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	Author Data Andrew Becker	Dates of Test February 06 – March 6 , 2012	Test Report No RTS-5992-1203-12	FCC ID: L6AREV70UW

APPENDIX B2: VOLUME SCANS AND MULTI-BAND AVERAGE SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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Date/Time: 3/5/2012 8:37:22 PM

Test Laboratory: RIM Testing Services

**Volume_Scan_RightHandSide_UMTS_band_II_low_chan_amb_temp_22
.8C_liq_temp_21.4C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz
Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.351$ mho/m; $\epsilon_r = 39.672$;
 $\rho = 1000$ 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), $z = 32.7$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position - Volume Scan/Volume Scan

(13x15x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 14.566 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 2.0070

SAR(1 g) = 1.49 mW/g; SAR(10 g) = 0.930 mW/g

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

Maximum value of SAR (measured) = 1.566 mW/g

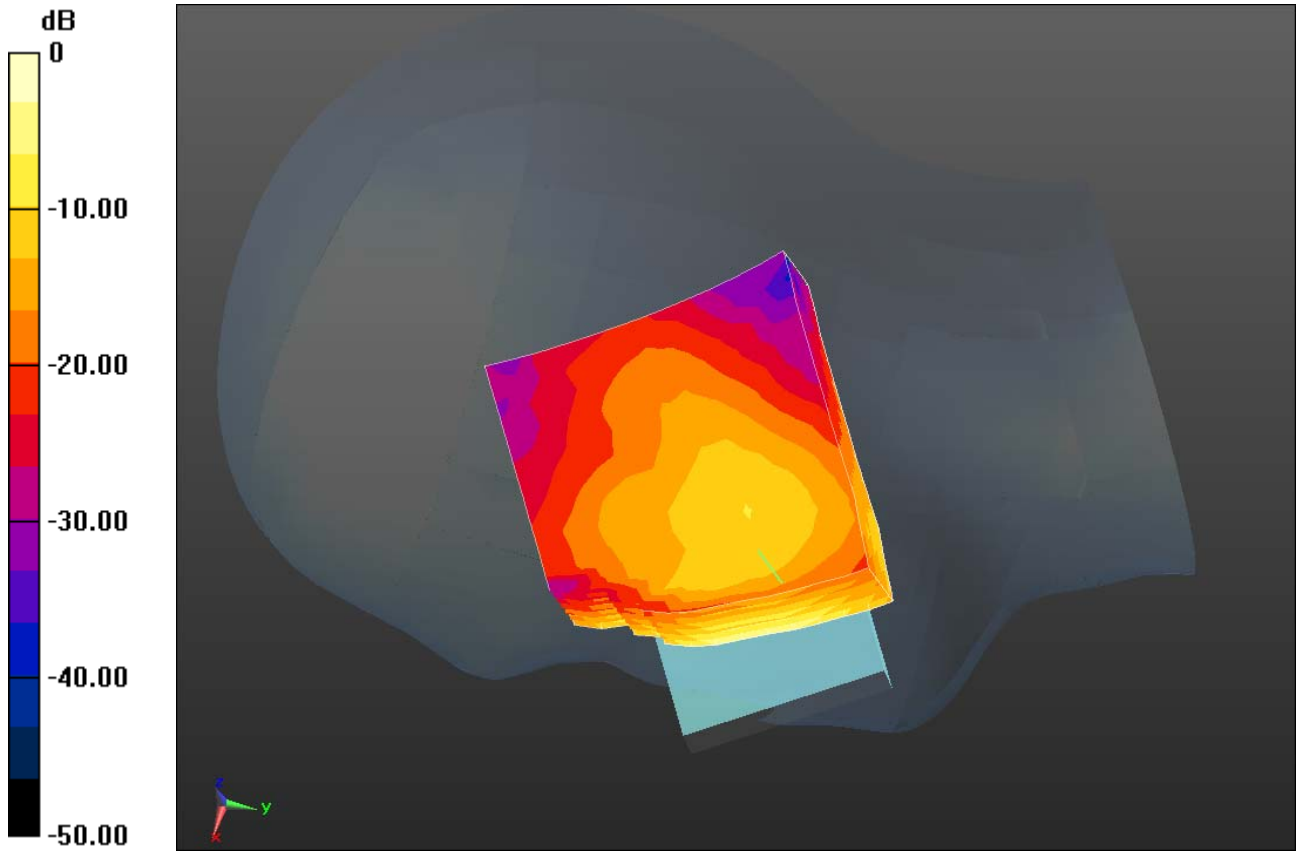
Author Data
Andrew Becker

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0 dB = 1.570mW/g = 3.92 dB mW/g

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Date/Time: 3/6/2012 12:46:34 AM

Test Laboratory: RIM Testing Services

**Volume_Scan_RightHandSide_802.11b_high_chan_amb_temp_22.9C_li
q_temp_19.9C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295B50C4

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

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.866$ mho/m; $\epsilon_r = 37.559$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position - Volume Scan/Volume Scan

(13x15x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 6.658 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.5150

SAR(1 g) = 0.262 mW/g; SAR(10 g) = 0.128 mW/g

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

Maximum value of SAR (measured) = 0.317 mW/g

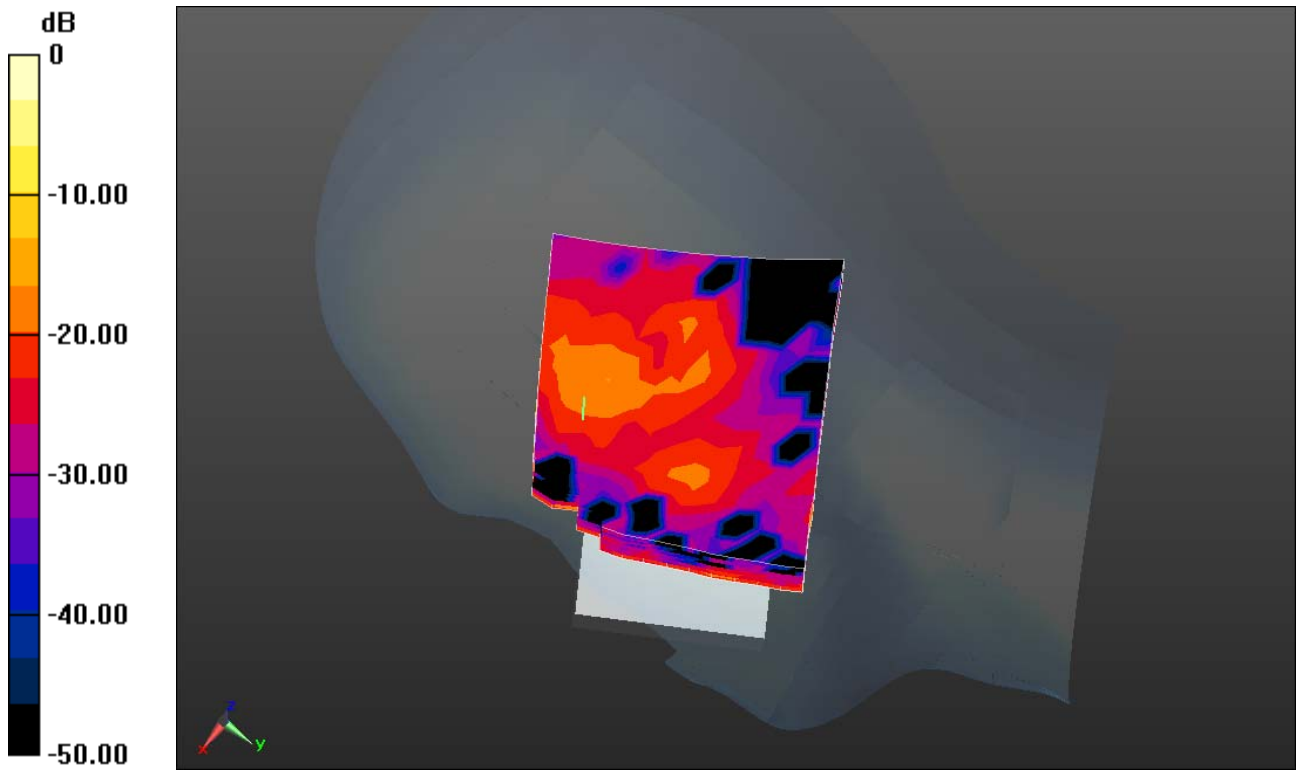
Author Data
Andrew Becker

Dates of Test
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0 dB = 0.320mW/g = -9.90 dB mW/g

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Multi-Band Average SAR_UMTS Band II_WiFi_RHT

Multi-Band Configurations:

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 3/5/2012 8:37:22 PM

Test Laboratory: RIM Testing Services

File Name:

[Volume Scan RightHandSide UMTS band II low chan amb temp 22.8C liq temp 21.4C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295EC578

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1;

PMF: 1

Medium: HSL1900 Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.351$ mho/m; $\epsilon_r = 39.672$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

- Probe: ET3DV6 - SN1644; ConvF(5.1, 5.1, 5.1); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 3/6/2012 12:46:34 AM

Test Laboratory: RIM Testing Services

File Name:


[Volume Scan RightHandSide 802.11b high chan amb temp 22.9C liq temp 19.9C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 295B50C4

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1; PMF:

1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.866$

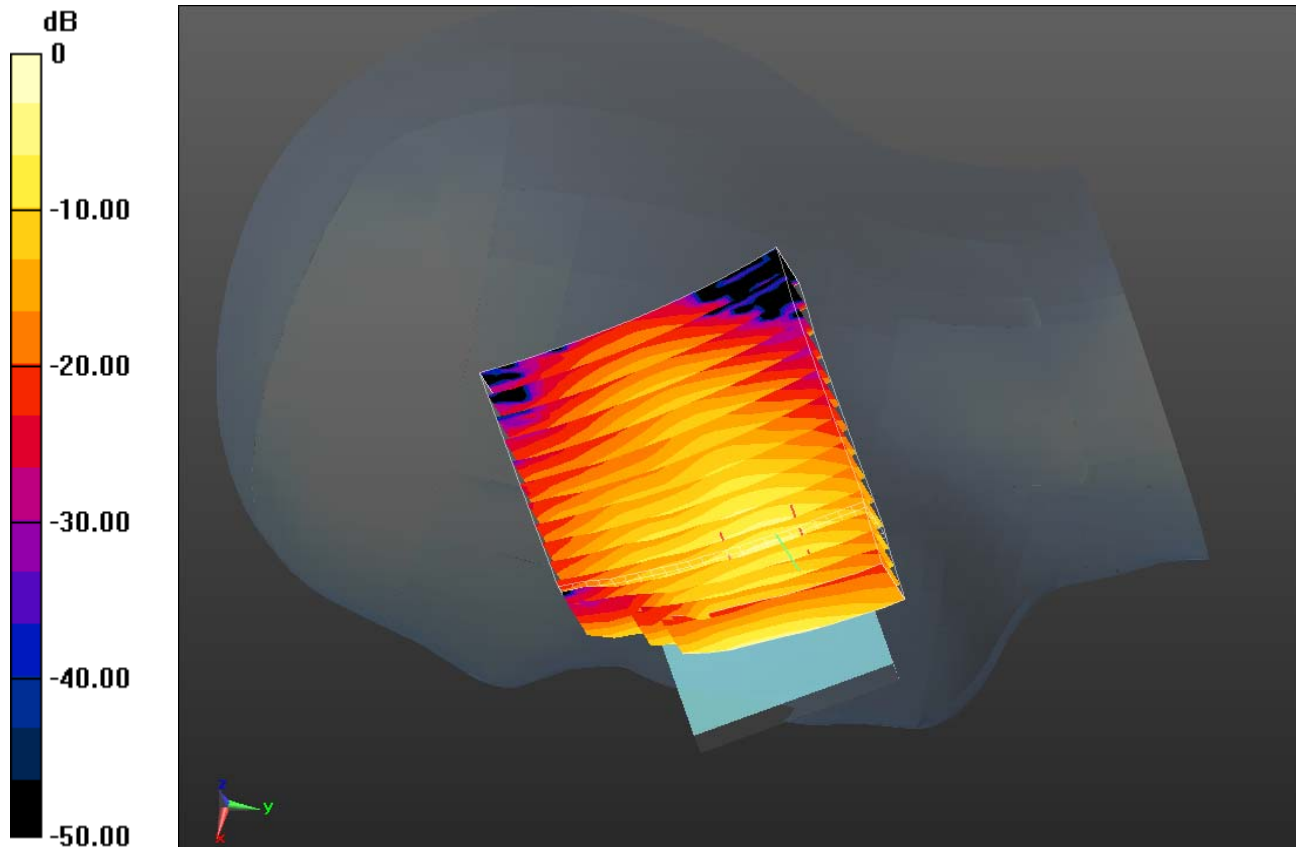
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mho/m ; $\epsilon_r = 37.559$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Right Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)


- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)

Multi Band Result:

SAR(1 g) = 1.56 mW/g; SAR(10 g) = 0.973 mW/g
 Maximum value of SAR (interpolated) = 2.106 mW/g



0 dB = 2.110mW/g = 6.49 dB mW/g

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Date/Time: 3/5/2012 5:33:17 PM

Test Laboratory: RIM Testing Services

**Volume_Scan_LeftHandSide_UMTS_band_II_high_chan_amb_temp_23.
1C_liq_temp_21.4C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 295EC578

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz
Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.406$ mho/m; $\epsilon_r = 39.422$;
 $\rho = 1000$ 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), $z = 32.7$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position - Volume Scan/Volume Scan

(13x15x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 12.489 V/m; Power Drift = 0.33 dB

Peak SAR (extrapolated) = 1.8700

SAR(1 g) = 1.35 mW/g; SAR(10 g) = 0.855 mW/g

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

Maximum value of SAR (measured) = 1.423 mW/g

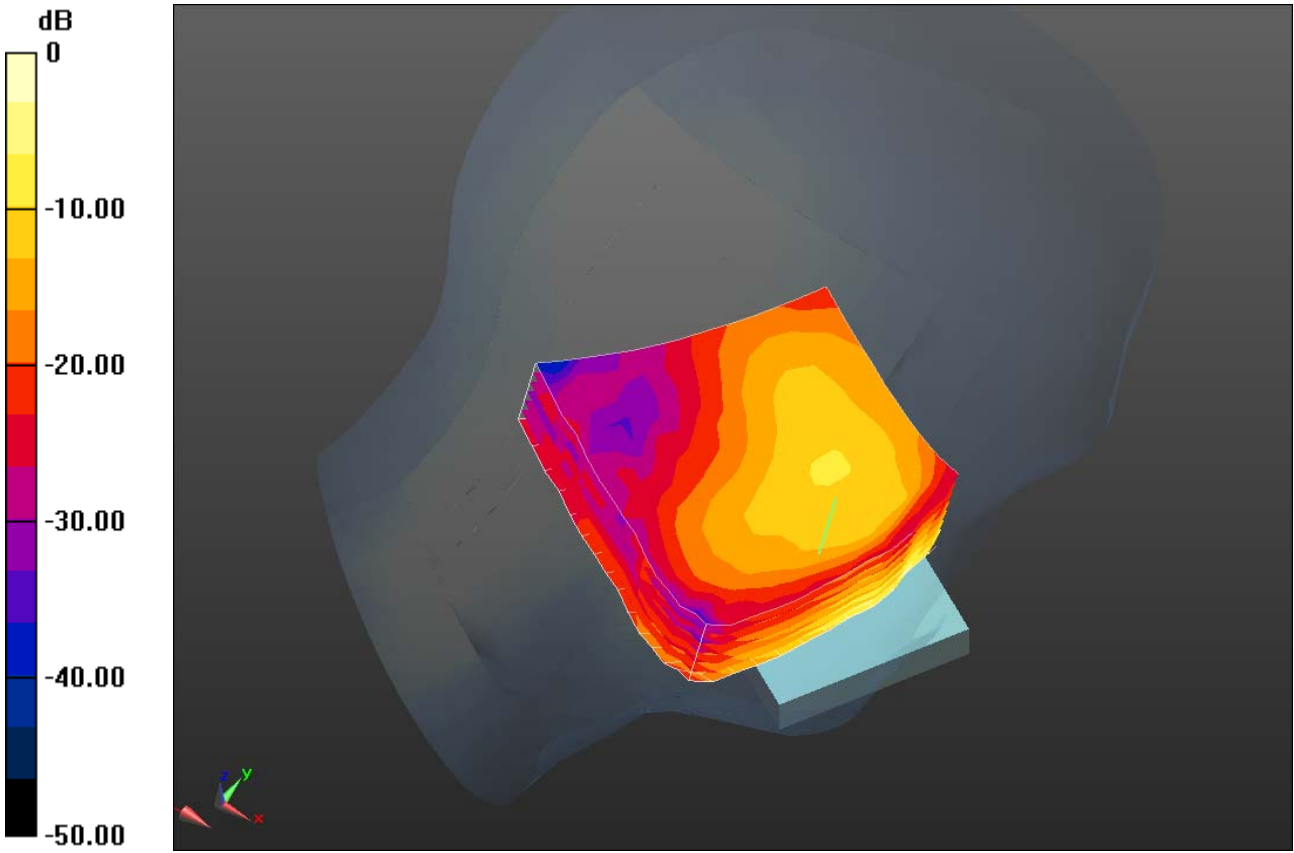
Author Data
Andrew Becker

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0 dB = 1.420mW/g = 3.05 dB mW/g

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Date/Time: 3/6/2012 2:58:57 AM

Test Laboratory: RIM Testing Services

**Volume_Scan_LeftHandSide_802.11b_mid_chan_amb_temp_22.4C_liq_
temp_19.9C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 295EC578

Communication System: 802.11 b (2450); Frequency: 2437 MHz
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.839$ mho/m; $\epsilon_r = 37.66$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position - Volume Scan/Volume Scan

(13x15x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 6.014 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.5140

SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.110 mW/g

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

Maximum value of SAR (measured) = 0.318 mW/g

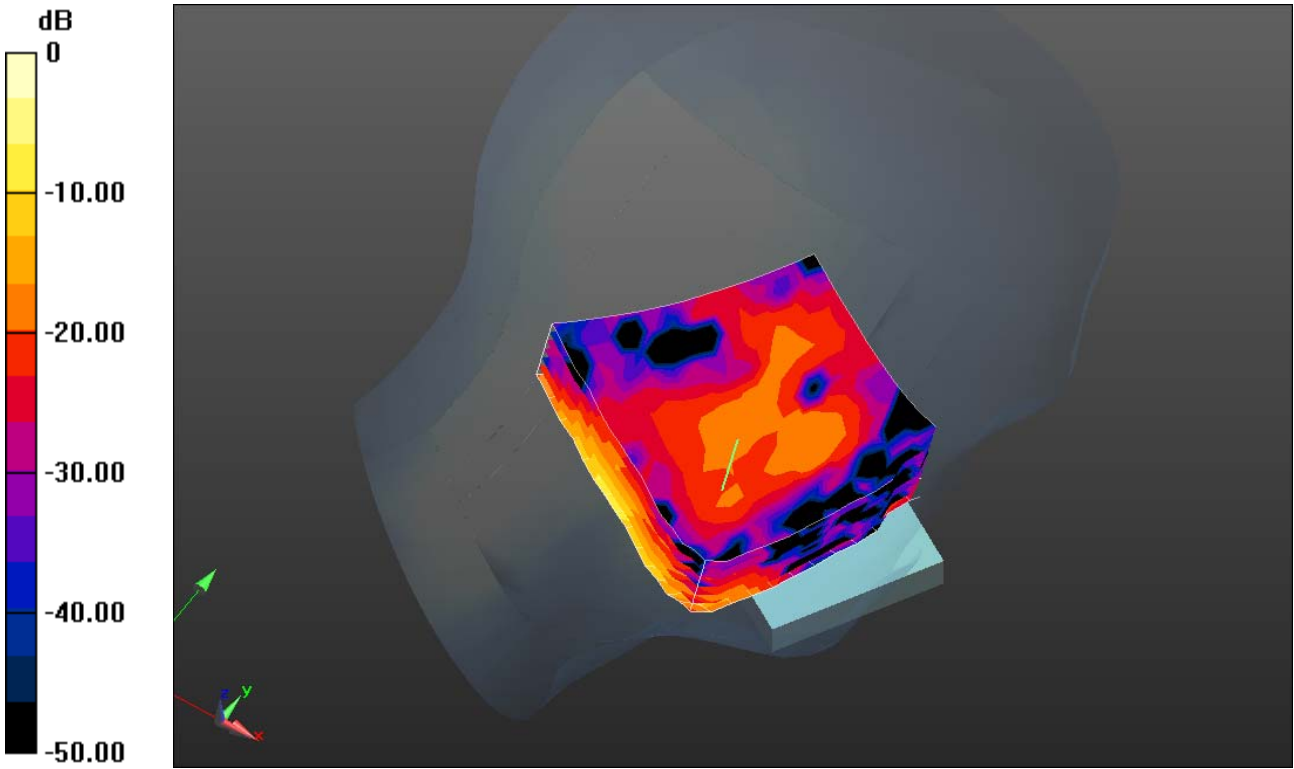
Author Data
Andrew Becker

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0 dB = 0.320mW/g = -9.90 dB mW/g

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Multi-Band Average SAR_UMTS Band II_WiFi_LHT

Multi-Band Configurations:

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 3/5/2012 5:33:17 PM

Test Laboratory: RIM Testing Services

File Name:

[Volume Scan LeftHandSide UMTS band II high chan amb temp 23.1C liq temp 21.4C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 295EC578

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1;

PMF: 1

Medium: HSL1900 Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.406 \text{ mho/m}$; $\epsilon_r = 39.422$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

- Probe: ET3DV6 - SN1644; ConvF(5.1, 5.1, 5.1); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 3/6/2012 2:58:57 AM

Test Laboratory: RIM Testing Services

File Name:


[Volume Scan LeftHandSide 802.11b mid chan amb temp 22.4C liq temp 19.9C.da 52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 295EC578

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1; PMF:

1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.839$

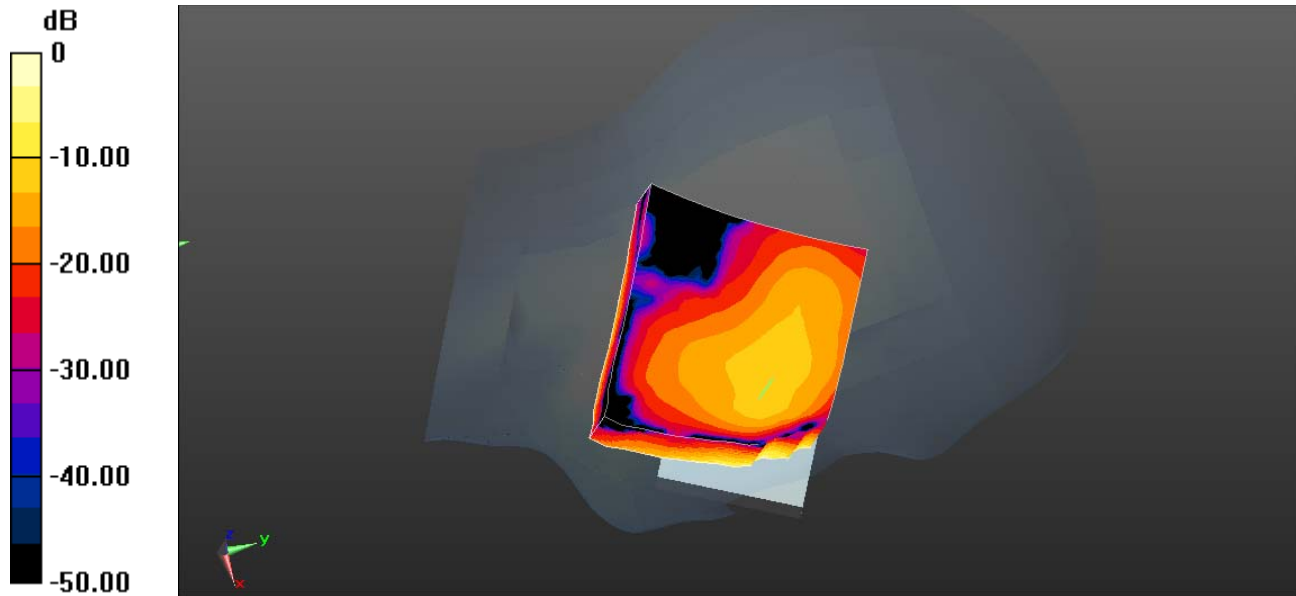
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$\mu\text{ho/m}$; $\epsilon_r = 37.66$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)

Multi Band Result:

SAR(1 g) = 1.47 mW/g; SAR(10 g) = 0.917 mW/g
 Maximum value of SAR (interpolated) = 2.065 mW/g



0 dB = 2.070mW/g = 6.32 dB mW/g