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APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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Date/Time: 6/7/2011 5:53:29 PM, Date/Time: 6/7/2011 6:00:43 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_low_chan_amb_temp_23.5_liq_temp_2 2.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 279CCF51

Communication System: GPRS 850; Communication System Band: GPRS 850;
Frequency: 824.2 MHz; Communication System PAR: 6.232 dB
Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53.791$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.775 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:

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

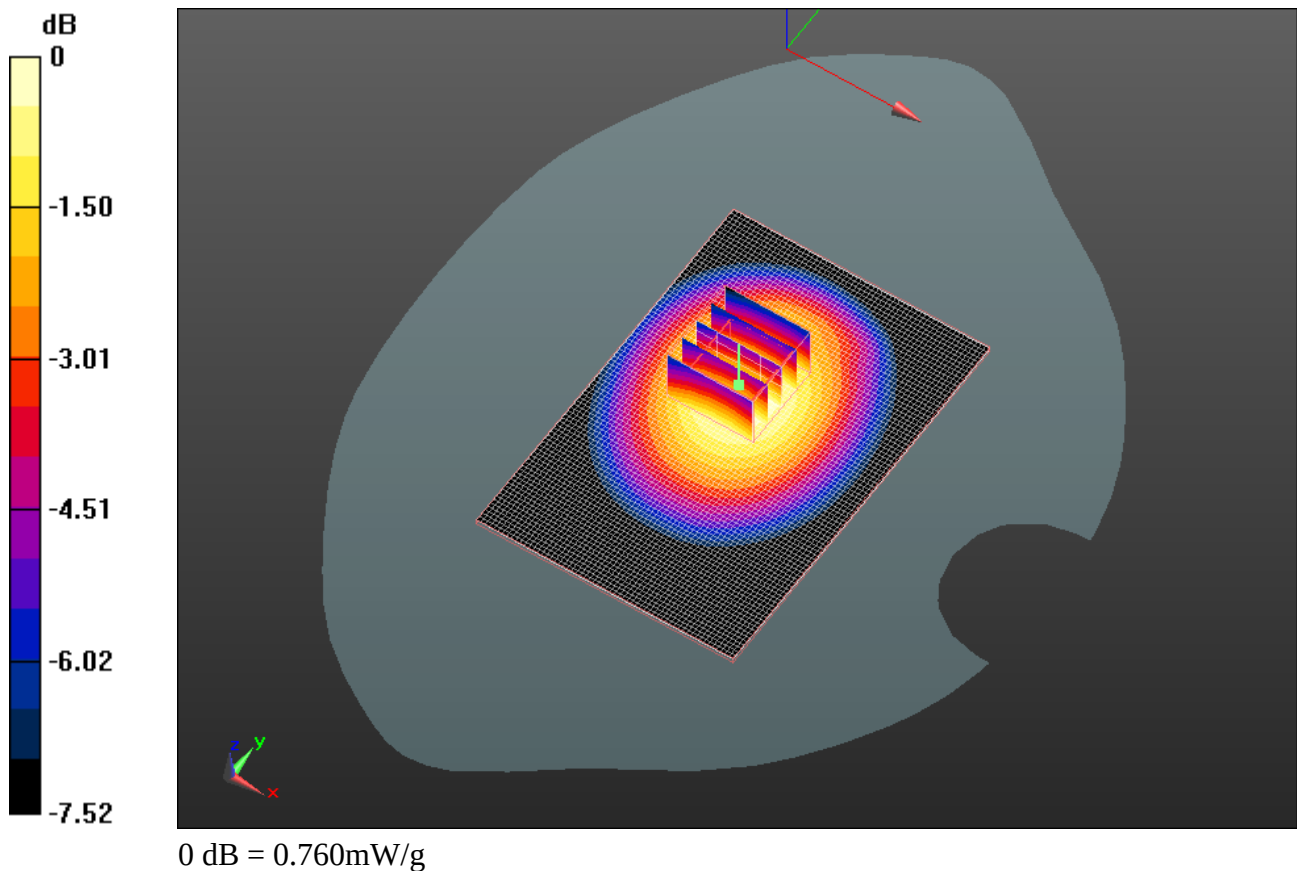
Reference Value = 26.473 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.956 W/kg

SAR(1 g) = 0.725 mW/g; SAR(10 g) = 0.520 mW/g

Maximum value of SAR (measured) = 0.765 mW/g

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Date/Time: 6/7/2011 5:33:28 PM, Date/Time: 6/7/2011 5:40:45 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_mid_chan_amb_temp_23.5_liq_temp_2 2.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 279CCF51

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

DASY5 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.084 mW/g

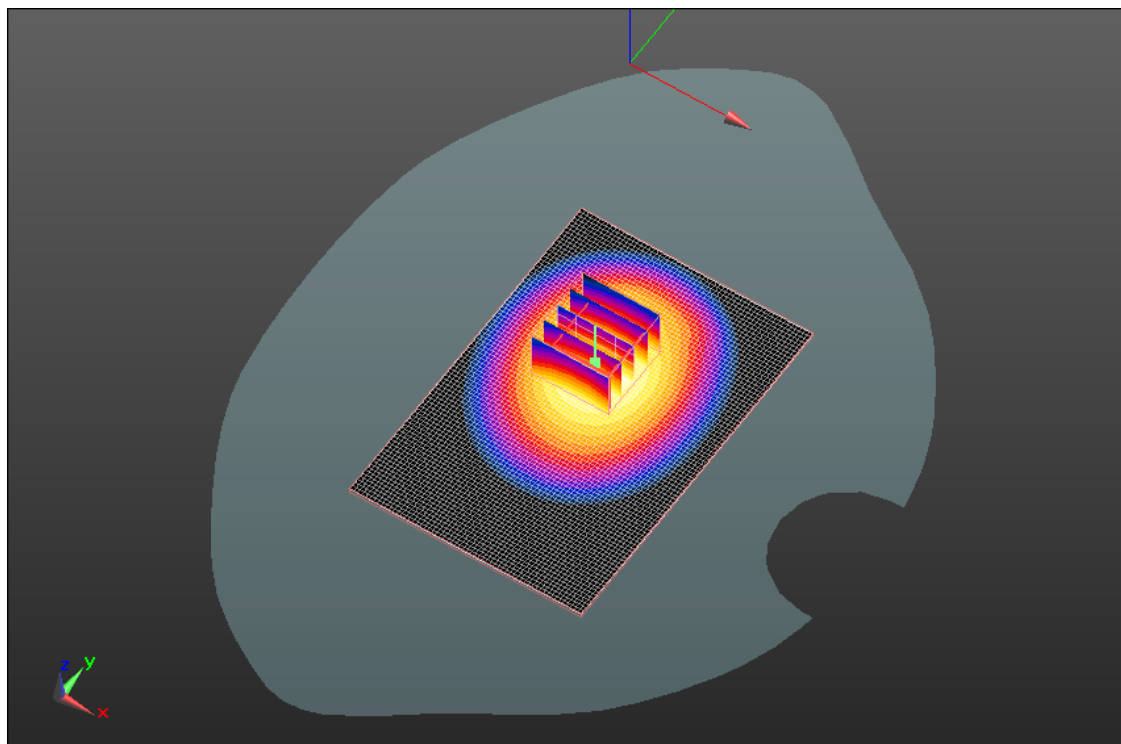
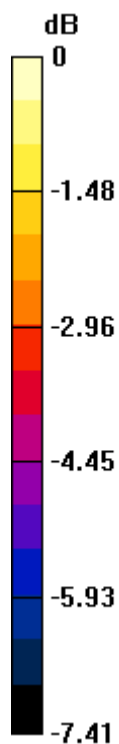
Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.091 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.327 W/kg
SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.727 mW/g

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

Maximum value of SAR (measured) = 1.070 mW/g

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0 dB = 1.070mW/g

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Date/Time: 6/7/2011 6:06:59 PM, Date/Time: 6/7/2011 6:14:11 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_high_chan_amb_temp_23.6_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 279CCF51

Communication System: GPRS 850; Communication System Band: GPRS 850;
Frequency: 848.8 MHz; Communication System PAR: 6.232 dB
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 1.004 \text{ mho/m}$; $\epsilon_r = 53.541$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.129 mW/g

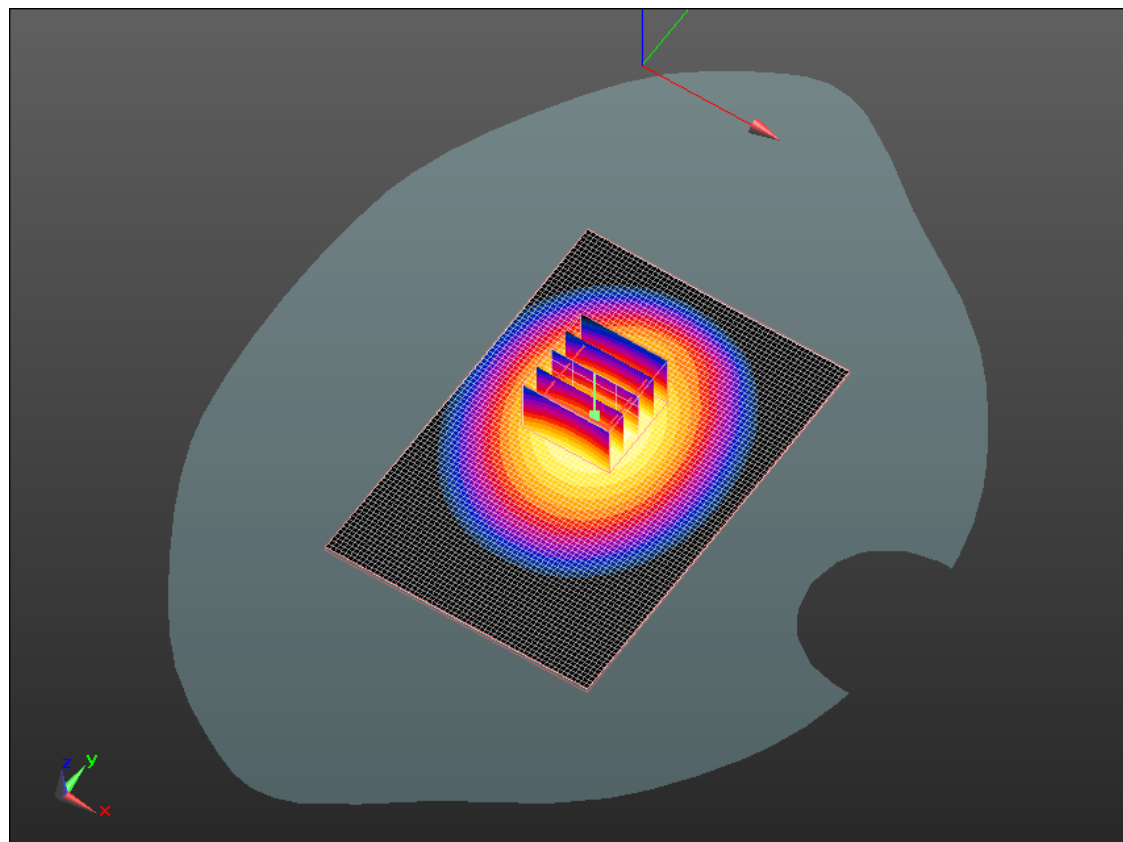
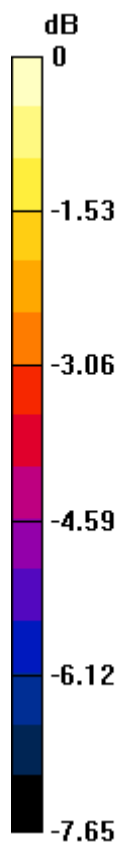
Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 31.961 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.421 W/kg
SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.757 mW/g

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

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

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0 dB = 1.130mW/g

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Date/Time: 6/7/2011 6:23:21 PM, Date/Time: 6/7/2011 6:30:35 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_GPRS850_mid_chan_amb_temp_23.3_liq_temp_22.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 279CCF51

Communication System: GPRS 850; Communication System Band: GPRS 850;
Frequency: 836.8 MHz; Communication System PAR: 6.232 dB
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.994 \text{ mho/m}$; $\epsilon_r = 53.676$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.942 mW/g

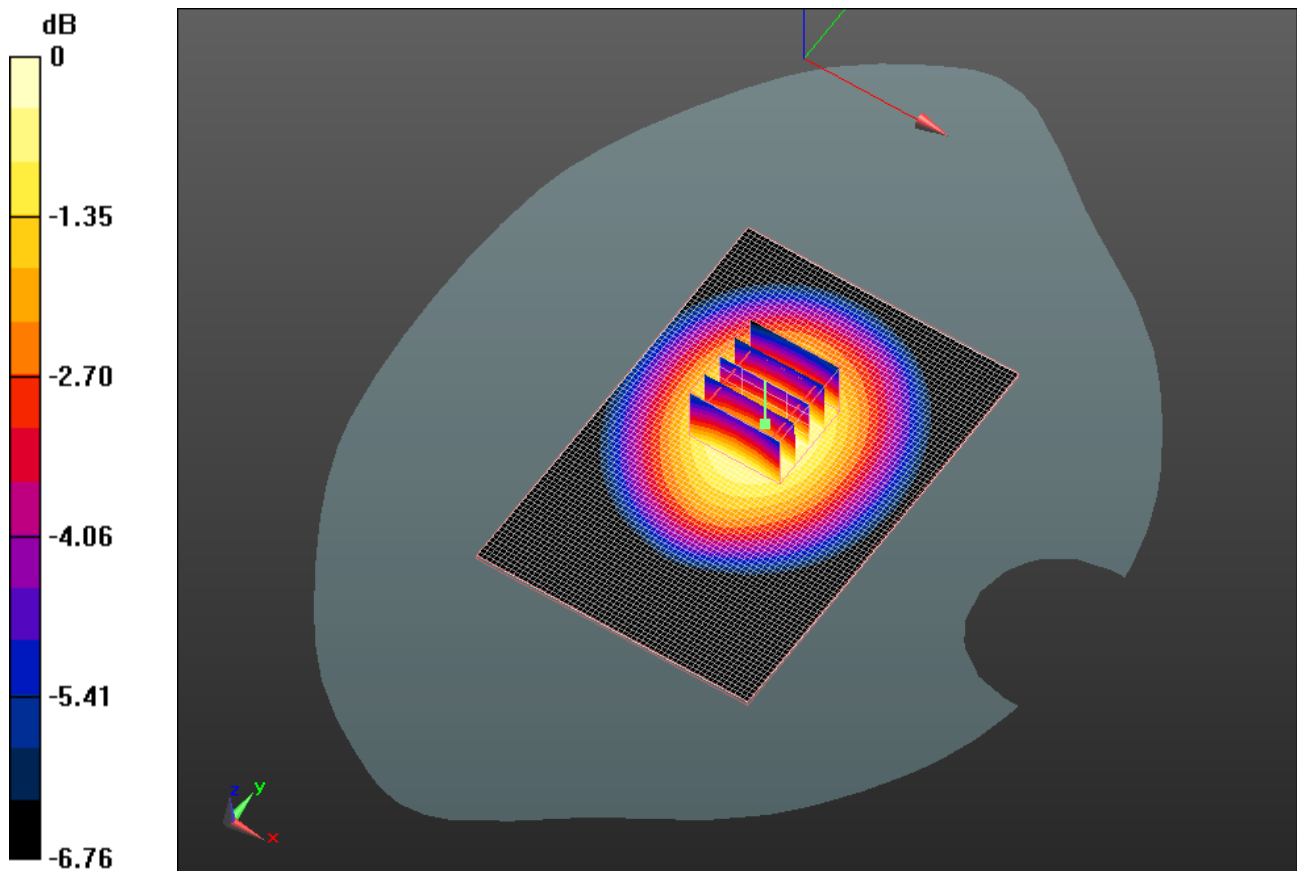
Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 29.903 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.115 W/kg
SAR(1 g) = 0.879 mW/g; SAR(10 g) = 0.645 mW/g

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

Maximum value of SAR (measured) = 0.932 mW/g

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0 dB = 0.930mW/g

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Date/Time: 6/7/2011 6:43:33 PM, Date/Time: 6/7/2011 6:50:46 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_GPRS850_mid_chan_amb_temp_23.1_liq_temp_2
1.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 279CCF51

Communication System: GPRS 850; Communication System Band: GPRS 850;
Frequency: 836.8 MHz; Communication System PAR: 6.232 dB
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.994 \text{ mho/m}$; $\epsilon_r = 53.676$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.751 mW/g

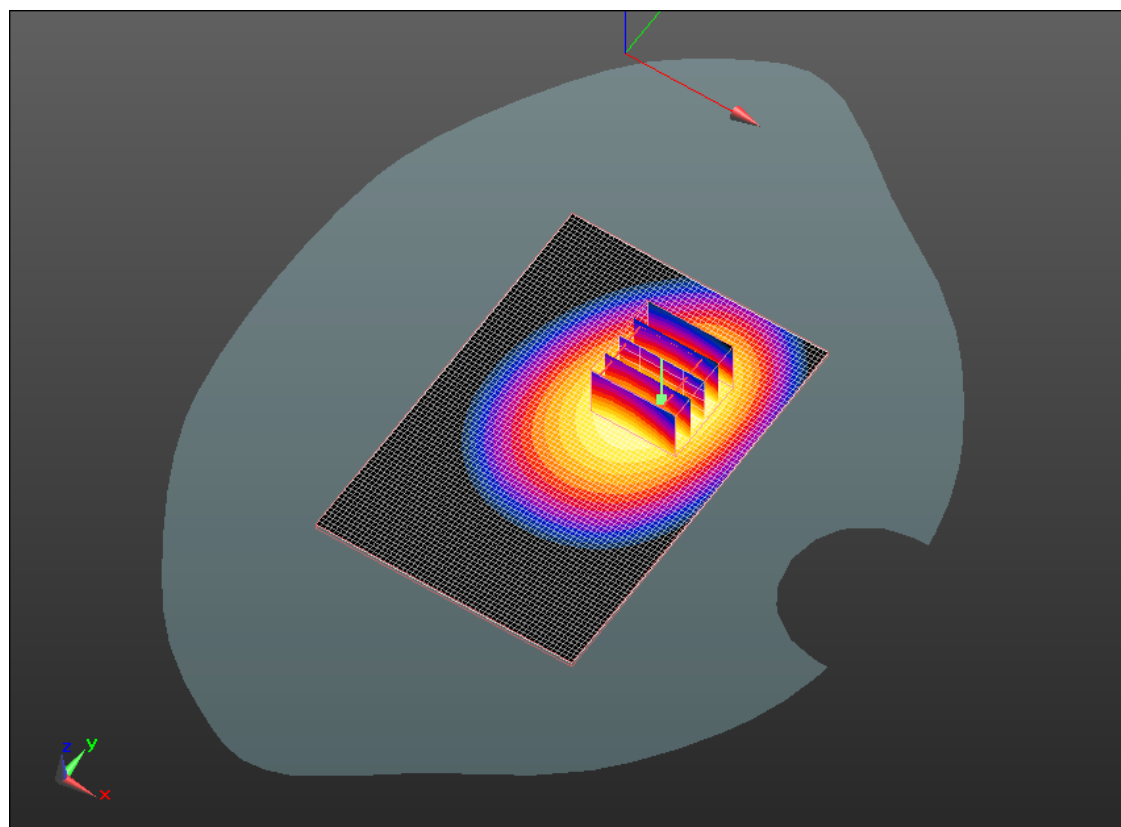
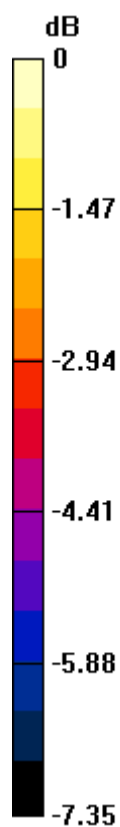
Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.394 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.930 W/kg
SAR(1 g) = 0.701 mW/g; SAR(10 g) = 0.504 mW/g

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

Maximum value of SAR (measured) = 0.752 mW/g

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0 dB = 0.750mW/g

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Date/Time: 6/7/2011 7:00:23 PM, Date/Time: 6/7/2011 7:07:37 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_Headset_GPRS850_high_chan_amb_temp_23.1_I
iq_temp_22.0C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 279CCF51

Communication System: GPRS 850; Communication System Band: GPRS 850;
Frequency: 848.8 MHz; Communication System PAR: 6.232 dB
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 1.004 \text{ mho/m}$; $\epsilon_r = 53.541$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.816 mW/g

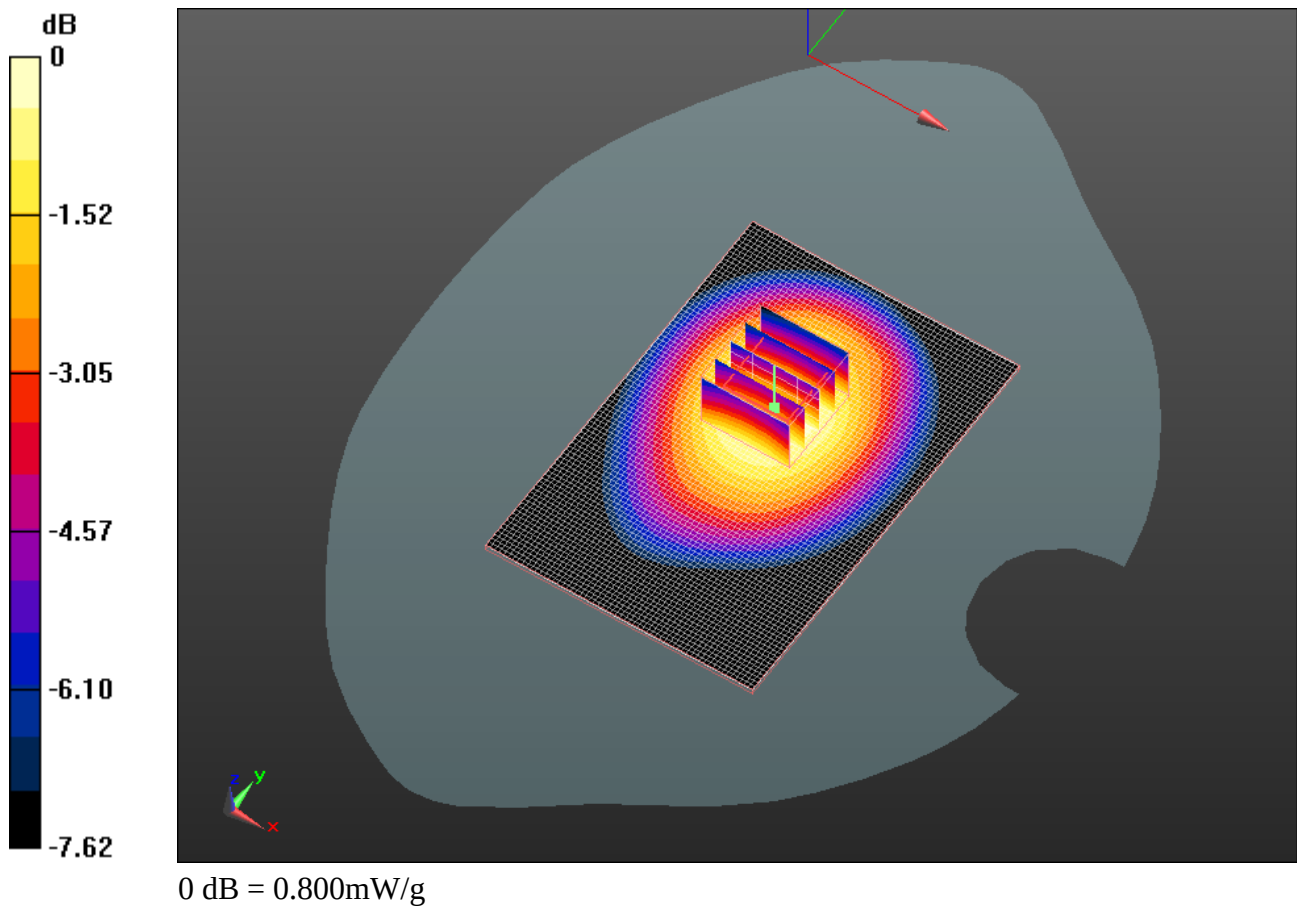
Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 26.663 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 1.016 W/kg
SAR(1 g) = 0.753 mW/g; SAR(10 g) = 0.538 mW/g

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

Maximum value of SAR (measured) = 0.803 mW/g

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Date/Time: 5/3/2011 12:54:51 PM, Date/Time: 5/3/2011 1:01:44 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GSM1900_mid_chan_amb_temp_23.2_liq_temp_2 2.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27269EDE

Communication System: GSM 1900; Frequency: 1880 MHz; Communication System

PAR: 9.191 dB

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.494 \text{ mho/m}$; $\epsilon_r = 51.549$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.262 mW/g

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

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

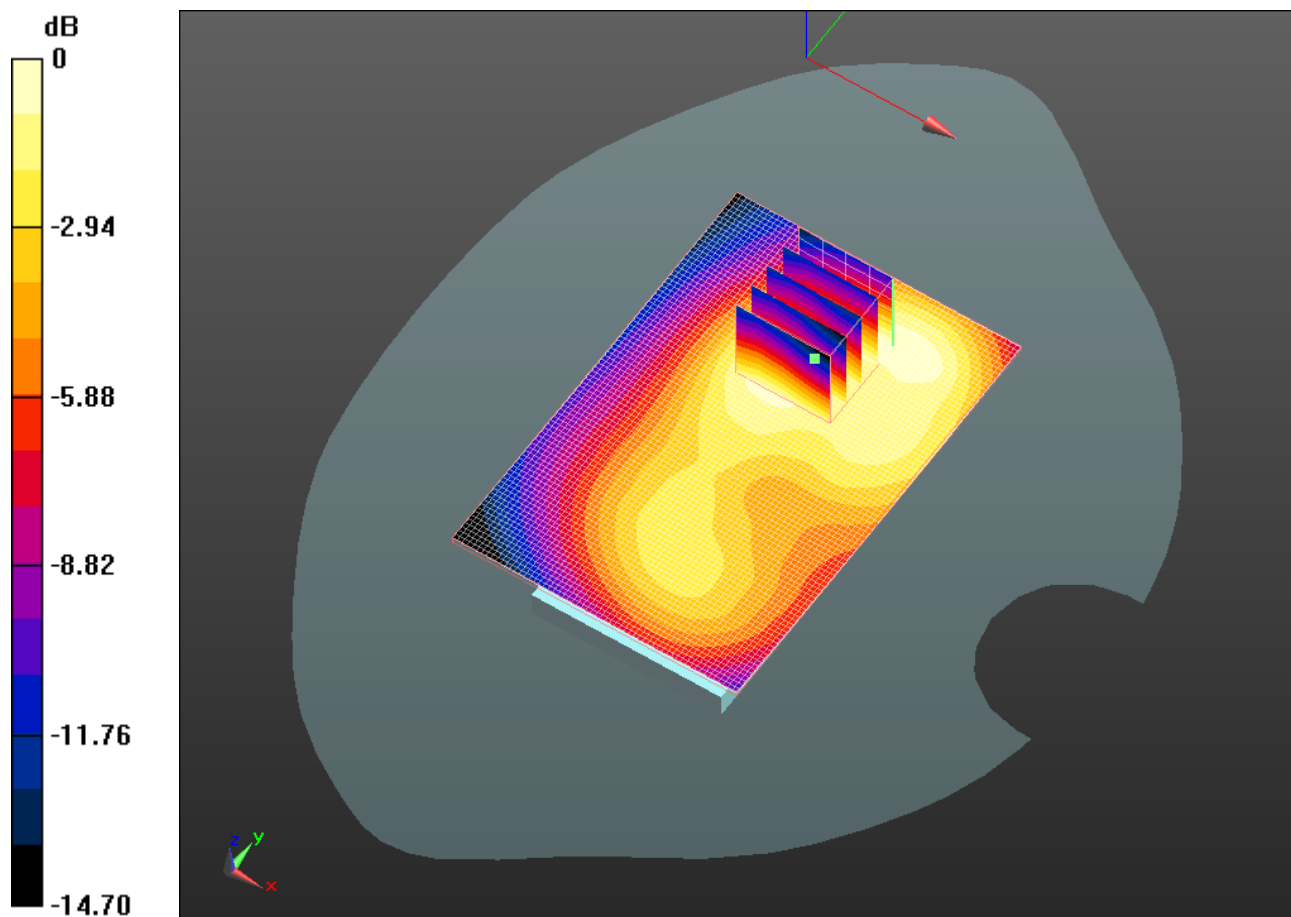
Reference Value = 8.890 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.356 W/kg

SAR(1 g) = 0.237 mW/g; SAR(10 g) = 0.149 mW/g

Maximum value of SAR (measured) = 0.256 mW/g

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0 dB = 0.260mW/g

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Date/Time: 5/3/2011 1:38:58 PM, Date/Time: 5/3/2011 1:45:52 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_GSM1900_mid_chan_amb_temp_23.1_liq_temp_22.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27269EDE

Communication System: GSM 1900; Frequency: 1880 MHz; Communication System

PAR: 9.191 dB

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.494 \text{ mho/m}$; $\epsilon_r = 51.549$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

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

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.202 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:

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

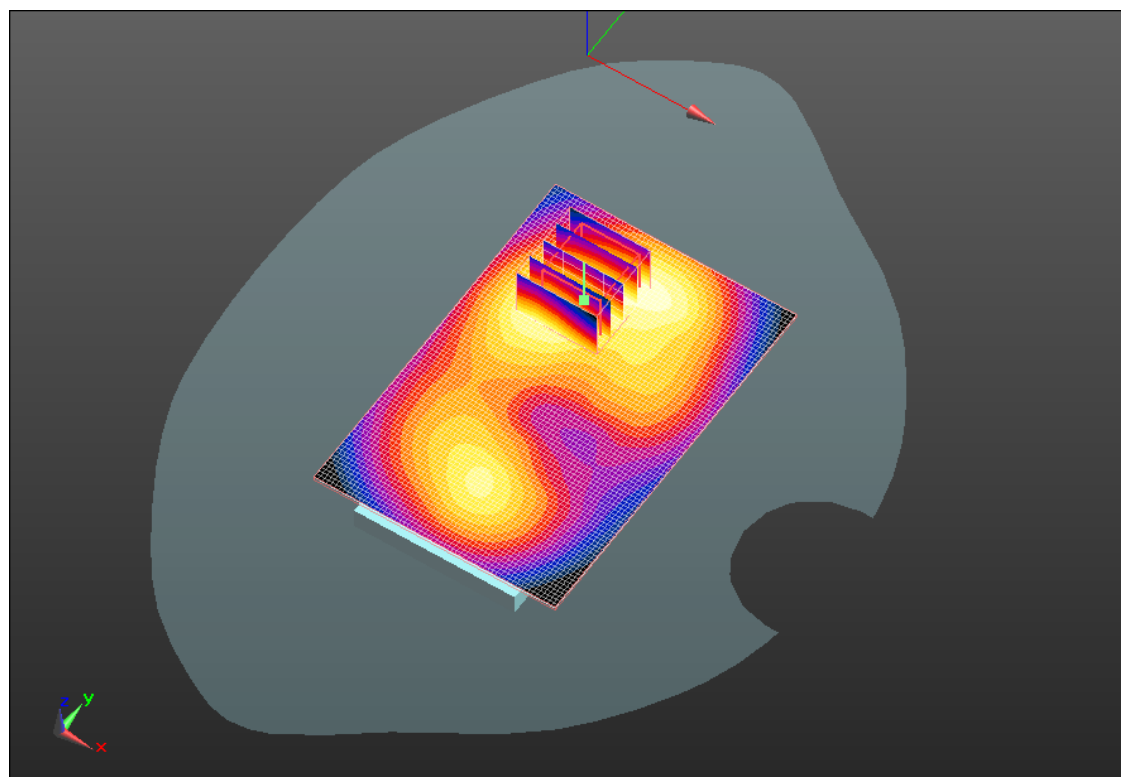
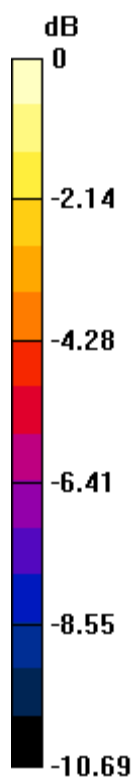
Reference Value = 5.974 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.268 W/kg

SAR(1 g) = 0.185 mW/g; SAR(10 g) = 0.119 mW/g

Maximum value of SAR (measured) = 0.198 mW/g

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0 dB = 0.200mW/g

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Date/Time: 5/3/2011 1:22:38 PM, Date/Time: 5/3/2011 1:29:31 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_GSM1900_mid_chan_amb_temp_23.2_liq_temp_2 2.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27269EDE

Communication System: GSM 1900; Frequency: 1880 MHz; Communication System

PAR: 9.191 dB

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.494 \text{ mho/m}$; $\epsilon_r = 51.549$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

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

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.235 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:

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

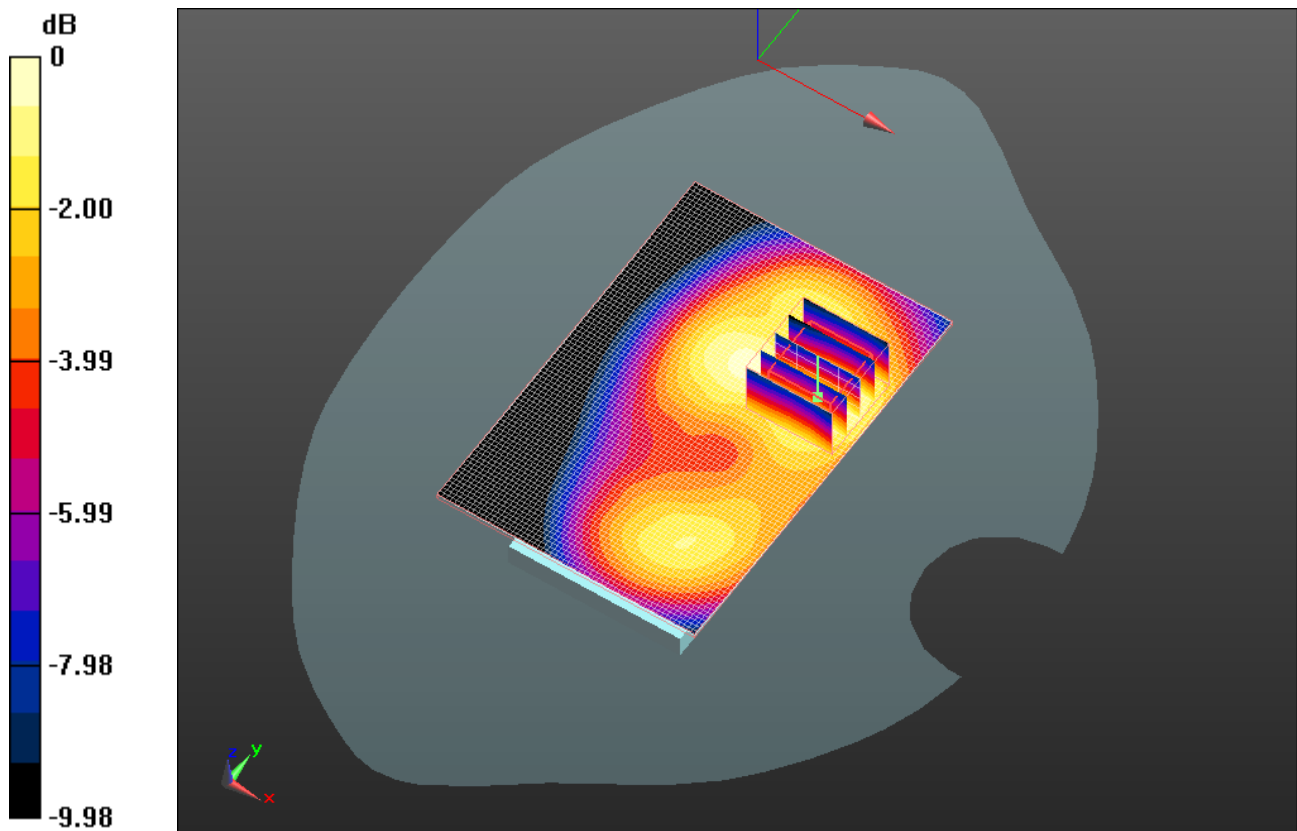
Reference Value = 7.800 V/m; Power Drift = 0.0085 dB

Peak SAR (extrapolated) = 0.324 W/kg

SAR(1 g) = 0.214 mW/g; SAR(10 g) = 0.131 mW/g

Maximum value of SAR (measured) = 0.234 mW/g

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0 dB = 0.230mW/g

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Date/Time: 5/3/2011 1:52:40 PM, Date/Time: 5/3/2011 1:59:36 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_Headset_GSM1900_mid_chan_amb_temp_23.1_li
q_temp_22.2C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27269EDE

Communication System: GSM 1900; Frequency: 1880 MHz; Communication System

PAR: 9.191 dB

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.494 \text{ mho/m}$; $\epsilon_r = 51.549$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

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

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.336 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:

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

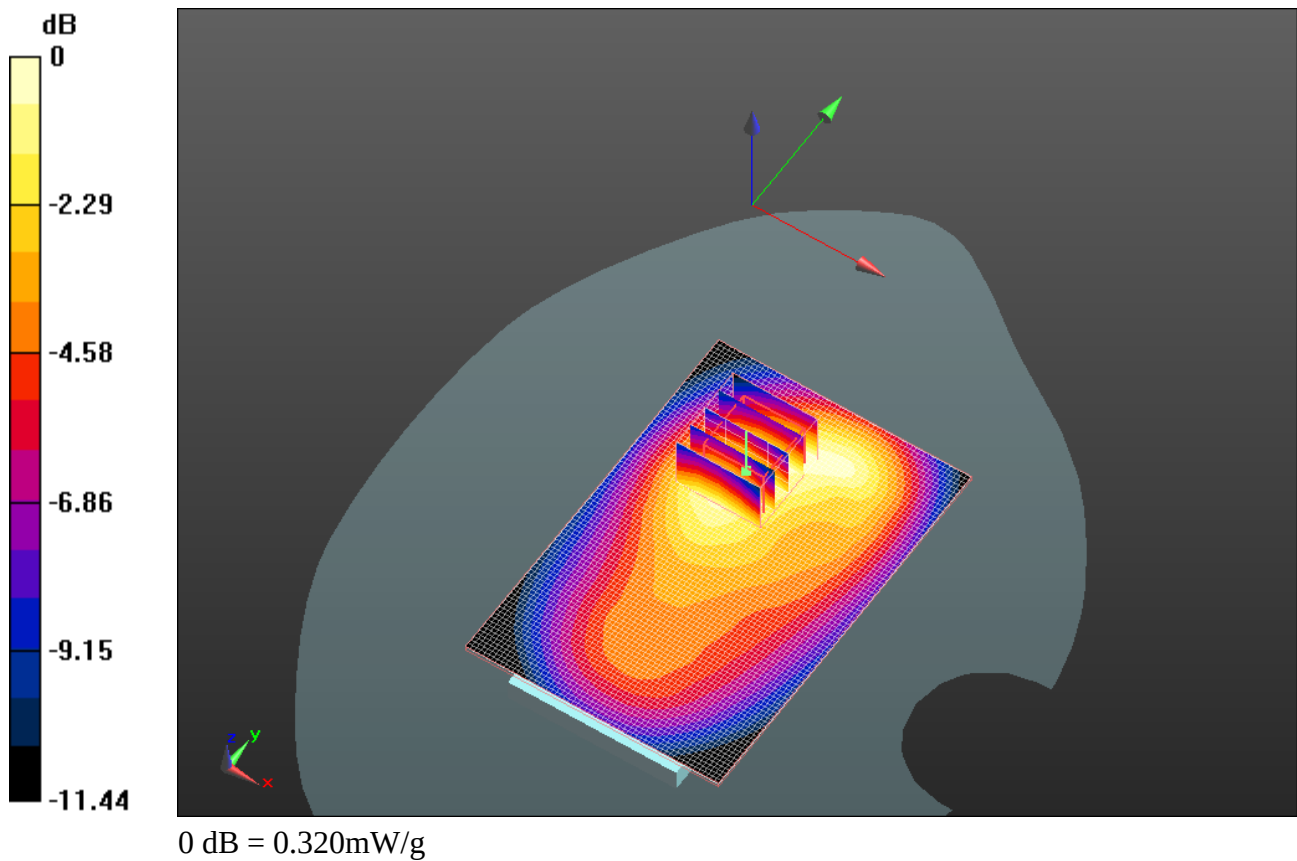
Reference Value = 10.175 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.431 W/kg

SAR(1 g) = 0.292 mW/g; SAR(10 g) = 0.183 mW/g

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

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Author Data Andrew Becker	Dates of Test Apr 13 – July 11, 2011	Test Report No RTS-2579-1106-34B	FCC ID: L6ARDX70UW	IC ID 2503A-RDX70UW

Date/Time: 5/6/2011 12:13:34 PM, Date/Time: 5/6/2011 12:43:29 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Headset_GPRS1900_mid_chan_amb_temp_23.3_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27269EDE

Communication System: GPRS 1900; Frequency: 1880 MHz; Communication System PAR: 6.232 dB

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.329 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

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

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

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

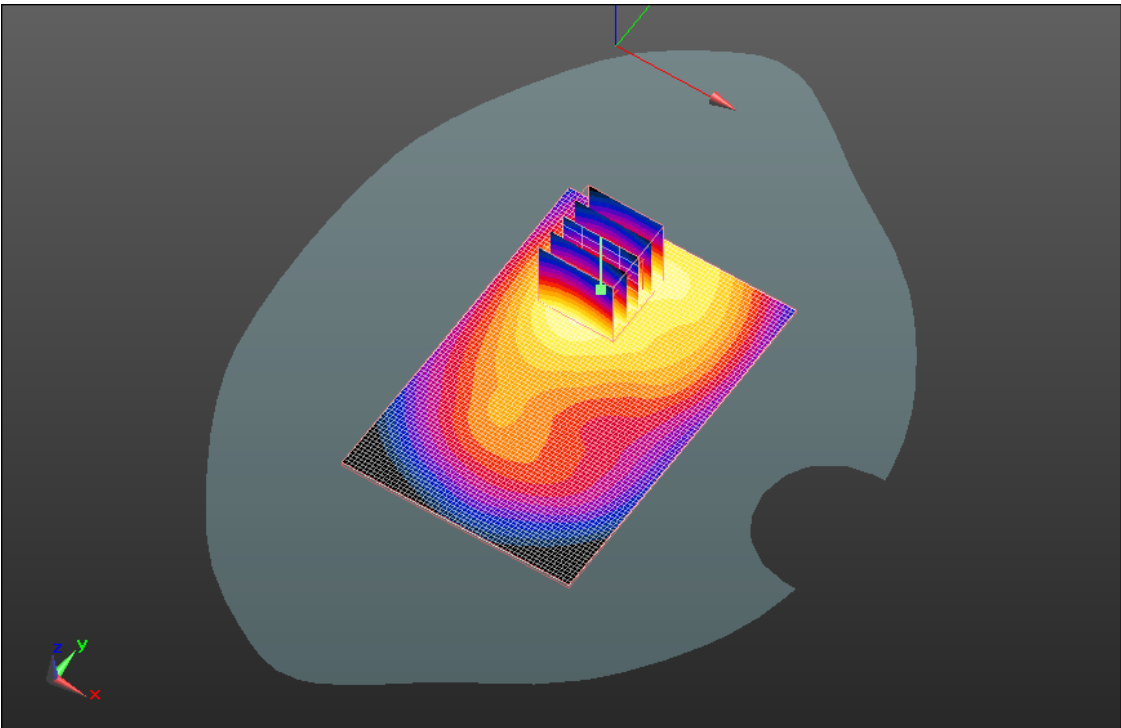
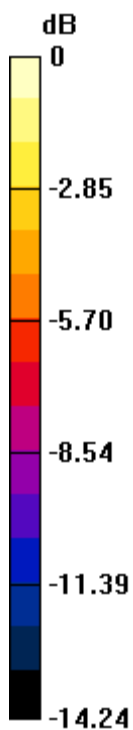
Reference Value = 8.763 V/m; Power Drift = 0.53 dB

Peak SAR (extrapolated) = 0.441 W/kg

SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.175 mW/g

Maximum value of SAR (measured) = 0.303 mW/g

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0 dB = 0.300mW/g

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Date/Time: 6/8/2011 10:08:42 PM, Date/Time: 6/8/2011 10:15:33 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Headset_GPRS1900_mid_chan_amb_temp_23.2_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 279CCF51

Communication System: GPRS 1900; Communication System Band: GPRS 1900;
Frequency: 1880 MHz; Communication System PAR: 6.232 dB
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.507 \text{ mho/m}$; $\epsilon_r = 50.934$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

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

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.352 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x5)/Cube 0:

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

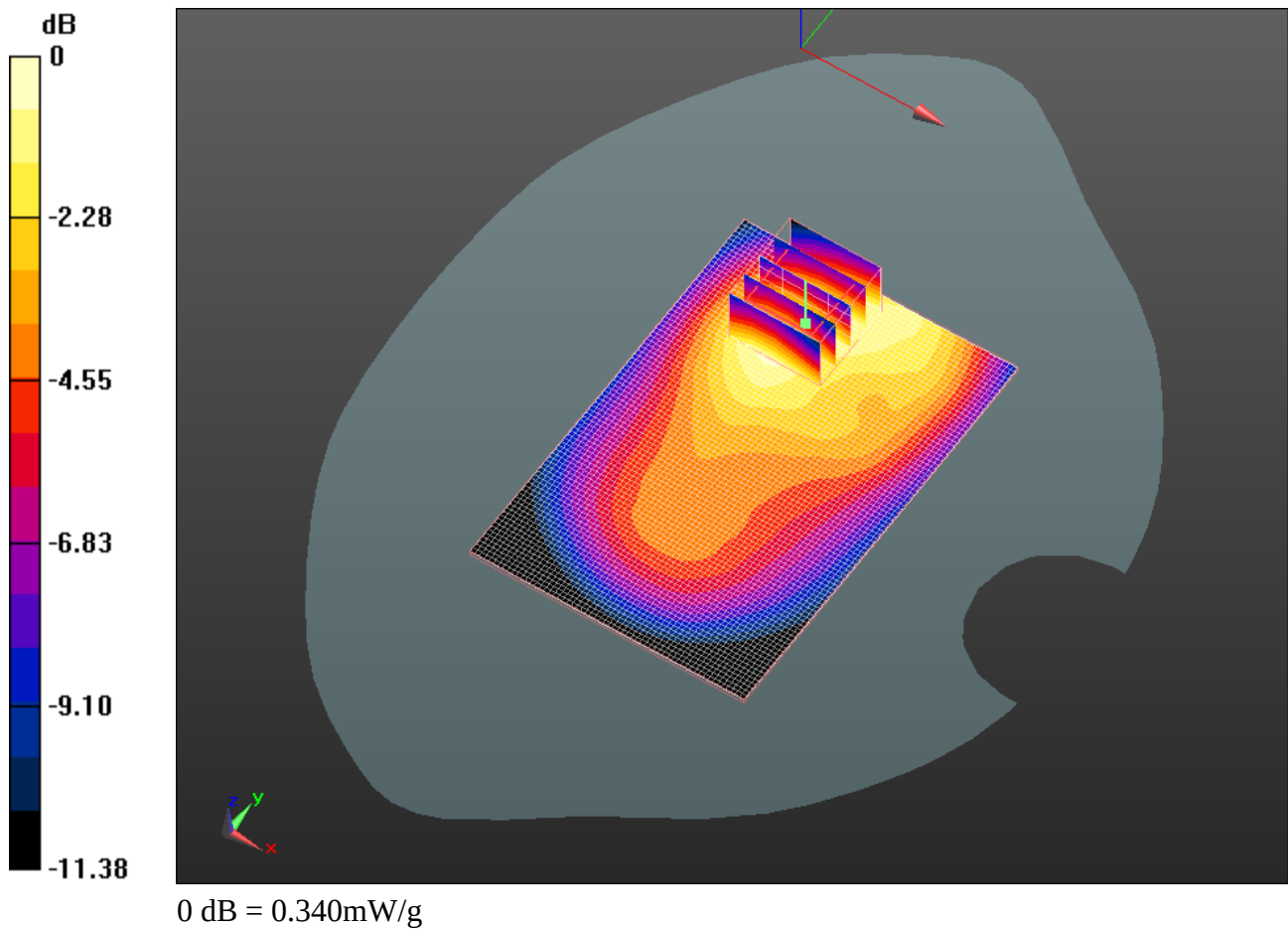
Reference Value = 10.055 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.461 W/kg

SAR(1 g) = 0.311 mW/g; SAR(10 g) = 0.194 mW/g

Maximum value of SAR (measured) = 0.339 mW/g

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Date/Time: 4/13/2011 7:50:30 PM, Date/Time: 4/13/2011 7:55:50 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_UMTS_band_IV_mid_chan_amb_temp_24.0_liq_temperatures_22.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27269EDE

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.351$ mho/m; $\epsilon_r = 52.572$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

Configuration/Touch position -/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.424 mW/g

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

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

Reference Value = 9.912 V/m; Power Drift = -0.03 dB

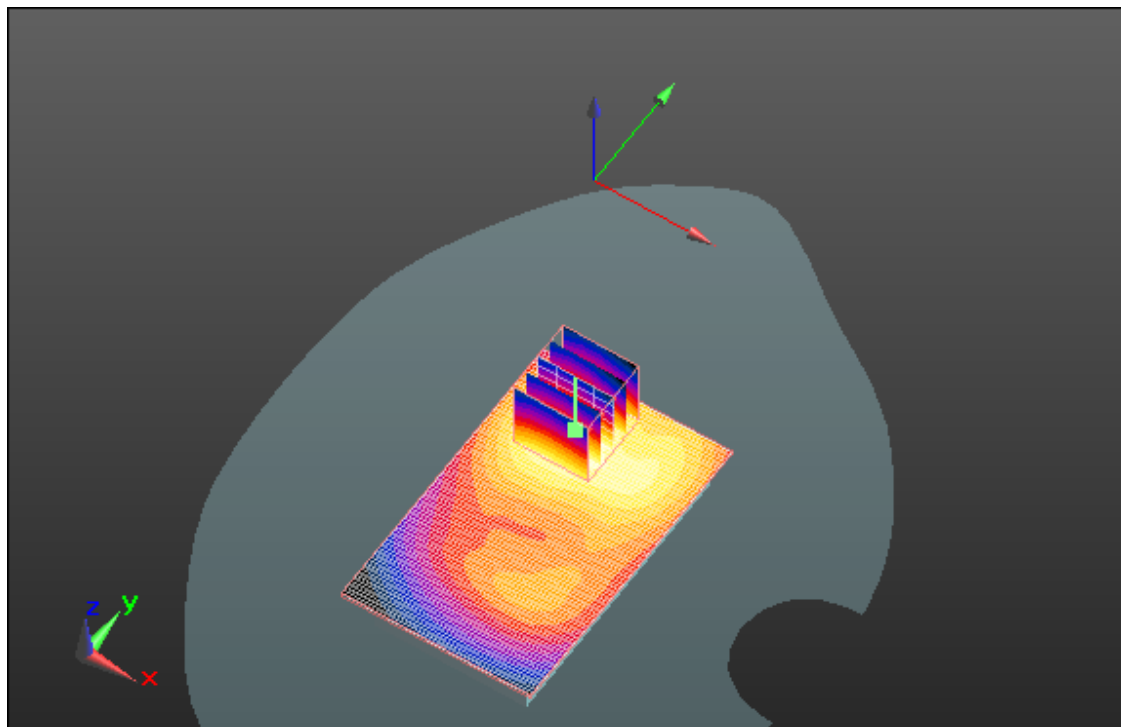
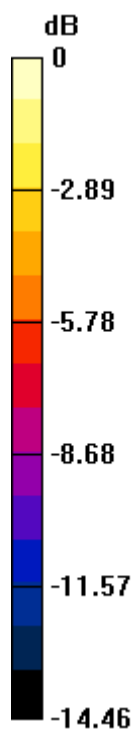
Peak SAR (extrapolated) = 0.575 W/kg

SAR(1 g) = 0.388 mW/g; SAR(10 g) = 0.244 mW/g

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

Maximum value of SAR (measured) = 0.418 mW/g

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0 dB = 0.420mW/g

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Date/Time: 4/13/2011 8:05:03 PM, Date/Time: 4/13/2011 8:10:24 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_UMTS_band_IV_mid_chan_amb_temp_24.1_liq_t emp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27269EDE

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.351$ mho/m; $\epsilon_r = 52.572$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (51x81x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.281 mW/g

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

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

Reference Value = 7.958 V/m; Power Drift = -0.05 dB

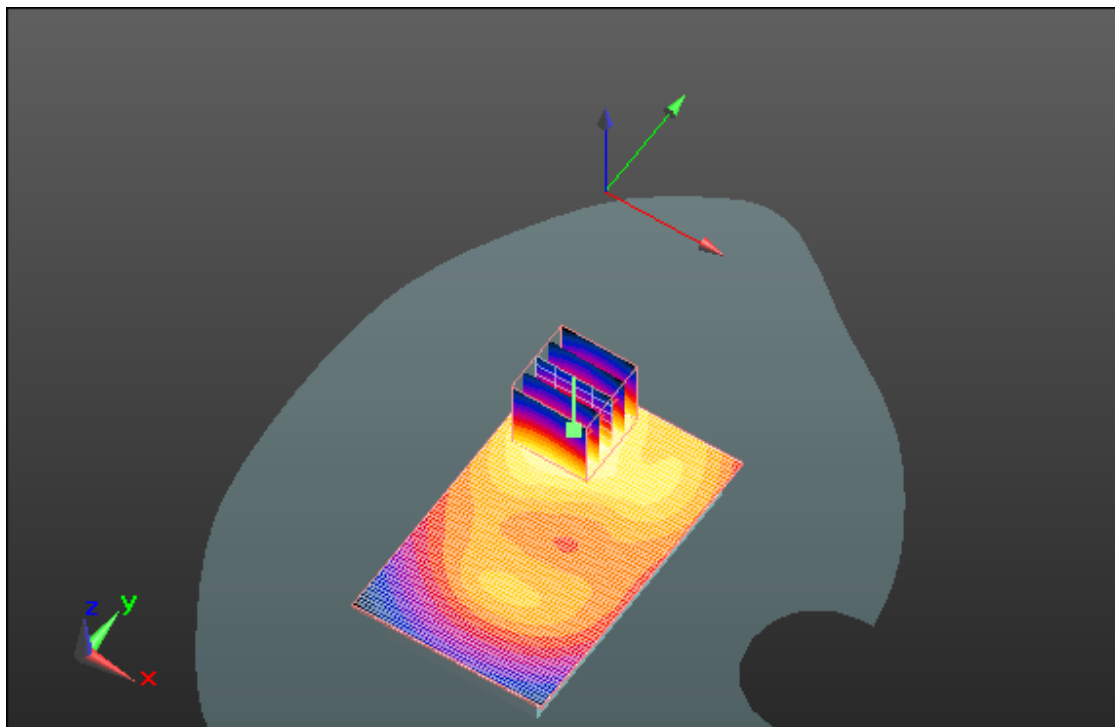
Peak SAR (extrapolated) = 0.379 W/kg

SAR(1 g) = 0.256 mW/g; SAR(10 g) = 0.162 mW/g

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

Maximum value of SAR (measured) = 0.278 mW/g

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0 dB = 0.280mW/g

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Date/Time: 4/13/2011 8:20:48 PM, Date/Time: 4/13/2011 8:26:10 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Front_UMTS_band_IV_mid_chan_amb_temp_24.1_liq_t
emp_22.6C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27269EDE

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Communication System PAR: 0 dB
Medium parameters used (interpolated): $f = 1732.6 \text{ MHz}$; $\sigma = 1.351 \text{ mho/m}$; $\epsilon_r = 52.572$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

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

Configuration/Touch position -/Area Scan (51x81x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.506 mW/g

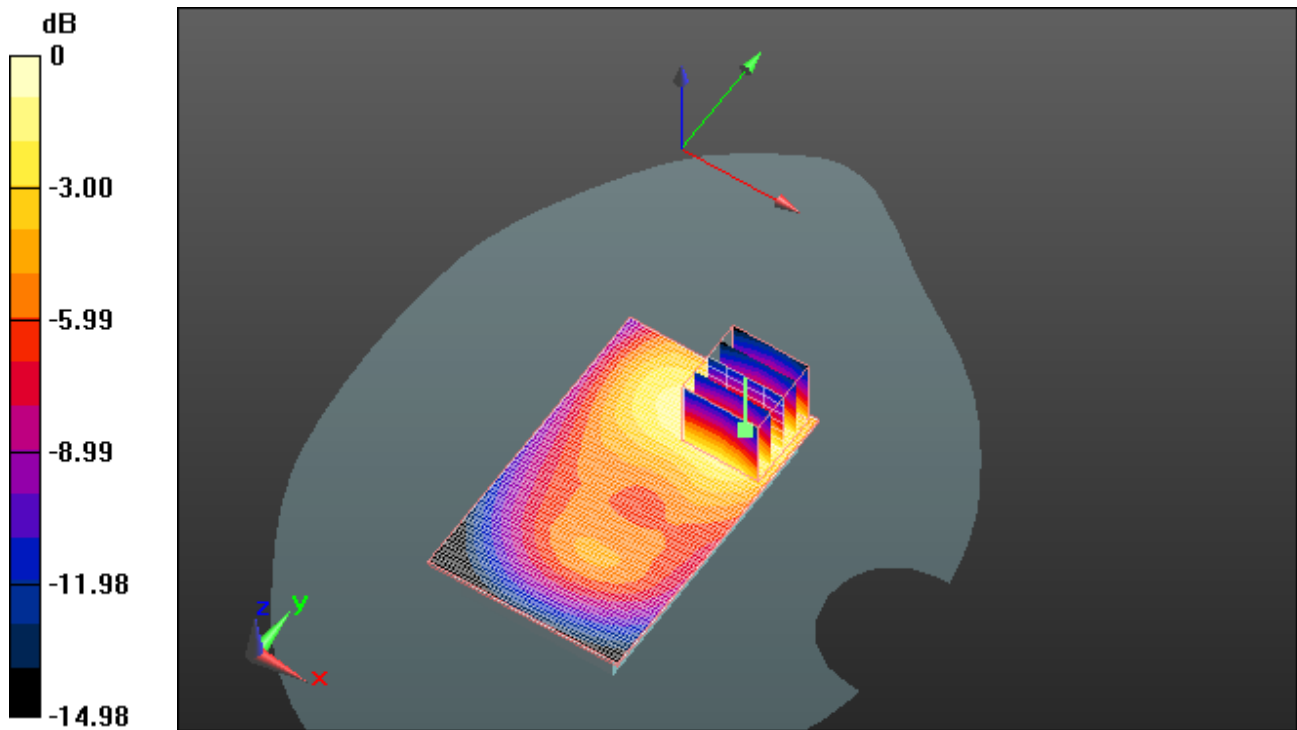
Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.058 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.721 W/kg
SAR(1 g) = 0.470 mW/g; SAR(10 g) = 0.286 mW/g

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

Maximum value of SAR (measured) = 0.514 mW/g

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0 dB = 0.510mW/g

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Date/Time: 4/13/2011 8:35:41 PM, Date/Time: 4/13/2011 8:40:59 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_Headset_UMTS_band_IV_mid_chan_amb_temp_24.0_liq_temp_22.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27269EDE

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Communication System PAR: 0 dB
Medium parameters used (interpolated): $f = 1732.6 \text{ MHz}$; $\sigma = 1.351 \text{ mho/m}$; $\epsilon_r = 52.572$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

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

Configuration/Touch position -/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.583 mW/g

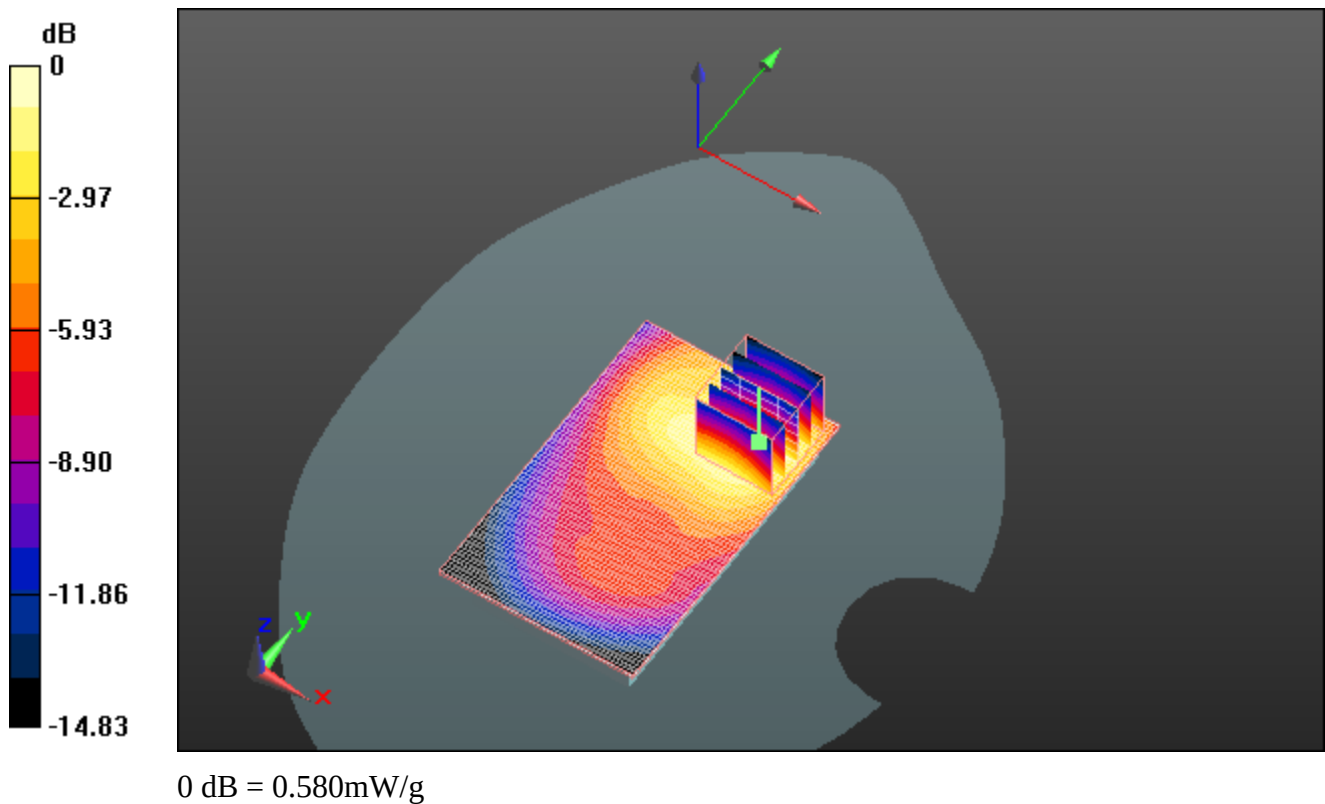
Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 11.536 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.821 W/kg
SAR(1 g) = 0.534 mW/g; SAR(10 g) = 0.324 mW/g

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

Maximum value of SAR (measured) = 0.577 mW/g

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Date/Time: 4/27/2011 6:26:47 PM, Date/Time: 4/27/2011 6:33:43 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_802.11b_low_chan_amb_temp_23.2_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27269EDE

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 50.261$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.162 mW/g

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

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

Reference Value = 3.844 V/m; Power Drift = 0.41 dB

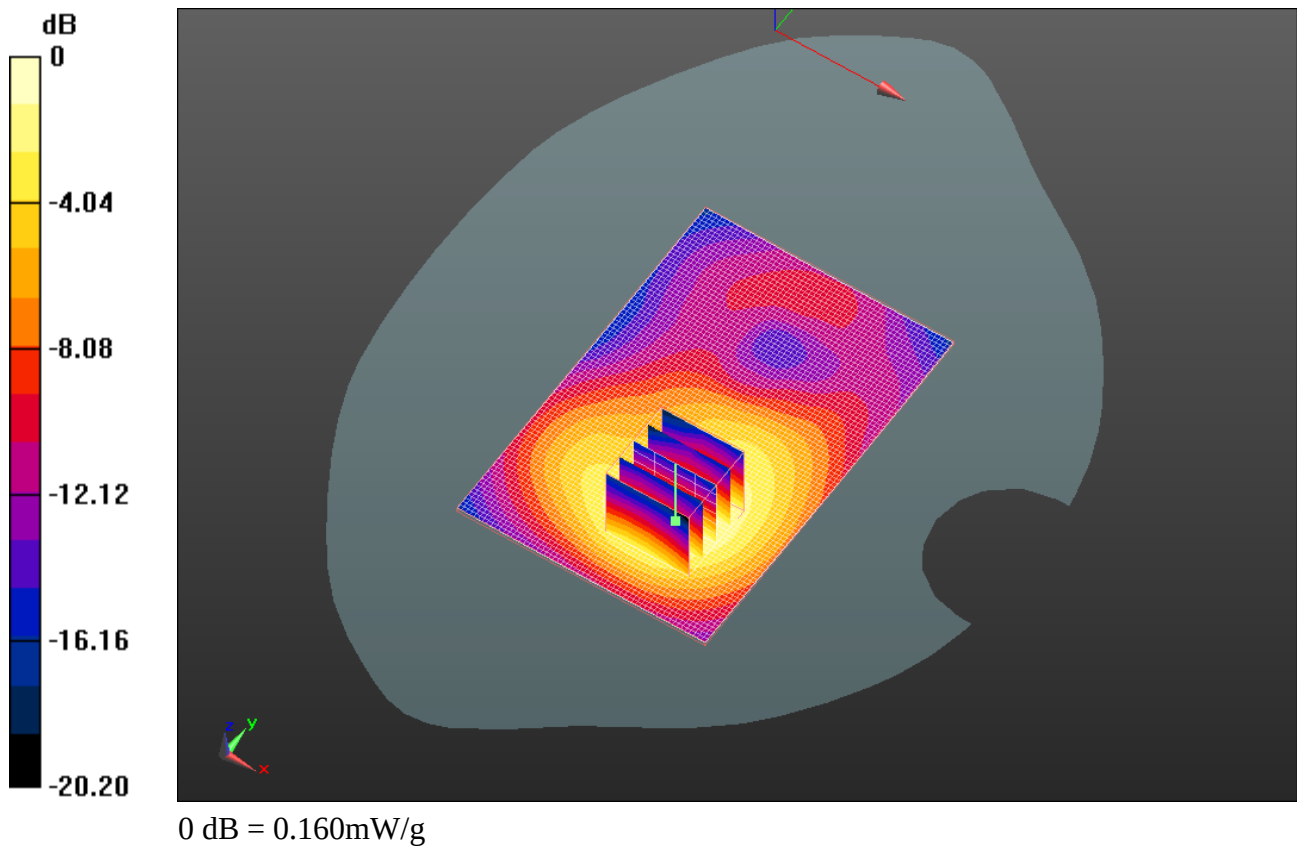
Peak SAR (extrapolated) = 0.273 W/kg

SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.080 mW/g

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

Maximum value of SAR (measured) = 0.161 mW/g

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Date/Time: 4/27/2011 7:01:30 PM, Date/Time: 4/27/2011 7:08:25 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_802.11b_low_chan_amb_temp_23.1_liq_temp_22 .2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27269EDE

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 50.261$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.124 mW/g

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

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

Reference Value = 4.126 V/m; Power Drift = 0.20 dB

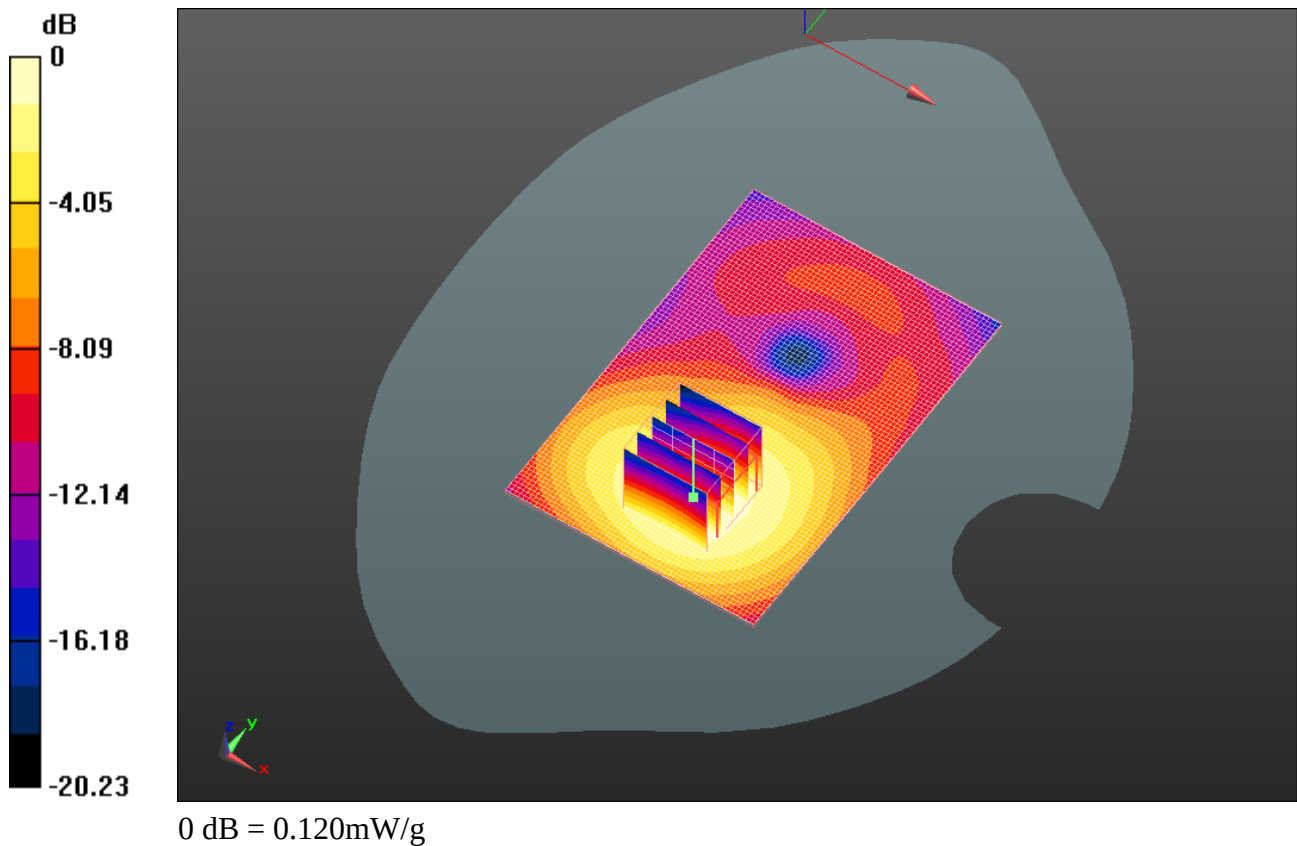
Peak SAR (extrapolated) = 0.205 W/kg

SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.065 mW/g

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

Maximum value of SAR (measured) = 0.125 mW/g

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Date/Time: 4/27/2011 6:45:04 PM, Date/Time: 4/27/2011 6:52:01 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_802.11b_low_chan_amb_temp_23.1_liq_temp_22.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27269EDE

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 50.261$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.085 mW/g

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

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

Reference Value = 3.350 V/m; Power Drift = 0.28 dB

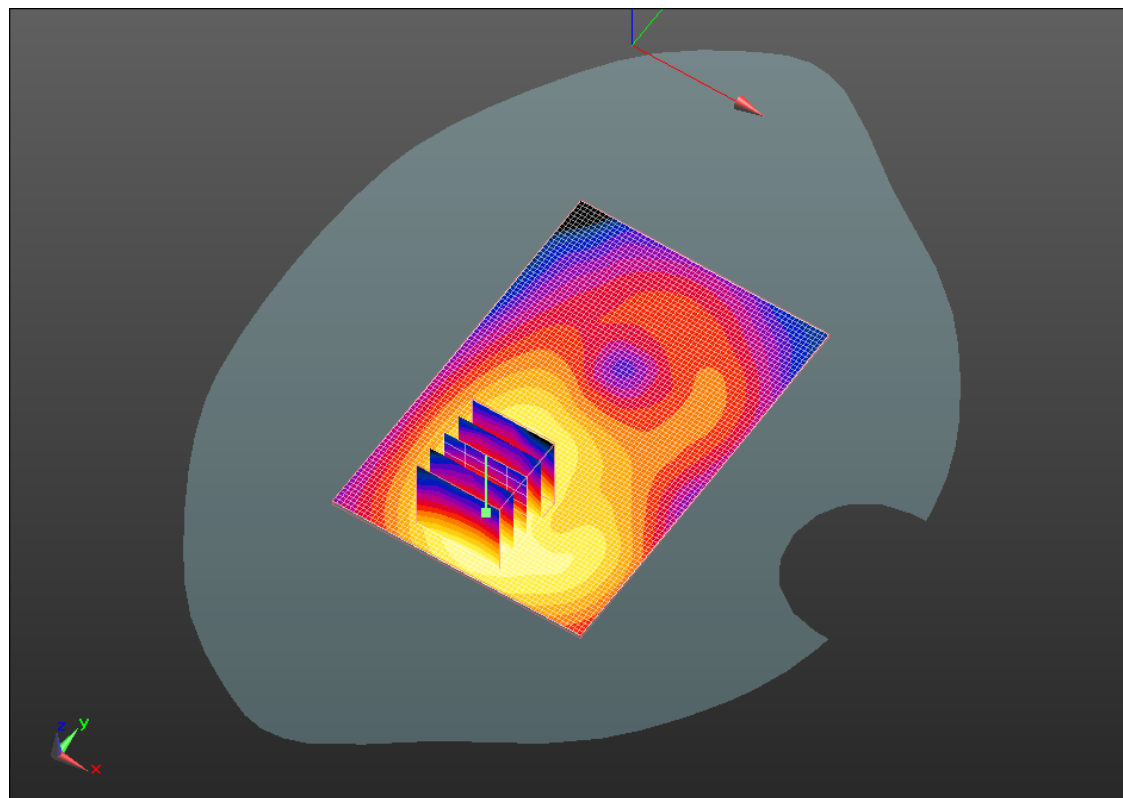
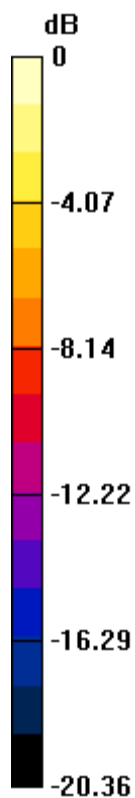
Peak SAR (extrapolated) = 0.144 W/kg

SAR(1 g) = 0.080 mW/g; SAR(10 g) = 0.045 mW/g

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

Maximum value of SAR (measured) = 0.086 mW/g

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0 dB = 0.090mW/g

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Date/Time: 4/27/2011 9:13:29 PM, Date/Time: 4/27/2011 9:20:56 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_Headset_802.11b_low_chan_amb_temp_23.1_liq_
temp_22.1C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 27269EDE

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.98 \text{ mho/m}$; $\epsilon_r = 50.261$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.43, 4.43, 4.43); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.073 mW/g

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

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

Reference Value = 2.347 V/m; Power Drift = 0.63 dB

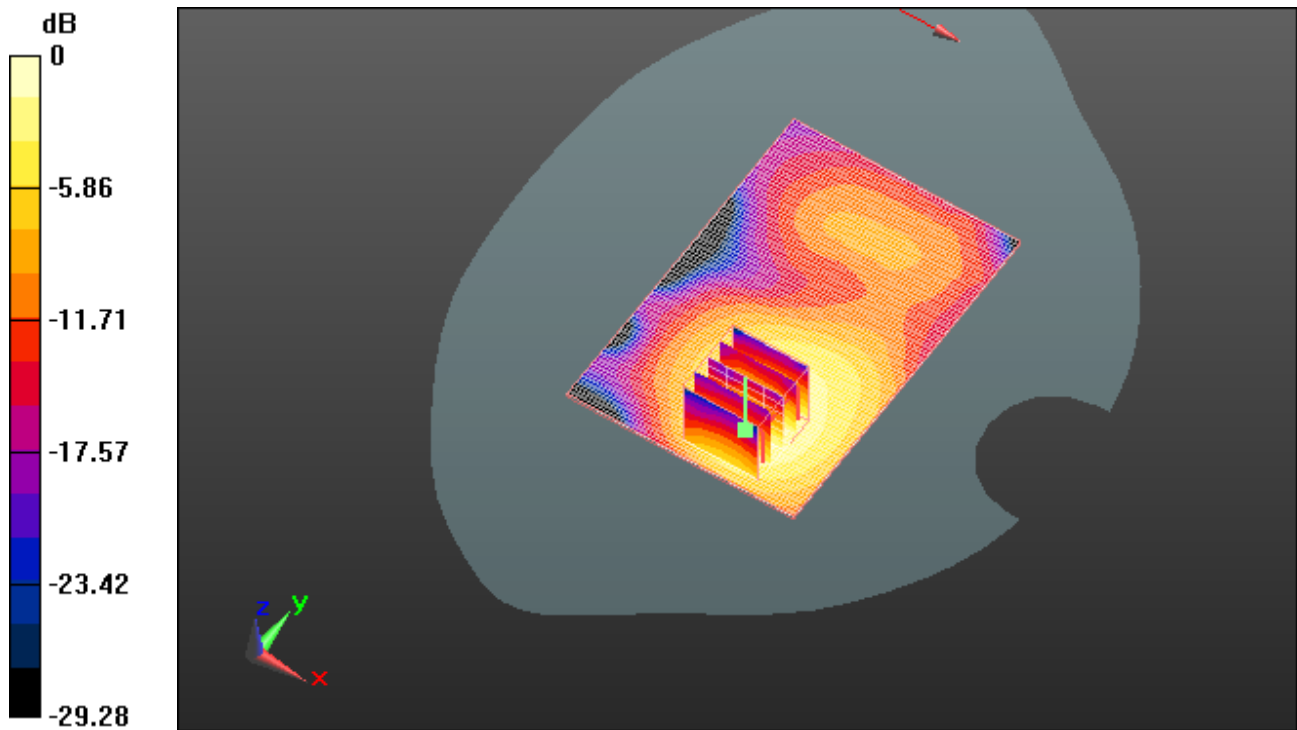
Peak SAR (extrapolated) = 0.135 W/kg

SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.035 mW/g

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

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

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0 dB = 0.080mW/g

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Date/Time: 6/16/2011 10:22:37 AM, Date/Time: 6/16/2011 10:29:30 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_BT_mid_chan_amb_temp_23.3_liq_temp_22.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 279CCF51

Communication System: Bluetooth; Communication System Band: Bluetooth;
Frequency: 2441 MHz; Communication System PAR: 0 dB
Medium parameters used (interpolated): $f = 2441 \text{ MHz}$; $\sigma = 2.021 \text{ mho/m}$; $\epsilon_r = 50.158$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.00187 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (7x7x7)/Cube 0:

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

Reference Value = 0.986 V/m; Power Drift = -0.0067 dB

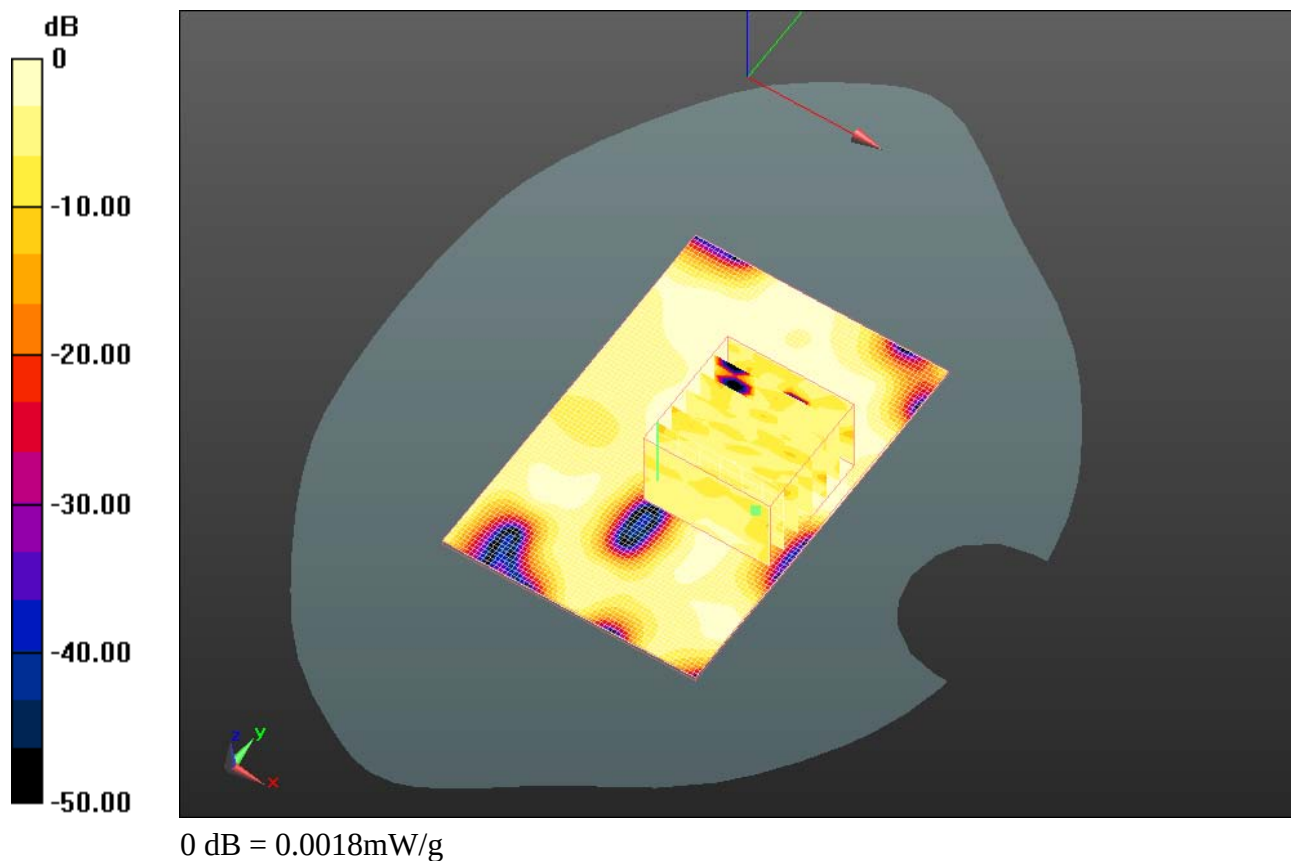
Peak SAR (extrapolated) = 0.00448 W/kg

SAR(1 g) = 0.0015 mW/g; SAR(10 g) = 0.000873 mW/g

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

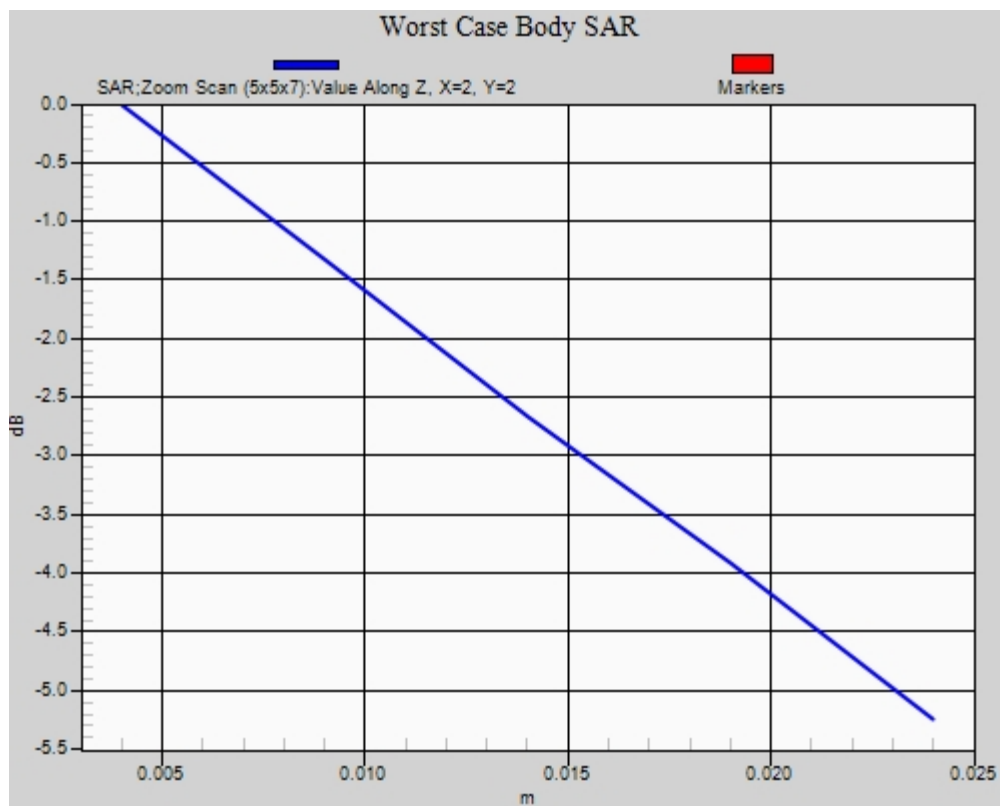
Maximum value of SAR (measured) = 0.00178 mW/g

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Z axis plot for the worst case body configuration:



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Date/Time: 7/6/2011 3:10:38 PM, Date/Time: 7/6/2011 3:17:31 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_high_chan_amb_temp_23.3_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2727119F

Communication System: GPRS 850; Communication System Band: GPRS 850;
Frequency: 848.8 MHz; Communication System PAR: 6.232 dB
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 1.026 \text{ mho/m}$; $\epsilon_r = 55.765$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x81x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.271 mW/g

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

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

Reference Value = 32.446 V/m; Power Drift = 0.0083 dB

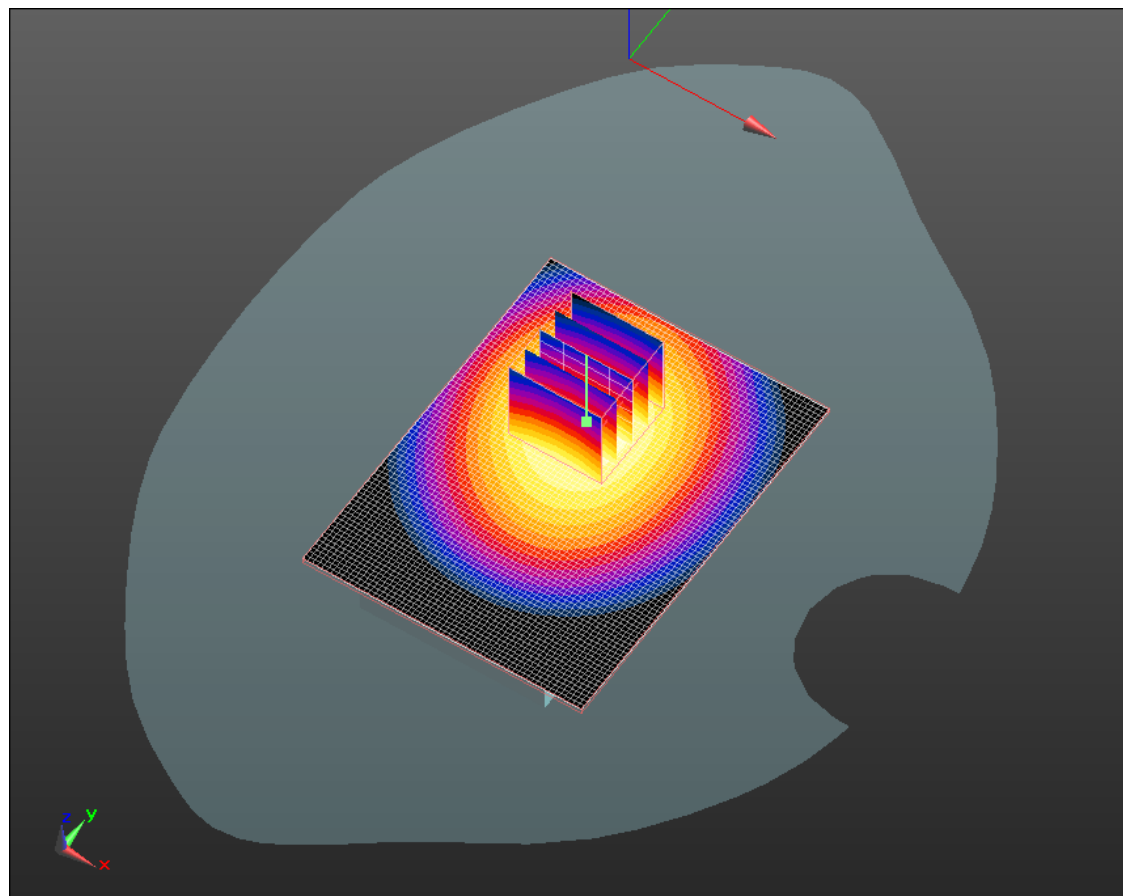
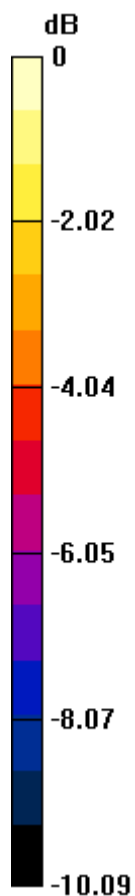
Peak SAR (extrapolated) = 1.640 W/kg

SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.862 mW/g

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

Maximum value of SAR (measured) = 1.276 mW/g

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0 dB = 1.280mW/g

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Date/Time: 7/11/2011 8:06:09 PM, Date/Time: 7/11/2011 8:13:02 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Headset_GPRS1900_mid_chan_amb_temp_23.3_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2727119F

Communication System: GPRS 1900; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 1880 MHz; Communication System PAR: 6.232 dB

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.547 \text{ mho/m}$; $\epsilon_r = 52.175$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

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

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.361 mW/g

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

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

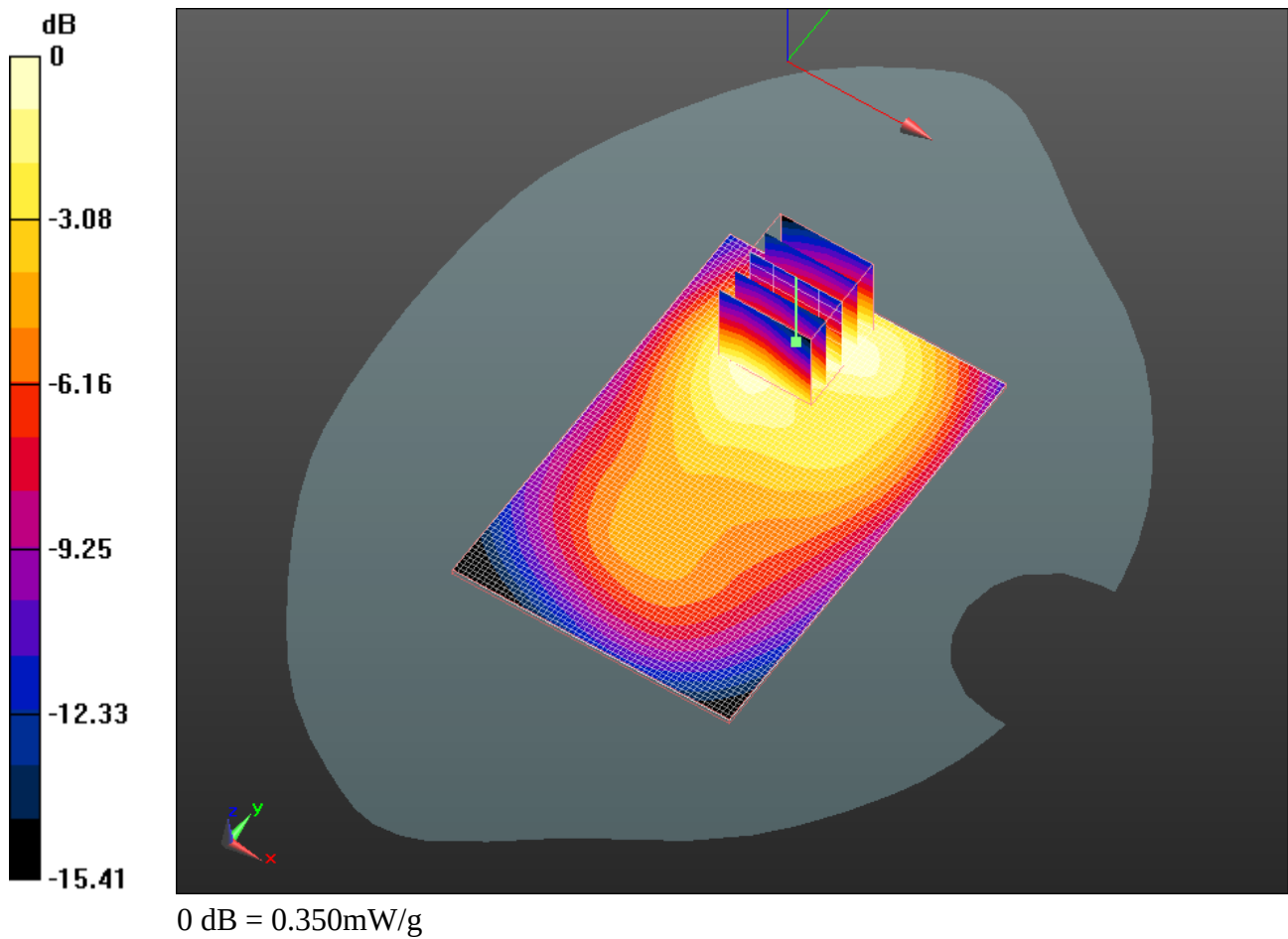
Reference Value = 9.877 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.493 W/kg

SAR(1 g) = 0.323 mW/g; SAR(10 g) = 0.198 mW/g

Maximum value of SAR (measured) = 0.348 mW/g

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Date/Time: 4/21/2011 5:12:10 PM, Date/Time: 4/21/2011 5:19:12 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_UMTS_band_V_low_chan_amb_temp_23.0_liq_temp_21.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2727119F

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.963 \text{ mho/m}$; $\epsilon_r = 53.644$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

[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=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.632 V/m; Power Drift = 0.10 dB

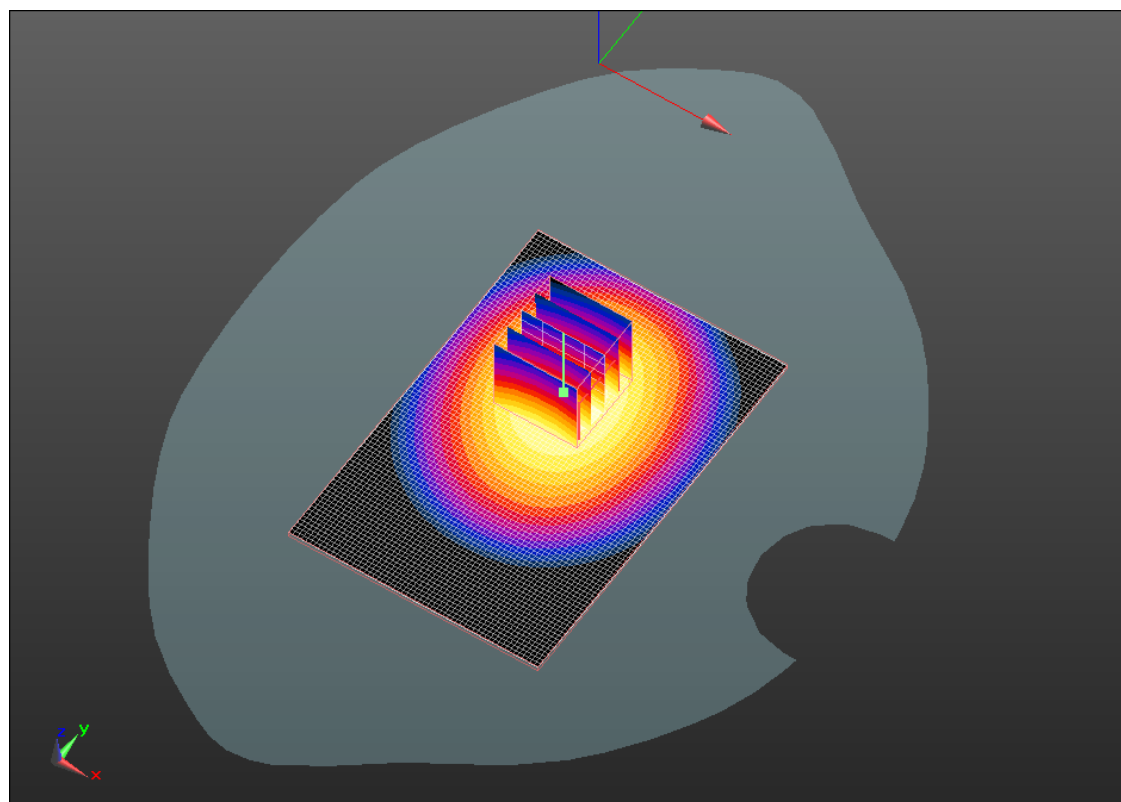
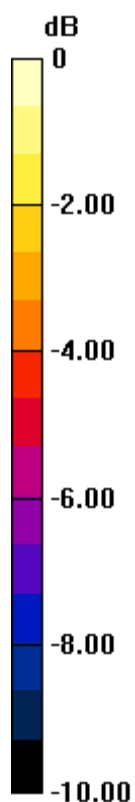
Peak SAR (extrapolated) = 1.016 W/kg

SAR(1 g) = 0.756 mW/g; SAR(10 g) = 0.543 mW/g

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

Maximum value of SAR (measured) = 0.802 mW/g

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0 dB = 0.800mW/g

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Date/Time: 4/21/2011 4:57:57 PM, Date/Time: 4/21/2011 5:04:53 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_UMTS_band_V_mid_chan_amb_temp_23.1_liq_temperatures_21.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2727119F

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 836.4 \text{ MHz}$; $\sigma = 0.976 \text{ mho/m}$; $\epsilon_r = 53.628$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.895 mW/g

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

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

Reference Value = 29.089 V/m; Power Drift = -0.28 dB

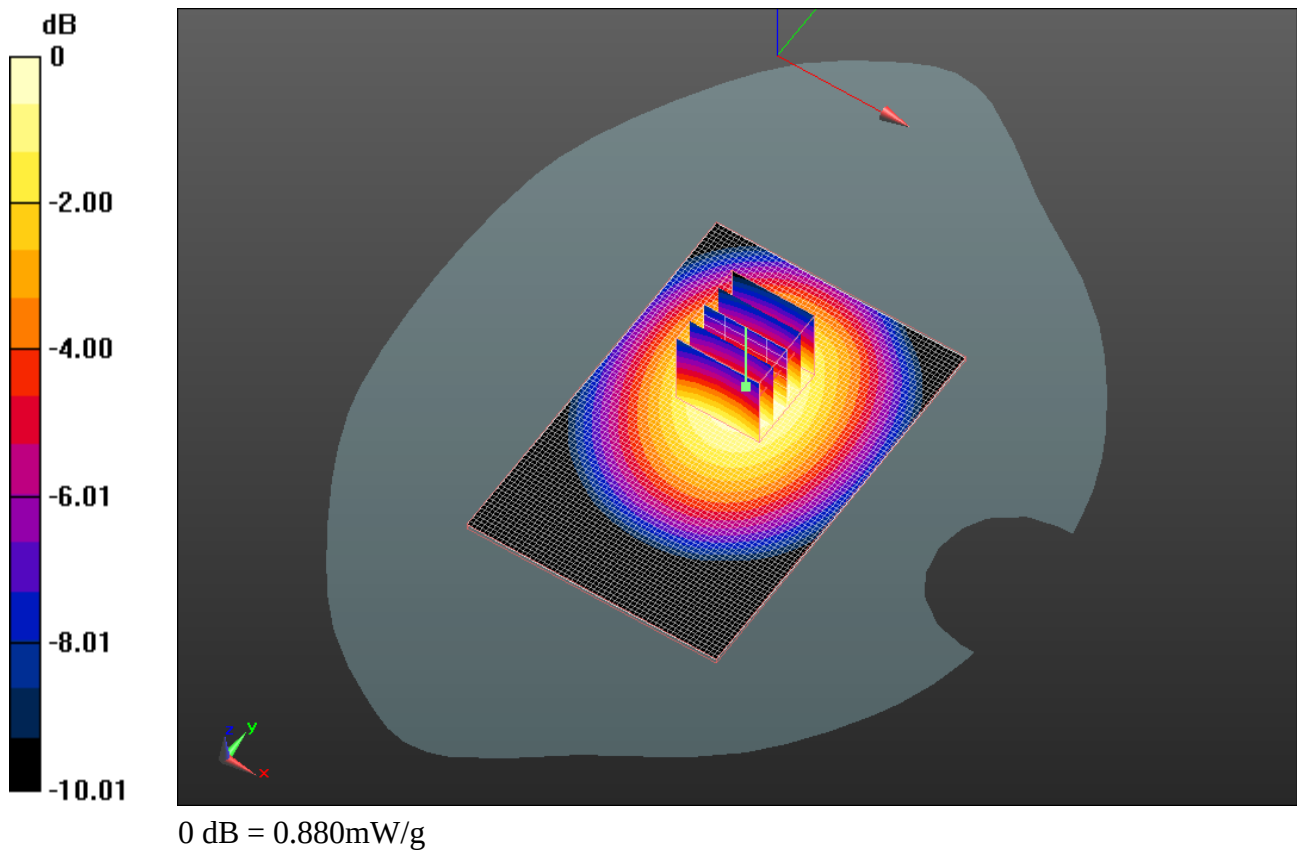
Peak SAR (extrapolated) = 1.123 W/kg

SAR(1 g) = 0.829 mW/g; SAR(10 g) = 0.595 mW/g

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

Maximum value of SAR (measured) = 0.879 mW/g

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Date/Time: 4/21/2011 5:26:27 PM, Date/Time: 4/21/2011 5:33:21 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_UMTS_band_V_high_chan_amb_temp_23.1_liq_temper_21.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2727119F

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 846.6 \text{ MHz}$; $\sigma = 0.977 \text{ mho/m}$; $\epsilon_r = 53.489$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.855 mW/g

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

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

Reference Value = 27.681 V/m; Power Drift = 0.10 dB

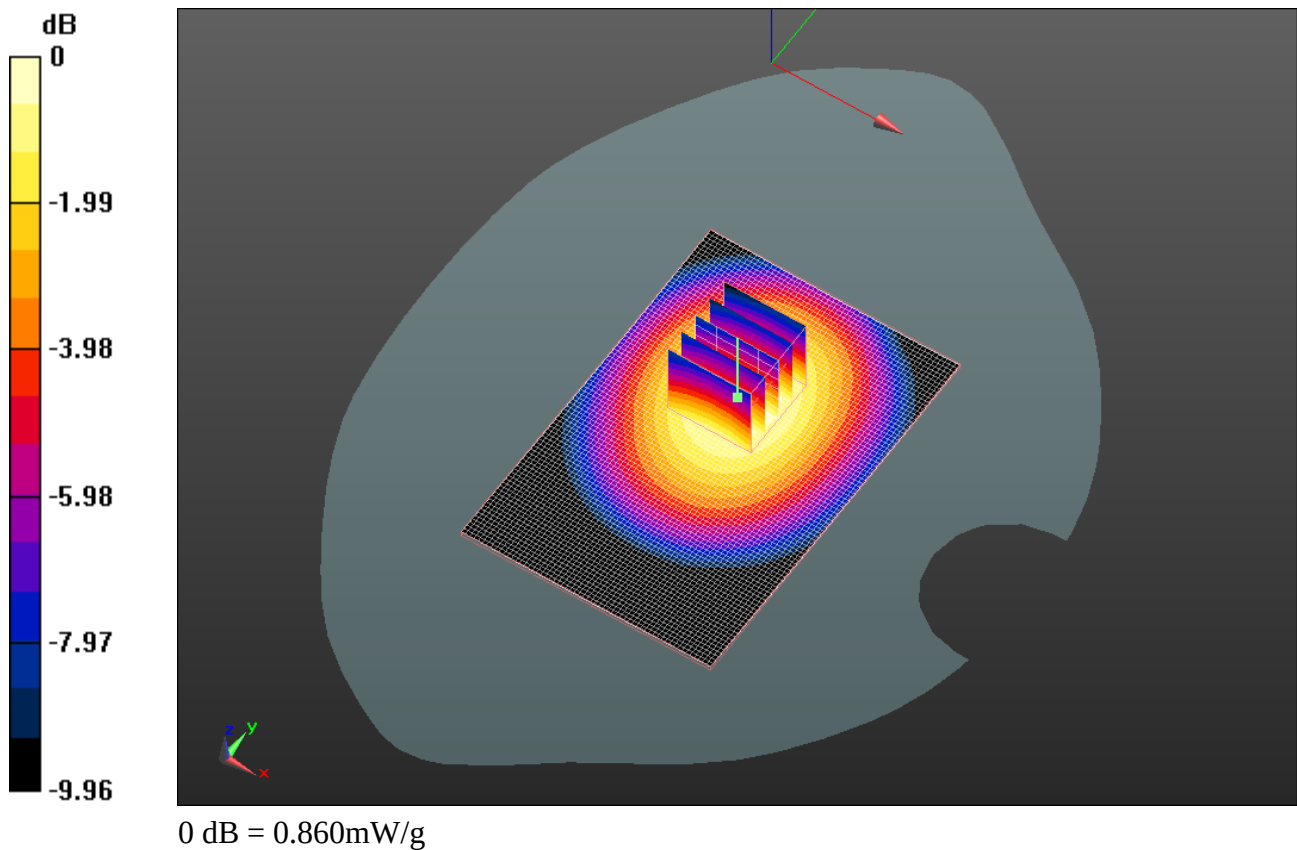
Peak SAR (extrapolated) = 1.093 W/kg

SAR(1 g) = 0.813 mW/g; SAR(10 g) = 0.582 mW/g

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

Maximum value of SAR (measured) = 0.861 mW/g

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Date/Time: 4/21/2011 5:57:13 PM, Date/Time: 4/21/2011 6:04:12 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_UMTS_band_V_mid_chan_amb_temp_23.2_liq_temper_21.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2727119F

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 836.4 \text{ MHz}$; $\sigma = 0.976 \text{ mho/m}$; $\epsilon_r = 53.628$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

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

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

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

Reference Value = 23.524 V/m; Power Drift = -0.02 dB

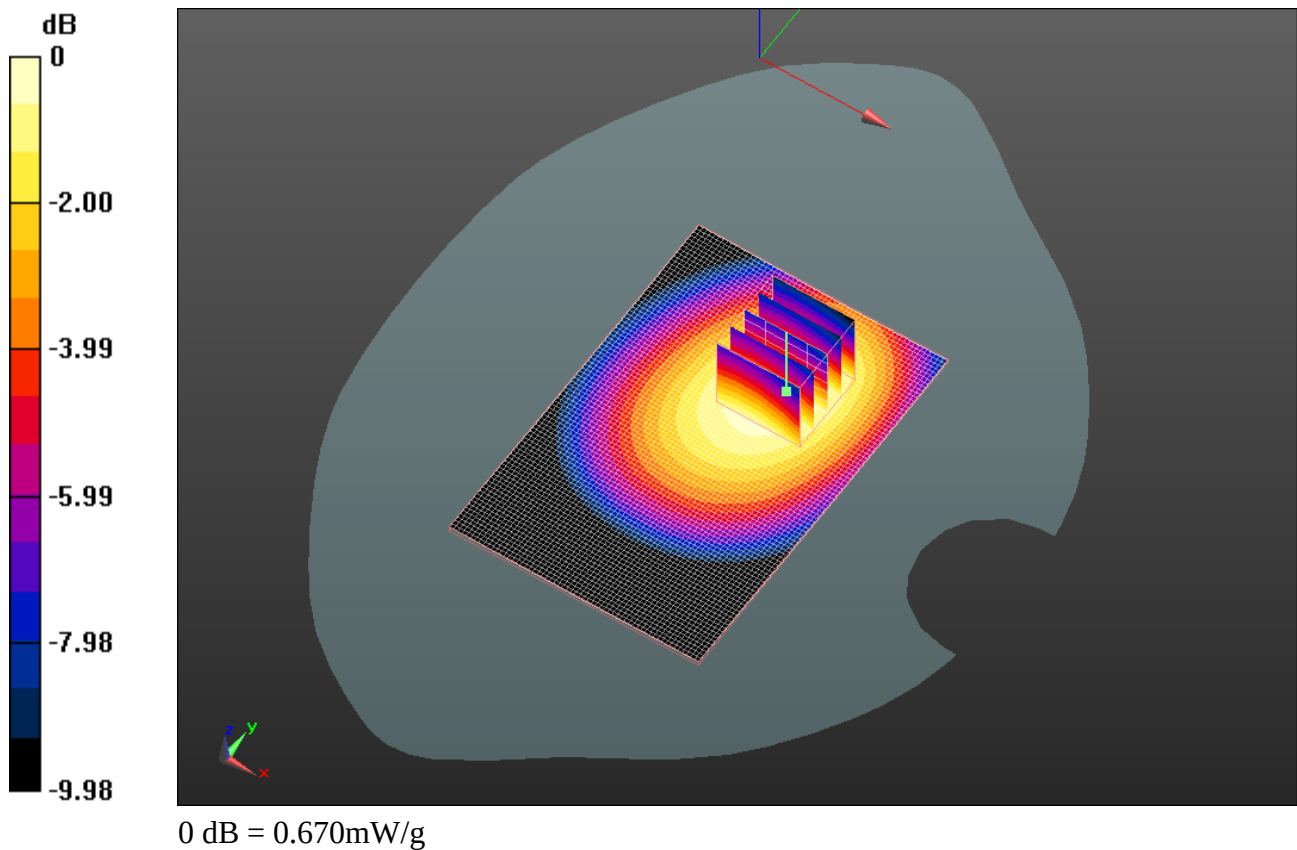
Peak SAR (extrapolated) = 0.845 W/kg

SAR(1 g) = 0.634 mW/g; SAR(10 g) = 0.460 mW/g

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

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

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Date/Time: 4/21/2011 5:42:12 PM, Date/Time: 4/21/2011 5:49:10 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_UMTS_band_V_mid_chan_amb_temp_23.2_liq_t emp_21.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2727119F

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.976$ mho/m; $\epsilon_r = 53.628$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.655 mW/g

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

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

Reference Value = 25.147 V/m; Power Drift = 0.08 dB

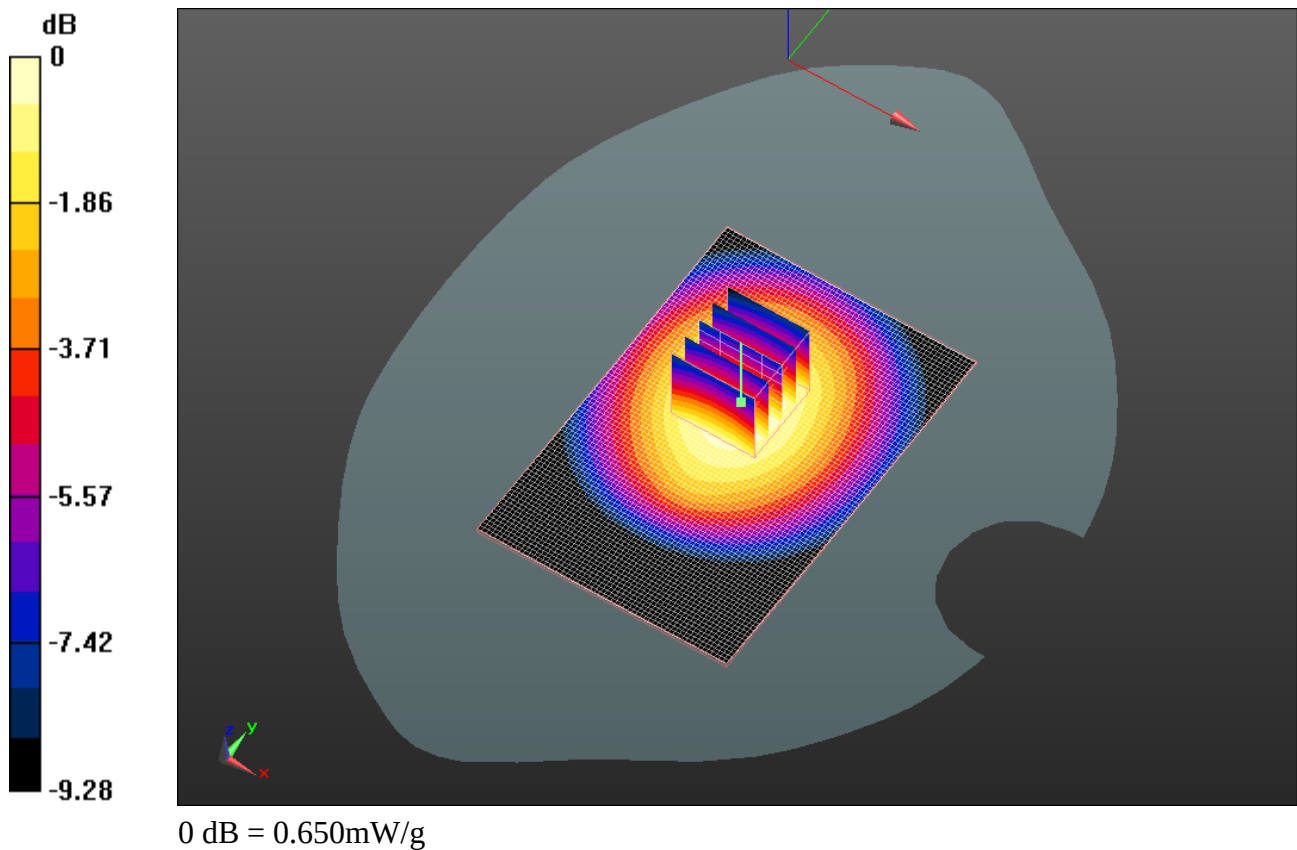
Peak SAR (extrapolated) = 0.803 W/kg

SAR(1 g) = 0.619 mW/g; SAR(10 g) = 0.453 mW/g

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

Maximum value of SAR (measured) = 0.655 mW/g

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Date/Time: 4/21/2011 6:11:46 PM, Date/Time: 4/21/2011 6:18:42 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_Headset_UMTS_band_V_mid_chan_amb_temp_2
3.2_liq_temp_22.0C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2727119F

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Communication System PAR: 0 dB

Medium parameters used (interpolated): $f = 836.4 \text{ MHz}$; $\sigma = 0.976 \text{ mho/m}$; $\epsilon_r = 53.628$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.3, 6.3, 6.3); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

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

Maximum value of SAR (interpolated) = 0.698 mW/g

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

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

Reference Value = 24.316 V/m; Power Drift = -0.01 dB

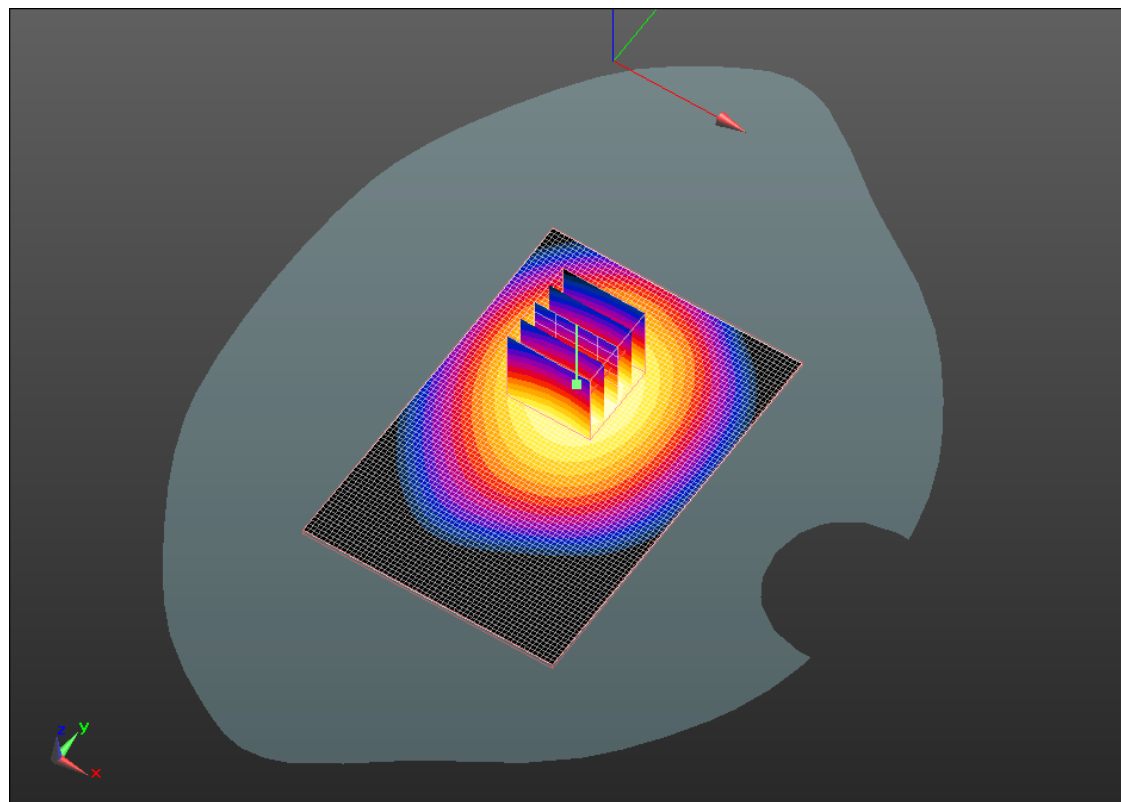
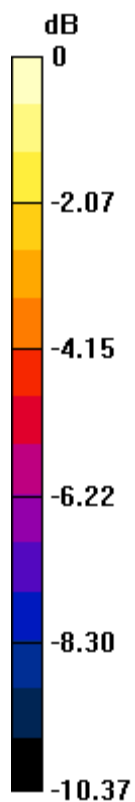
Peak SAR (extrapolated) = 0.887 W/kg

SAR(1 g) = 0.654 mW/g; SAR(10 g) = 0.468 mW/g

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

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

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0 dB = 0.700mW/g

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Date/Time: 4/20/2011 11:44:16 AM, Date/Time: 4/20/2011 11:50:29 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_UMTS_band_II_mid_chan_amb_temp_23.5_liq_temperatures_22.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2727119F

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.517 \text{ mho/m}$; $\epsilon_r = 51.198$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.88, 4.88, 4.88); Calibrated: 1/13/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Configuration/Touch position -/Area Scan (61x81x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

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

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

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

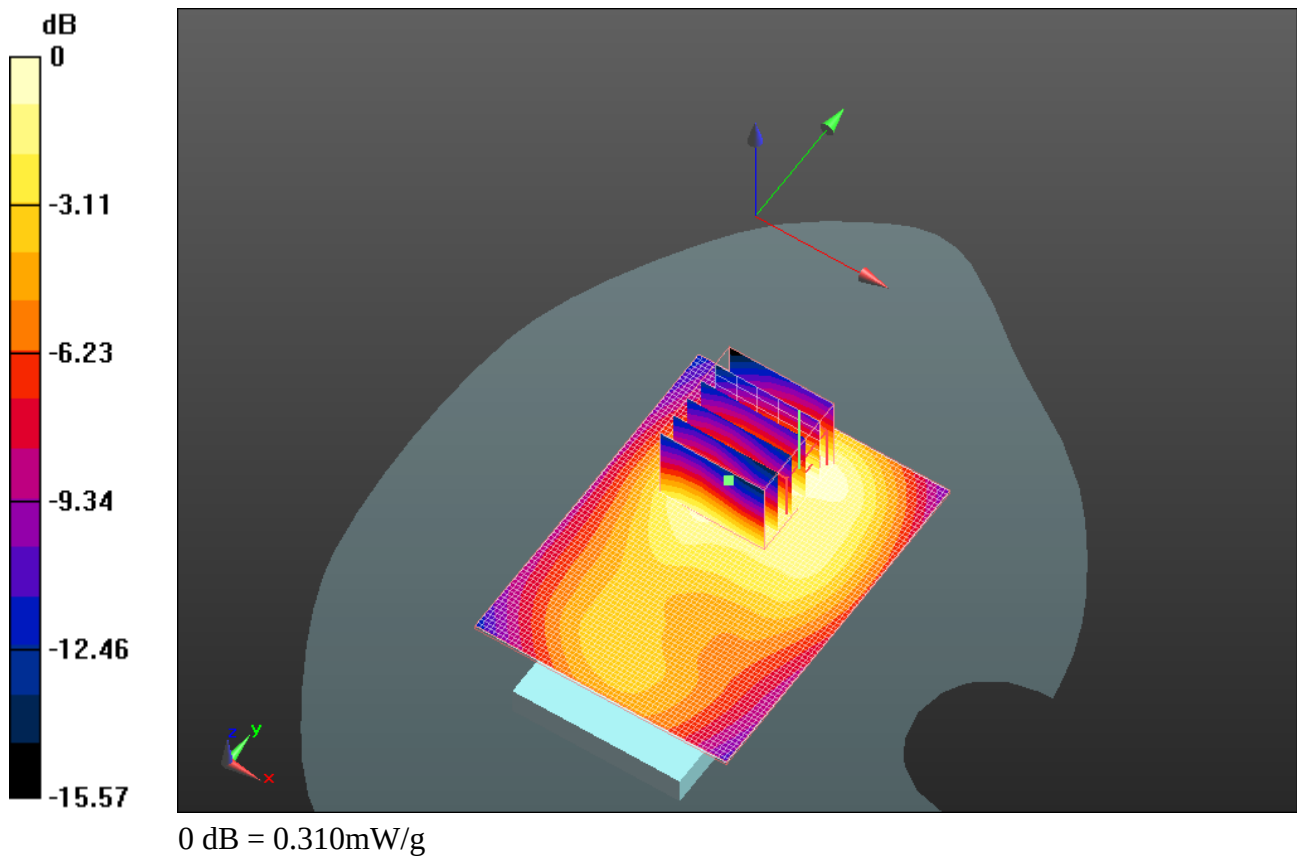
Reference Value = 9.251 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.412 W/kg

SAR(1 g) = 0.280 mW/g; SAR(10 g) = 0.178 mW/g

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

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Date/Time: 4/20/2011 12:19:08 PM, Date/Time: 4/20/2011 12:25:22 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Front_UMTS_band_II_mid_chan_amb_temp_23.0_liq_
temp_21.9C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2727119F

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.517 \text{ mho/m}$; $\epsilon_r = 51.198$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

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

Configuration/Touch position -/Area Scan (61x81x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.251 mW/g

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

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

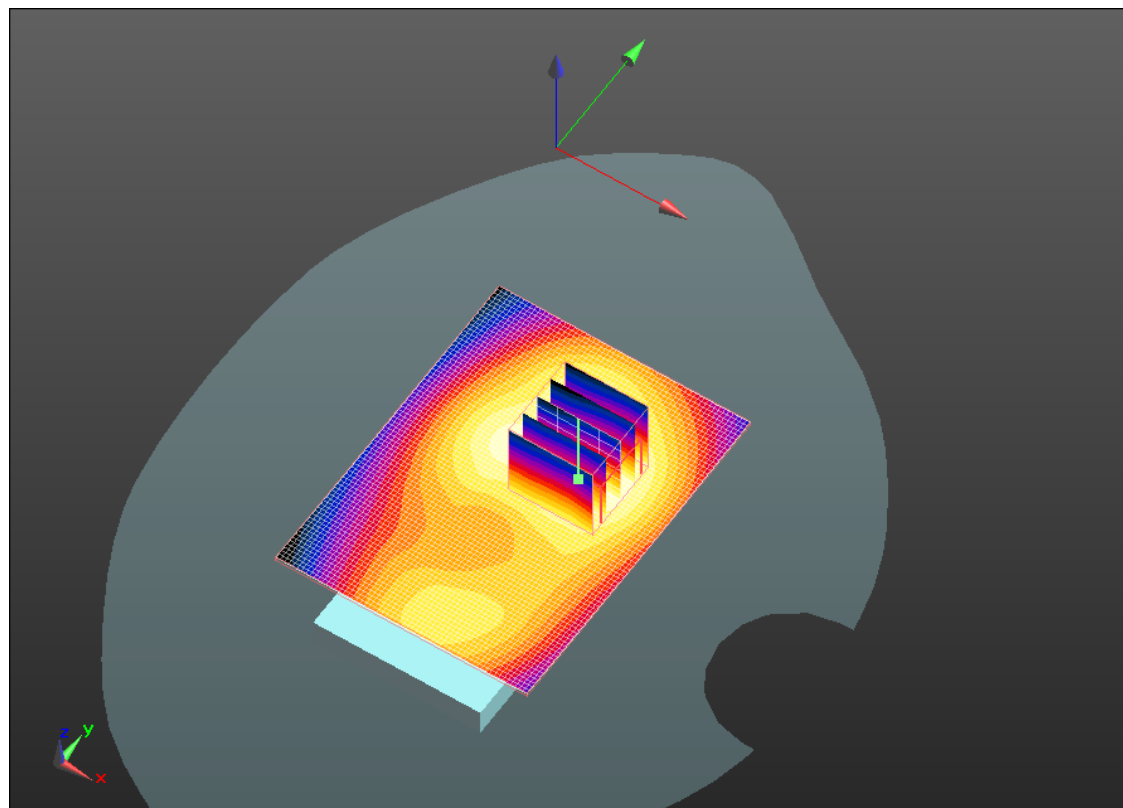
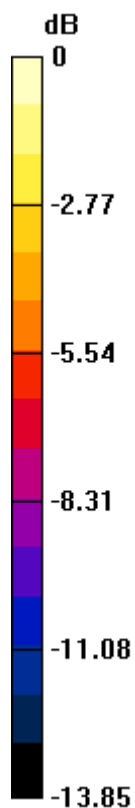
Reference Value = 8.630 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.361 W/kg

SAR(1 g) = 0.234 mW/g; SAR(10 g) = 0.144 mW/g

Maximum value of SAR (measured) = 0.251 mW/g

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0 dB = 0.250mW/g

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Date/Time: 4/20/2011 12:42:14 PM, Date/Time: 4/20/2011 12:48:28 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_UMTS_band_II_mid_chan_amb_temp_23.1_liq_t emp_21.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2727119F

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.517 \text{ mho/m}$; $\epsilon_r = 51.198$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

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

Configuration/Touch position -/Area Scan (61x81x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.235 mW/g

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

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

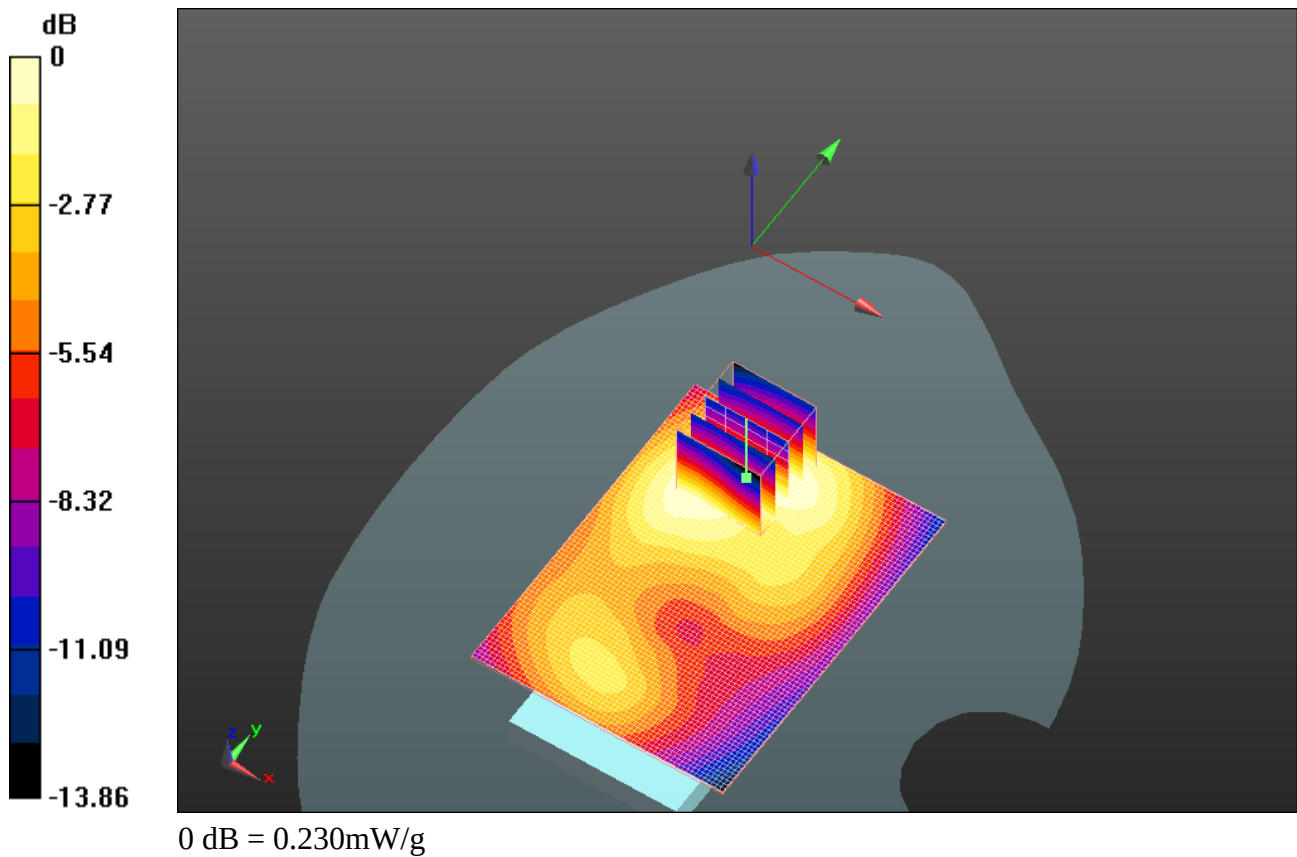
Reference Value = 6.338 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.315 W/kg

SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.140 mW/g

Maximum value of SAR (measured) = 0.233 mW/g

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Date/Time: 4/20/2011 12:02:12 PM, Date/Time: 4/20/2011 12:08:26 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Headset_UMTS_band_II_mid_chan_amb_temp_2

3.1_liq_temp_22.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2727119F

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.517 \text{ mho/m}$; $\epsilon_r = 51.198$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

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

Configuration/Touch position -/Area Scan (61x81x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.358 mW/g

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

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

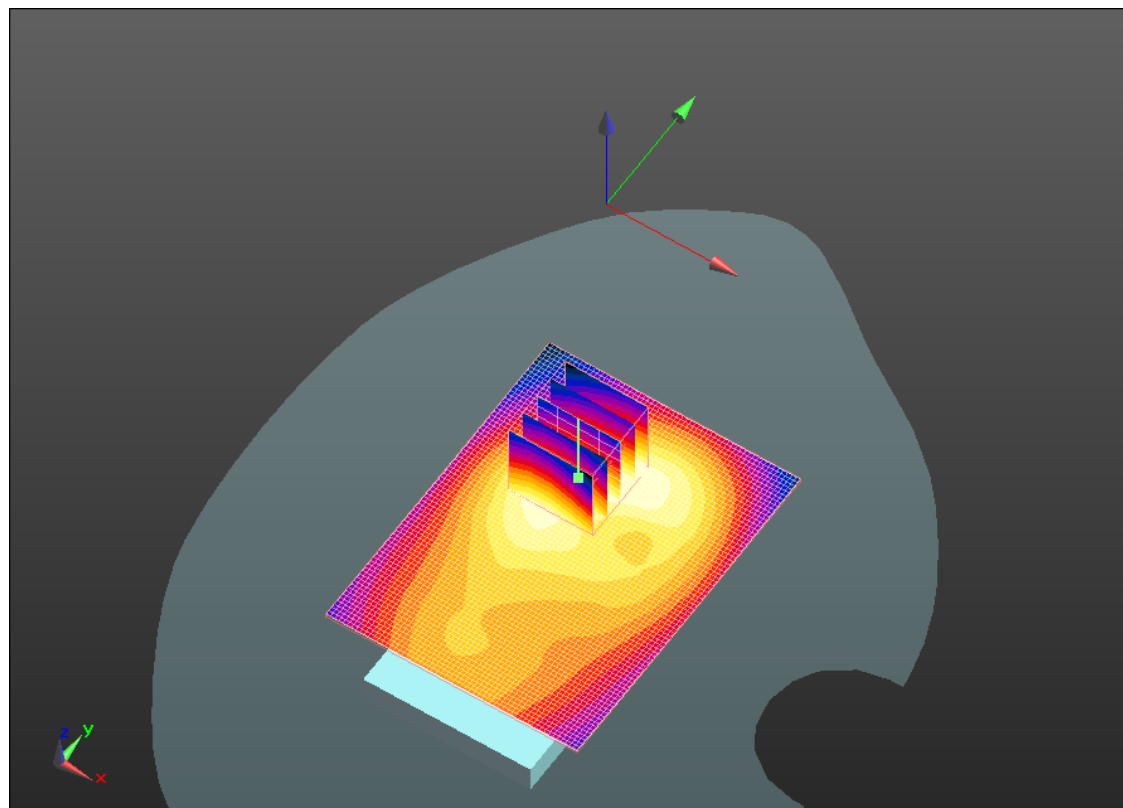
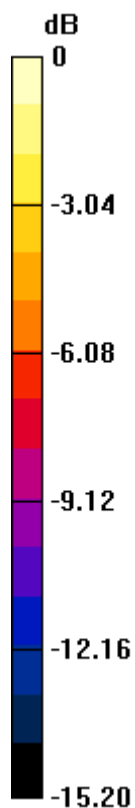
Reference Value = 10.694 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.473 W/kg

SAR(1 g) = 0.315 mW/g; SAR(10 g) = 0.197 mW/g

Maximum value of SAR (measured) = 0.344 mW/g

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0 dB = 0.340mW/g

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Z axis plot for the worst case body configuration:

