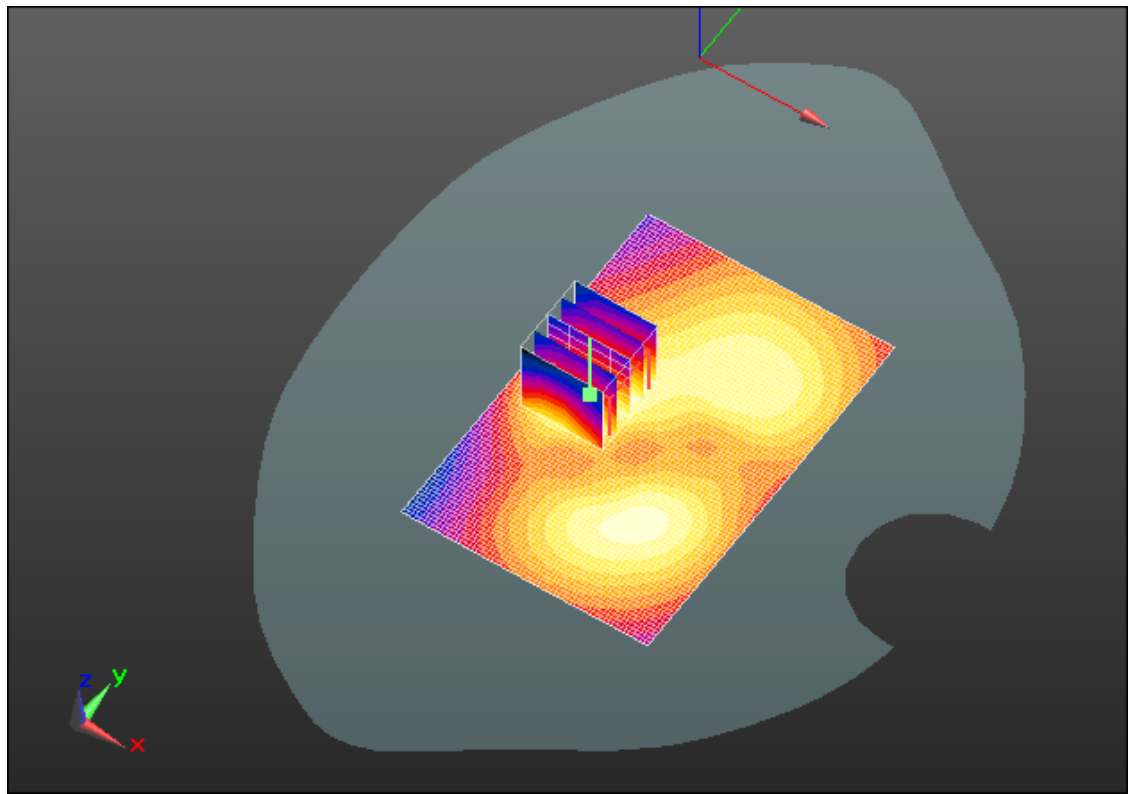
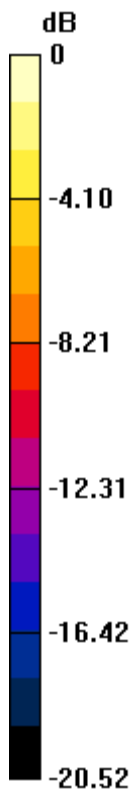
Author Data
Andrew Becker

Dates of Test
February 23 – March 6 , 2012


Test Report No
RTS-5994-1203-47

FCC ID:
L6AREY20CW

IC ID
2503A-REY20CW



0 dB = 0.100mW/g = -20.00 dB mW/g

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Date/Time: 2/23/2012 11:37:49 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_802.11b_high_chan_amb_temp_22.4_liq_temp_19
.9C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 2.011$ mho/m; $\epsilon_r = 51.221$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); 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) = 0.161 mW/g

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

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

Reference Value = 5.301 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.2260

SAR(1 g) = 0.116 mW/g; SAR(10 g) = 0.061 mW/g

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

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

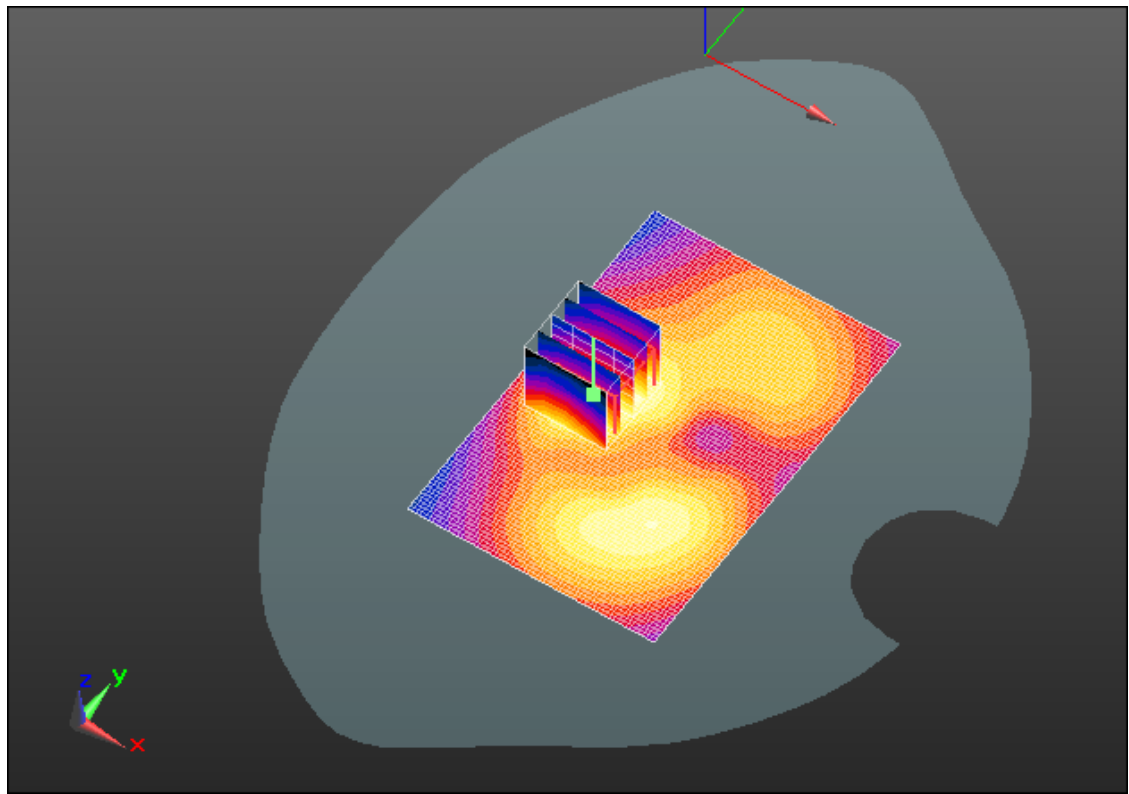
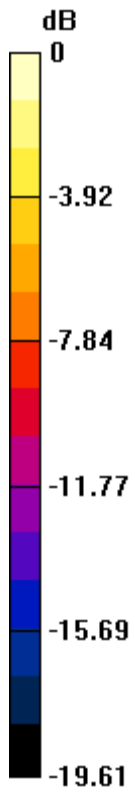
Author Data
Andrew Becker

Dates of Test
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Test Report No
RTS-5994-1203-47

FCC ID:
L6AREY20CW

IC ID
2503A-REY20CW



0 dB = 0.140mW/g = -17.08 dB mW/g

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Date/Time: 2/24/2012 2:44:21 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: 297DF9E4

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.928$ mho/m; $\epsilon_r = 54.574$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- 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) = 0.030 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

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

Reference Value = 1.417 V/m; Power Drift = 0.42 dB

Peak SAR (extrapolated) = 0.0360

SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.010 mW/g

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

Maximum value of SAR (measured) = 0.024 mW/g

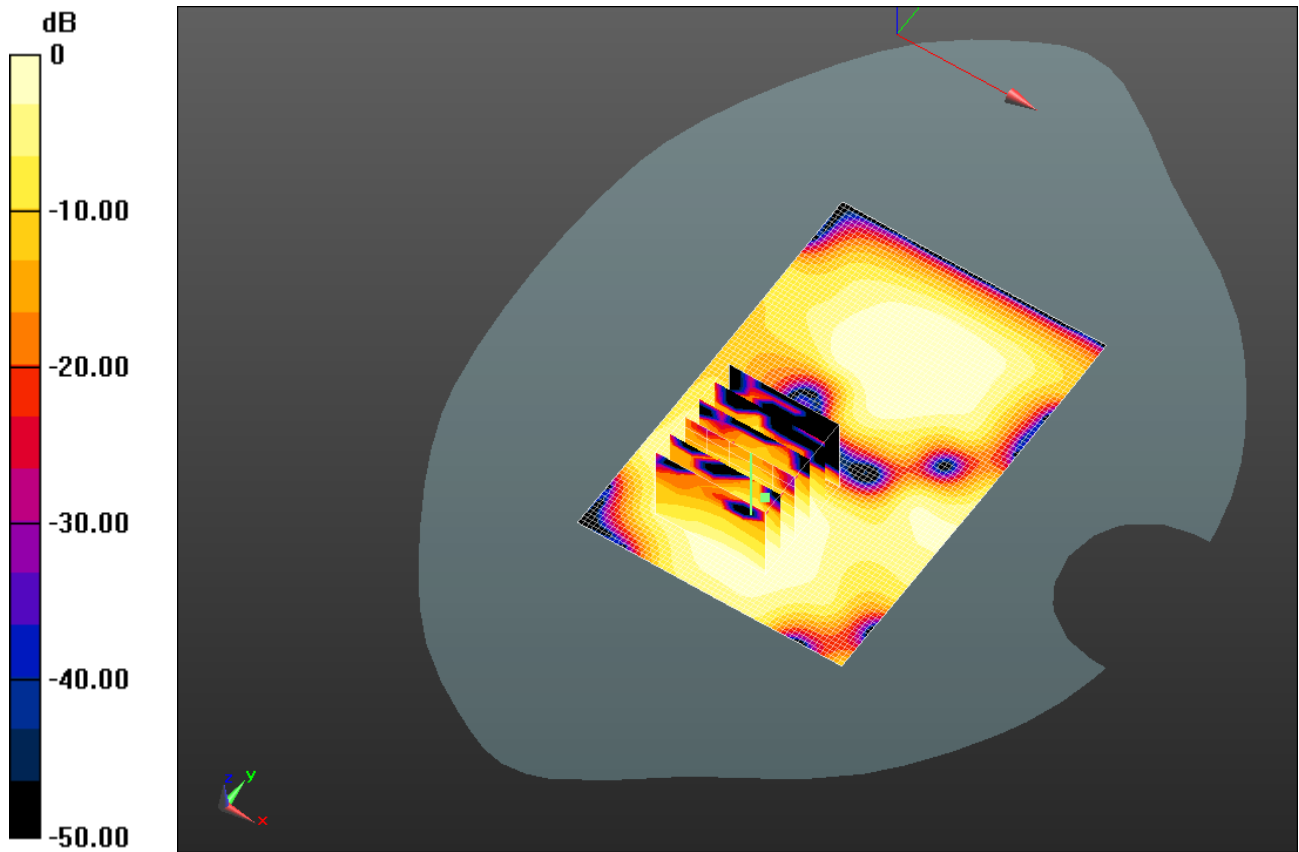
Author Data
Andrew Becker

Dates of Test
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Test Report No
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IC ID
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0 dB = 0.020mW/g = -33.98 dB mW/g

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Date/Time: 2/24/2012 12:20:01 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_802.11b_high_chan_amb_temp_23.1_liq_temp_2 2.0C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.928$ mho/m; $\epsilon_r = 54.574$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- 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) = 0.142 mW/g

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

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

Reference Value = 6.921 V/m; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 0.2180

SAR(1 g) = 0.112 mW/g; SAR(10 g) = 0.062 mW/g

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

Maximum value of SAR (measured) = 0.137 mW/g

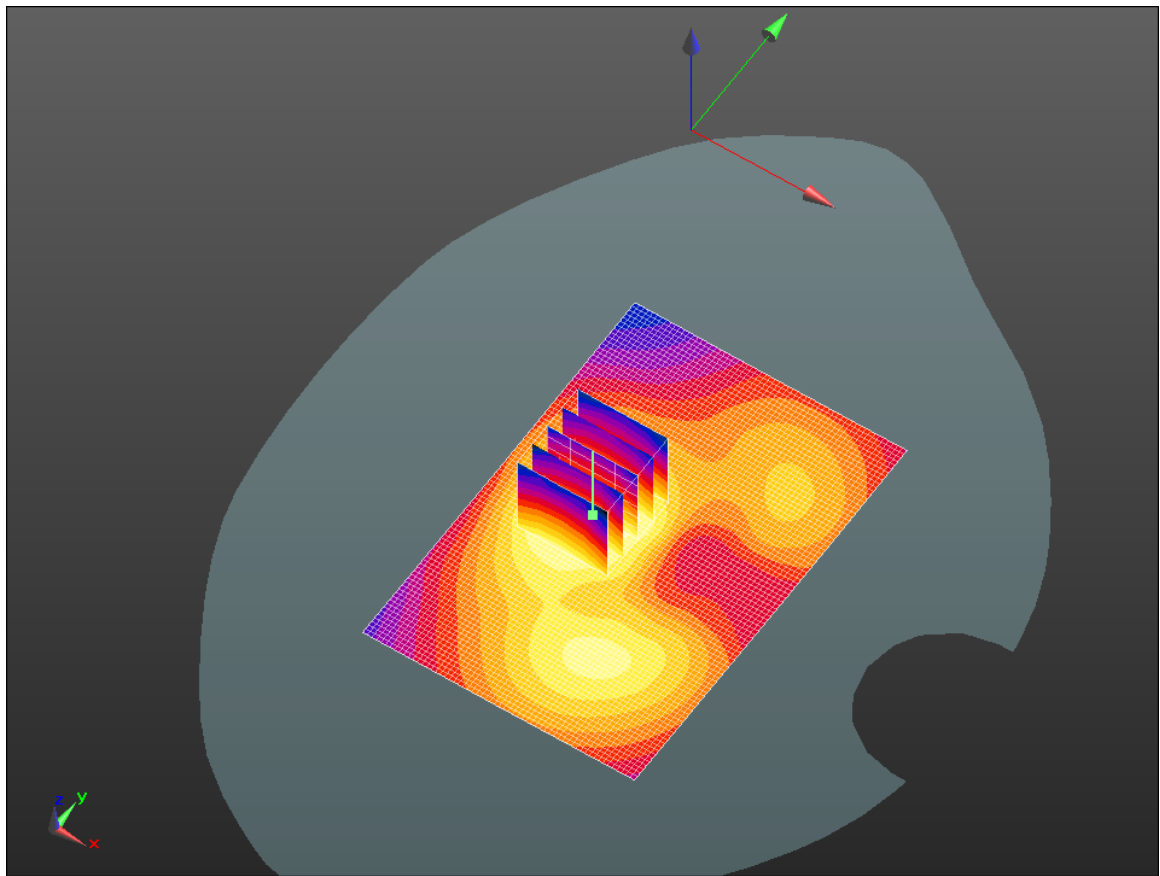
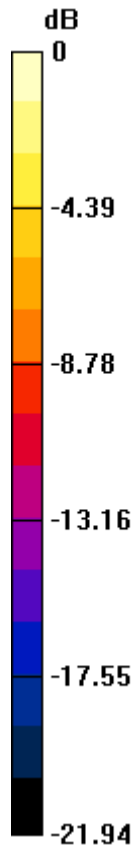
Author Data
Andrew Becker

Dates of Test
February 23 – March 6 , 2012


Test Report No
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FCC ID:
L6AREY20CW

IC ID
2503A-REY20CW



0 dB = 0.140mW/g = -17.08 dB mW/g

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	Author Data Andrew Becker	Dates of Test February 23 – March 6 , 2012	Test Report No RTS-5994-1203-47	FCC ID: L6AREY20CW

Date/Time: 2/24/2012 11:57:38 AM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_Headset_802.11b_high_chan_amb_temp_23.3_liq
_temp_22.0C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.928$ mho/m; $\epsilon_r = 54.574$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- 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) = 0.110 mW/g

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

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

Reference Value = 4.967 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.1790

SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.049 mW/g

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

Maximum value of SAR (measured) = 0.111 mW/g

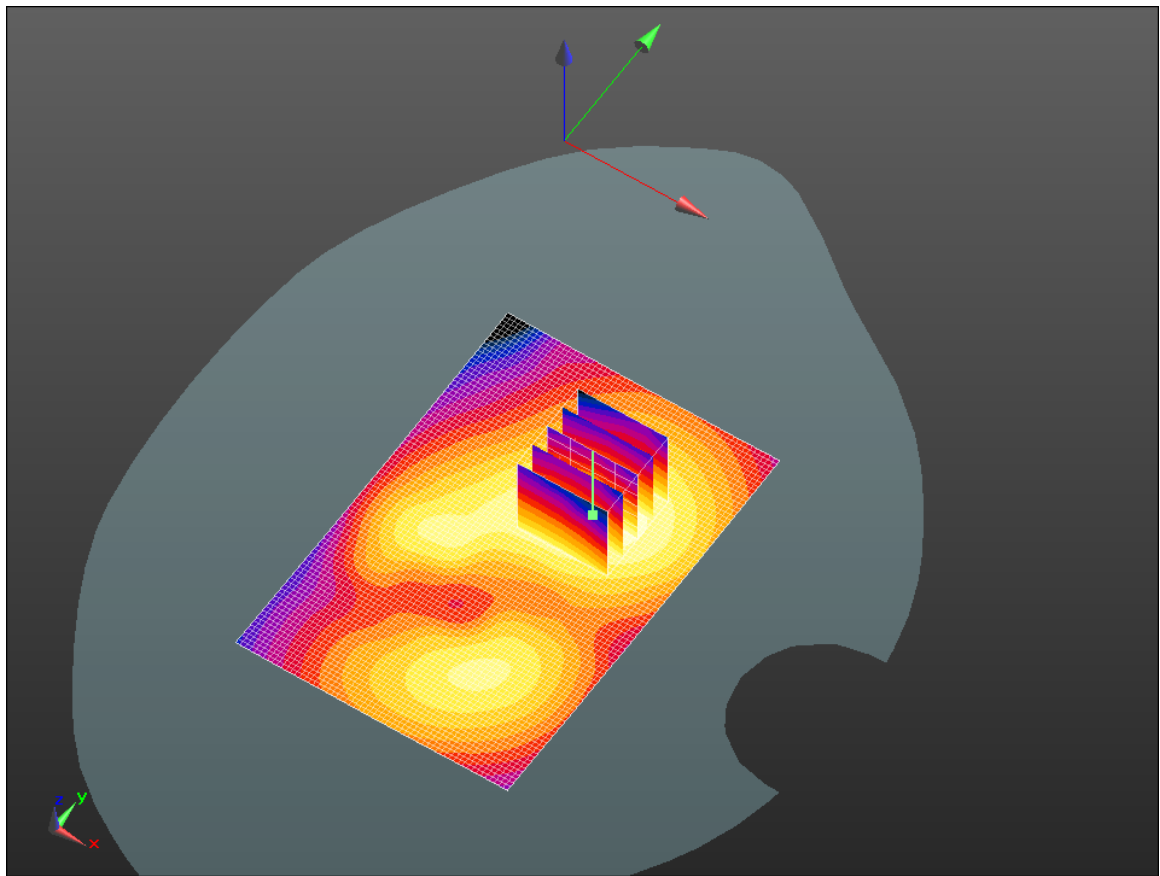
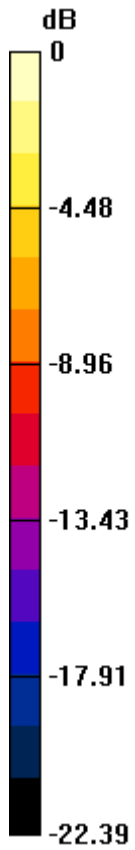
Author Data
Andrew Becker

Dates of Test
February 23 – March 6 , 2012

Test Report No
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FCC ID:
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IC ID
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0 dB = 0.110mW/g = -19.17 dB mW/g

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Axis plot for the worst case body configuration

