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

APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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Andrew Becker	February 02 – March 6 , 2012	RTS-5992-1203-29	L6AREW70UW	2503A-REW70UW

Date/Time: 2/10/2012 11:34:41 AM

Test Laboratory: RIM Testing Services

RightHandSide_EDGE850_high_chan_amb_temp_22.7C_liq_temp_20.8

C

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

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.942$ mho/m; $\epsilon_r = 40.647$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

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) = 0.921 mW/g

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

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

Reference Value = 14.678 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.0520

SAR(1 g) = 0.817 mW/g; SAR(10 g) = 0.592 mW/g

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

Maximum value of SAR (measured) = 0.905 mW/g

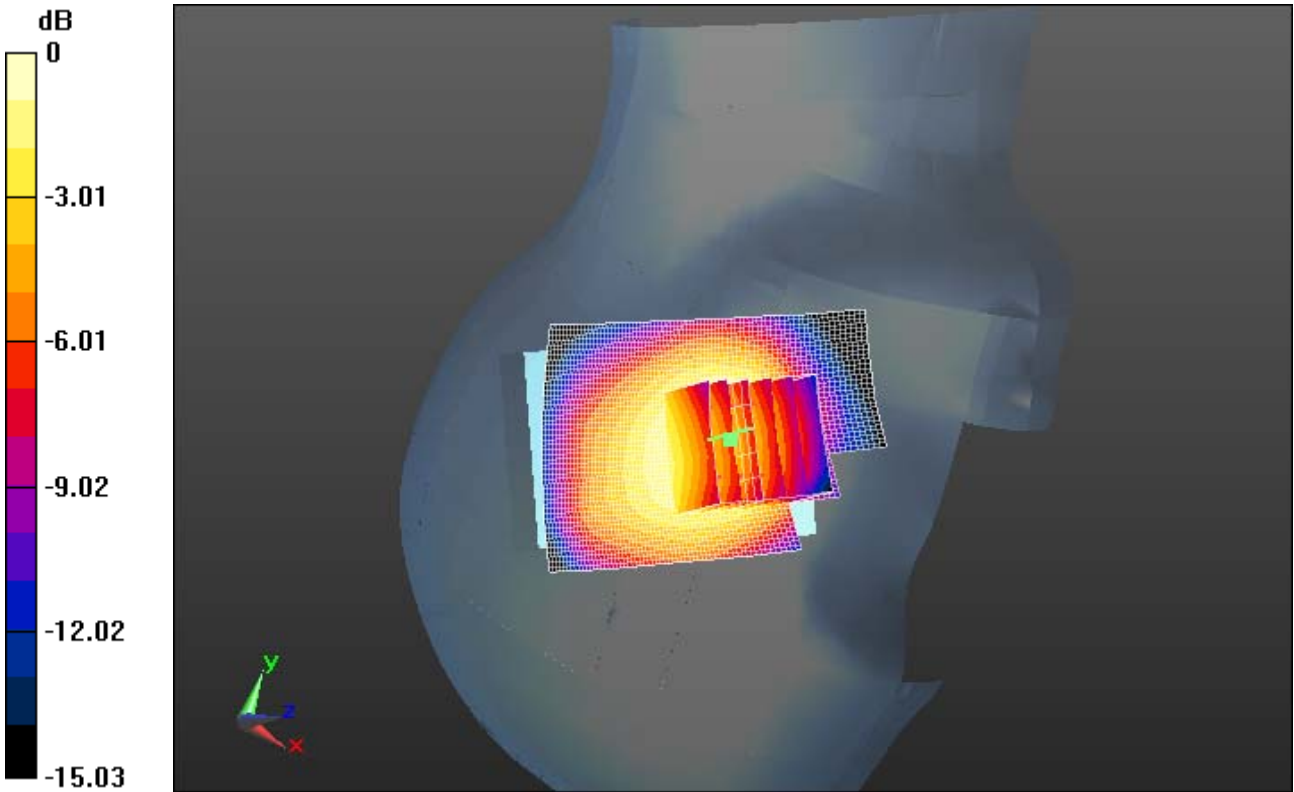
Author Data
Andrew Becker

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0 dB = 0.910mW/g = -0.82 dB mW/g

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Date/Time: 2/10/2012 11:56:23 AM

Test Laboratory: RIM Testing Services

LeftHandSide_EDGE850_high_chan_amb_temp_22.8C_liq_temp_20.7C

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

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz
Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.942$ mho/m; $\epsilon_r = 40.647$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 0.843 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 = 12.115 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.0110
SAR(1 g) = 0.763 mW/g; SAR(10 g) = 0.548 mW/g

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

Maximum value of SAR (measured) = 0.843 mW/g

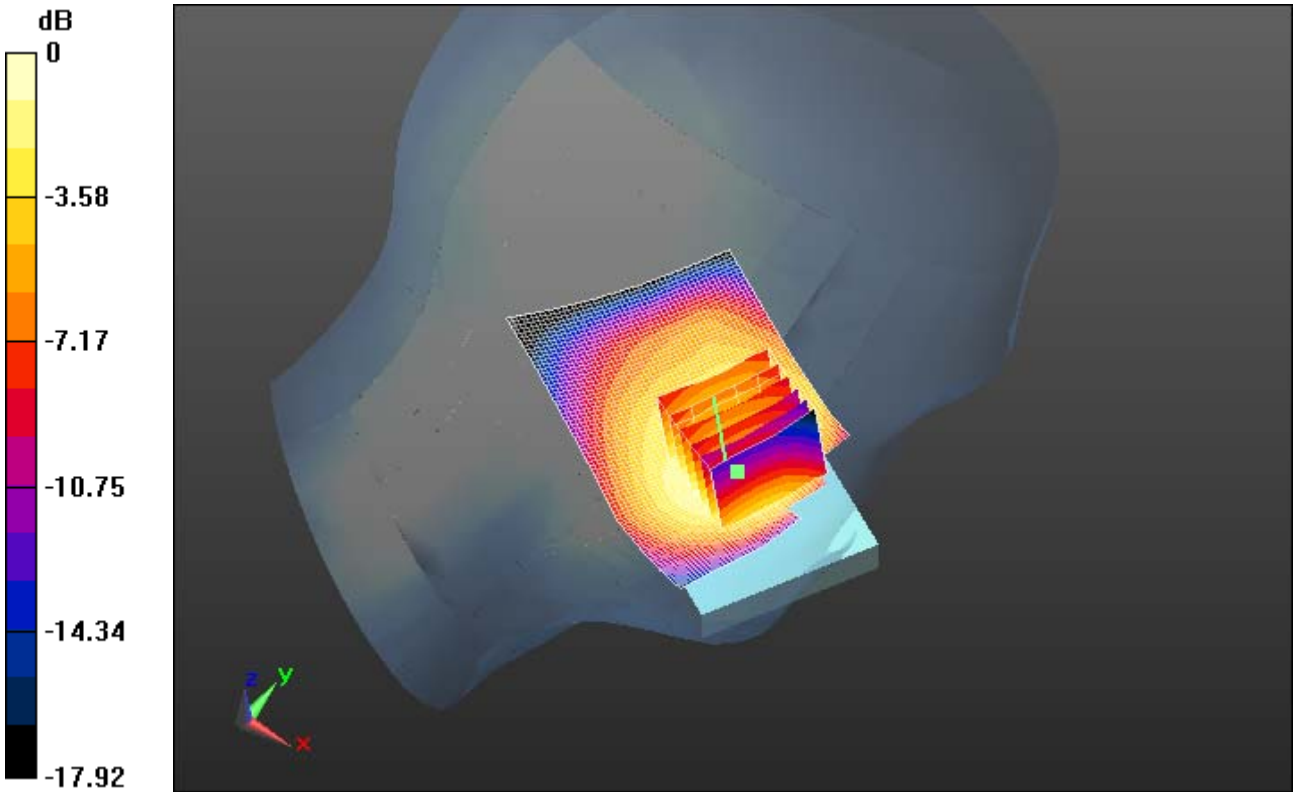
Author Data
Andrew Becker

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

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Date/Time: 2/2/2012 2:17:13 PM

Test Laboratory: RIM Testing Services

RightHandSide_UMTS_Band_IV_low_chan_amb_temp_22.8_liq_temp_2 1.4C

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

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz
Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.413$ mho/m; $\epsilon_r = 41.098$;
 $\rho = 1000$ kg/m³
Phantom section: Right Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.1, 5.1, 5.1); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 1.059 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 = 12.307 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.4060
SAR(1 g) = 0.987 mW/g; SAR(10 g) = 0.597 mW/g

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

Maximum value of SAR (measured) = 1.062 mW/g

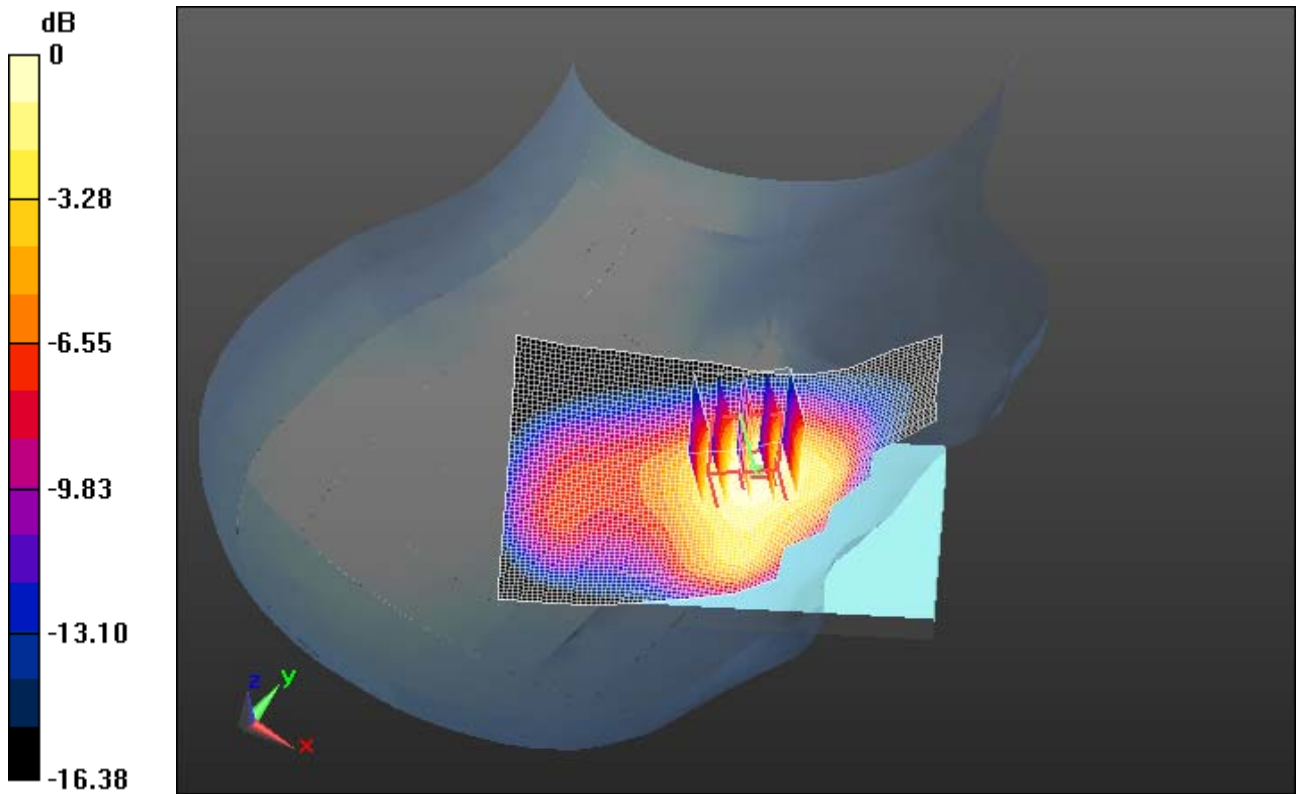
Author Data
Andrew Becker

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0 dB = 1.060mW/g = 0.51 dB mW/g

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Date/Time: 2/2/2012 1:58:56 PM

Test Laboratory: RIM Testing Services

RightHandSide_UMTS_Band_IV_mid_chan_amb_temp_23.0_liq_temp_21.5C

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

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz
Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.433$ mho/m; $\epsilon_r = 40.995$;
 $\rho = 1000$ kg/m³
Phantom section: Right Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.1, 5.1, 5.1); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 1.183 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 = 12.981 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.5660
SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.663 mW/g

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

Maximum value of SAR (measured) = 1.188 mW/g

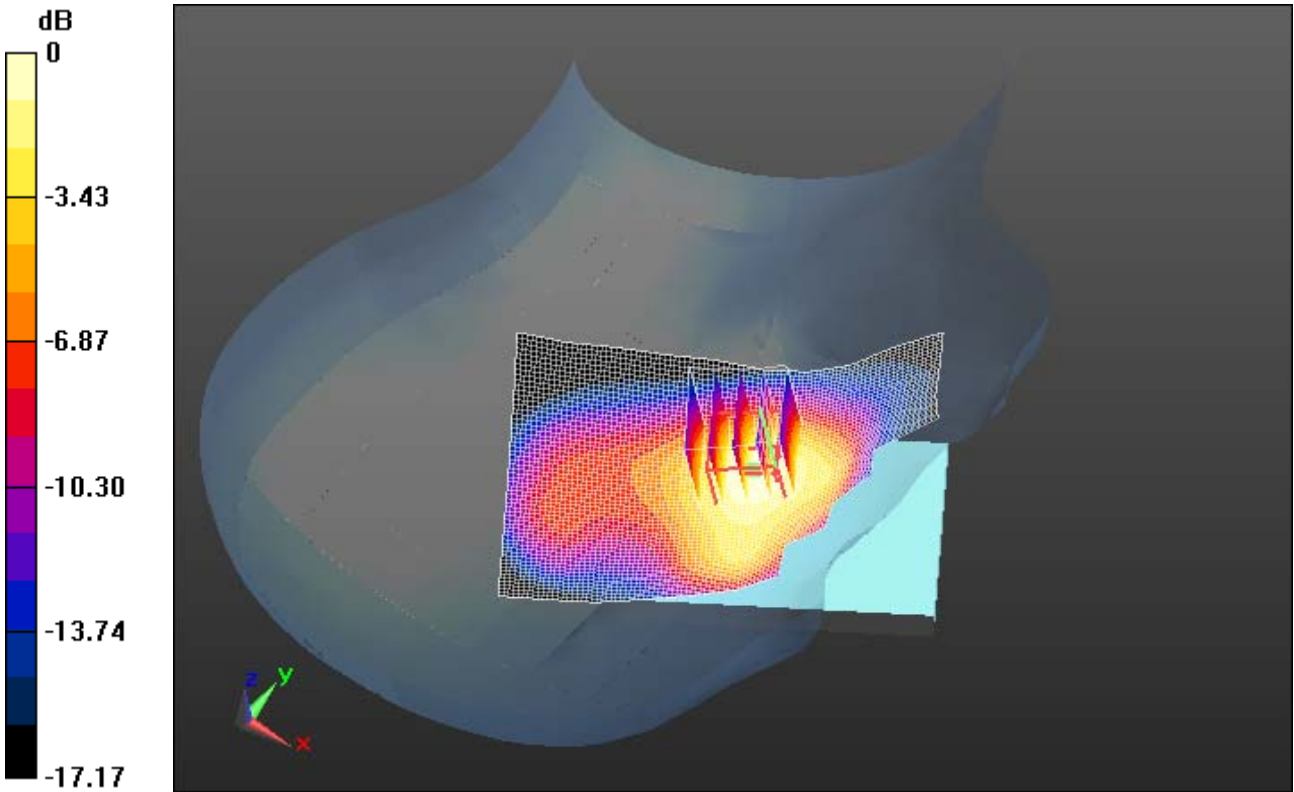
Author Data
Andrew Becker

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0 dB = 1.190mW/g = 1.51 dB mW/g

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Test Laboratory: RIM Testing Services

RightHandSide_UMTS_Band_IV_high_chan_amb_temp_22.8_liq_temp_21.5C

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

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz
Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.451$ mho/m; $\epsilon_r = 40.762$;
 $\rho = 1000$ kg/m³
Phantom section: Right Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.1, 5.1, 5.1); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 1.249 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 = 12.938 V/m; Power Drift = 0.0084 dB

Peak SAR (extrapolated) = 1.6270

SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.690 mW/g

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

Maximum value of SAR (measured) = 1.233 mW/g

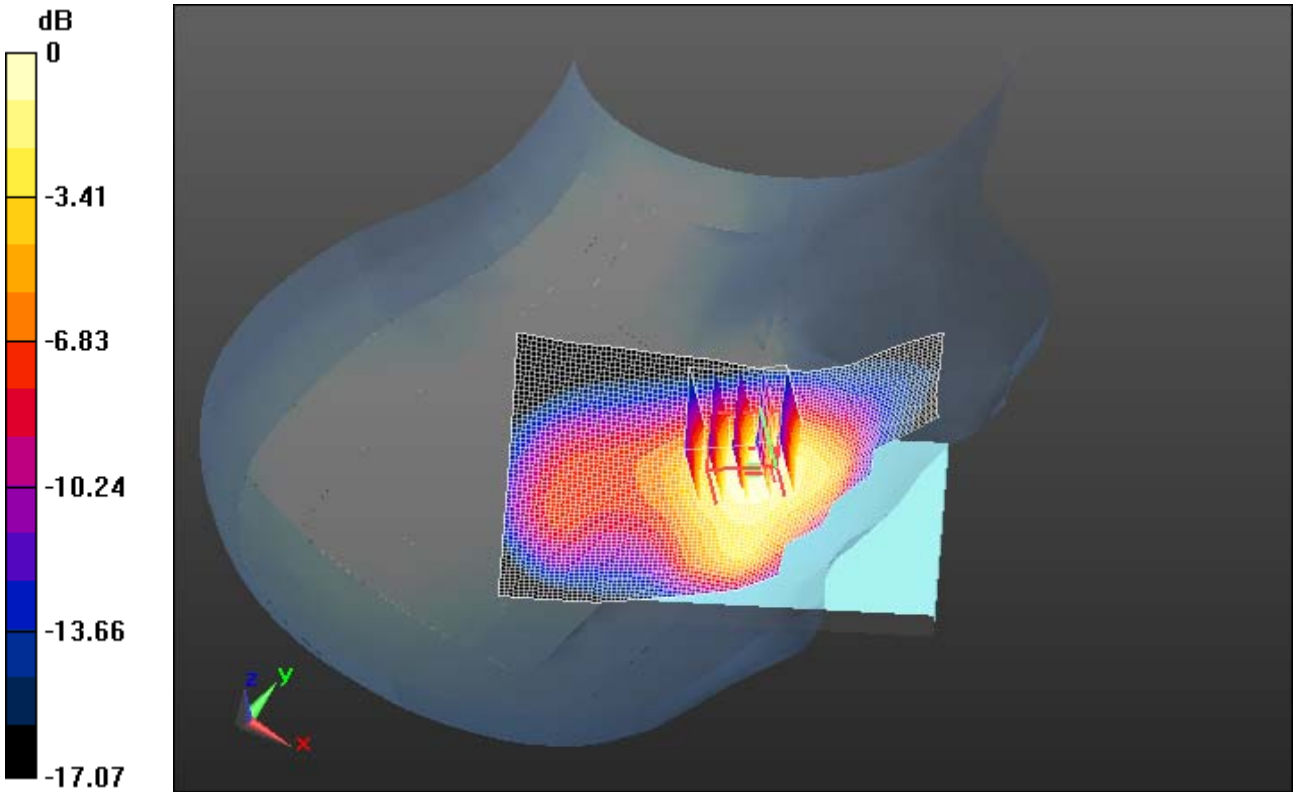
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0 dB = 1.230mW/g = 1.80 dB mW/g

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Test Laboratory: RIM Testing Services

RightHandSide_Tilt_UMTS_Band_IV_mid_chan_amb_temp_22.8_liq_temp_21.6C

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

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz
Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.433$ mho/m; $\epsilon_r = 40.995$;
 $\rho = 1000$ kg/m³
Phantom section: Right Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.1, 5.1, 5.1); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 0.443 mW/g

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

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
Reference Value = 17.652 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.5060
SAR(1 g) = 0.372 mW/g; SAR(10 g) = 0.240 mW/g

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

Maximum value of SAR (measured) = 0.404 mW/g

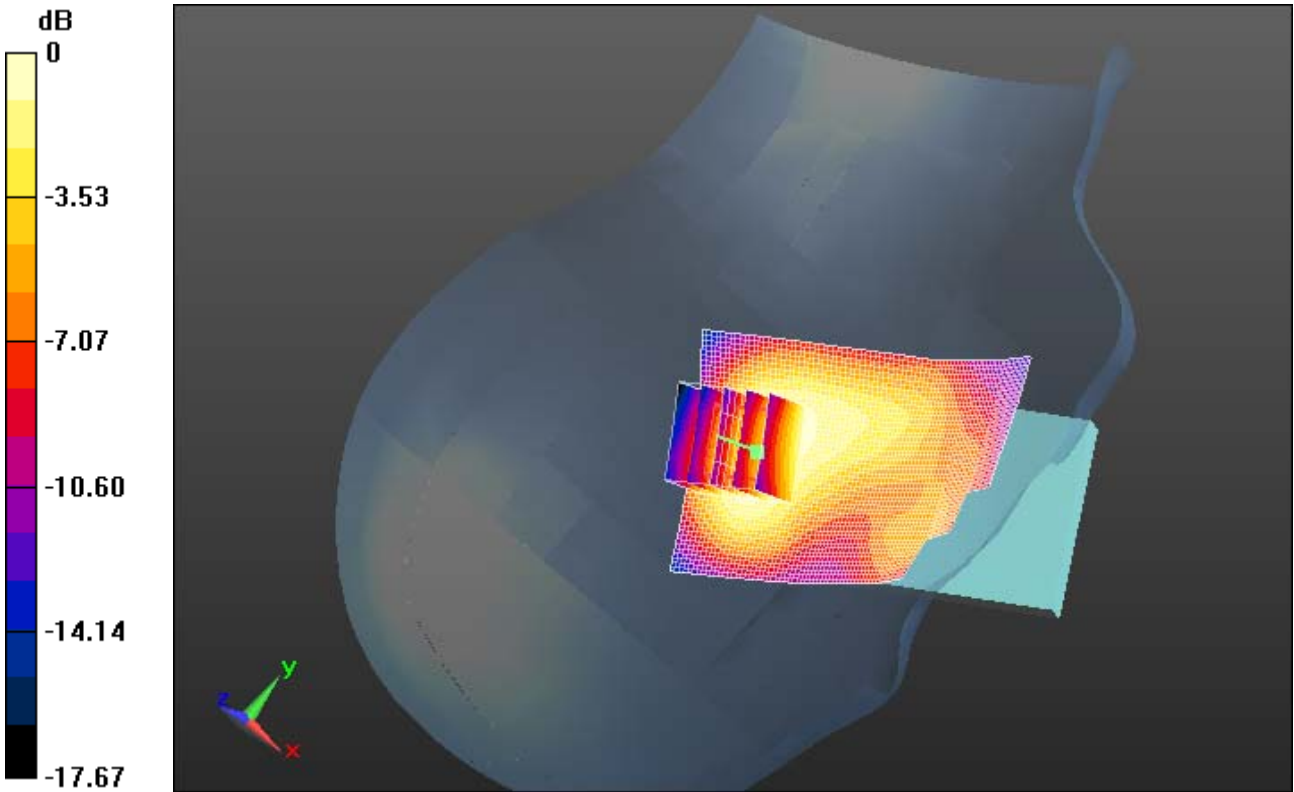
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0 dB = 0.400mW/g = -7.96 dB mW/g

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Test Laboratory: RIM Testing Services

LeftHandSide_UMTS_Band_IV_mid_chan_amb_temp_22.8_liq_temp_21 .4C

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

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz
Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.433$ mho/m; $\epsilon_r = 40.995$;
 $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.1, 5.1, 5.1); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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


Maximum value of SAR (interpolated) = 0.876 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 = 10.253 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.2120
SAR(1 g) = 0.780 mW/g; SAR(10 g) = 0.479 mW/g

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

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

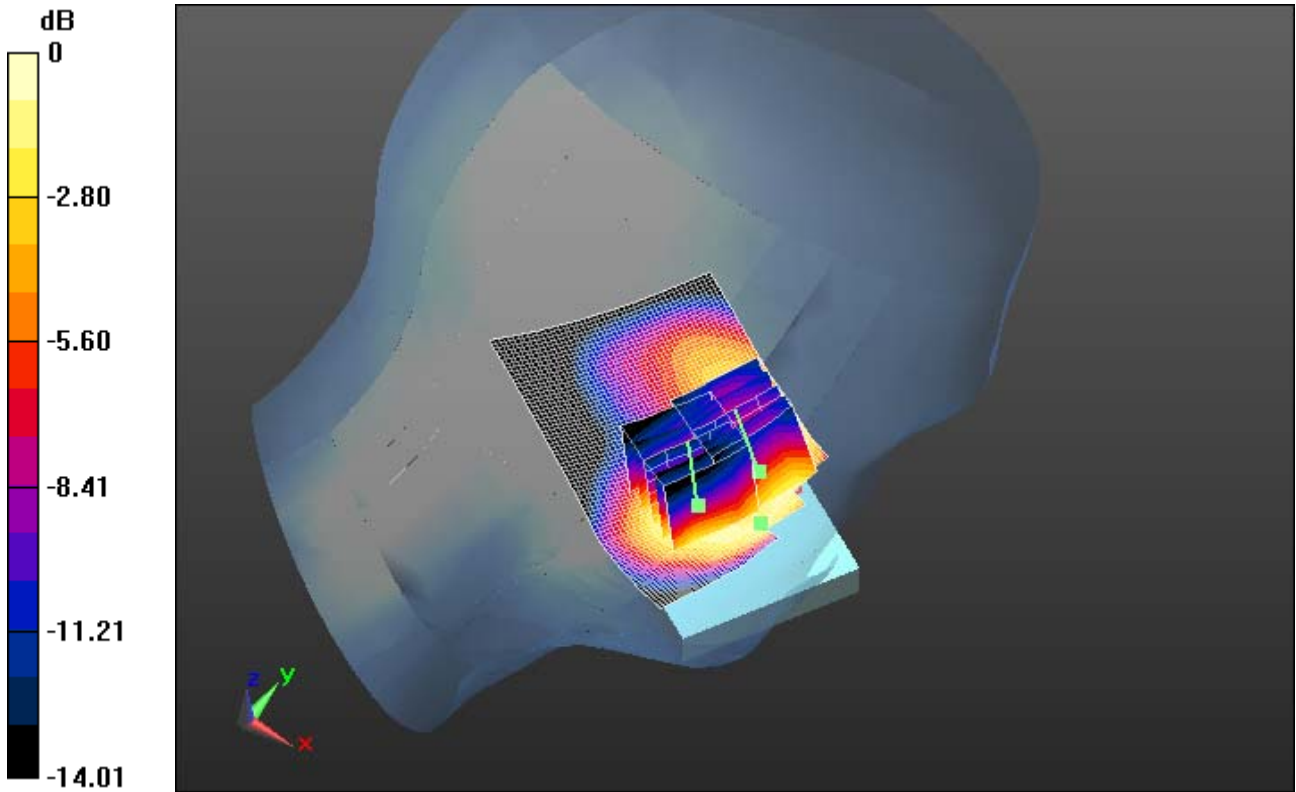
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Configuration/Touch position -/Zoom Scan 2 (5x5x7) (5x5x7)/Cube 0:


Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 10.253 V/m; Power Drift = -0.05 dB
 Peak SAR (extrapolated) = 1.0390
SAR(1 g) = 0.784 mW/g; SAR(10 g) = 0.508 mW/g

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

Maximum value of SAR (measured) = 0.849 mW/g



0 dB = 0.850mW/g = -1.41 dB mW/g

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Date/Time: 2/2/2012 4:02:27 PM

Test Laboratory: RIM Testing Services

**LeftHandSide_Tilt_UMTS_Band_IV_mid_chan_amb_temp_23.0_liq_tem
p_21.6C**

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

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz
Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.433$ mho/m; $\epsilon_r = 40.995$;
 $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.1, 5.1, 5.1); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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


Maximum value of SAR (interpolated) = 0.522 mW/g

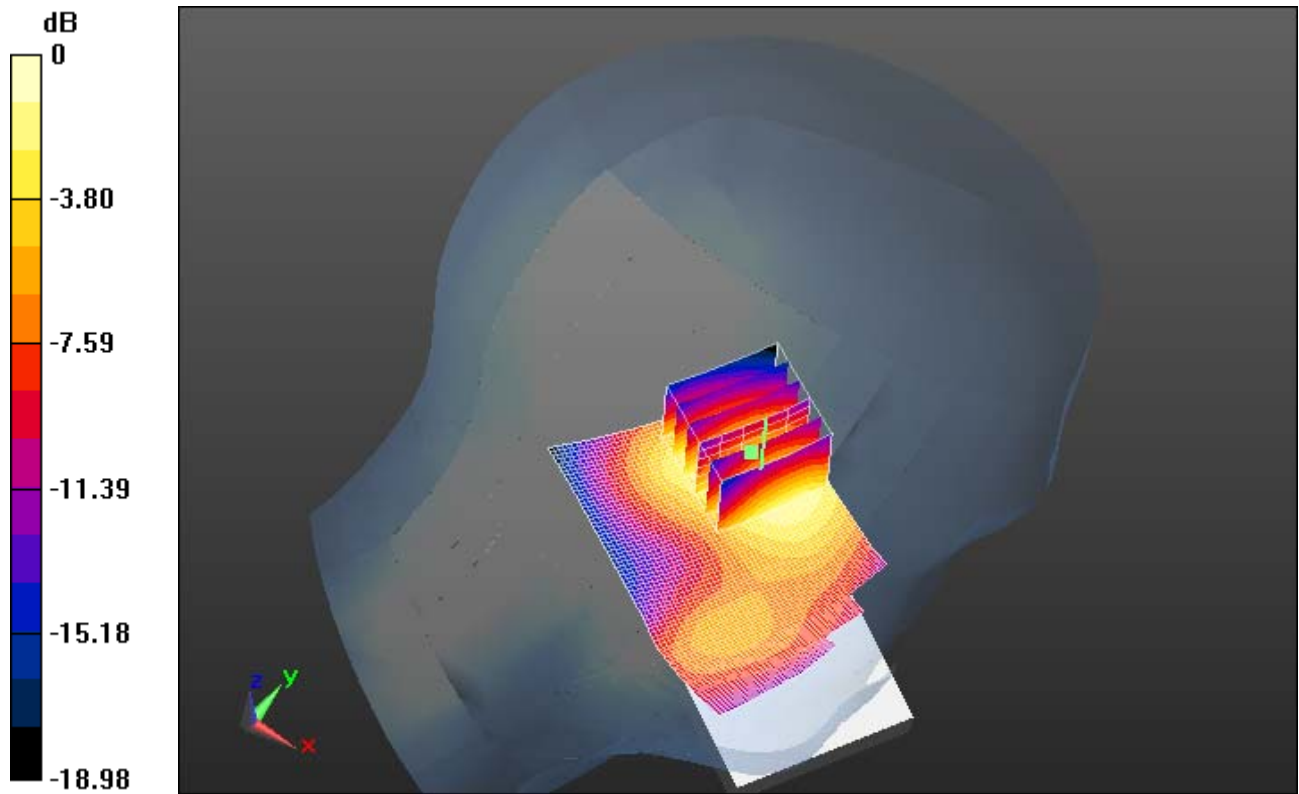
Configuration/Tilt position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.162 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.6290
SAR(1 g) = 0.448 mW/g; SAR(10 g) = 0.279 mW/g


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

Maximum value of SAR (measured) = 0.484 mW/g

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0 dB = 0.480mW/g = -6.38 dB mW/g

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Z axis plot for the worst case head configuration

