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**APPENDIX C2: SAR DISTRIBUTION PLOTS FOR MOBILE HOT SPOT**

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Date/Time: 7/25/2012 4:01:10 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_GPRS850\_low\_chan\_amb\_temp\_23.7C\_liq\_  
temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: GPRS 850; Frequency: 824.2 MHz

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.955$  mho/m;  $\epsilon_r = 53.808$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 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) = 1.206 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 = 34.267 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.4490

**SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.775 mW/g**

Maximum value of SAR (measured) = 1.209 mW/g

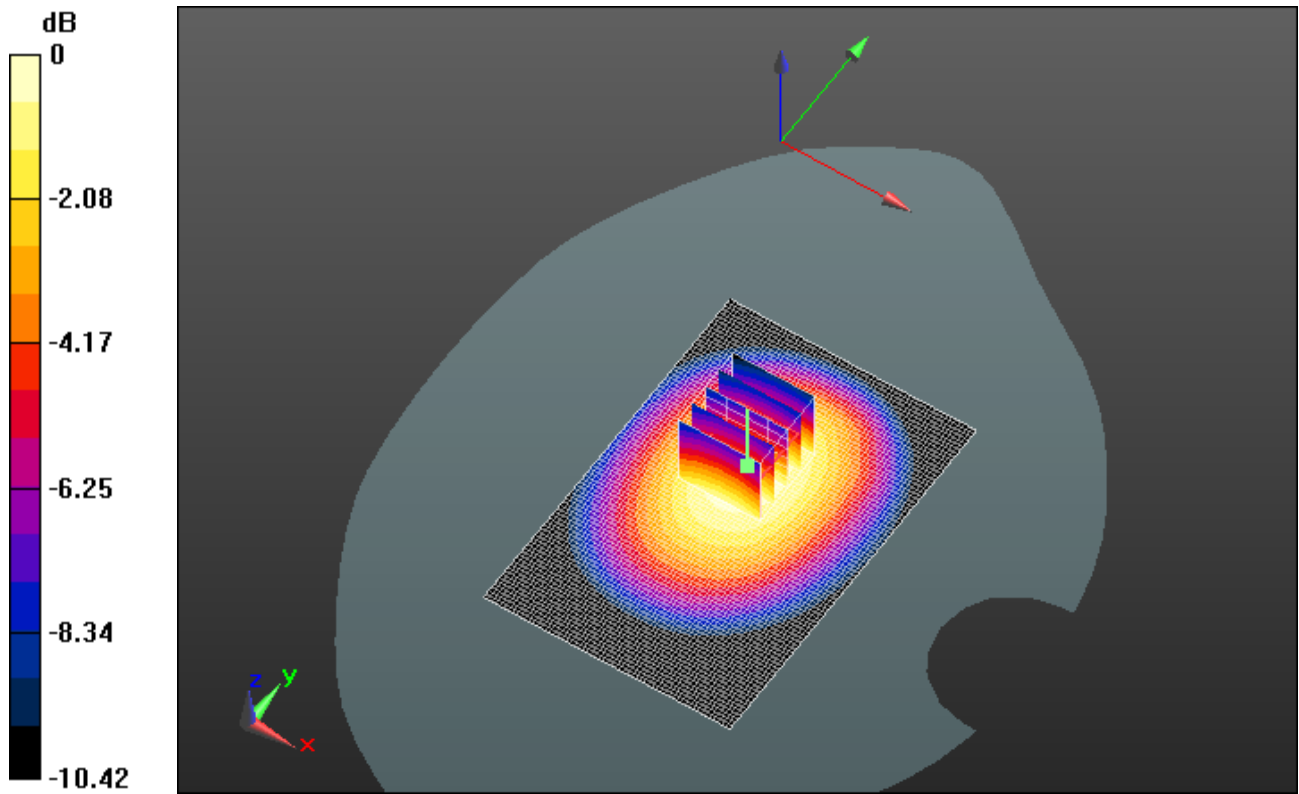
Author Data  
**Andrew Becker**

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**2503A-RFE70UW**



0 dB = 1.210mW/g = 1.66 dB mW/g

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Date/Time: 7/25/2012 3:41:16 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_GPRS850\_mid\_chan\_amb\_temp\_23.7C\_liq  
\_temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.978$  mho/m;  $\epsilon_r = 53.784$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 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) = 1.393 mW/g


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

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

Reference Value = 36.522 V/m; Power Drift = 0.02 dB

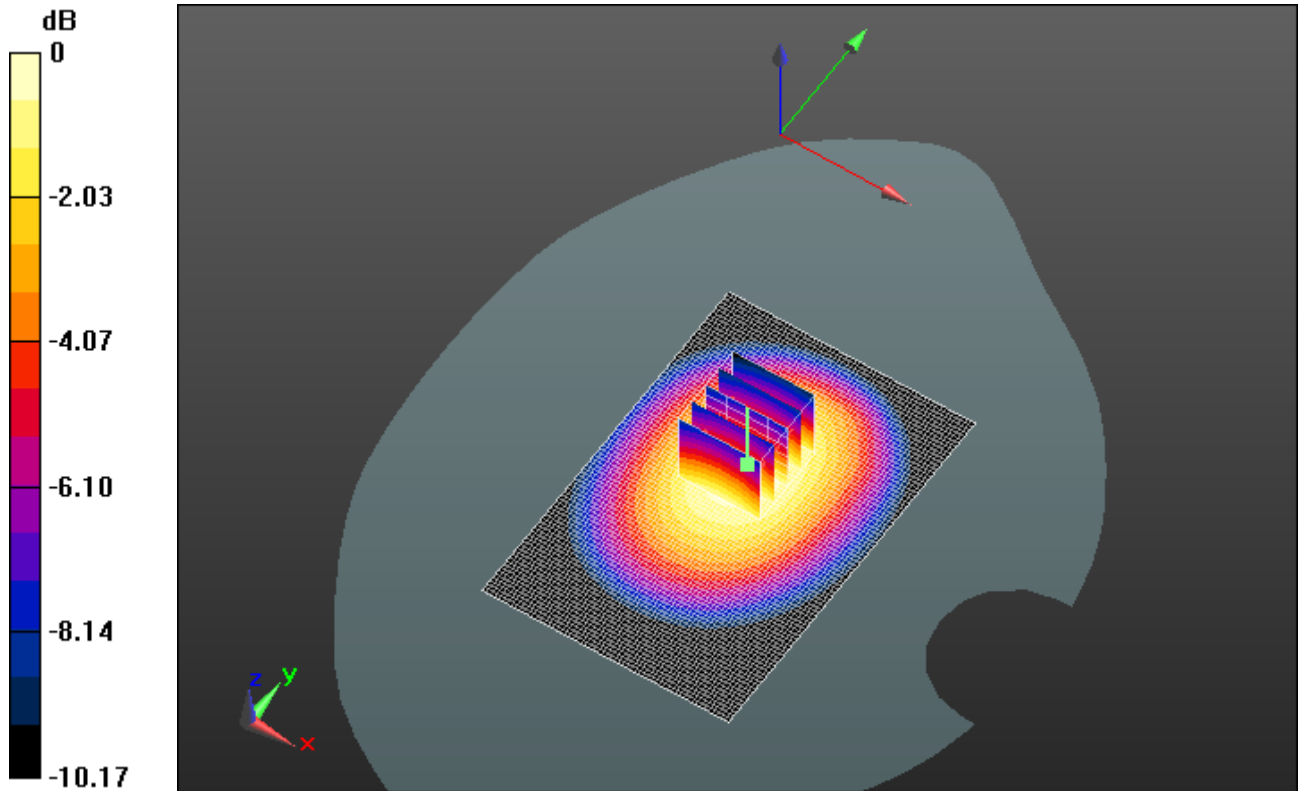
Peak SAR (extrapolated) = 1.6470

**SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.885 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.385 mW/g



0 dB = 1.380mW/g = 2.80 dB mW/g

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Date/Time: 7/25/2012 4:20:36 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_GPRS850\_high\_chan\_amb\_temp\_23.7C\_liq  
\_temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: GPRS 850; Frequency: 848.8 MHz

Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 1.002$  mho/m;  $\epsilon_r = 53.721$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 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) = 1.542 mW/g


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

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

Reference Value = 37.978 V/m; Power Drift = -0.14 dB

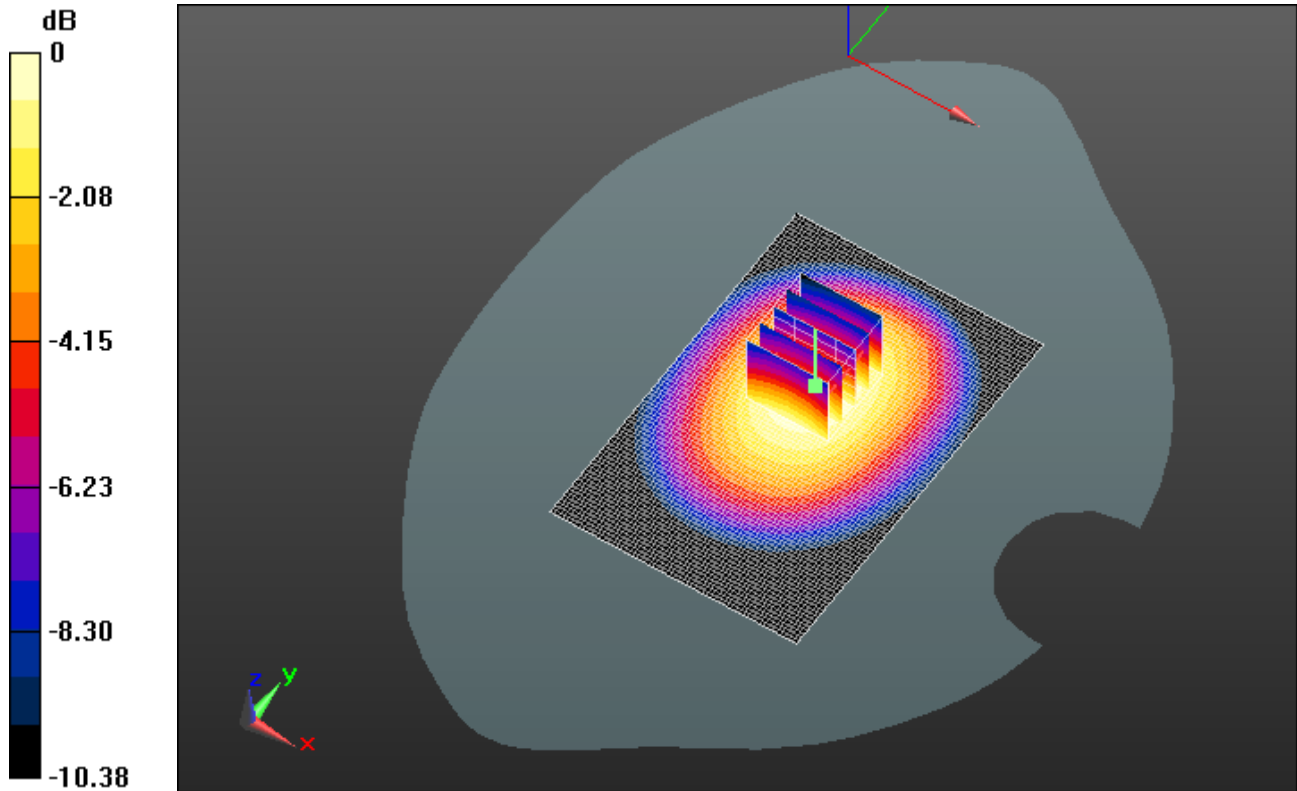
Peak SAR (extrapolated) = 1.7820

**SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.954 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.491 mW/g



0 dB = 1.490mW/g = 3.46 dB mW/g

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Date/Time: 7/25/2012 4:50:48 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Front\_GPRS850\_mid\_chan\_amb\_temp\_23.2C\_liq  
\_temp\_22.7C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.978$  mho/m;  $\epsilon_r = 53.784$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 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) = 0.700 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 = 25.839 V/m; Power Drift = 0.0071 dB

Peak SAR (extrapolated) = 0.8250

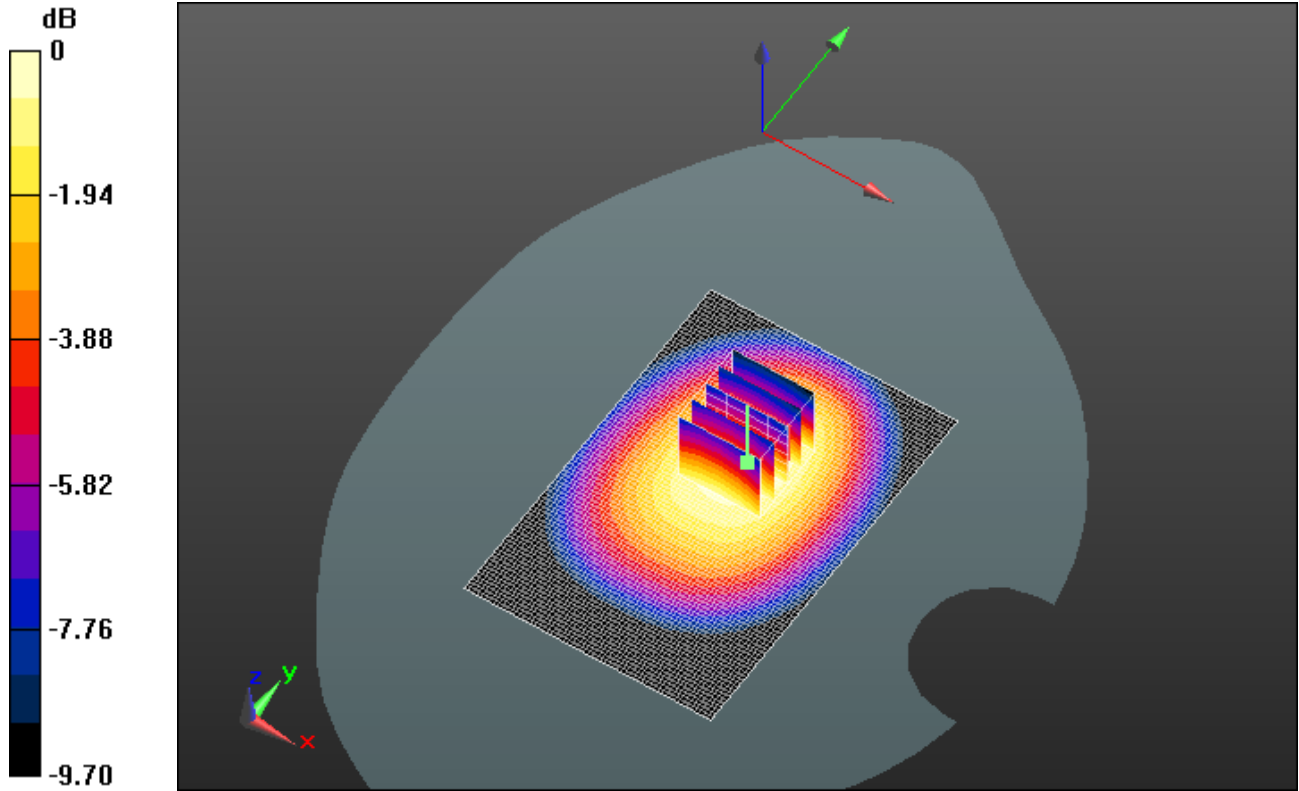
**SAR(1 g) = 0.627 mW/g; SAR(10 g) = 0.459 mW/g**




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Info: Interpolated medium parameters used for SAR evaluation.

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



0 dB = 0.700mW/g = -3.10 dB mW/g

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Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Right\_GPRS850\_low\_chan\_amb\_temp\_23.7C\_liq  
\_temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A41842F**

Communication System: GPRS 850; Frequency: 824.2 MHz

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.955$  mho/m;  $\epsilon_r = 53.808$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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),  $z = 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Reference Value = 28.220 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.9740

**SAR(1 g) = 0.700 mW/g; SAR(10 g) = 0.487 mW/g**

Maximum value of SAR (measured) = 0.796 mW/g

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:

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

Maximum value of SAR (interpolated) = 0.794 mW/g

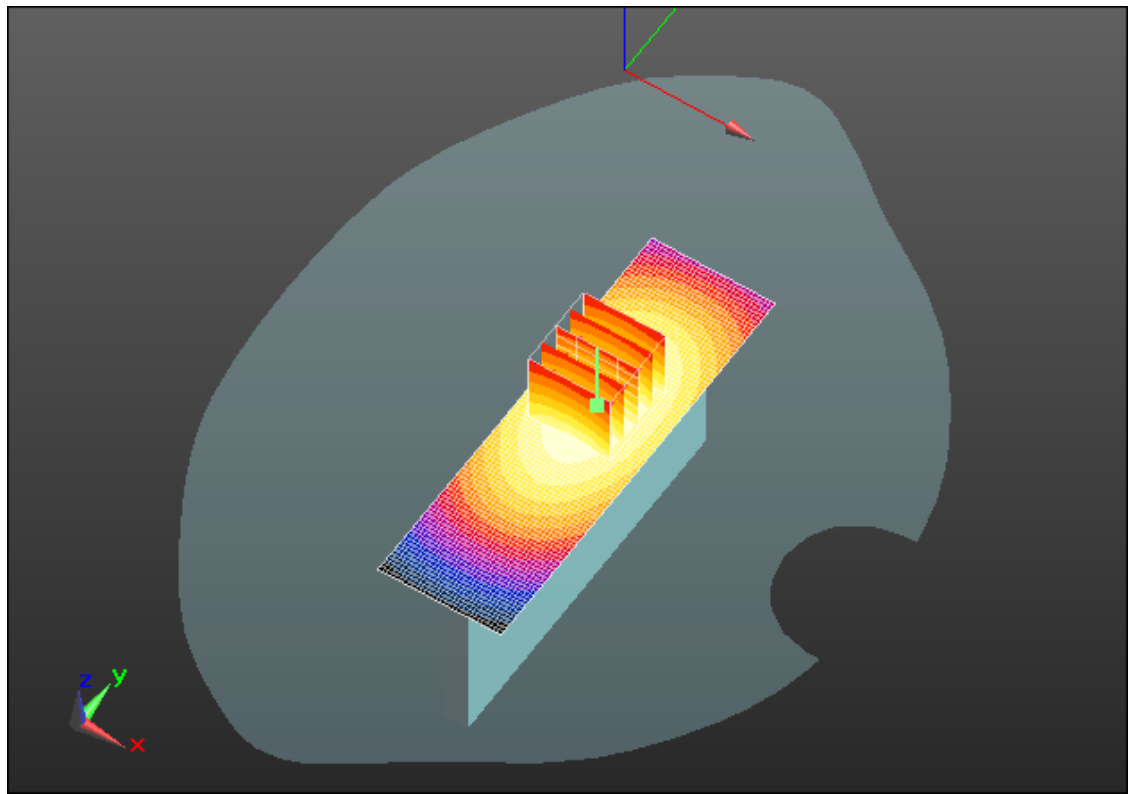
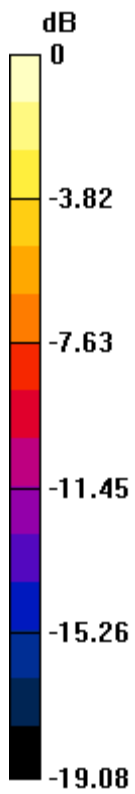
Author Data  
**Andrew Becker**

Dates of Test  
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IC ID  
**2503A-RFE70UW**



0 dB = 0.790mW/g = -2.05 dB mW/g

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Date/Time: 7/25/2012 12:41:43 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Right\_GPRS850\_mid\_chan\_amb\_temp\_23.7C\_liq  
\_temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A41842F**

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.978$  mho/m;  $\epsilon_r = 53.784$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:  
dx=15mm, dy=15mm

**Info: Interpolated medium parameters used for SAR evaluation.**

Maximum value of SAR (interpolated) = 0.907 mW/g


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

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

Reference Value = 30.196 V/m; Power Drift = 0.03 dB

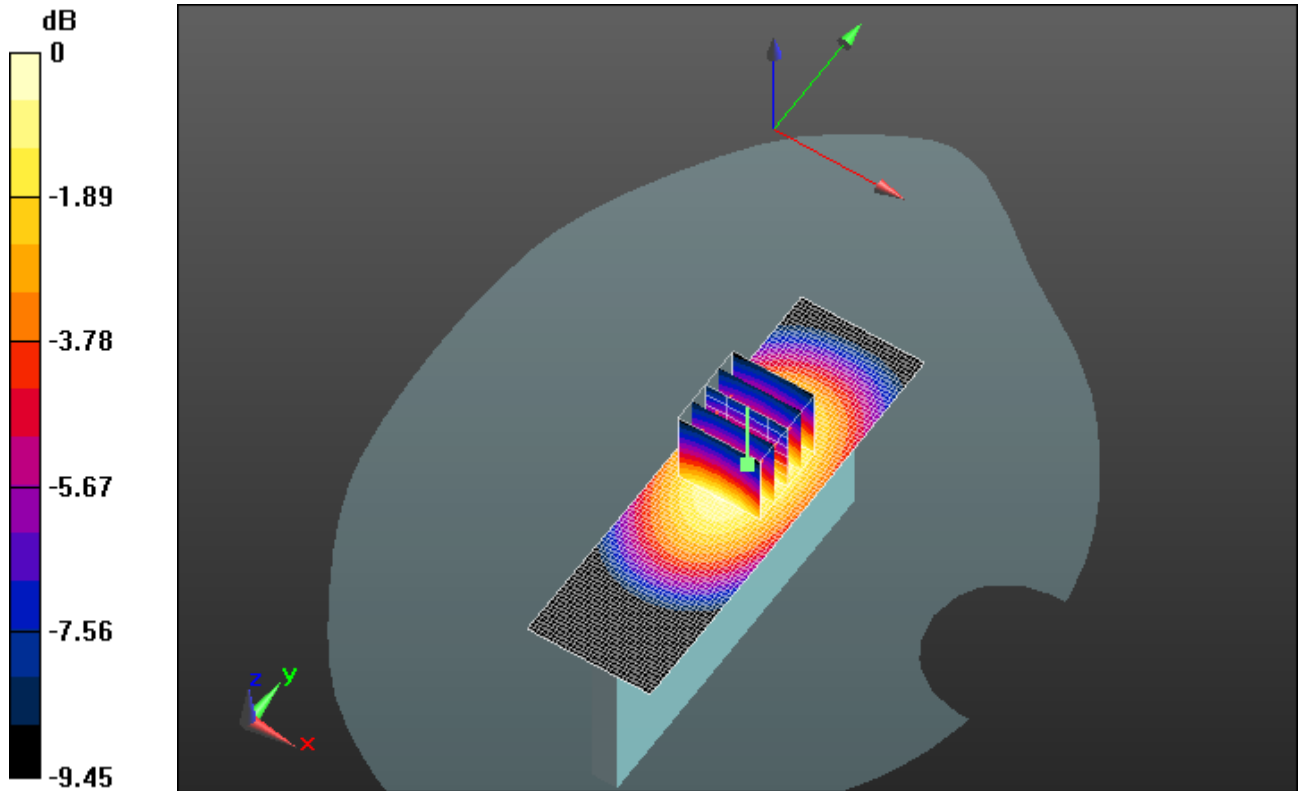
Peak SAR (extrapolated) = 1.1230

**SAR(1 g) = 0.802 mW/g; SAR(10 g) = 0.555 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.920 mW/g



0 dB = 0.920mW/g = -0.72 dB mW/g

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Date/Time: 7/25/2012 1:28:43 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Right\_GPRS850\_high\_chan\_amb\_temp\_23.7C\_liq  
\_temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A41842F**

Communication System: GPRS 850; Frequency: 848.8 MHz

Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 1.002$  mho/m;  $\epsilon_r = 53.721$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:  
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.923 mW/g


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

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

Reference Value = 30.100 V/m; Power Drift = 0.02 dB

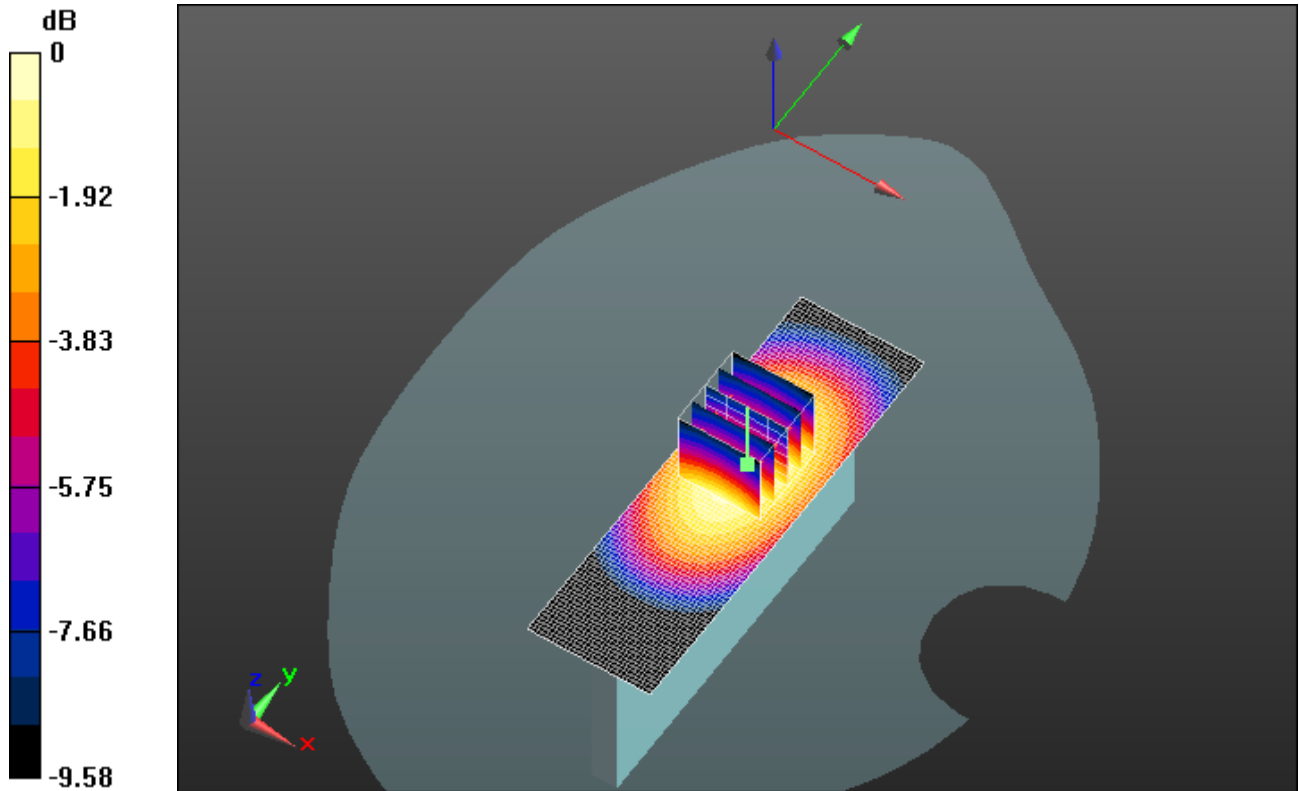
Peak SAR (extrapolated) = 1.1420

**SAR(1 g) = 0.811 mW/g; SAR(10 g) = 0.560 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.929 mW/g



0 dB = 0.930mW/g = -0.63 dB mW/g

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Date/Time: 7/25/2012 2:58:25 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Left\_GPRS850\_mid\_chan\_amb\_temp\_23.1C\_liq\_t  
emp\_22.7C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A41842F**

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.978$  mho/m;  $\epsilon_r = 53.784$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.695 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 = 27.415 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.8860

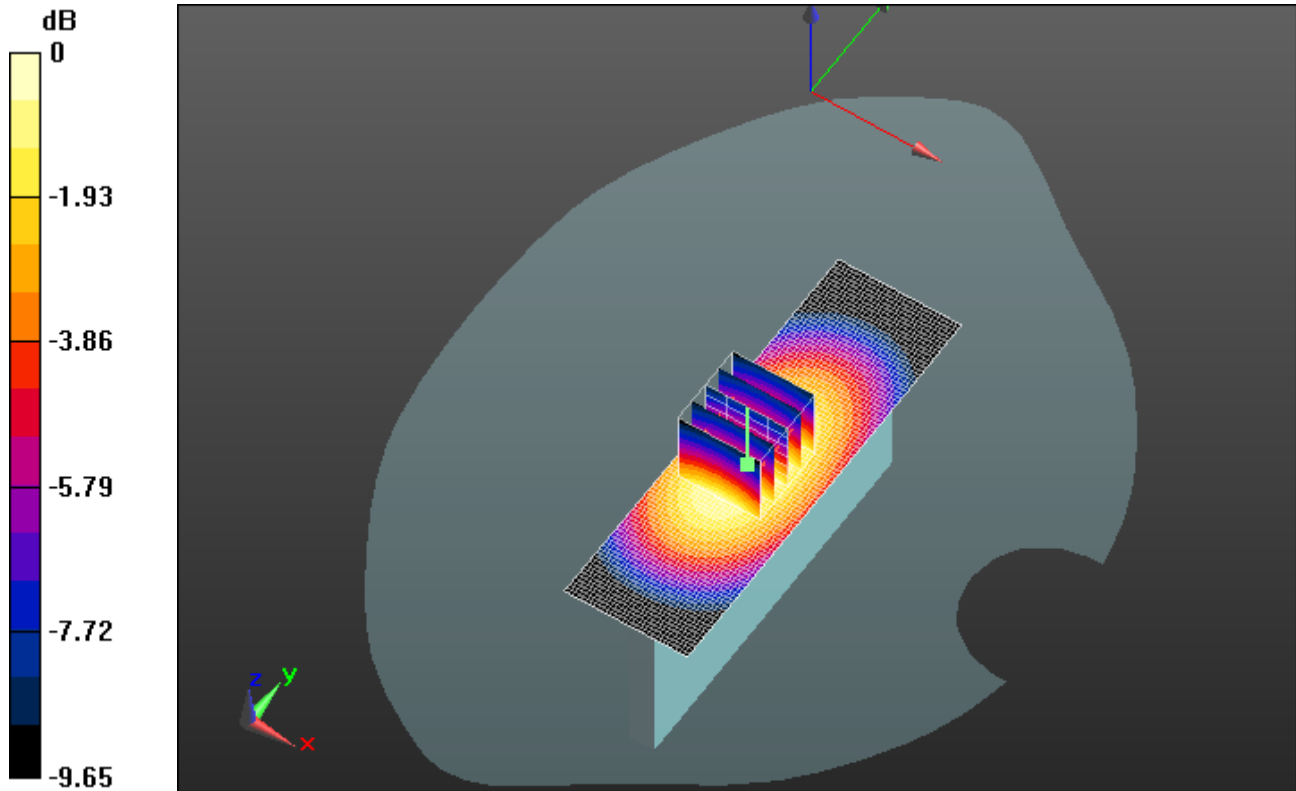
**SAR(1 g) = 0.628 mW/g; SAR(10 g) = 0.430 mW/g**




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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.724 mW/g



0 dB = 0.720mW/g = -2.85 dB mW/g

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Date/Time: 7/25/2012 3:18:43 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Bottom\_GPRS850\_mid\_chan\_amb\_temp\_23.4\_liq  
\_temp\_22.7C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.978$  mho/m;  $\epsilon_r = 53.784$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (41x61x1):** Measurement grid:  
dx=15mm, dy=15mm

**Info: Interpolated medium parameters used for SAR evaluation.**

Maximum value of SAR (interpolated) = 0.063 mW/g


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

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

Reference Value = 7.386 V/m; Power Drift = -0.09 dB

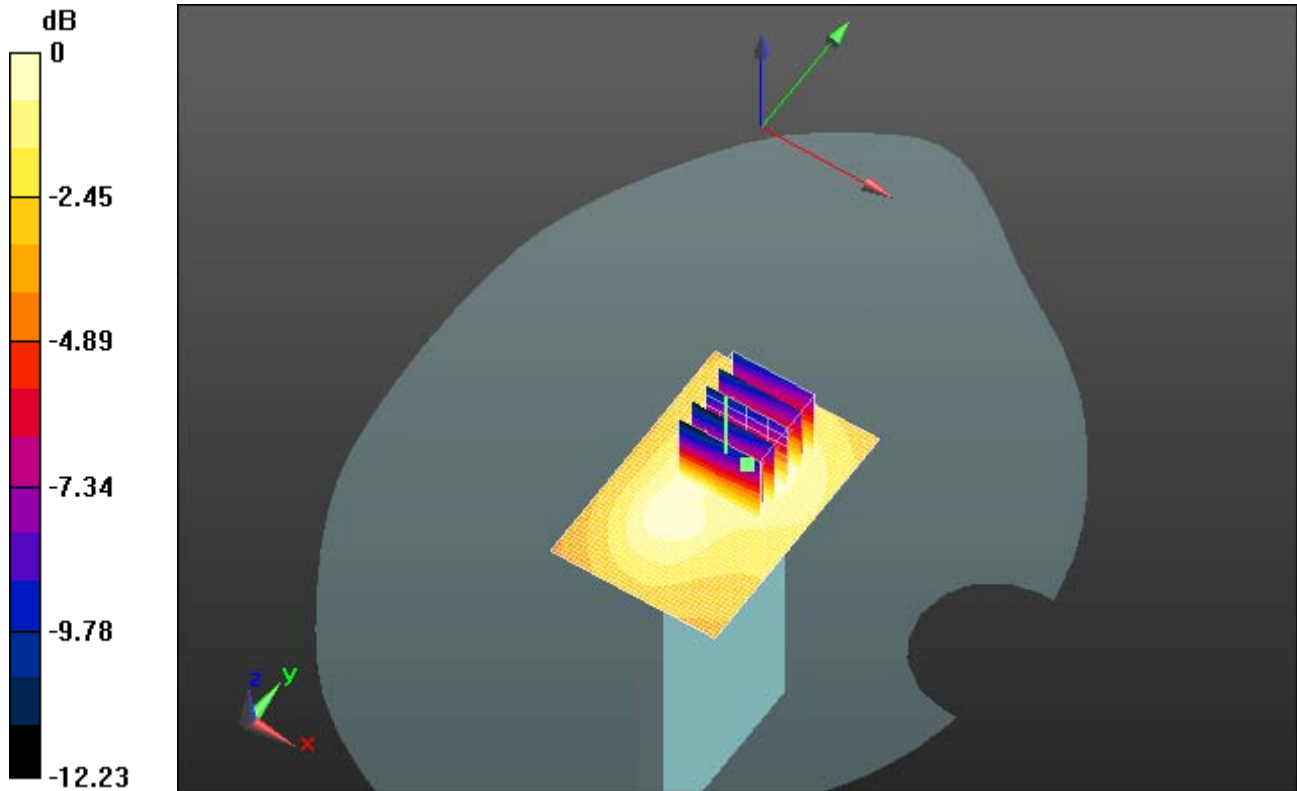
Peak SAR (extrapolated) = 0.0920

**SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.034 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.063 mW/g



0 dB = 0.060mW/g = -24.44 dB mW/g

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Date/Time: 7/12/2012 11:39:00 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_UMTS\_Band\_V\_low\_chan\_amb\_temp\_23.2  
C\_liq\_temp\_22.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz  
 Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.959$  mho/m;  $\epsilon_r = 52.732$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 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
- DASYS 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) = 1.129 mW/g


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

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

Reference Value = 31.057 V/m; Power Drift = 0.0068 dB

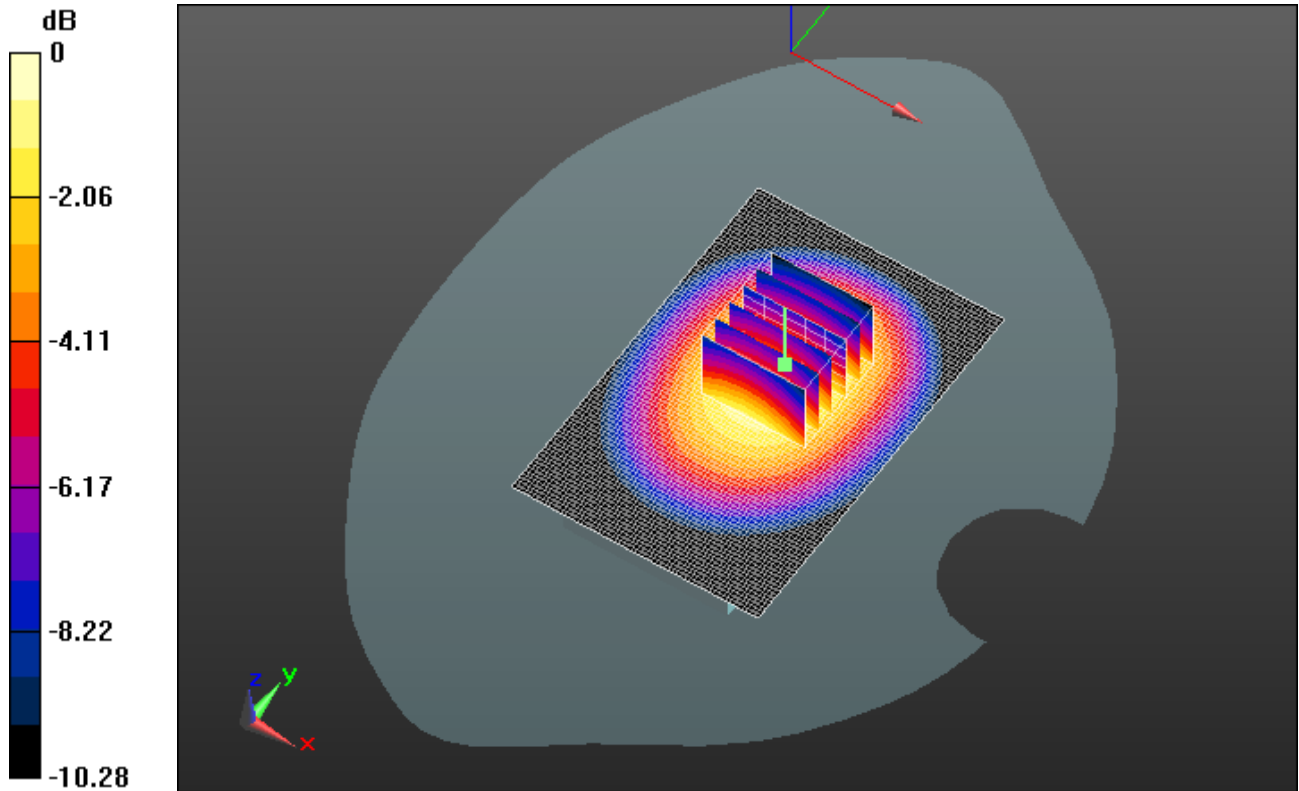
Peak SAR (extrapolated) = 1.3250

**SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.727 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.130 mW/g



0 dB = 1.130mW/g = 1.06 dB mW/g

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Date/Time: 7/12/2012 11:18:06 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_UMTS\_Band\_V\_mid\_chan\_amb\_temp\_23.0  
C\_liq\_temp\_22.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz  
 Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 52.679$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 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
- DASYS 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) = 1.327 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 = 33.900 V/m; Power Drift = -0.02 dB

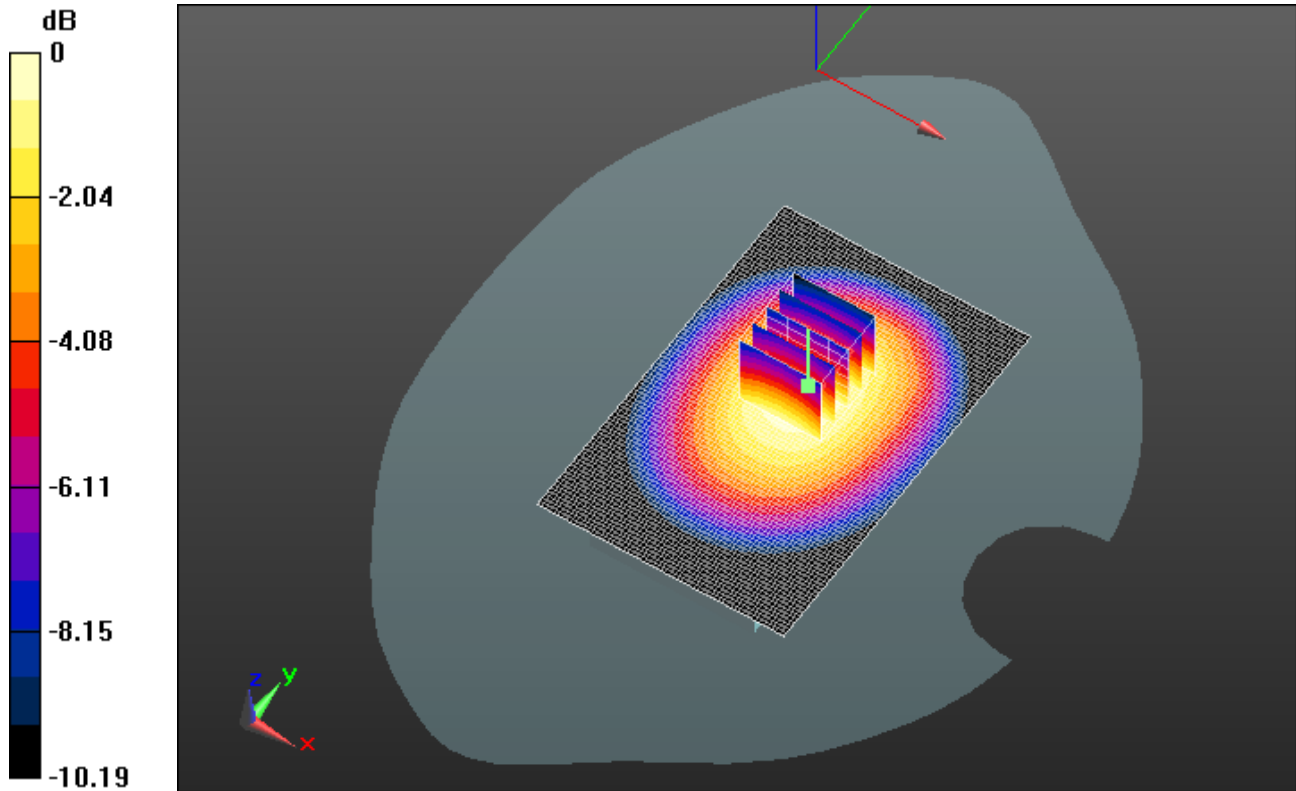
Peak SAR (extrapolated) = 1.5490

**SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.848 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.325 mW/g



0 dB = 1.320mW/g = 2.41 dB mW/g

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Date/Time: 7/12/2012 11:59:33 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_UMTS\_Band\_V\_high\_chan\_amb\_temp\_23.0  
C\_liq\_temp\_22.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: WCDMA FDD V; Frequency: 846.6 MHz  
 Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.981$  mho/m;  $\epsilon_r = 52.564$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 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
- DASYS 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) = 1.357 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 = 34.060 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.5980

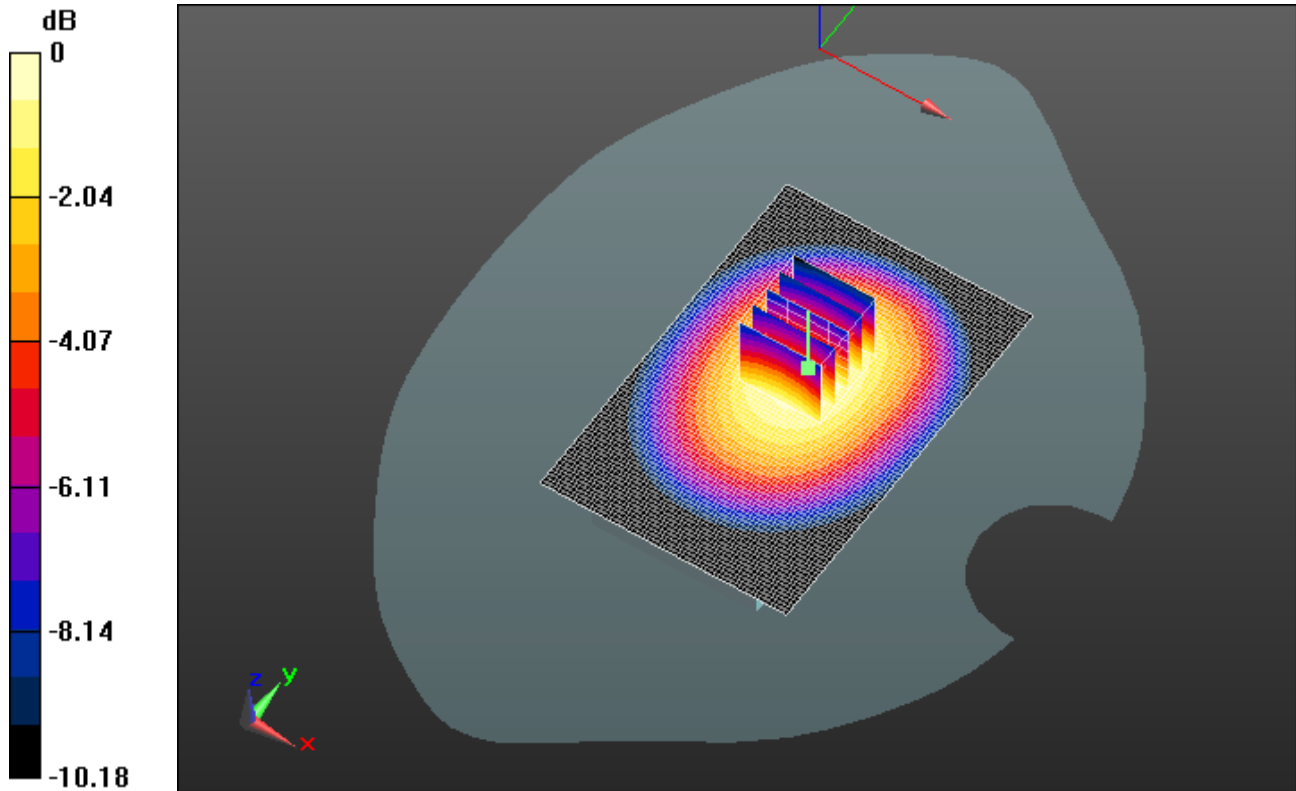
**SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.875 mW/g**




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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.357 mW/g



0 dB = 1.360mW/g = 2.67 dB mW/g

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Date/Time: 7/13/2012 12:58:34 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Front\_UMTS\_Band\_V\_low\_chan\_amb\_temp\_22.9  
C\_liq\_temp\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz  
Medium parameters used (interpolated):  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.959 \text{ mho/m}$ ;  $\epsilon_r = 52.732$ ;  $\rho = 1000 \text{ kg/m}^3$   
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
- DASYS 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) = 0.766 mW/g


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

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

Reference Value = 25.991 V/m; Power Drift = -0.03 dB

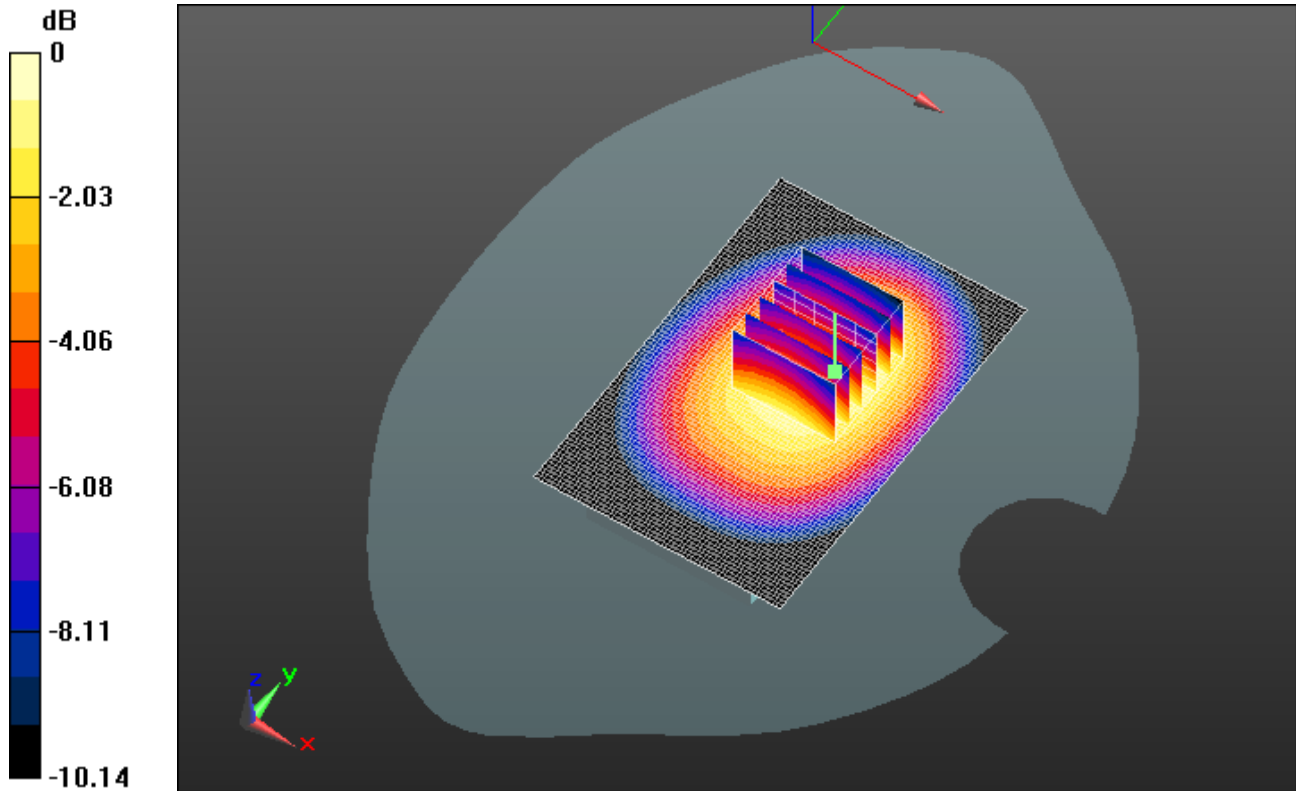
Peak SAR (extrapolated) = 0.8900

**SAR(1 g) = 0.685 mW/g; SAR(10 g) = 0.502 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.763 mW/g



0 dB = 0.760mW/g = -2.38 dB mW/g

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Date/Time: 7/13/2012 12:29:13 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Front\_UMTS\_Band\_V\_mid\_chan\_amb\_temp\_23.0  
C\_liq\_temp\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 52.679$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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
- DASYS 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) = 0.934 mW/g


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

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

Reference Value = 28.471 V/m; Power Drift = 0.02 dB

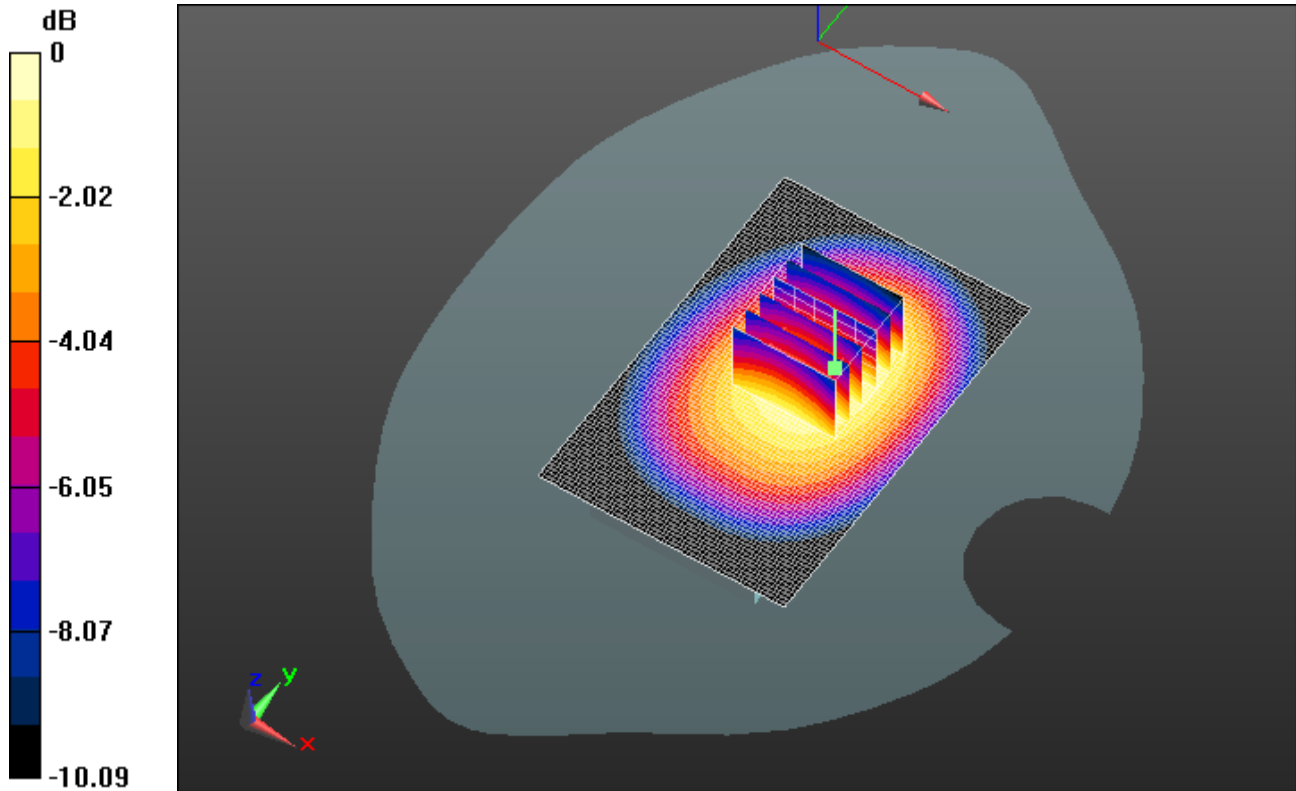
Peak SAR (extrapolated) = 1.0920

**SAR(1 g) = 0.844 mW/g; SAR(10 g) = 0.620 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

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



0 dB = 0.940mW/g = -0.54 dB mW/g

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Date/Time: 7/13/2012 1:16:43 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Front\_UMTS\_Band\_V\_high\_chan\_amb\_temp\_23.  
0C\_liq\_temp\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: WCDMA FDD V; Frequency: 846.6 MHz  
Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.981$  mho/m;  $\epsilon_r = 52.564$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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
- DASYS 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) = 0.975 mW/g


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

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

Reference Value = 29.242 V/m; Power Drift = 0.0009 dB

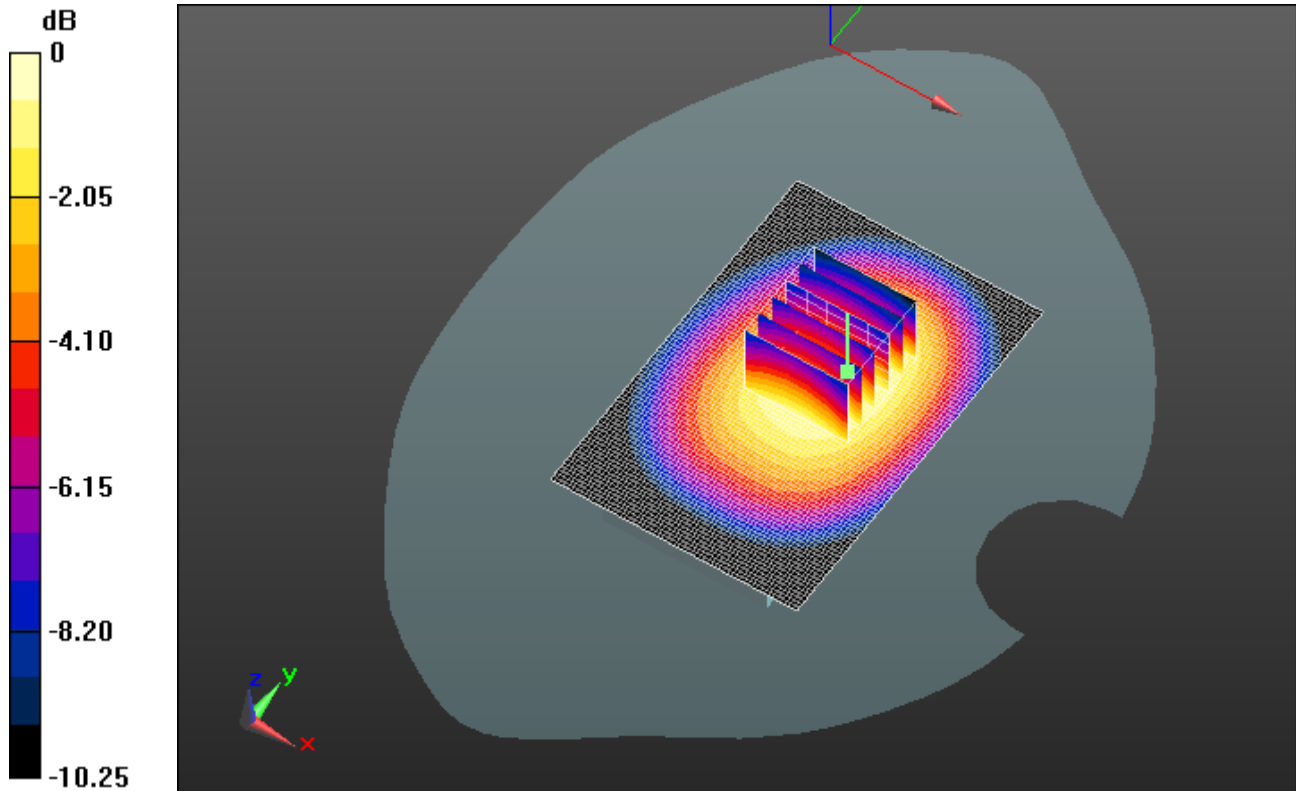
Peak SAR (extrapolated) = 1.1320

**SAR(1 g) = 0.875 mW/g; SAR(10 g) = 0.641 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.975 mW/g



0 dB = 0.970mW/g = -0.26 dB mW/g

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Date/Time: 7/13/2012 10:01:31 AM

Test Laboratory: RIM Testing Services

**MHS\_Right\_UMTS\_V\_mid\_chan\_amb\_temp\_23.3C\_liq\_temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 52.679$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 52 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.854 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 = 29.881 V/m; Power Drift = 0.0036 dB

Peak SAR (extrapolated) = 1.0360

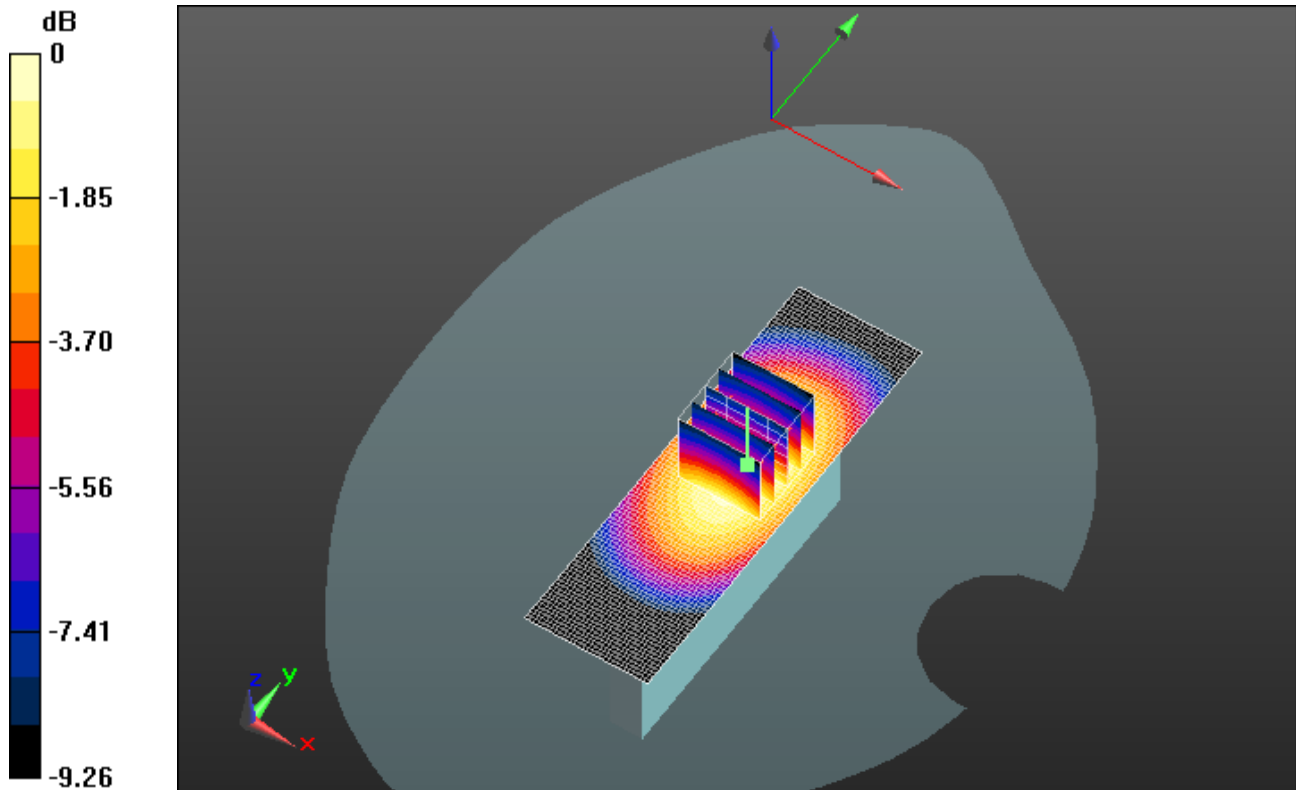
**SAR(1 g) = 0.751 mW/g; SAR(10 g) = 0.524 mW/g**




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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.856 mW/g



0 dB = 0.860mW/g = -1.31 dB mW/g

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Date/Time: 7/13/2012 10:20:23 AM

Test Laboratory: RIM Testing Services

**MHS\_left\_UMTS\_V\_mid\_chan\_amb\_temp\_23.3C\_liq\_temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 52.679$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 52 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.671 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 = 25.718 V/m; Power Drift = 0.02 dB

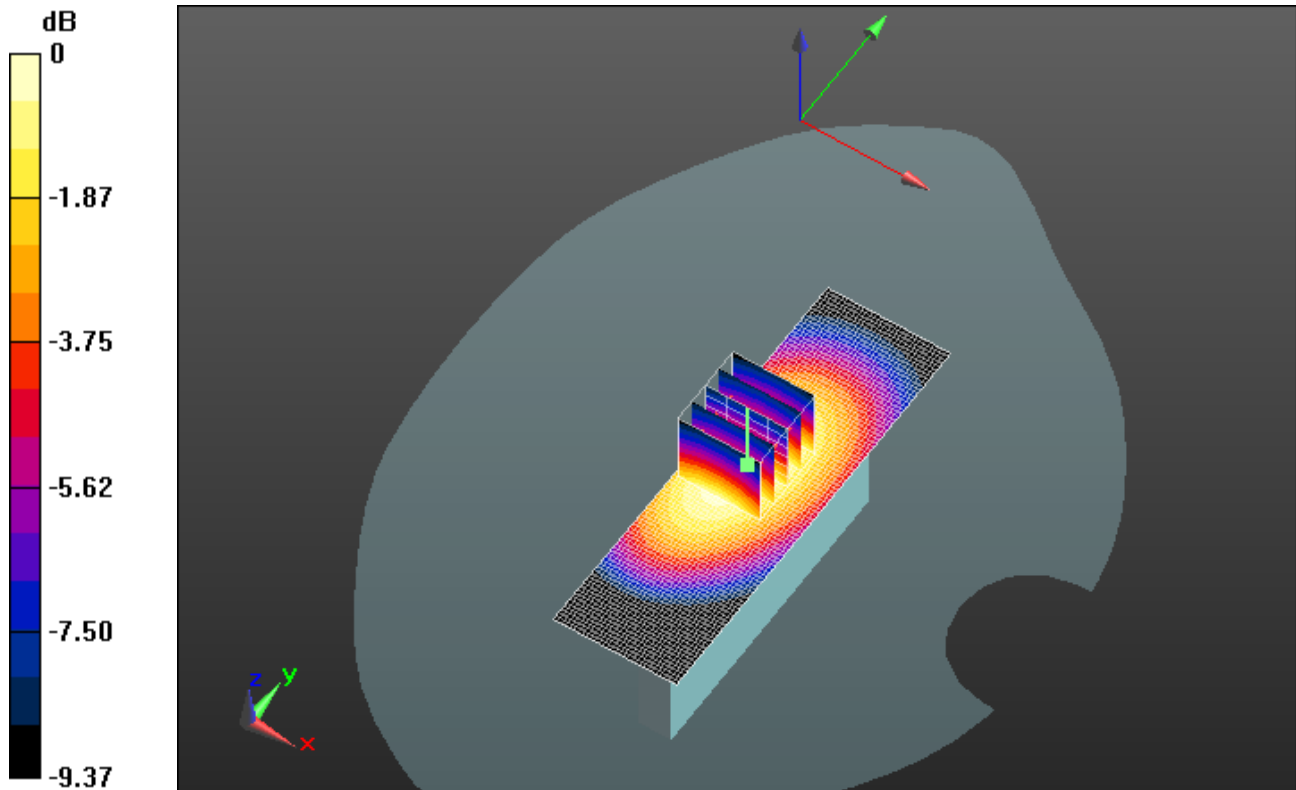
Peak SAR (extrapolated) = 0.8180

**SAR(1 g) = 0.589 mW/g; SAR(10 g) = 0.408 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

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



0 dB = 0.670mW/g = -3.48 dB mW/g

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Date/Time: 7/13/2012 9:43:37 AM

Test Laboratory: RIM Testing Services

**MHS\_Bottom\_UMTS\_Band\_V\_mid\_chan\_amb\_temp\_23.6C\_liq\_temp\_2  
2.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 52.679$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)


**Configuration/Touch position -/Area Scan (31x81x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.071 mW/g

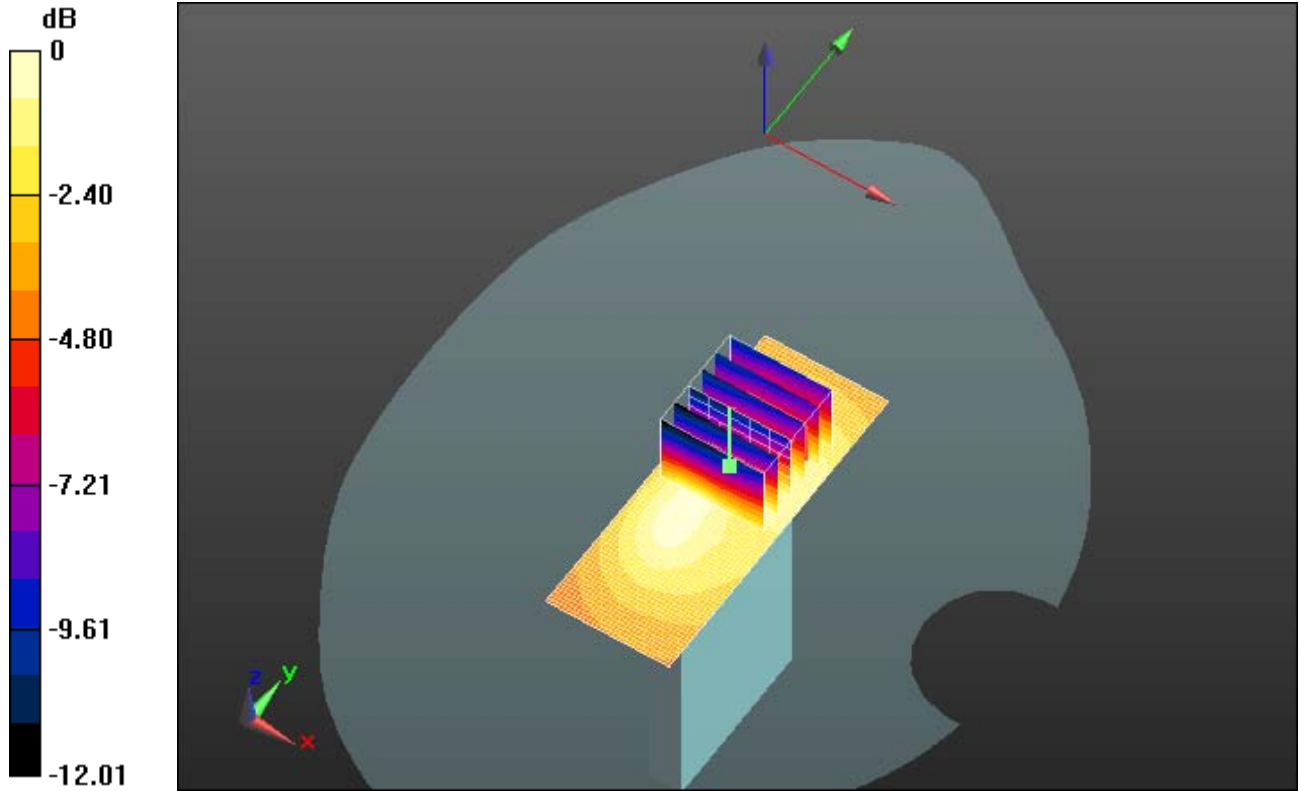
**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube**

**0:** Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm  
Reference Value = 8.020 V/m; Power Drift = 0.0063 dB  
Peak SAR (extrapolated) = 0.1040  
**SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.039 mW/g**


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	Author Data <b>Andrew Becker</b>	Dates of Test <b>July 05 – July 30 , 2012</b>	Test Report No <b>RTS-5992-1207-37</b>	FCC ID: <b>L6ARFE70UW</b>

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.072 mW/g



0 dB = 0.070mW/g = -23.10 dB mW/g

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	Author Data <b>Andrew Becker</b>	Dates of Test <b>July 05 – July 30 , 2012</b>	Test Report No <b>RTS-5992-1207-37</b>	FCC ID: <b>L6ARFE70UW</b>

Date/Time: 7/27/2012 12:34:01 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_UMTS\_Band\_IV\_low\_chan\_amb\_temp\_23.1  
C\_liq\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz  
Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.454$  mho/m;  
 $\epsilon_r = 51.578$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x101x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (interpolated) = 1.047 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 = 3.922 V/m; Power Drift = 0.05 dB

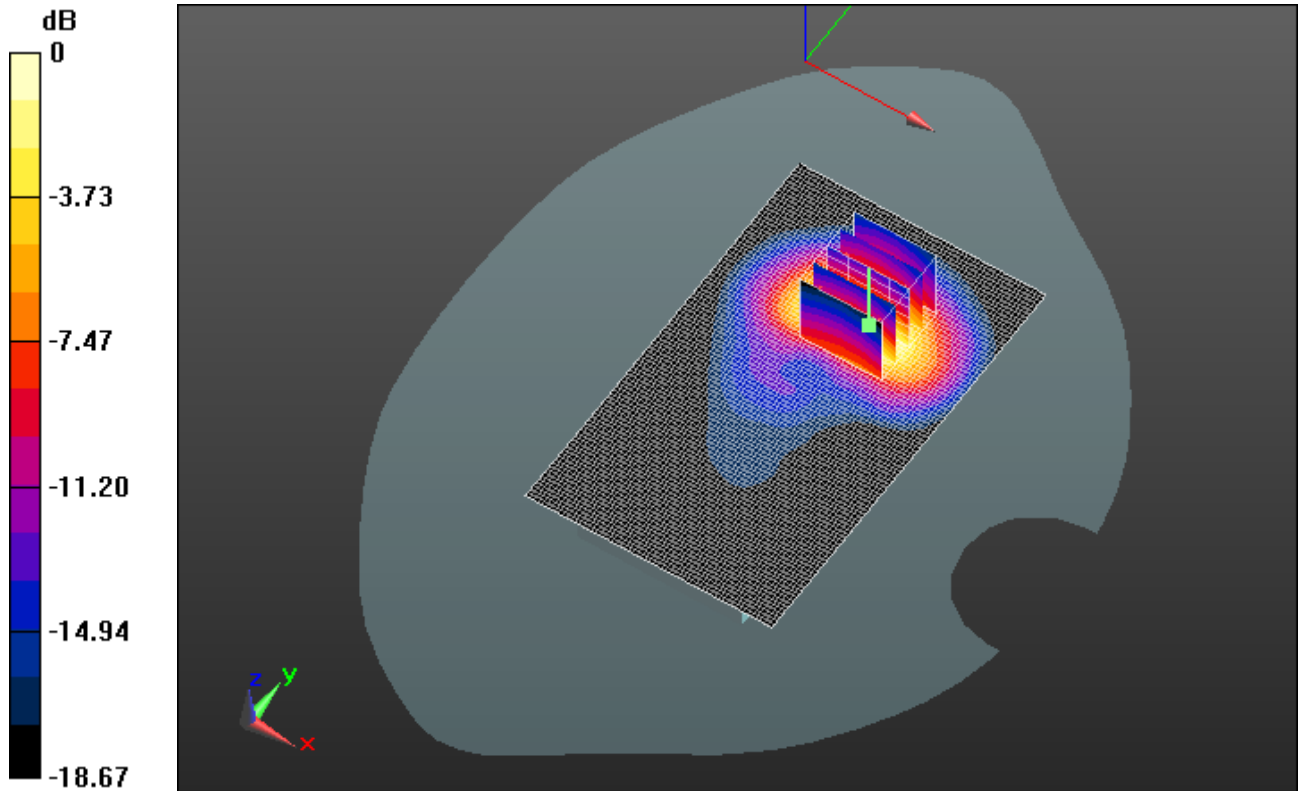
Peak SAR (extrapolated) = 1.2700

**SAR(1 g) = 0.717 mW/g; SAR(10 g) = 0.366 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.872 mW/g



0 dB = 0.870mW/g = -1.21 dB mW/g

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Date/Time: 7/27/2012 12:14:48 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_UMTS\_Band\_IV\_mid\_chan\_amb\_temp\_23.0  
C\_liq\_temp\_21.8C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz  
 Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.477$  mho/m;  
 $\epsilon_r = 51.465$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x101x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (interpolated) = 1.583 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 = 4.967 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.9830

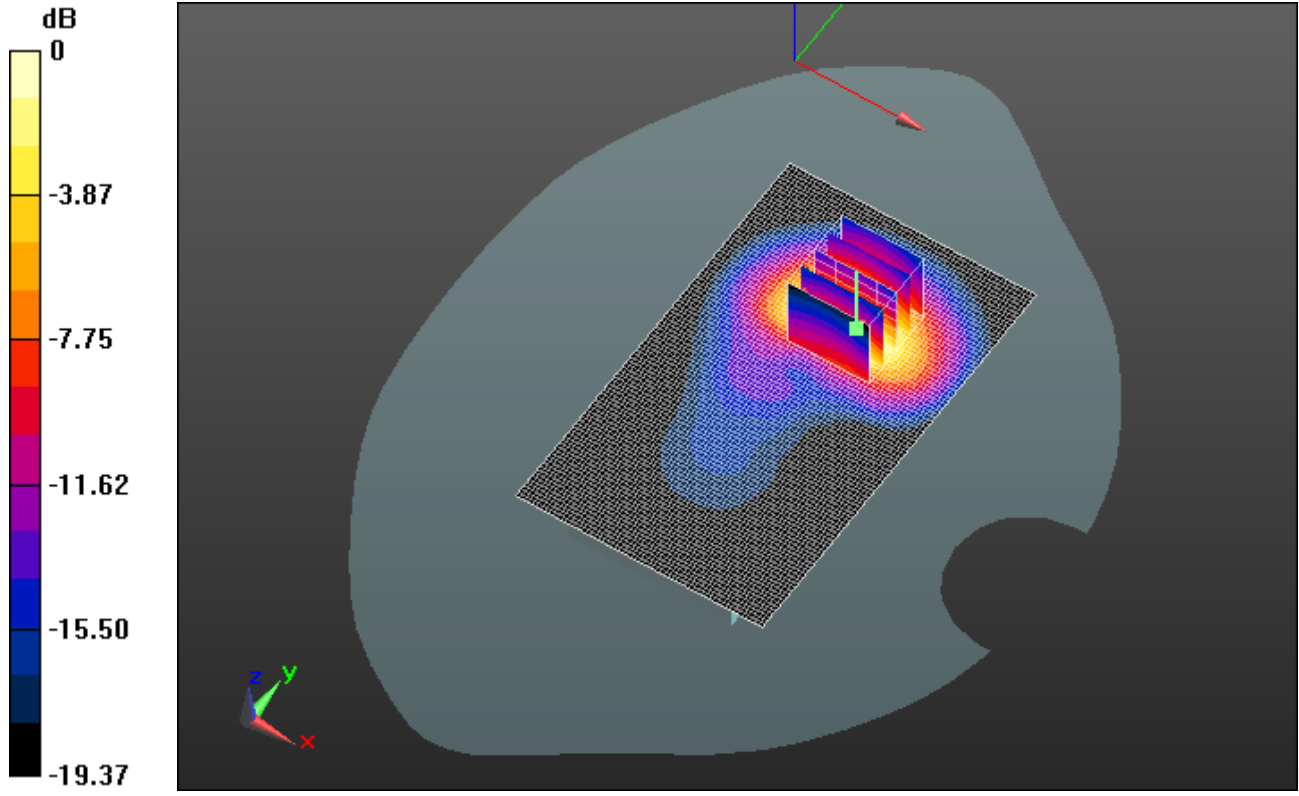
**SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.569 mW/g**




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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.375 mW/g



0 dB = 1.370mW/g = 2.73 dB mW/g

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Date/Time: 7/27/2012 12:50:37 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_UMTS\_Band\_IV\_high\_chan\_amb\_temp\_23.  
0C\_liq\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz  
Medium parameters used (interpolated):  $f = 1752.6$  MHz;  $\sigma = 1.501$  mho/m;  
 $\epsilon_r = 51.367$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x101x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (interpolated) = 1.511 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 = 5.079 V/m; Power Drift = -0.03 dB

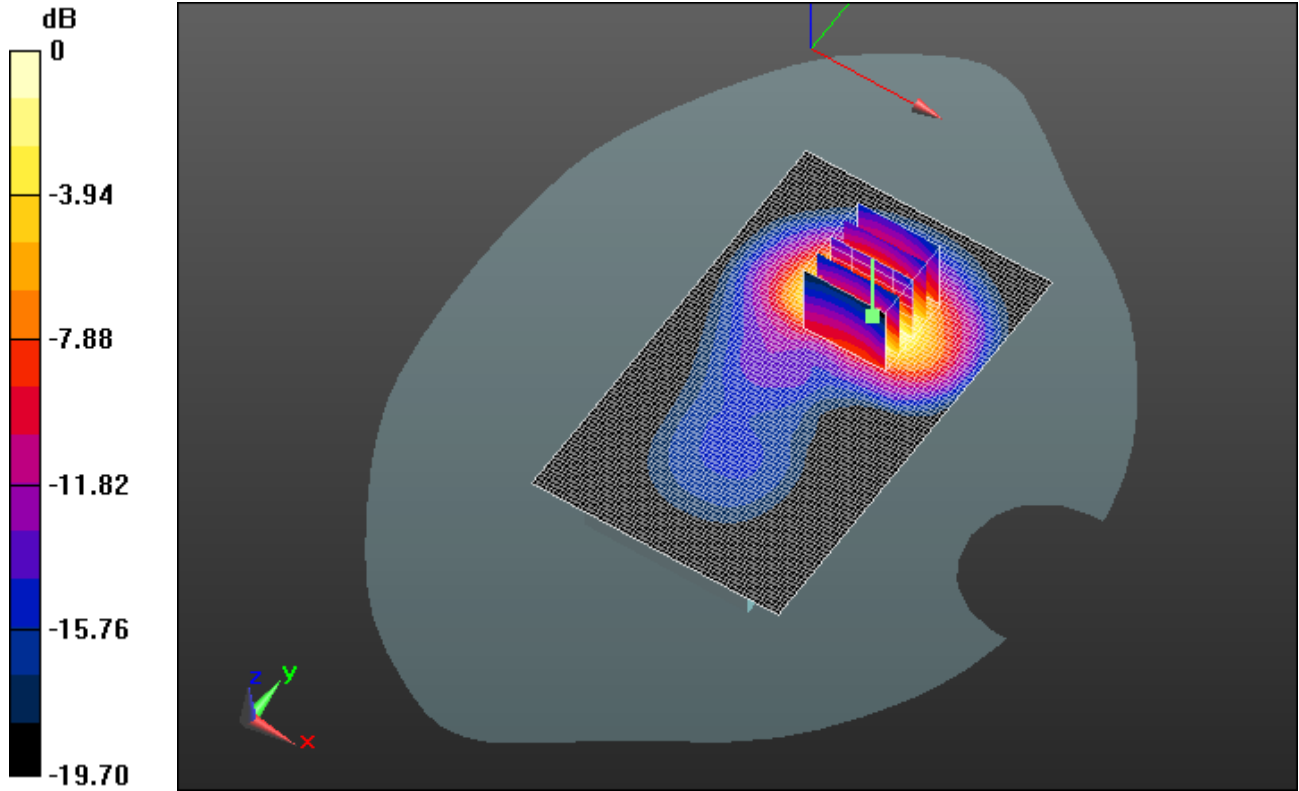
Peak SAR (extrapolated) = 1.9050

**SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.547 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.322 mW/g



0 dB = 1.320mW/g = 2.41 dB mW/g

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Date/Time: 7/27/2012 1:29:02 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Front\_UMTS\_Band\_IV\_mid\_chan\_amb\_temp\_23.  
0C\_liq\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz  
Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.477$  mho/m;  
 $\epsilon_r = 51.465$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x101x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.452 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 = 4.298 V/m; Power Drift = -0.05 dB

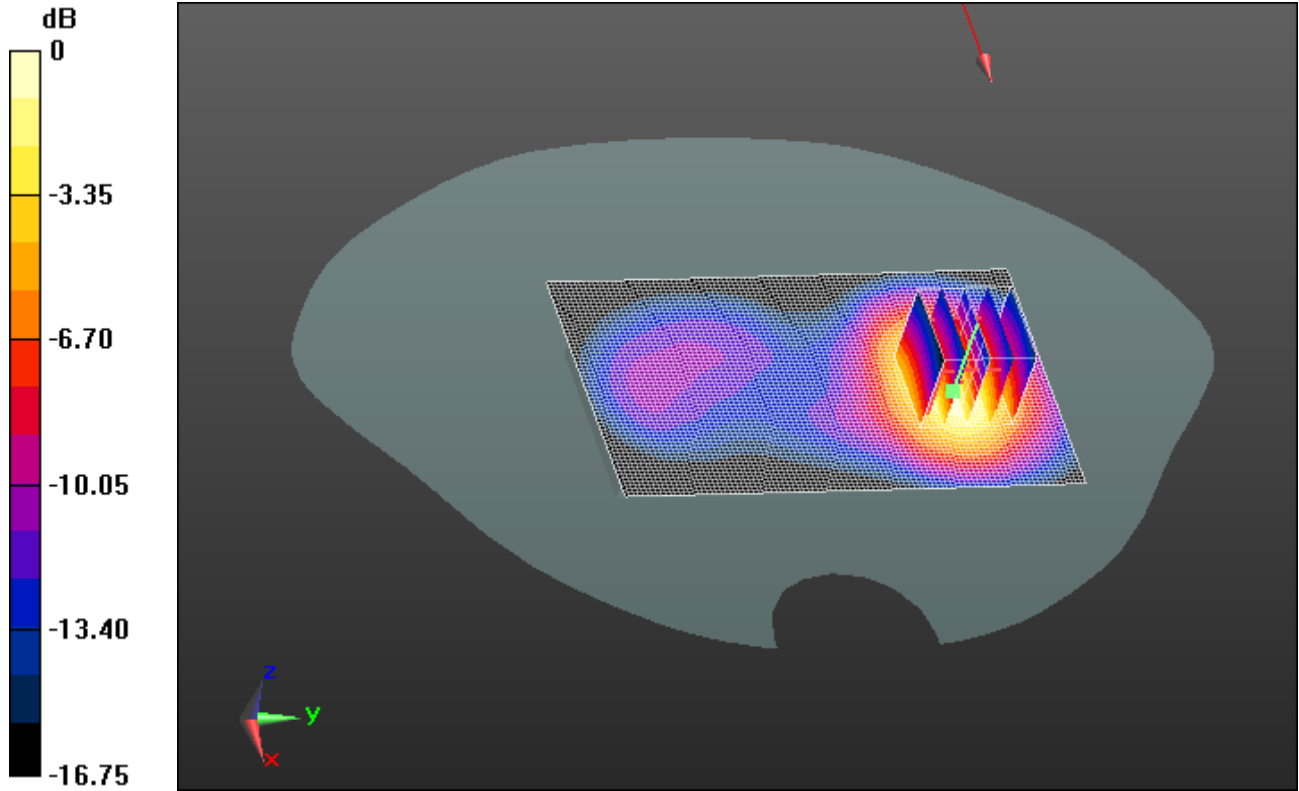
Peak SAR (extrapolated) = 0.6160

**SAR(1 g) = 0.370 mW/g; SAR(10 g) = 0.208 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.451 mW/g



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

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Date/Time: 7/27/2012 10:17:17 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Right\_UMTS\_Band\_IV\_mid\_chan\_amb\_temp\_23.  
3C\_liq\_temp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A4A5839**

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz  
Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.477$  mho/m;  
 $\epsilon_r = 51.465$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** 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 = 9.081 V/m; Power Drift = 0.04 dB

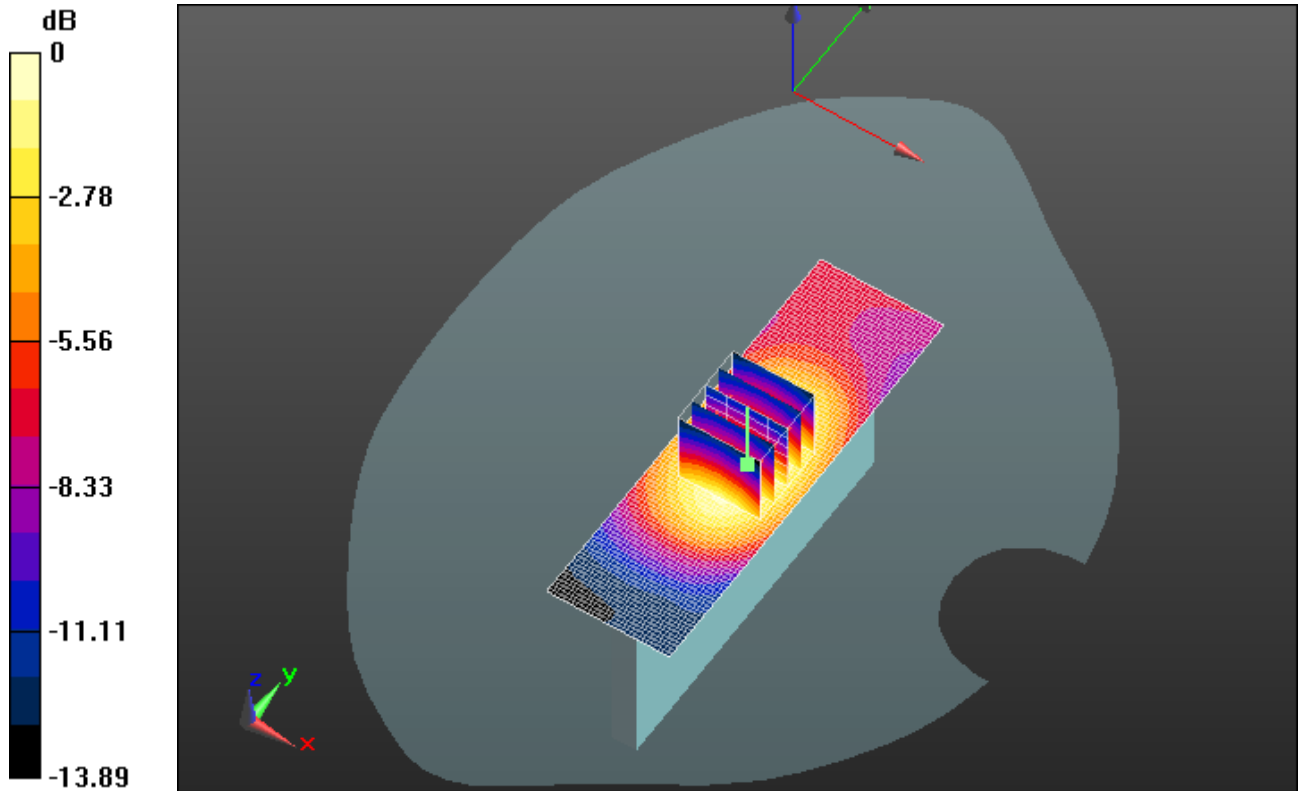
Peak SAR (extrapolated) = 0.1440

**SAR(1 g) = 0.094 mW/g; SAR(10 g) = 0.058 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

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



0 dB = 0.110mW/g = -19.17 dB mW/g

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Date/Time: 7/27/2012 10:03:44 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Left\_UMTS\_Band\_IV\_mid\_chan\_amb\_temp\_23.4  
C\_liq\_temp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A41842F**

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz  
 Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.477$  mho/m;  
 $\epsilon_r = 51.465$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.107 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 = 8.321 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.1340

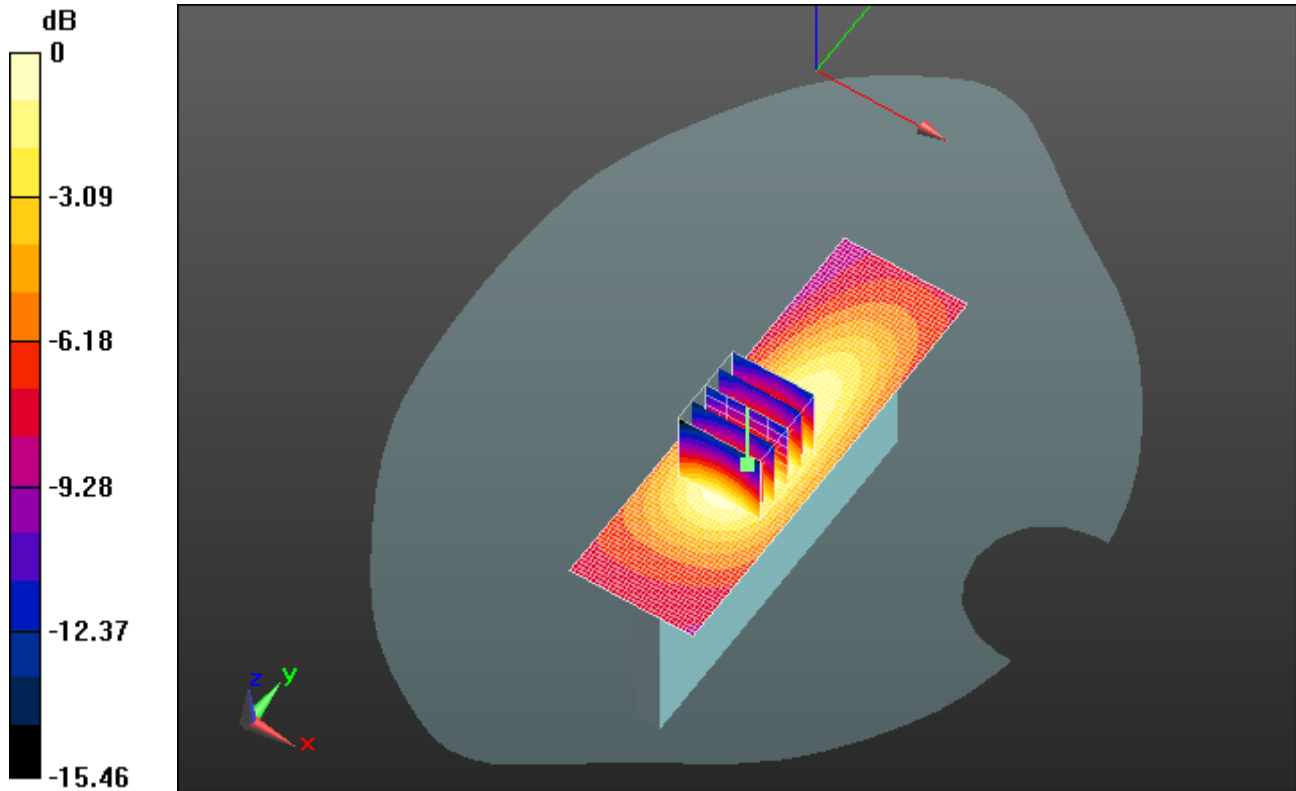
**SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.052 mW/g**




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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.101 mW/g



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

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Date/Time: 7/27/2012 10:32:44 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Bottom\_UMTS\_Band\_IV\_mid\_chan\_amb\_temp\_2  
3.2\_liq\_temp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz  
Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.477$  mho/m;  
 $\epsilon_r = 51.465$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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 (41x61x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.966 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 = 22.557 V/m; Power Drift = -0.01 dB

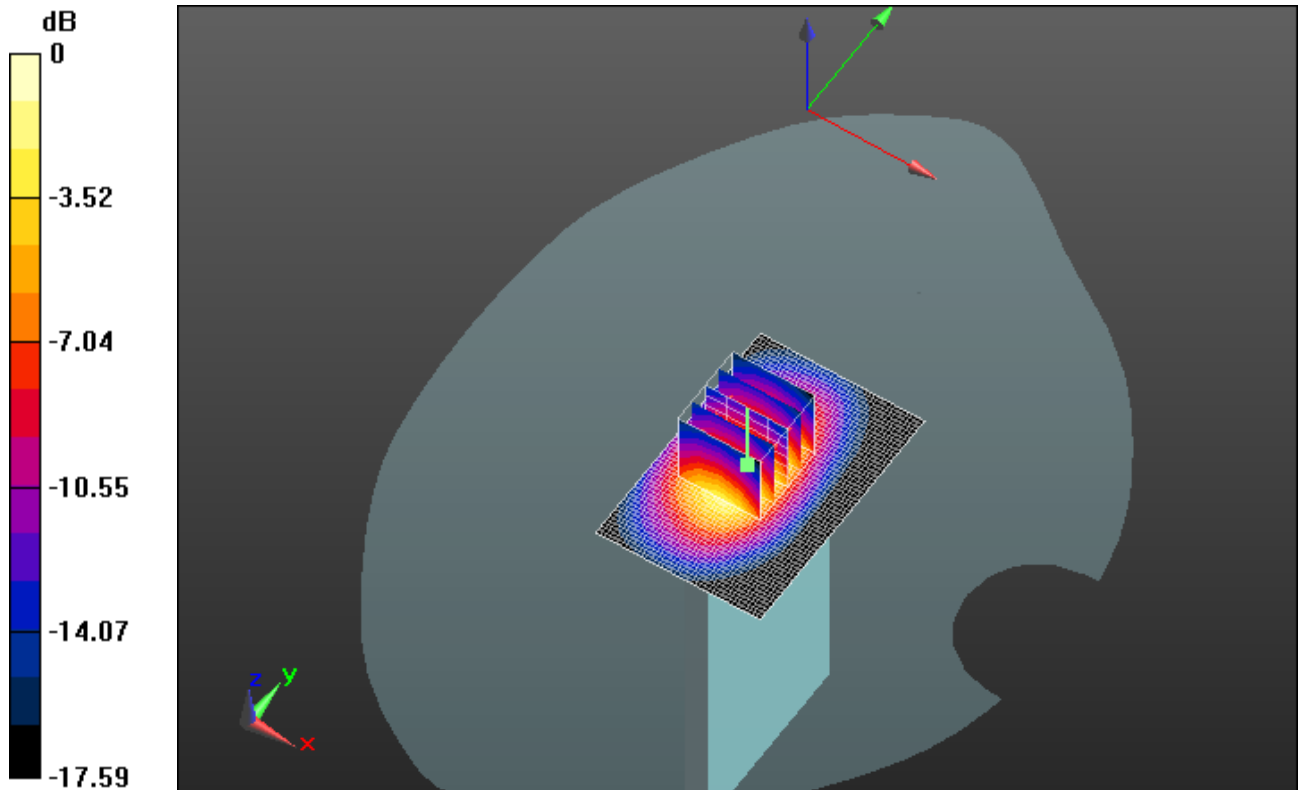
Peak SAR (extrapolated) = 1.1380

**SAR(1 g) = 0.676 mW/g; SAR(10 g) = 0.361 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.837 mW/g



0 dB = 0.840mW/g = -1.51 dB mW/g

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Date/Time: 7/30/2012 5:49:05 PM

Test Laboratory: RIM Testing Services

**MHS\_Back\_GPRS 1900\_low\_chan\_amb\_temp\_23.7C\_liq\_temp\_22.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: GPRS 1900; Frequency: 1850.2 MHz  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.497$  mho/m;  
 $\epsilon_r = 51.114$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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
- DASYS 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) = 1.679 mW/g

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

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

Reference Value = 5.694 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.4690

**SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.715 mW/g**

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

Maximum value of SAR (measured) = 1.759 mW/g

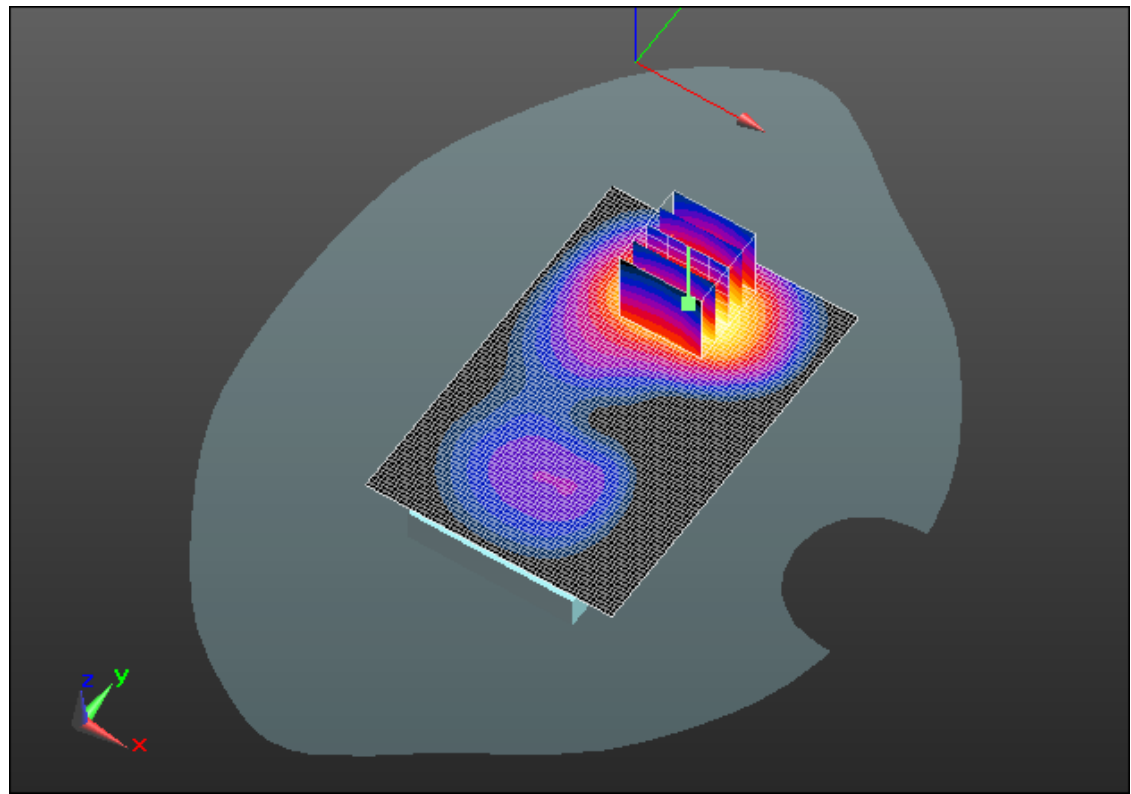
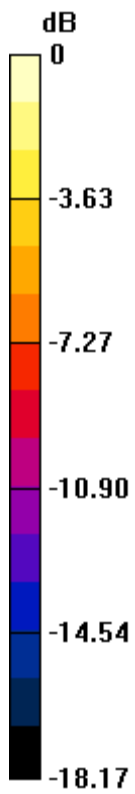
Author Data  
**Andrew Becker**

Dates of Test  
**July 05 – July 30 , 2012**


Test Report No  
**RTS-5992-1207-37**

FCC ID:  
**L6ARFE70UW**

IC ID  
**2503A-RFE70UW**



0 dB = 1.760mW/g = 4.91 dB mW/g

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Date/Time: 7/30/2012 6:10:57 PM

Test Laboratory: RIM Testing Services

**MHS\_Back\_GPRS 1900\_mid\_chan\_amb\_temp\_23.7C\_liq\_temp\_22.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.533$  mho/m;  $\epsilon_r = 50.995$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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) = 1.495 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 = 5.132 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.2270

**SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.651 mW/g**

Maximum value of SAR (measured) = 1.603 mW/g

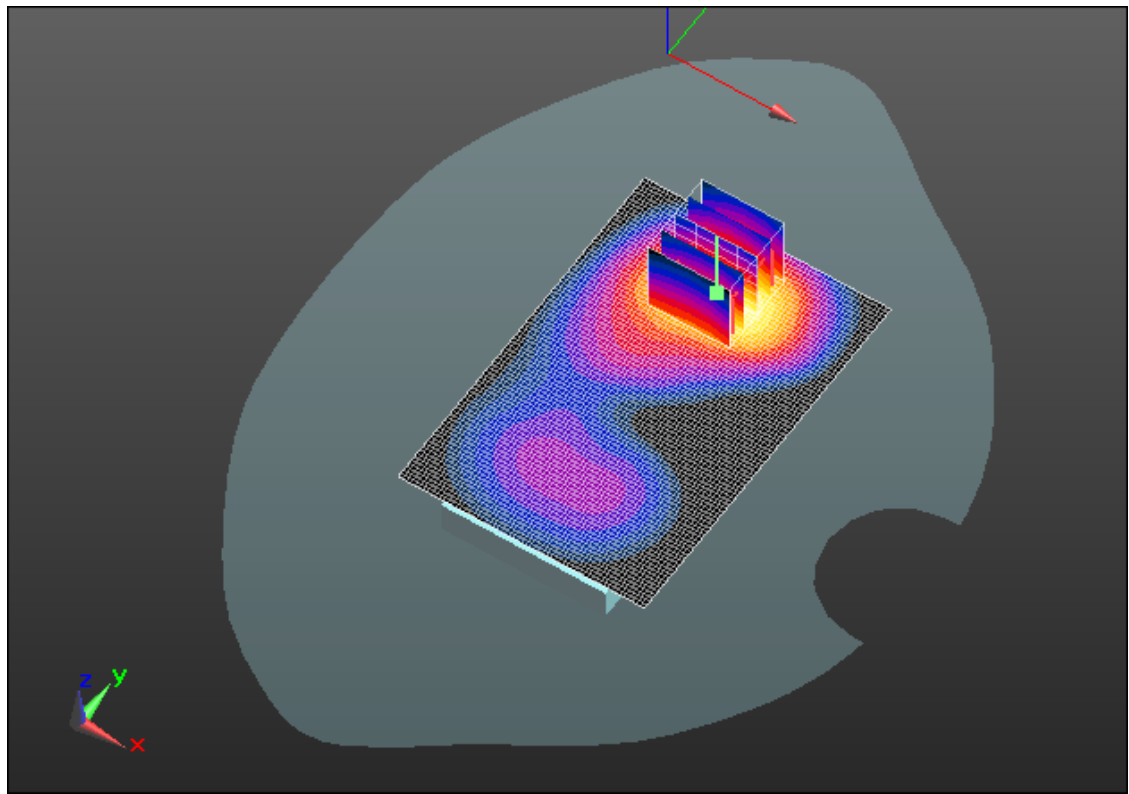
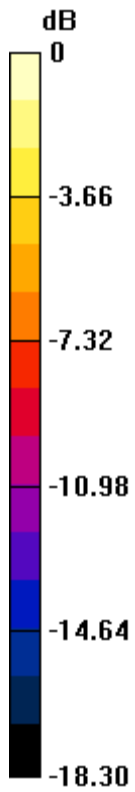
Author Data  
**Andrew Becker**

Dates of Test  
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**RTS-5992-1207-37**

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**L6ARFE70UW**

IC ID  
**2503A-RFE70UW**



0 dB = 1.600mW/g = 4.08 dB mW/g

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Date/Time: 7/30/2012 6:28:20 PM

Test Laboratory: RIM Testing Services

**MHS\_Back\_GPRS 1900\_high\_chan\_amb\_temp\_23.7C\_liq\_temp\_22.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: GPRS 1900; Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.568$  mho/m;  $\epsilon_r = 50.893$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 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) = 1.421 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 = 6.074 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.1090

**SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.618 mW/g**

Maximum value of SAR (measured) = 1.519 mW/g



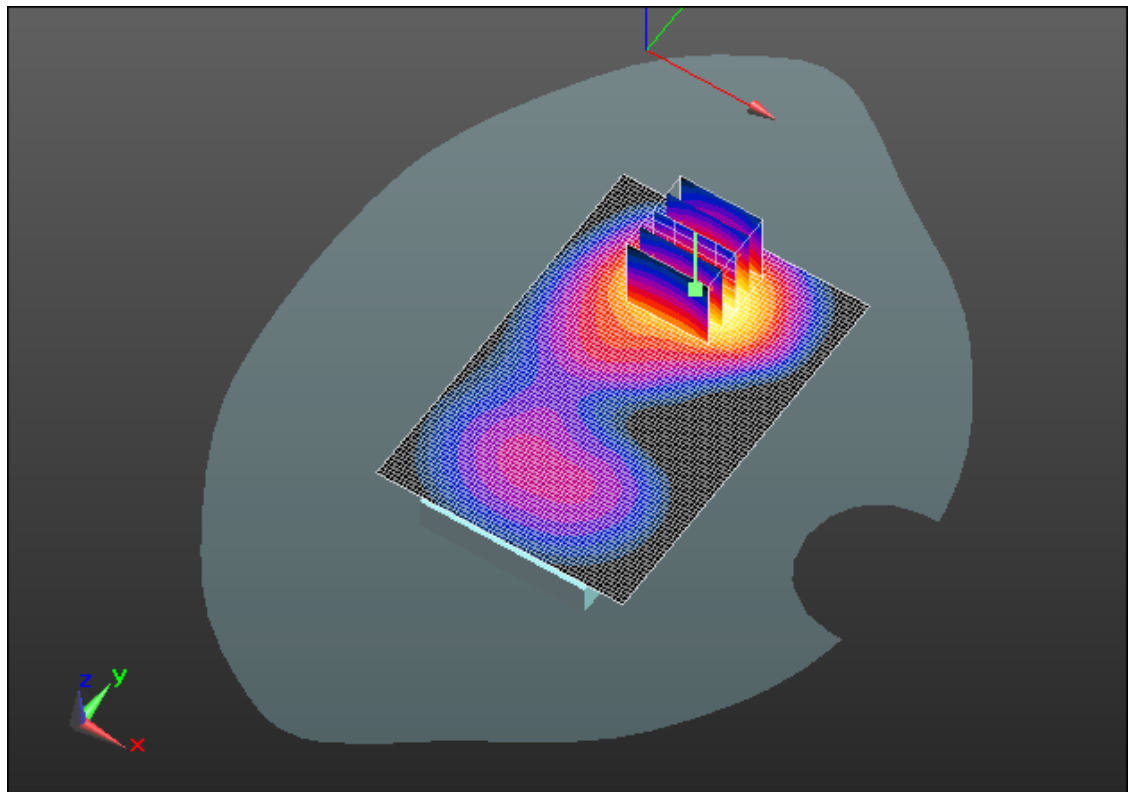
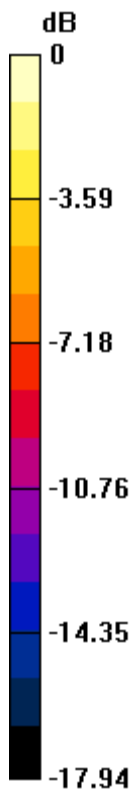
Author Data  
**Andrew Becker**

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0 dB = 1.520mW/g = 3.64 dB mW/g

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Date/Time: 7/30/2012 6:59:22 PM

Test Laboratory: RIM Testing Services

**MHS\_Front\_GPRS 1900\_mid\_chan\_amb\_temp\_23.2C\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.533$  mho/m;  $\epsilon_r = 50.995$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 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) = 0.396 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 = 6.391 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.5640

**SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.190 mW/g**

Maximum value of SAR (measured) = 0.411 mW/g

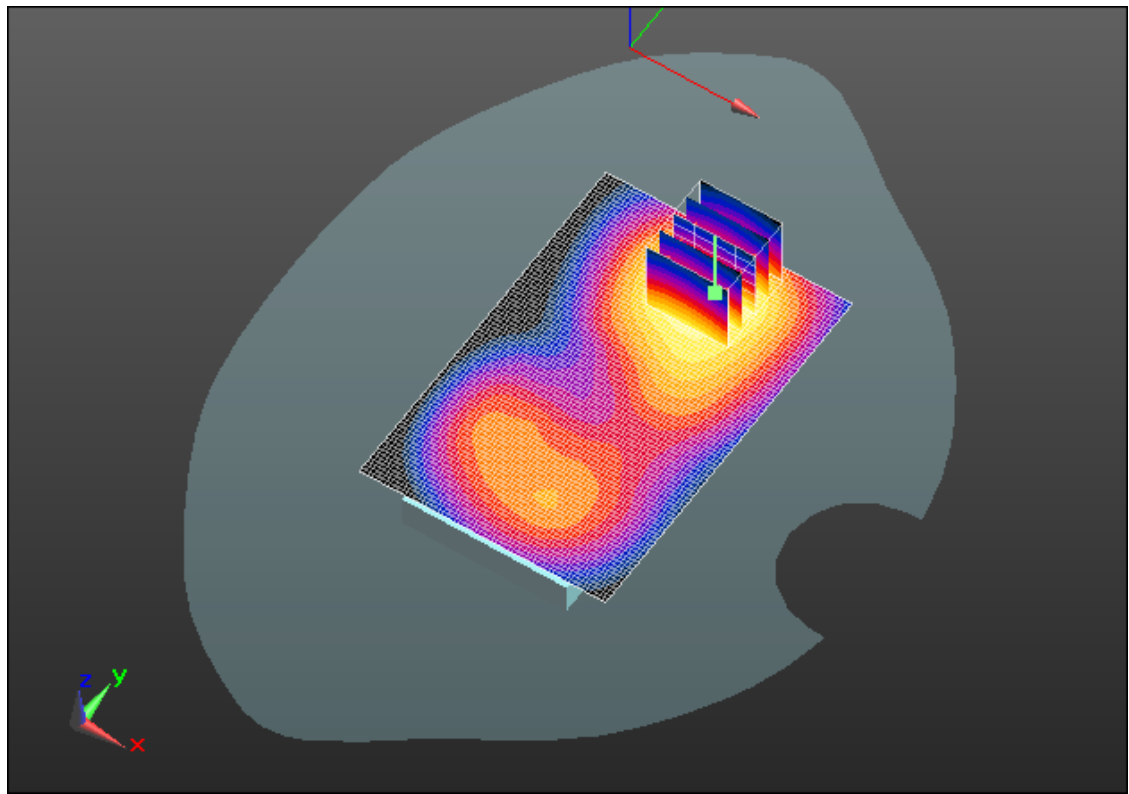
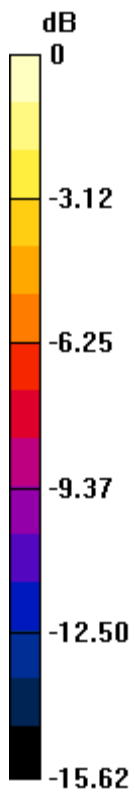
Author Data  
**Andrew Becker**

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

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Test Laboratory: RIM Testing Services

**MHS\_Right\_GPRS 1900\_mid\_chan\_amb\_temp\_23.1C\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A41842F**

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.533$  mho/m;  $\epsilon_r = 50.995$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:

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

Maximum value of SAR (interpolated) = 0.079 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 = 7.052 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.1010

**SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.038 mW/g**

Maximum value of SAR (measured) = 0.077 mW/g

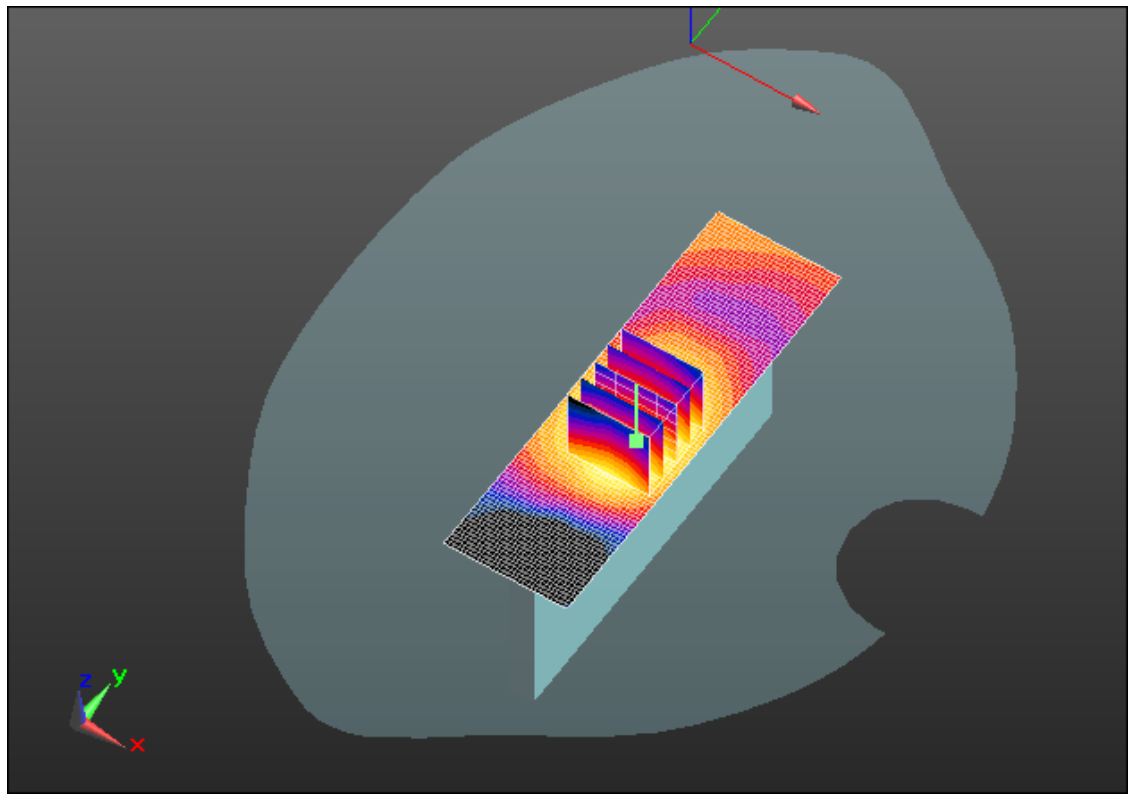
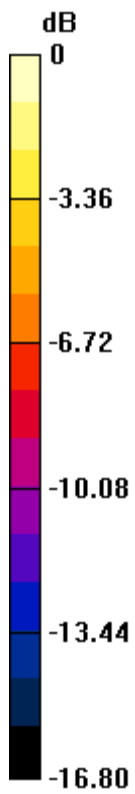
Author Data  
**Andrew Becker**

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0 dB = 0.080mW/g = -21.94 dB mW/g

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Date/Time: 7/30/2012 8:15:20 PM

Test Laboratory: RIM Testing Services

**MHS\_Left\_GPRS 1900\_mid\_chan\_amb\_temp\_23.4C\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A41842F**

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.533$  mho/m;  $\epsilon_r = 50.995$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:

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

Maximum value of SAR (interpolated) = 0.221 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 = 11.280 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.2960

**SAR(1 g) = 0.186 mW/g; SAR(10 g) = 0.112 mW/g**

Maximum value of SAR (measured) = 0.225 mW/g

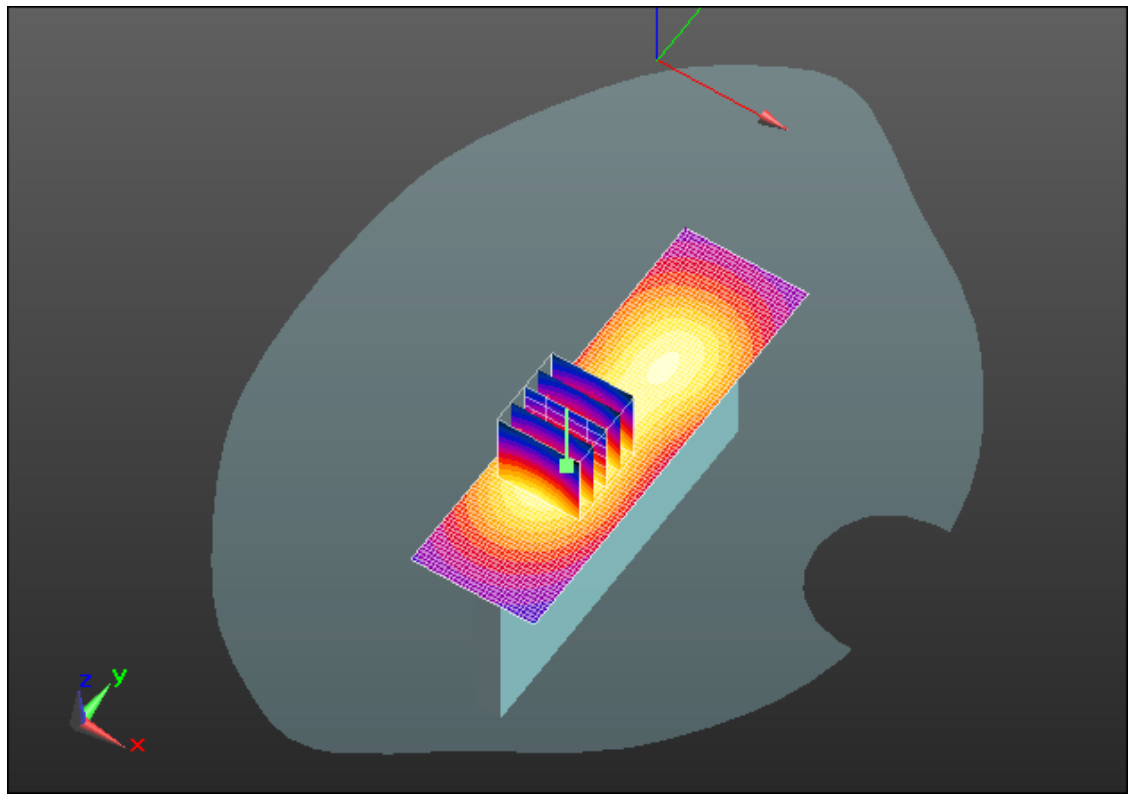
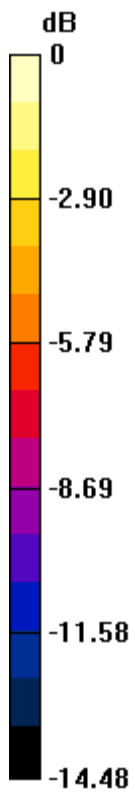
Author Data  
**Andrew Becker**

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0 dB = 0.220mW/g = -13.15 dB mW/g

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Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Bottom\_GPRS1900\_mid\_chan\_amb\_temp\_23.1\_li  
q\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: GPRS 1900; Frequency: 1880 MHz  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.533$  mho/m;  $\epsilon_r = 50.995$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (41x61x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (interpolated) = 0.975 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 = 24.022 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 1.1860  
**SAR(1 g) = 0.708 mW/g; SAR(10 g) = 0.378 mW/g**  
Maximum value of SAR (measured) = 0.866 mW/g



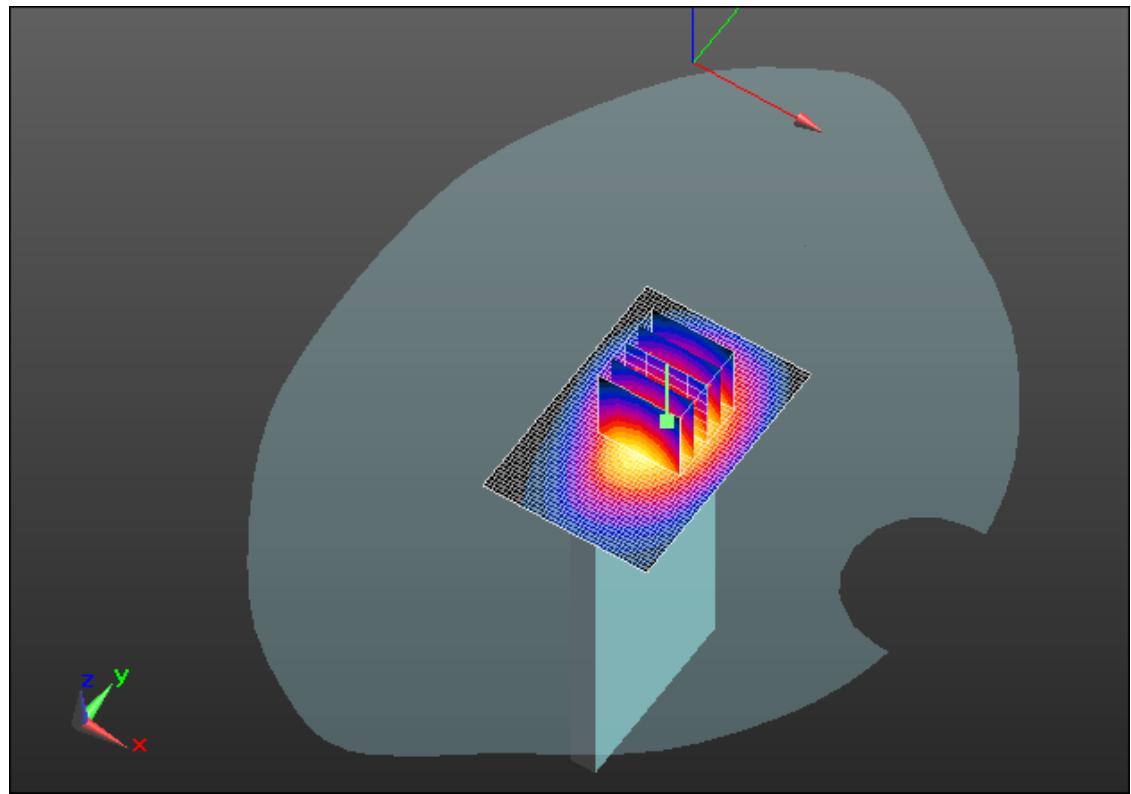
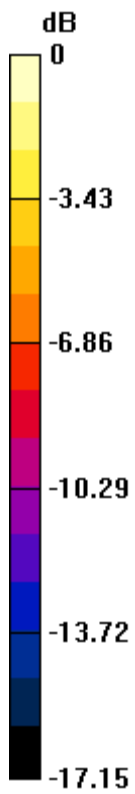
Author Data  
**Andrew Becker**

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0 dB = 0.870mW/g = -1.21 dB mW/g

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Date/Time: 7/30/2012 2:48:32 PM

Test Laboratory: RIM Testing Services

**MHS\_Back\_UMTS\_Band\_II\_low\_chan\_amb\_temp\_23.9C\_liq\_temp\_22.9**

**C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.501$  mho/m;  
 $\epsilon_r = 51.101$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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
- DASYS 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) = 1.682 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 = 6.337 V/m; Power Drift = -0.09 dB

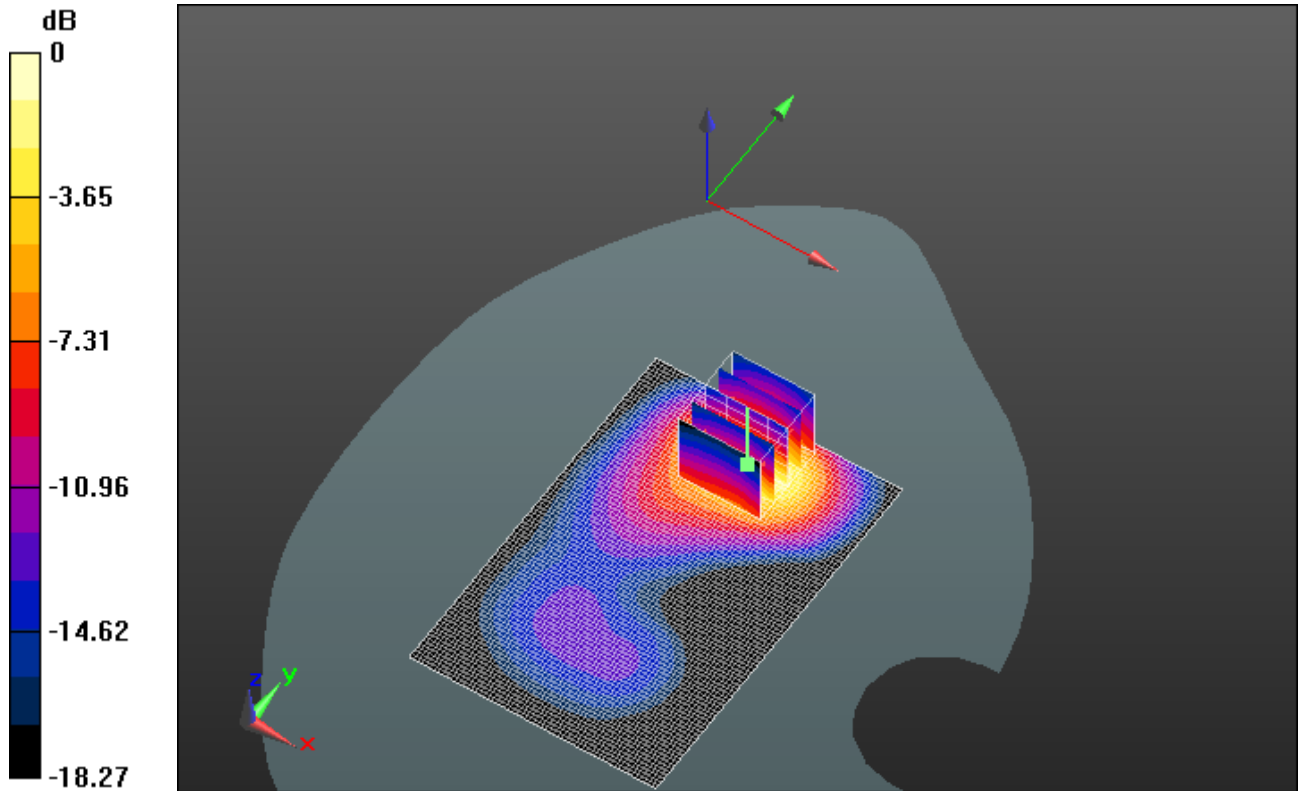
Peak SAR (extrapolated) = 2.4310

**SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.722 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.757 mW/g



0 dB = 1.760mW/g = 4.91 dB mW/g

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Date/Time: 7/30/2012 2:32:16 PM

Test Laboratory: RIM Testing Services

**MHS\_Back\_UMTS\_Band\_II\_mid\_chan\_amb\_temp\_23.6C\_liq\_temp\_23.2**

**C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.533$  mho/m;  $\epsilon_r = 50.995$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 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) = 1.633 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 = 6.996 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 2.3680

**SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.704 mW/g**

Maximum value of SAR (measured) = 1.707 mW/g

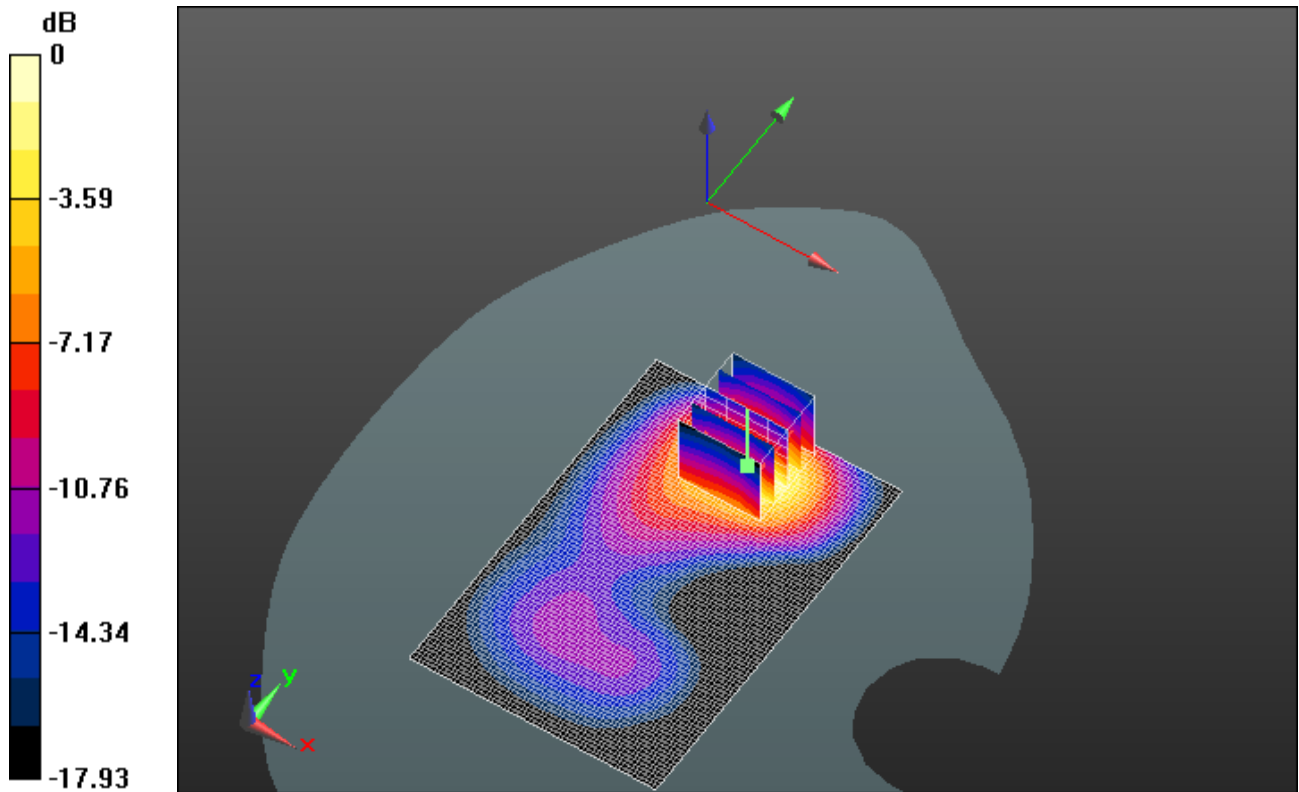
Author Data  
**Andrew Becker**

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0 dB = 1.710mW/g = 4.66 dB mW/g

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Date/Time: 7/30/2012 3:04:38 PM

Test Laboratory: RIM Testing Services

**MHS\_Back\_UMTS\_Band\_II\_high\_chan\_amb\_temp\_23.8C\_liq\_temp\_22.9C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz  
Medium parameters used (interpolated):  $f = 1907.6 \text{ MHz}$ ;  $\sigma = 1.566 \text{ mho/m}$ ;  
 $\epsilon_r = 50.899$ ;  $\rho = 1000 \text{ kg/m}^3$   
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
- DASYS 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) = 1.545 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 = 7.235 V/m; Power Drift = 0.0085 dB

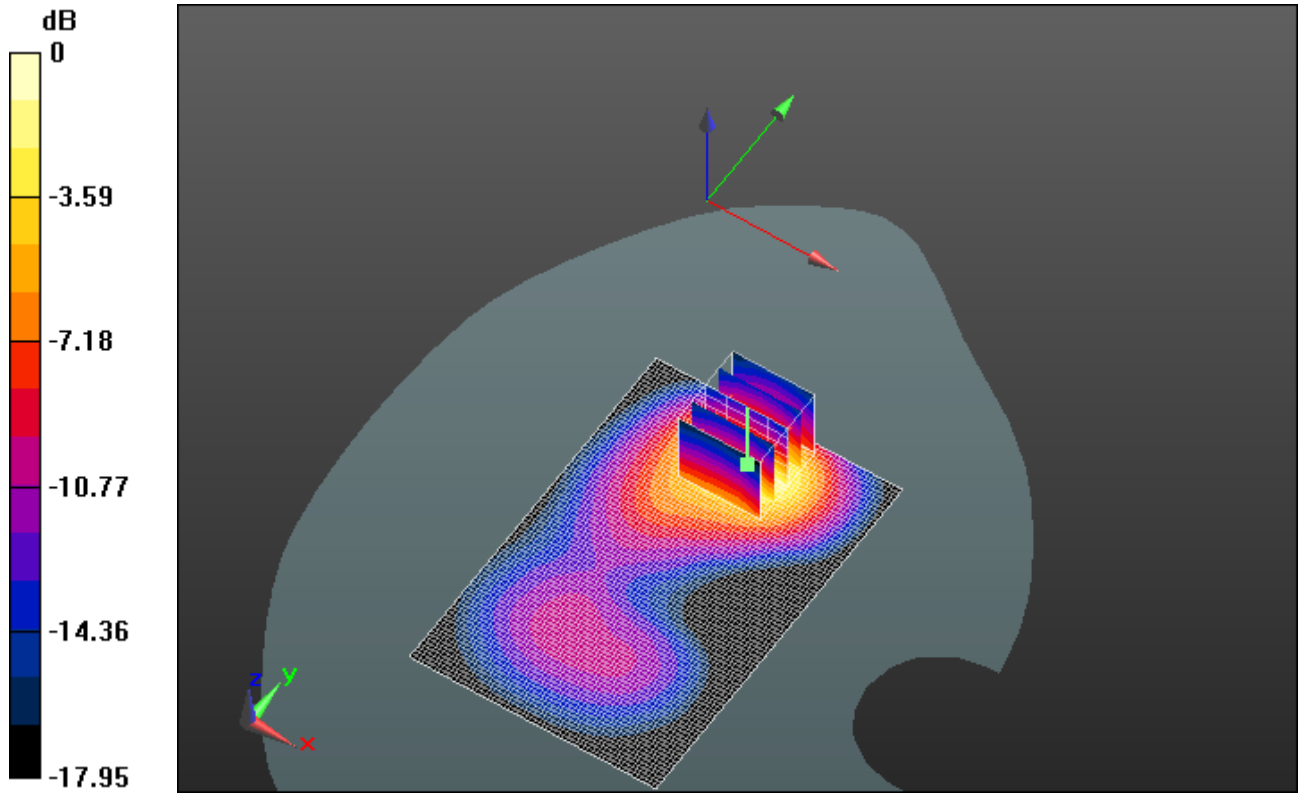
Peak SAR (extrapolated) = 2.1630

**SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.645 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.561 mW/g



0 dB = 1.560mW/g = 3.86 dB mW/g

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Date/Time: 7/30/2012 11:11:01 PM

Test Laboratory: RIM Testing Services

**MHS\_Front\_UMTS\_Band\_II\_mid\_chan\_amb\_temp\_22.9C\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: GPRS 1900; Frequency: 1880 MHz  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.533$  mho/m;  $\epsilon_r = 50.995$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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
- DASYS 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) = 0.452 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 = 7.043 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 0.6400  
**SAR(1 g) = 0.373 mW/g; SAR(10 g) = 0.211 mW/g**  
Maximum value of SAR (measured) = 0.461 mW/g



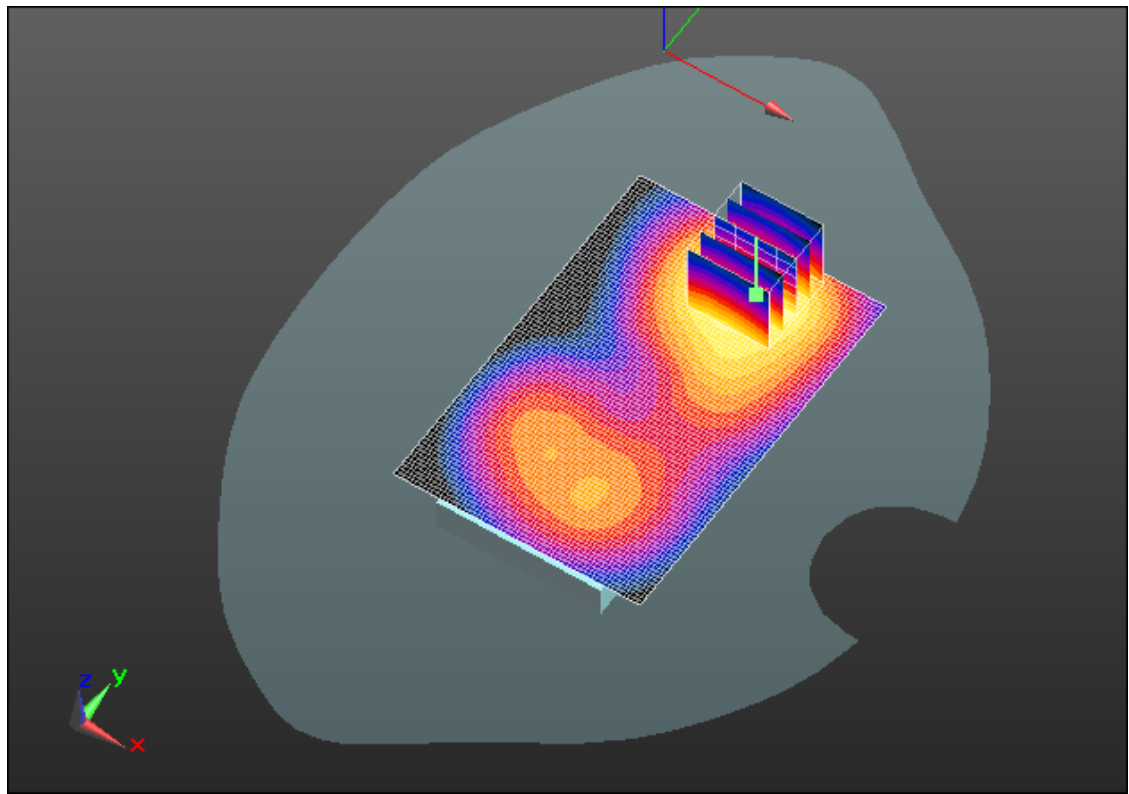
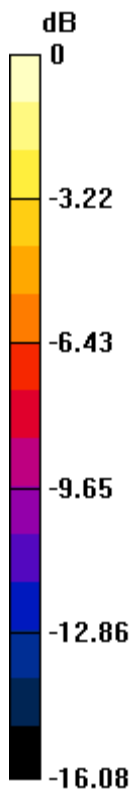
Author Data  
**Andrew Becker**

Dates of Test  
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**L6ARFE70UW**

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0 dB = 0.460mW/g = -6.74 dB mW/g

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Date/Time: 7/30/2012 10:37:19 PM

Test Laboratory: RIM Testing Services

**MHS\_Right\_UMTS\_Band\_II\_mid\_chan\_amb\_temp\_23.1C\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A41842F**

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.533$  mho/m;  $\epsilon_r = 50.995$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:

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

Maximum value of SAR (interpolated) = 0.086 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 = 7.320 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.1100

**SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.041 mW/g**

Maximum value of SAR (measured) = 0.084 mW/g

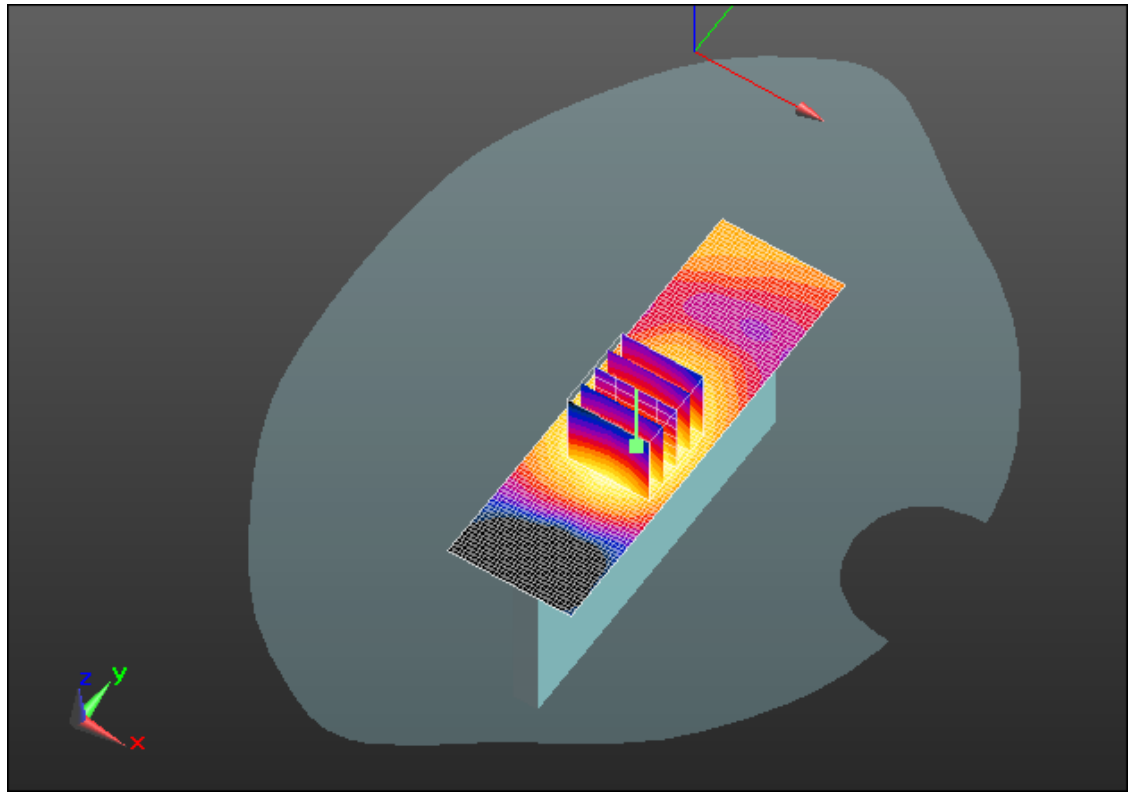
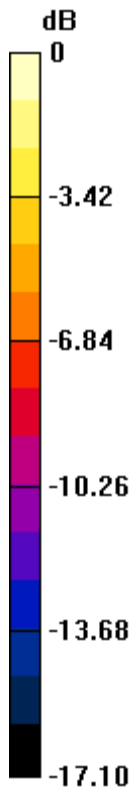
Author Data  
**Andrew Becker**

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0 dB = 0.080mW/g = -21.94 dB mW/g

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Date/Time: 7/30/2012 10:13:55 PM

Test Laboratory: RIM Testing Services

**MHS\_Left\_UMTS\_Band\_II\_mid\_chan\_amb\_temp\_23.3C\_liq\_temp\_22.0**

**C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A41842F**

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.533$  mho/m;  $\epsilon_r = 50.995$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:

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

Maximum value of SAR (interpolated) = 0.221 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 = 10.676 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.2920

**SAR(1 g) = 0.183 mW/g; SAR(10 g) = 0.110 mW/g**

Maximum value of SAR (measured) = 0.220 mW/g

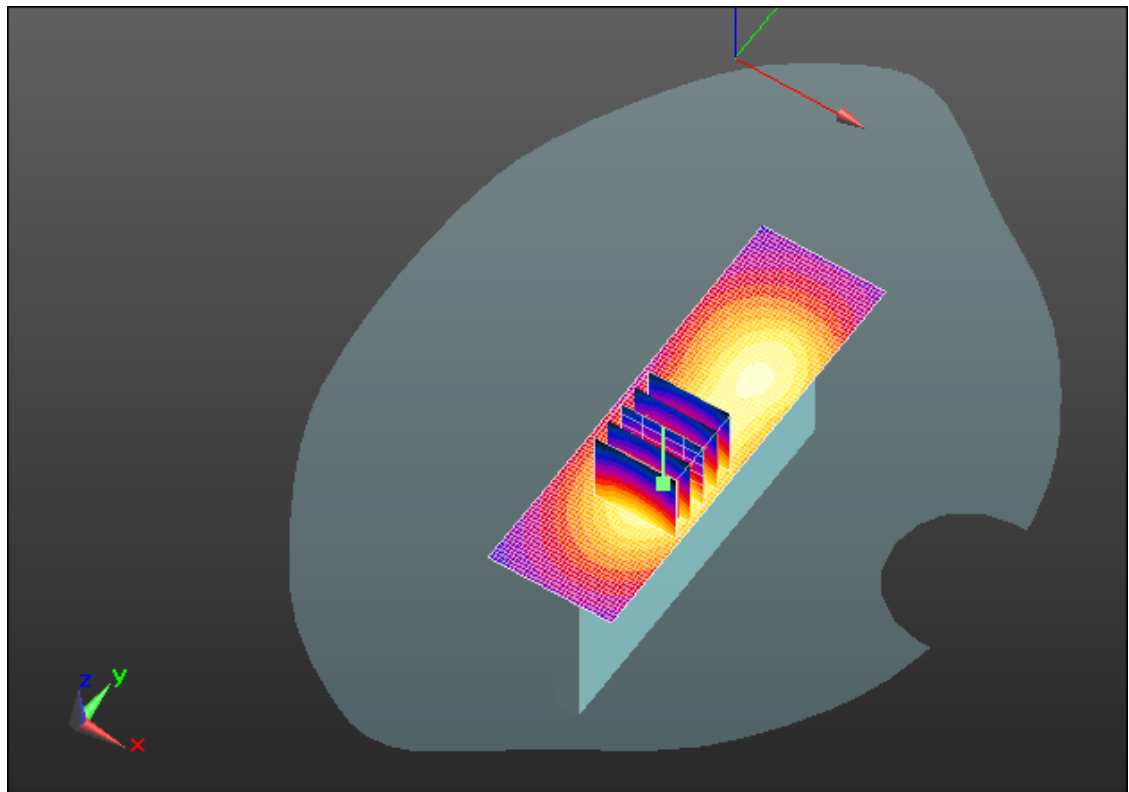
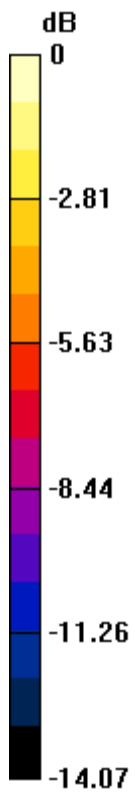
Author Data  
**Andrew Becker**

Dates of Test  
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0 dB = 0.220mW/g = -13.15 dB mW/g

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Date/Time: 7/30/2012 9:51:36 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Bottom\_UMTS\_Band\_II\_mid\_chan\_amb\_temp\_23.  
2\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A41842F**

Communication System: WCDMA FDD II; Frequency: 1880 MHz  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.533$  mho/m;  $\epsilon_r = 50.995$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (41x61x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (interpolated) = 1.023 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 = 24.088 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 1.2500  
**SAR(1 g) = 0.742 mW/g; SAR(10 g) = 0.398 mW/g**  
Maximum value of SAR (measured) = 0.917 mW/g

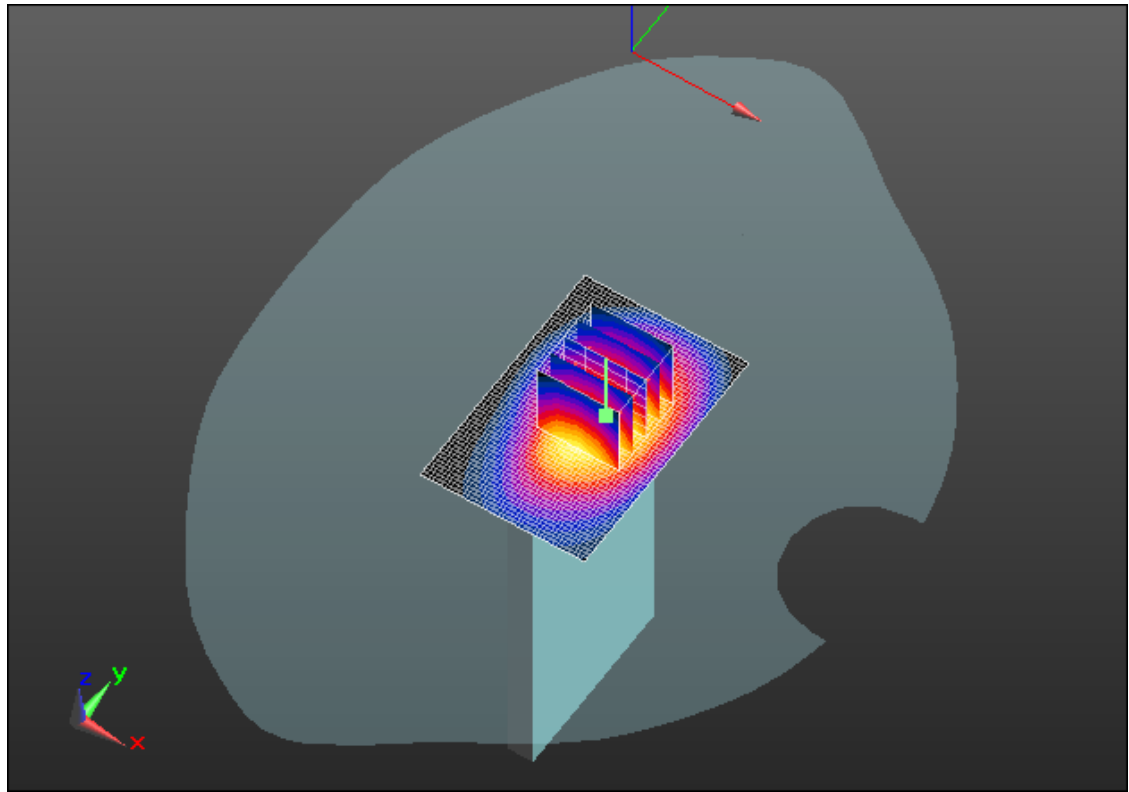
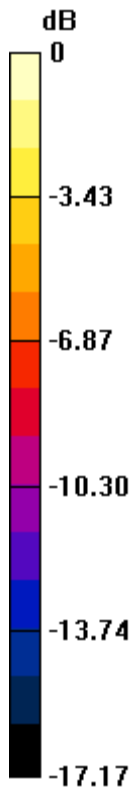
Author Data  
**Andrew Becker**

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0 dB = 0.920mW/g = -0.72 dB mW/g

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Date/Time: 7/12/2012 9:08:06 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_802.11b\_high\_chan\_amb\_temp\_23.5C\_liq\_t  
emp\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: 802.11 b (2450); Frequency: 2462 MHz  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.979$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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
- DASYS 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) = 0.336 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 = 6.325 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.4640

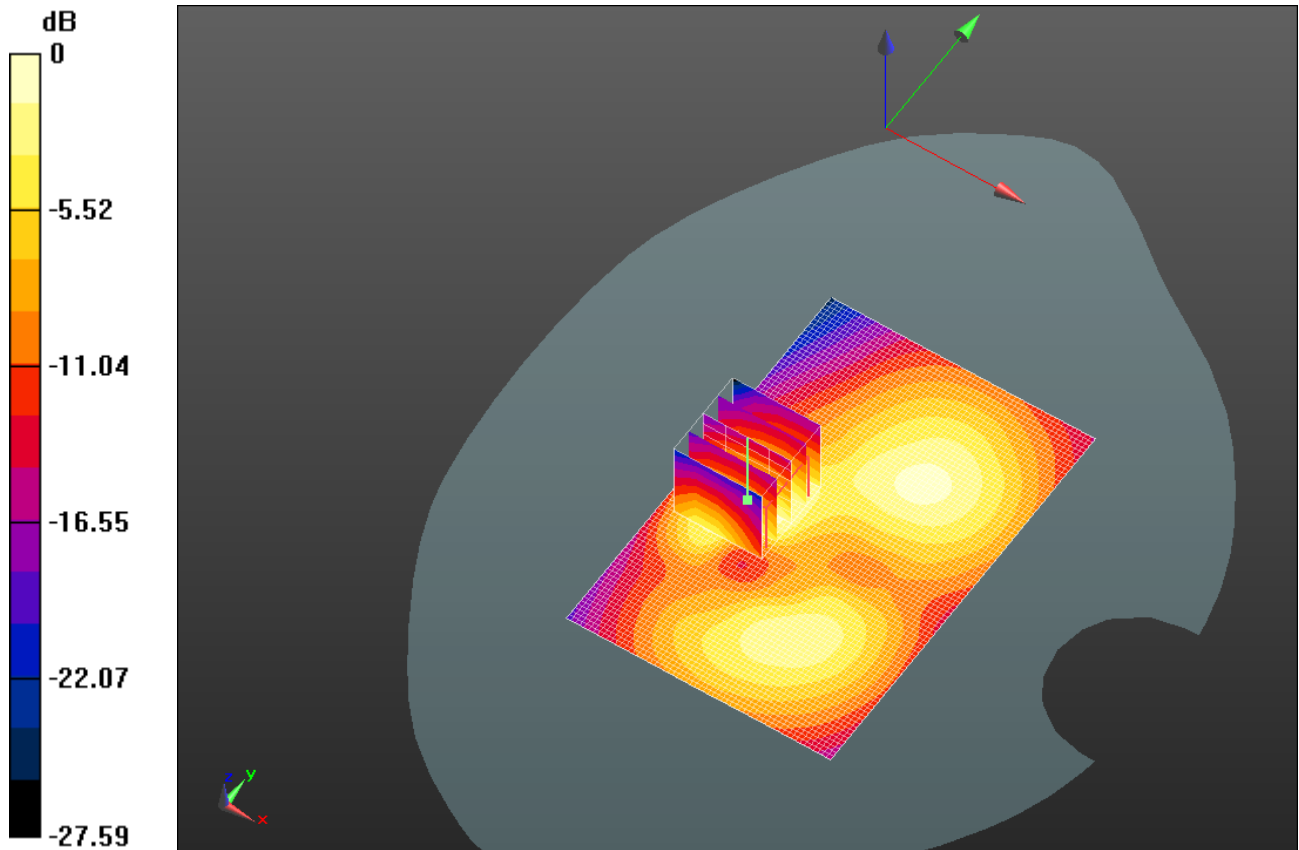
**SAR(1 g) = 0.232 mW/g; SAR(10 g) = 0.114 mW/g**




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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.294 mW/g



0 dB = 0.290mW/g = -10.75 dB mW/g

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Date/Time: 7/12/2012 9:50:56 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Front\_802.11b\_high\_chan\_amb\_temp\_23.4C\_liq\_t  
emp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: 802.11 b (2450); Frequency: 2462 MHz  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.979$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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
- DASYS 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) = 0.076 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 = 1.918 V/m; Power Drift = 0.31 dB

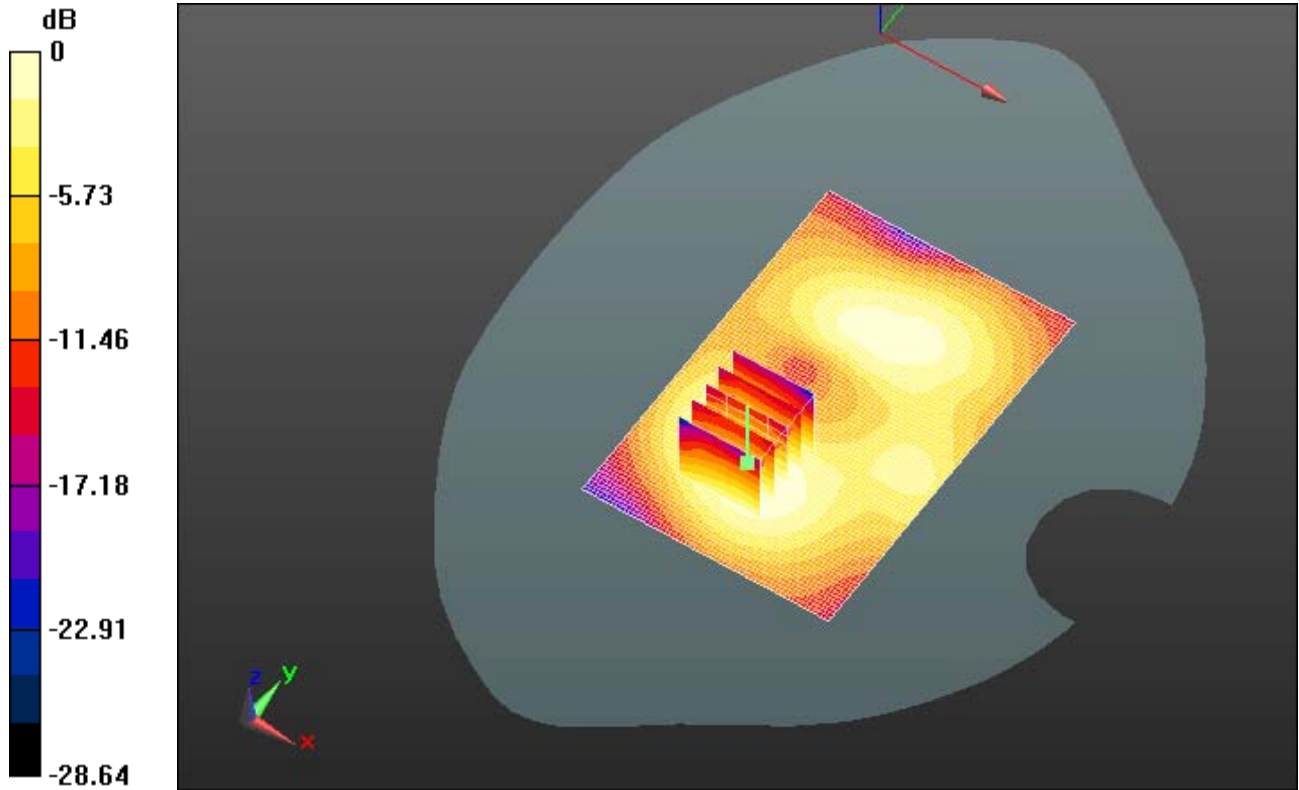
Peak SAR (extrapolated) = 0.1000

**SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.034 mW/g**


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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.068 mW/g



0 dB = 0.070mW/g = -23.10 dB mW/g

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Date/Time: 7/12/2012 1:10:31 PM

Test Laboratory: RIM Testing Services

**MHS\_Right\_802.11b\_high\_chan\_amb\_temp\_23.2C\_liq\_temp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

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

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.979$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.093 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 = 4.053 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.1330

**SAR(1 g) = 0.072 mW/g; SAR(10 g) = 0.040 mW/g**

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

Maximum value of SAR (measured) = 0.088 mW/g

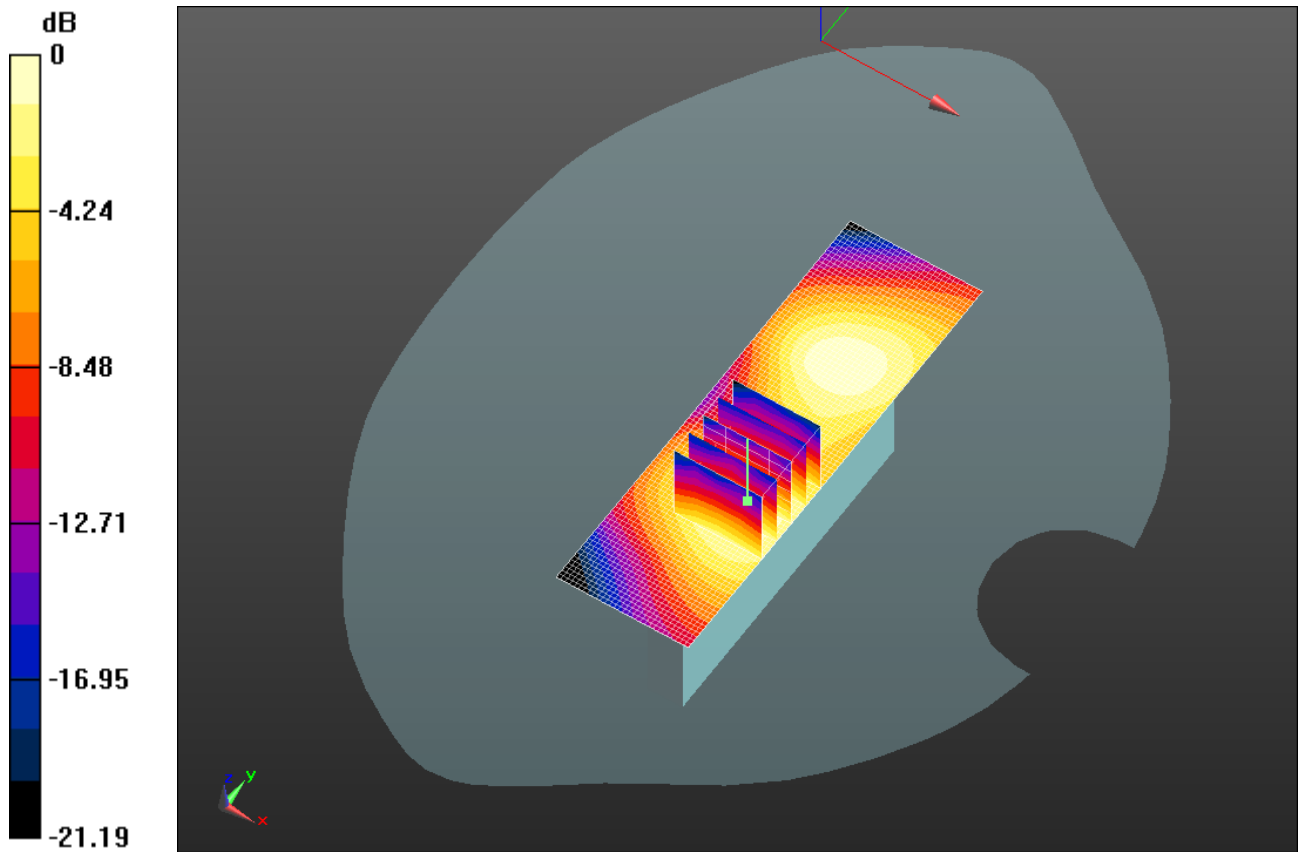
Author Data  
**Andrew Becker**

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**L6ARFE70UW**

IC ID  
**2503A-RFE70UW**



0 dB = 0.090mW/g = -20.92 dB mW/g

### Z axis plot for the worst case body configuration

