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APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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Date/Time: 4/28/2010 8:44:25 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [LeftHandSide_EDGE850_mid_chan_amb_temp_22.7_liq_temp_21.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 221597EB
Program Name: Compliance Testing: (Left-Hand Side)

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.891 \text{ mho/m}$; $\epsilon_r = 42.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.714 mW/g

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 = 8.79 V/m ; Power Drift = 0.010 dB

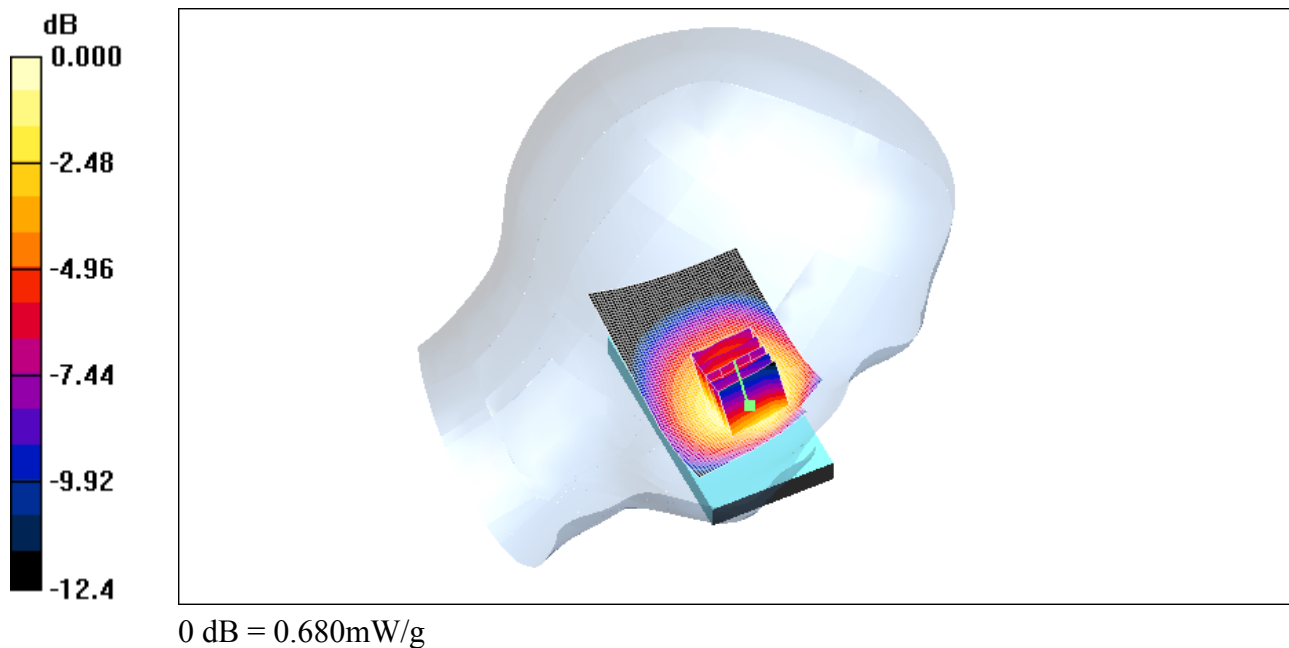
Peak SAR (extrapolated) = 0.863 W/kg

SAR(1 g) = 0.644 mW/g ; SAR(10 g) = 0.462 mW/g

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

Maximum value of SAR (measured) = 0.680 mW/g

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Date/Time: 4/28/2010 9:03:03 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_Tilt_EDGE850_mid_chan_amb_temp_22.8_liq_temp_21.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 221597EB

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.891 \text{ mho/m}$; $\epsilon_r = 42.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.395 mW/g

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 = 14.9 V/m; Power Drift = 0.045 dB

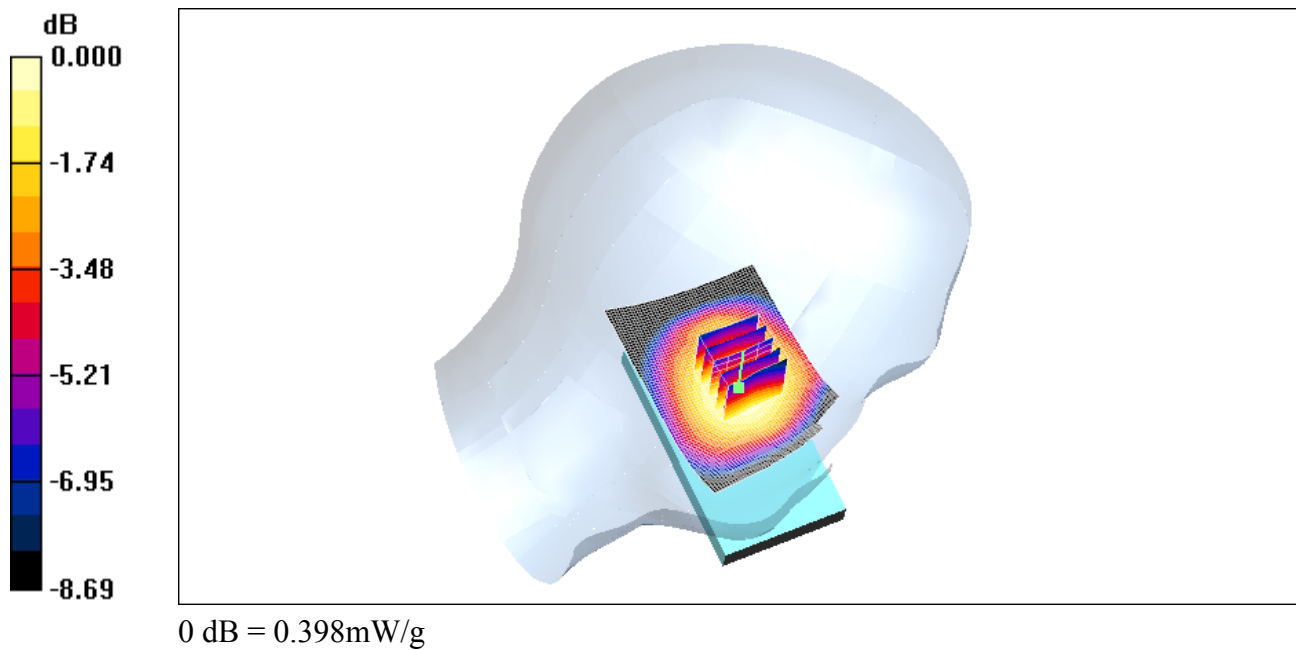
Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.378 mW/g; SAR(10 g) = 0.287 mW/g

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

Maximum value of SAR (measured) = 0.398 mW/g

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Date/Time: 4/28/2010 7:07:57 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide_EDGE850_mid_chan_amb_temp_22.7_liq_temp_21.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 221597EB
Program Name: Compliance Testing: (Right-Hand Side)

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.891 \text{ mho/m}$; $\epsilon_r = 42.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.880 mW/g

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 = 10.6 V/m ; Power Drift = -0.095 dB

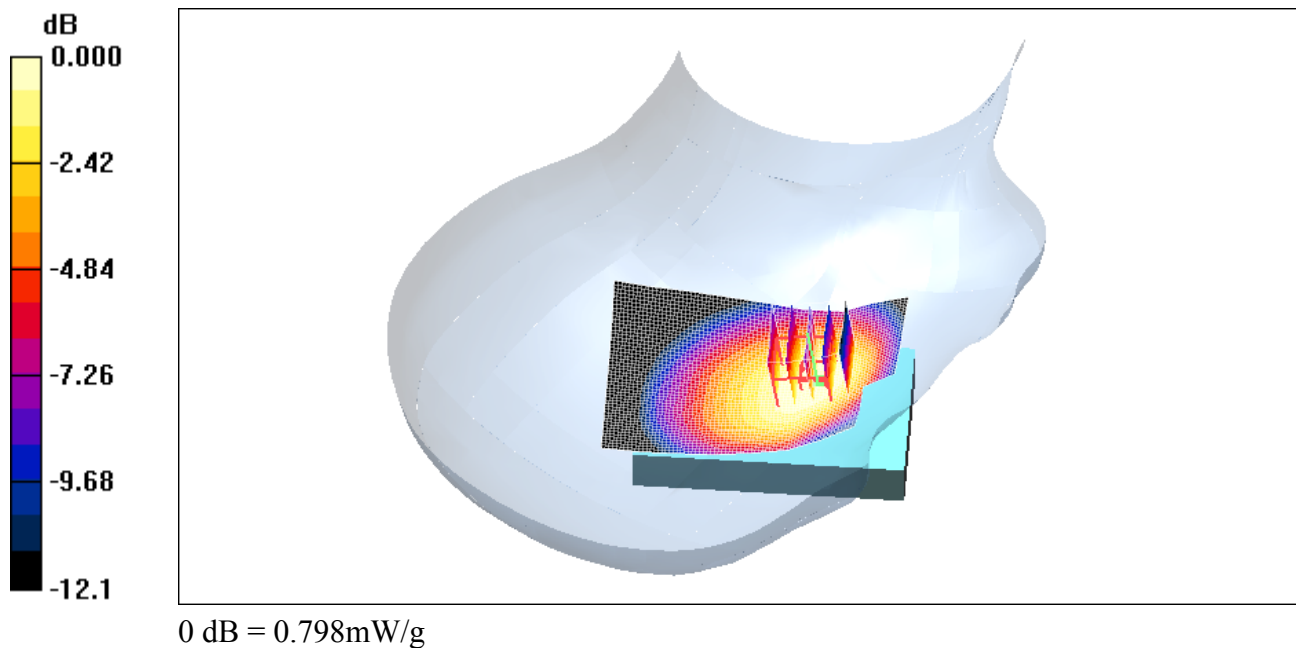
Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.758 mW/g ; SAR(10 g) = 0.533 mW/g

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

Maximum value of SAR (measured) = 0.798 mW/g

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Date/Time: 4/28/2010 7:40:54 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_Tilt_EDGE850_mid_chan_amb_temp_22.8_liq_temp_21.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 221597EB

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.891 \text{ mho/m}$; $\epsilon_r = 42.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.459 mW/g

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 = 15.8 V/m; Power Drift = 0.118 dB

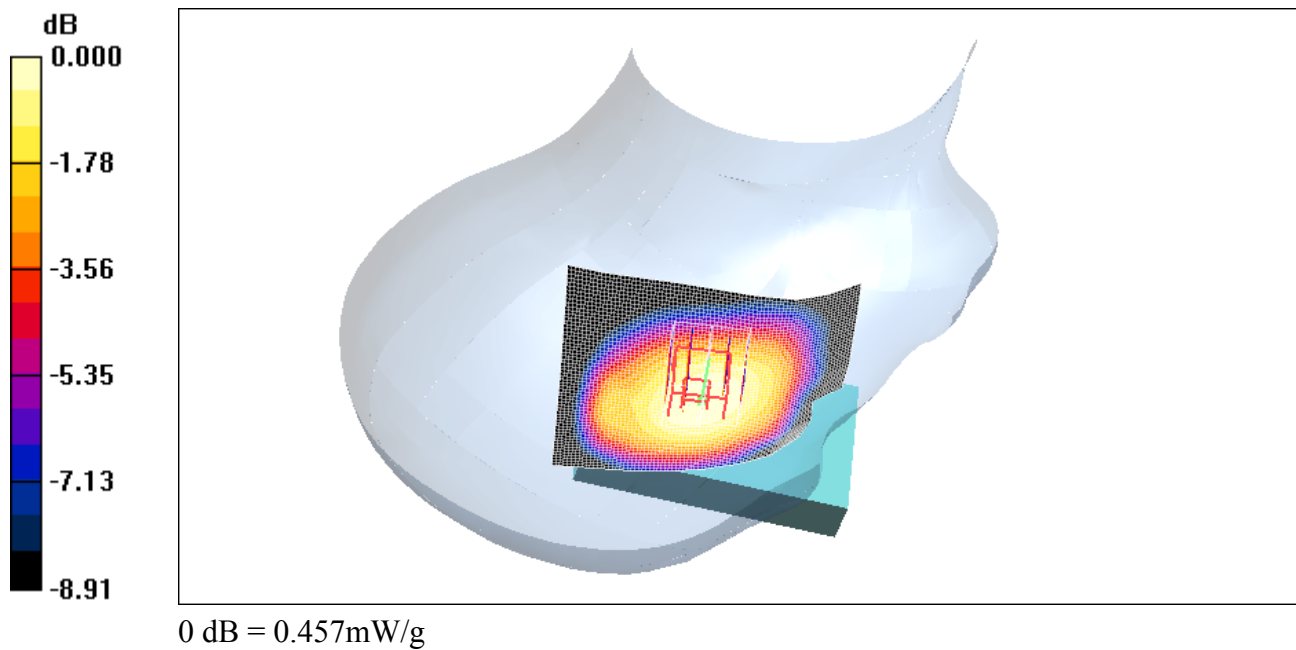
Peak SAR (extrapolated) = 0.535 W/kg

SAR(1 g) = 0.439 mW/g; SAR(10 g) = 0.332 mW/g

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

Maximum value of SAR (measured) = 0.457 mW/g

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Date/Time: 5/5/2010 8:47:18 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_UMTS_Band_IV_low_chan_amb_temp_22.8_liq_temp_21.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2230450D

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1712.4 \text{ MHz}$; $\sigma = 1.23 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

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

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 = 9.17 V/m ; Power Drift = -0.166 dB

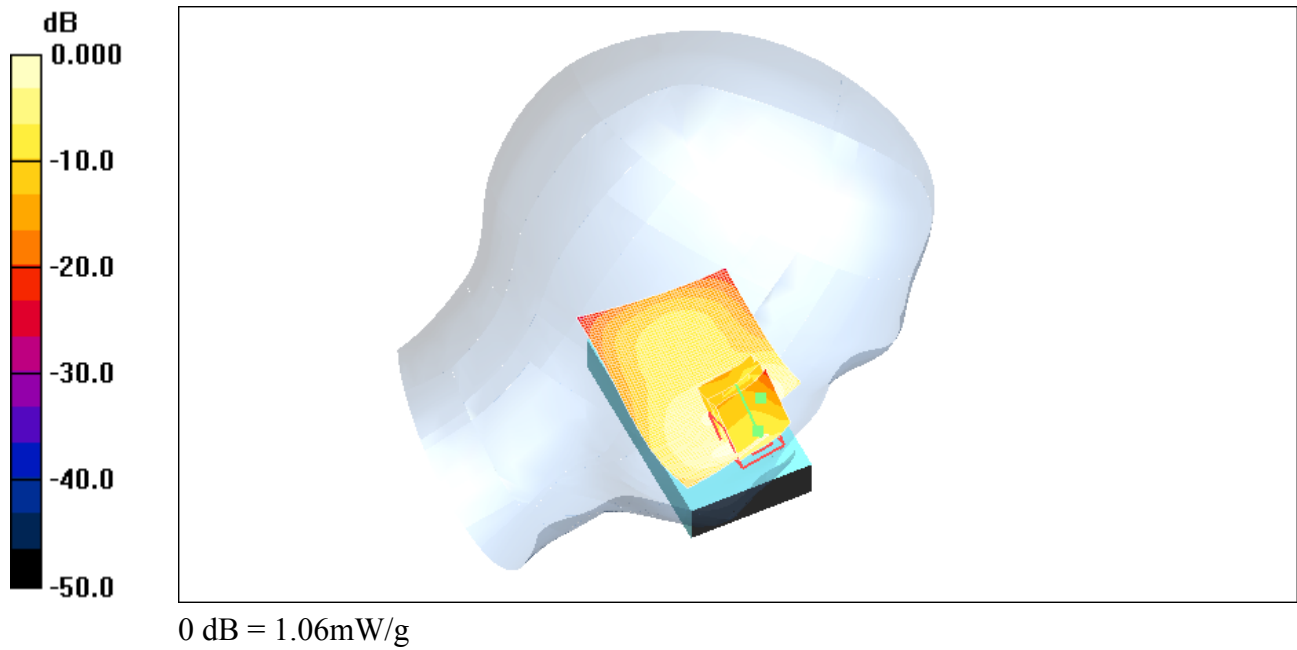
Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 0.978 mW/g ; SAR(10 g) = 0.533 mW/g

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

Maximum value of SAR (measured) = 1.06 mW/g

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Date/Time: 5/5/2010 8:27:28 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_UMTS_Band_IV_mid_chan_amb_temp_22.8_liq_temp_21.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2230450D

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.6 \text{ MHz}$; $\sigma = 1.28 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.925 mW/g

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 = 9.43 V/m ; Power Drift = -0.245 dB

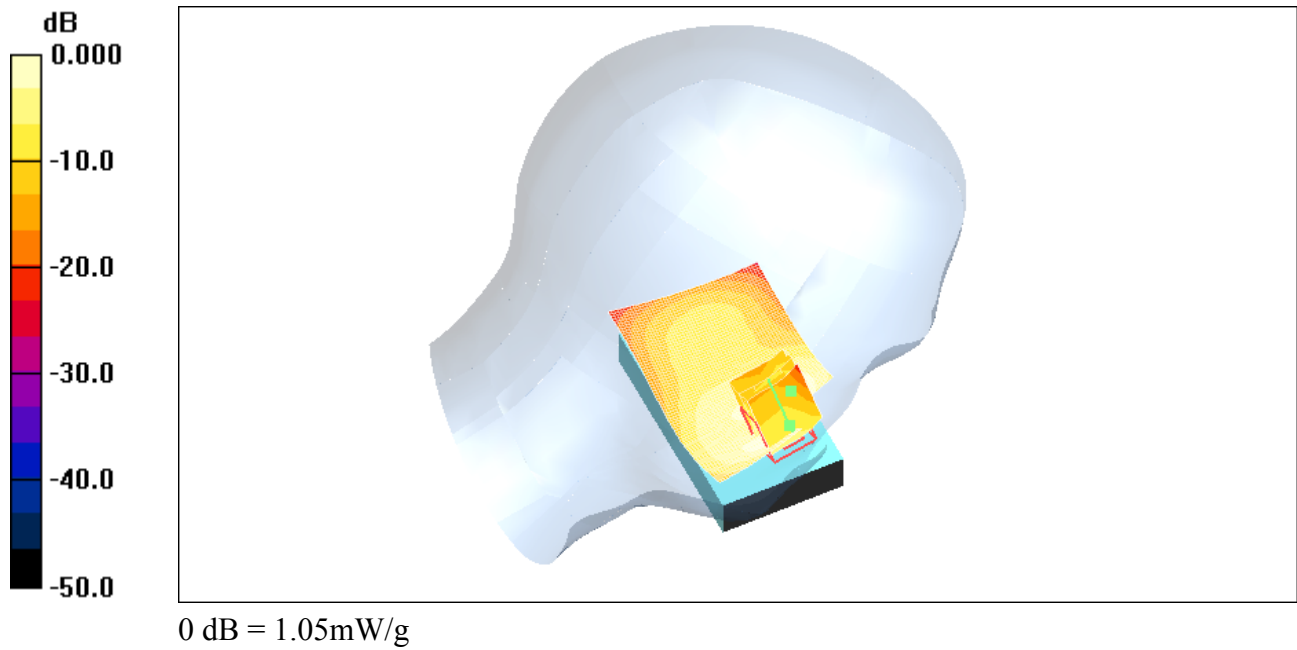
Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.964 mW/g ; SAR(10 g) = 0.524 mW/g

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

Maximum value of SAR (measured) = 1.05 mW/g

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Date/Time: 5/5/2010 9:03:01 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_UMTS_Band_IV_high_chan_amb_temp_22.8_liq_temp_21.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2230450D

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1752.6 \text{ MHz}$; $\sigma = 1.32 \text{ mho/m}$; $\epsilon_r = 39.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.898 mW/g

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 = 9.37 V/m; Power Drift = -0.095 dB

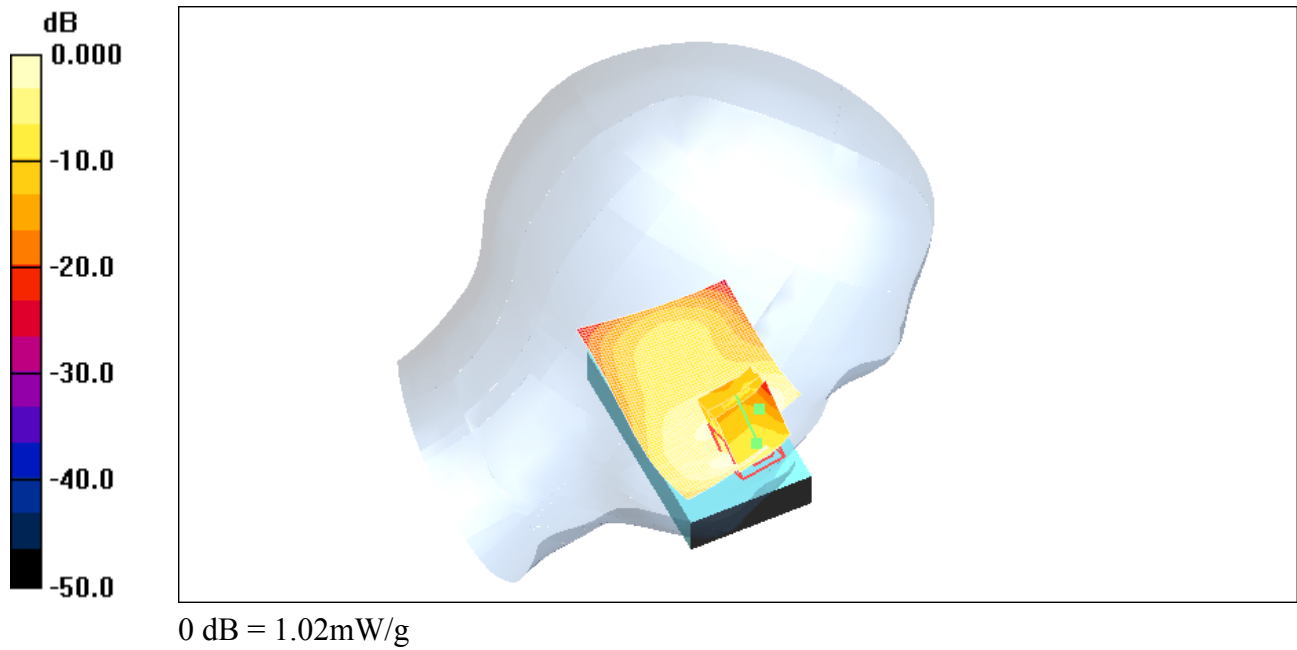
Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.930 mW/g; SAR(10 g) = 0.513 mW/g

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

Maximum value of SAR (measured) = 1.02 mW/g

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Date/Time: 5/5/2010 9:26:17 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_Tilt_UMTS_Band_IV_mid_chan_amb_temp_22.6_liq_temp_21.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2230450D

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.6 \text{ MHz}$; $\sigma = 1.28 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

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

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 = 12.8 V/m; Power Drift = 0.191 dB

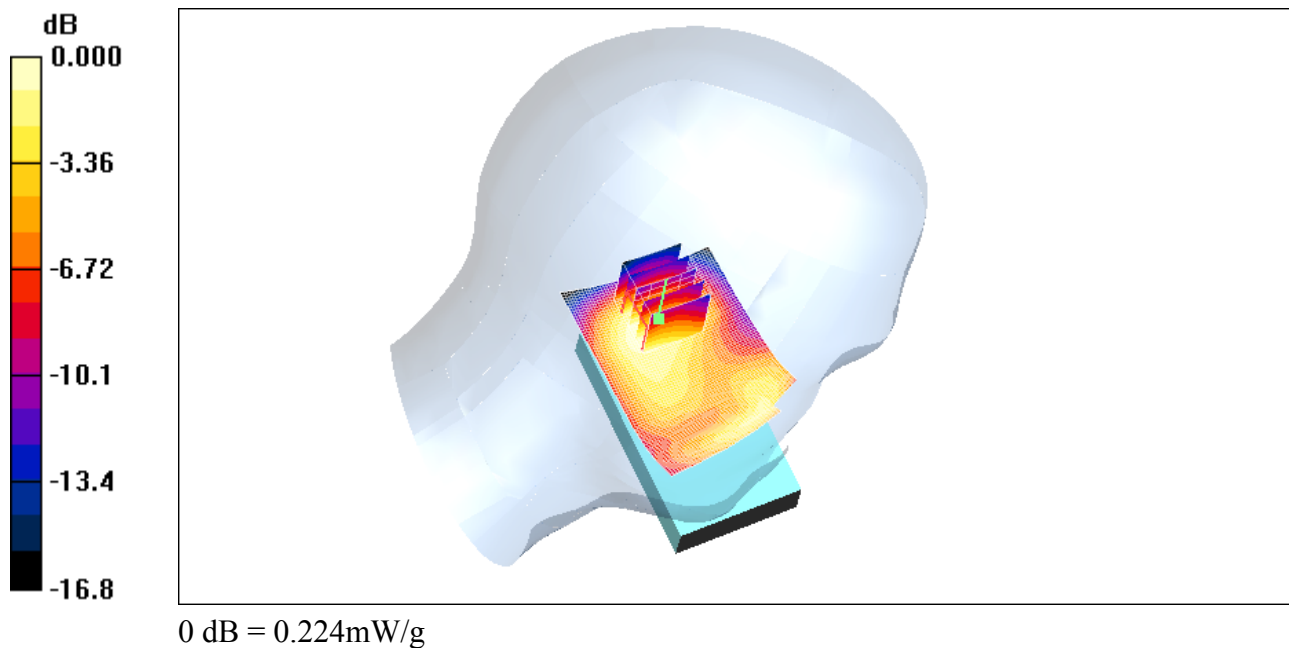
Peak SAR (extrapolated) = 0.302 W/kg

SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.131 mW/g

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

Maximum value of SAR (measured) = 0.224 mW/g

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Date/Time: 5/5/2010 2:47:39 PM

Test Laboratory: RIM Testing Services

RightHandSide_UMTS_Band_IV_low_chan_amb_temp_23.0_liq_temp_2 1.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2230450D

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1712.4 \text{ MHz}$; $\sigma = 1.23 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASy4 (High Precision Assessment)

DASy4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASy4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 1.28 mW/g

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 = 7.76 V/m ; Power Drift = 0.058 dB

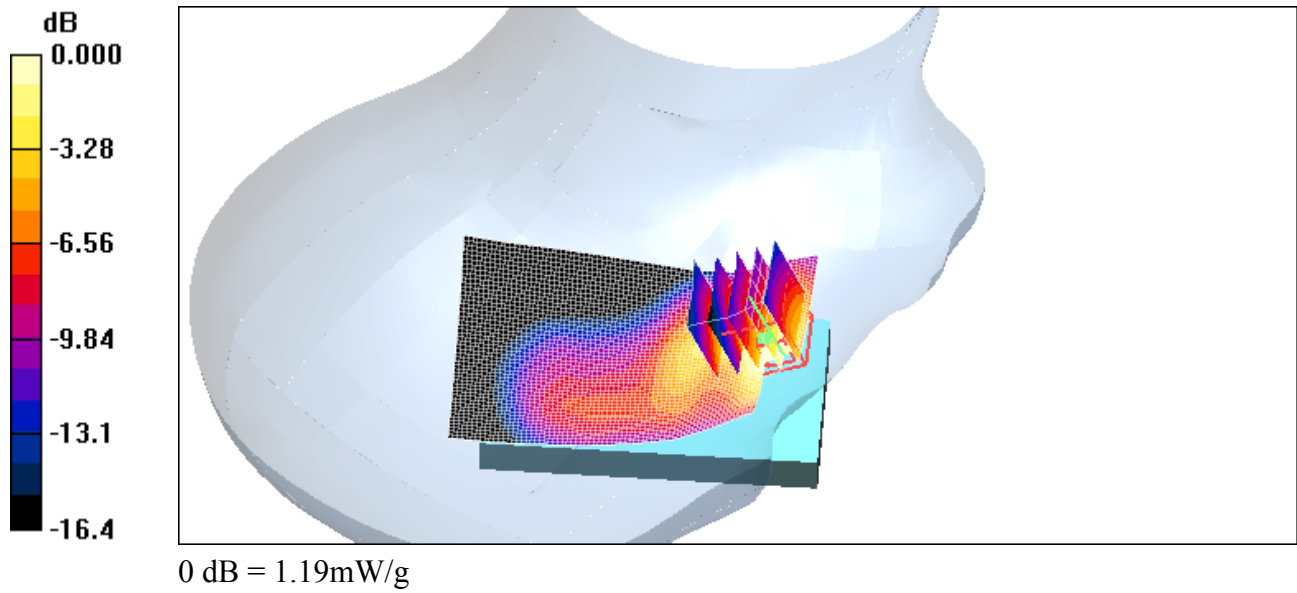
Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 1.12 mW/g ; SAR(10 g) = 0.602 mW/g

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

Maximum value of SAR (measured) = 1.19 mW/g

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Date/Time: 5/5/2010 2:29:42 PM

Test Laboratory: RIM Testing Services

RightHandSide_UMTS_Band_IV_mid_chan_amb_temp_22.9_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2230450D

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.6 \text{ MHz}$; $\sigma = 1.28 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASy4 (High Precision Assessment)

DASy4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASy4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 1.30 mW/g

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 = 7.72 V/m ; Power Drift = -0.156 dB

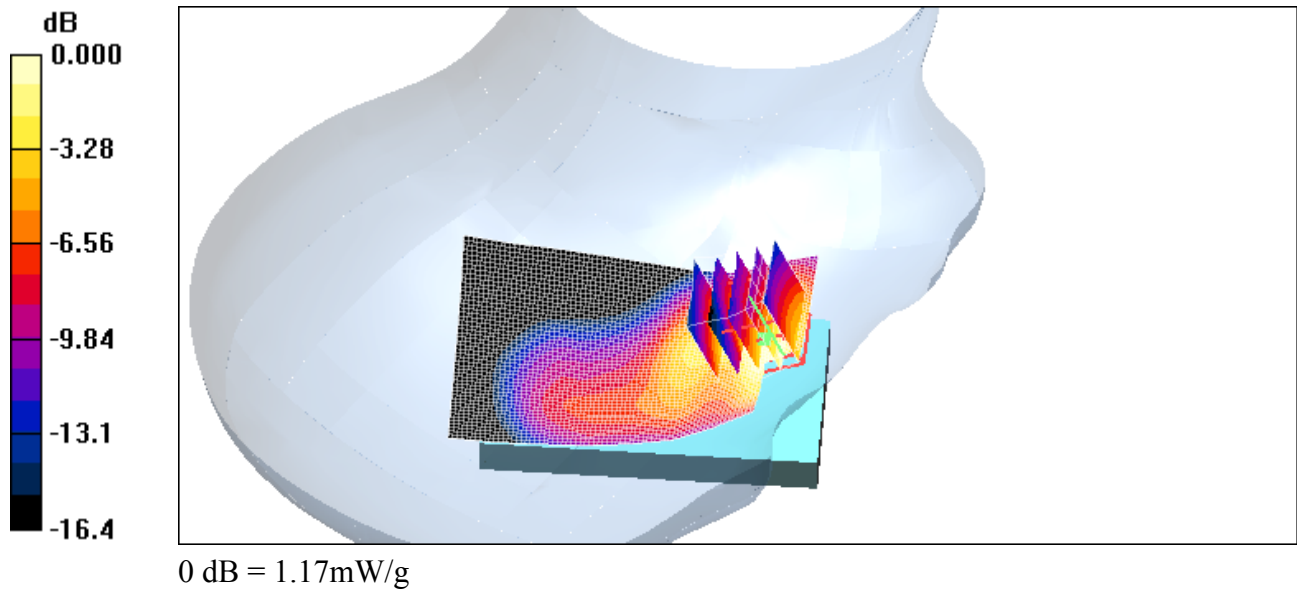
Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 1.1 mW/g ; SAR(10 g) = 0.609 mW/g

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

Maximum value of SAR (measured) = 1.17 mW/g

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Date/Time: 5/5/2010 3:02:34 PM

Test Laboratory: RIM Testing Services

RightHandSide_UMTS_Band_IV_high_chan_amb_temp_22.9_liq_temp_21.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2230450D

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1752.6 \text{ MHz}$; $\sigma = 1.32 \text{ mho/m}$; $\epsilon_r = 39.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 1.28 mW/g

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 = 7.59 V/m ; Power Drift = 0.051 dB

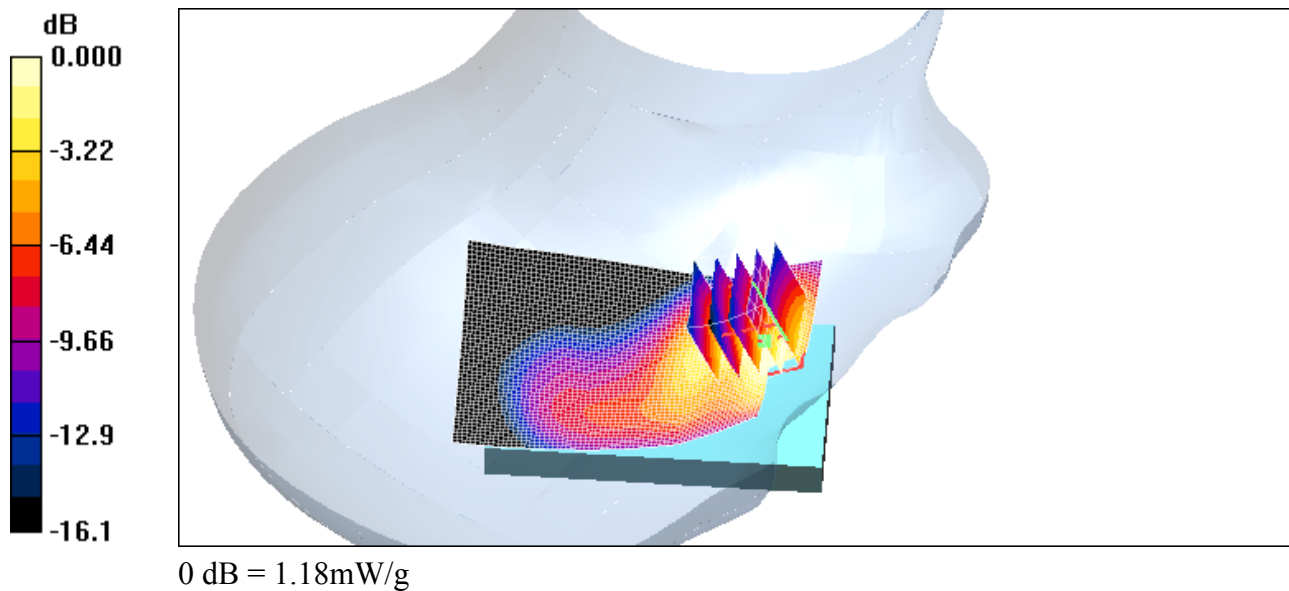
Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 1.07 mW/g ; SAR(10 g) = 0.610 mW/g

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

Maximum value of SAR (measured) = 1.18 mW/g

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Date/Time: 5/5/2010 3:17:42 PM

Test Laboratory: RIM Testing Services

**RightHandSide_Tilt__UMTS_Band_IV_low_chan_amb_temp_22.8_liq_tem
_21.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2230450D

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1712.4 \text{ MHz}$; $\sigma = 1.23 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASy4 (High Precision Assessment)

DASy4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASy4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.286 mW/g

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 = 10.7 V/m; Power Drift = -0.002 dB

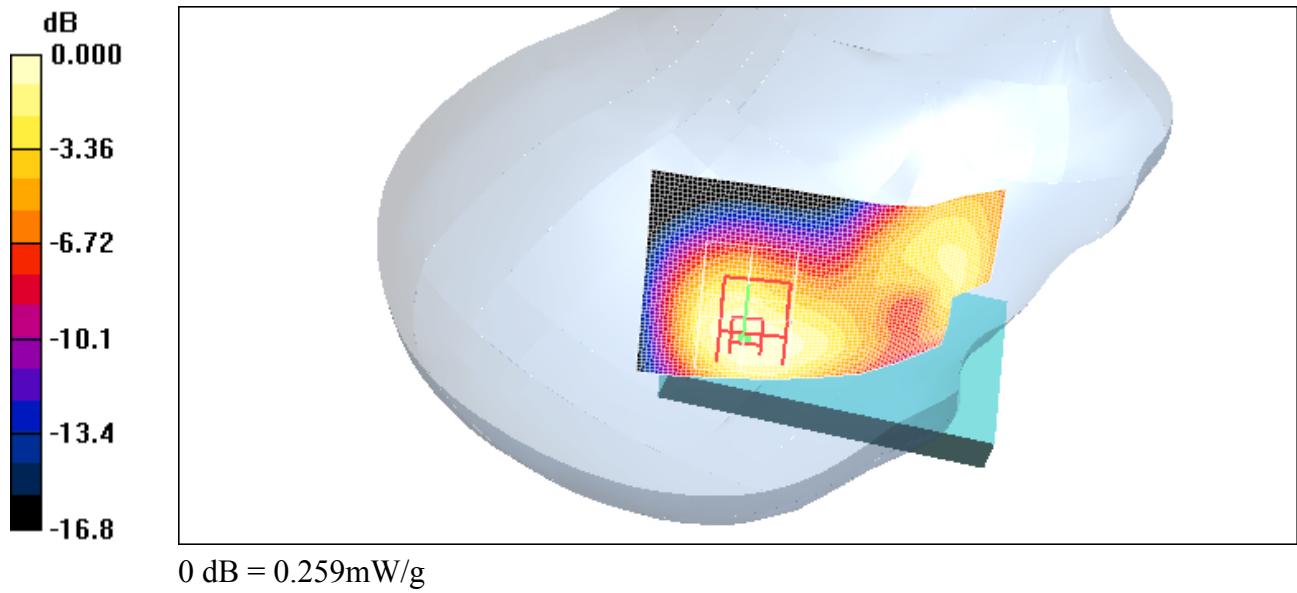
Peak SAR (extrapolated) = 0.343 W/kg

SAR(1 g) = 0.243 mW/g; SAR(10 g) = 0.158 mW/g

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

Maximum value of SAR (measured) = 0.259 mW/g

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Date/Time: 5/4/2010 5:18:34 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [LeftHandSide_EDGE1900_mid_chan_amb_temp_22.4_liq_temp_21.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 221597EB
Program Name: Compliance Testing: (Left-Hand Side)

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

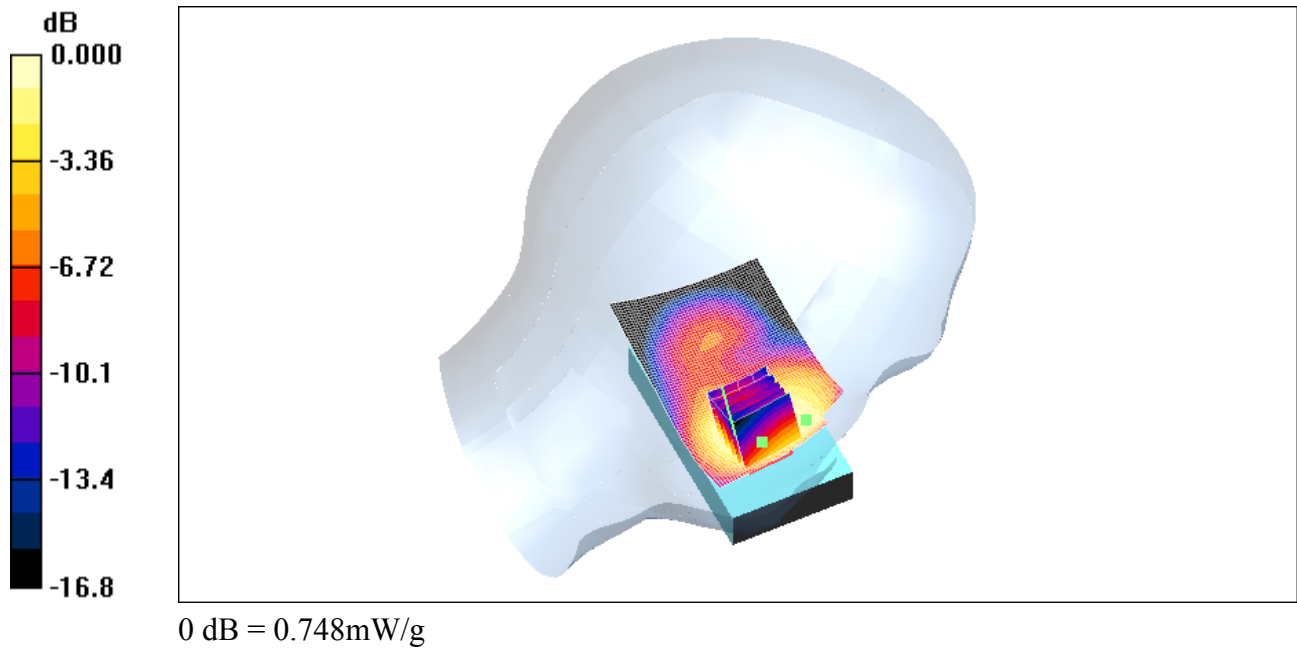
- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.729 mW/g

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 = 10.0 V/m; Power Drift = -0.129 dB
Peak SAR (extrapolated) = 1.00 W/kg
SAR(1 g) = 0.686 mW/g; SAR(10 g) = 0.416 mW/g

Maximum value of SAR (measured) = 0.748 mW/g

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Date/Time: 5/4/2010 5:39:55 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_Tilt_EDGE1900_mid_chan_amb_temp_22.6_liq_temp_21.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 221597EB

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

Maximum value of SAR (interpolated) = 0.288 mW/g

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

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

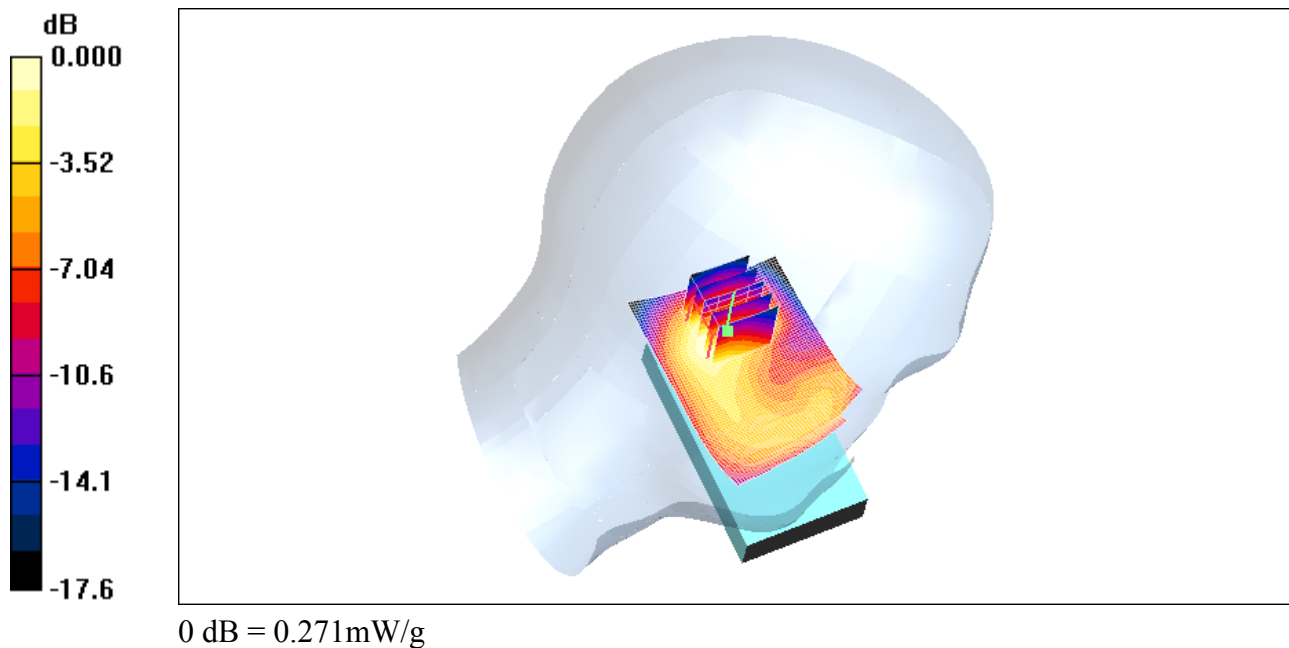
Reference Value = 13.6 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 0.407 W/kg

SAR(1 g) = 0.253 mW/g; SAR(10 g) = 0.145 mW/g

Maximum value of SAR (measured) = 0.271 mW/g

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Date/Time: 5/4/2010 1:35:57 PM

Test Laboratory: RIM Testing Services

**RightHandSide_EDGE1900_mid_chan_amb_temp_22.6_liq_temp_22.0
C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 221597EB

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

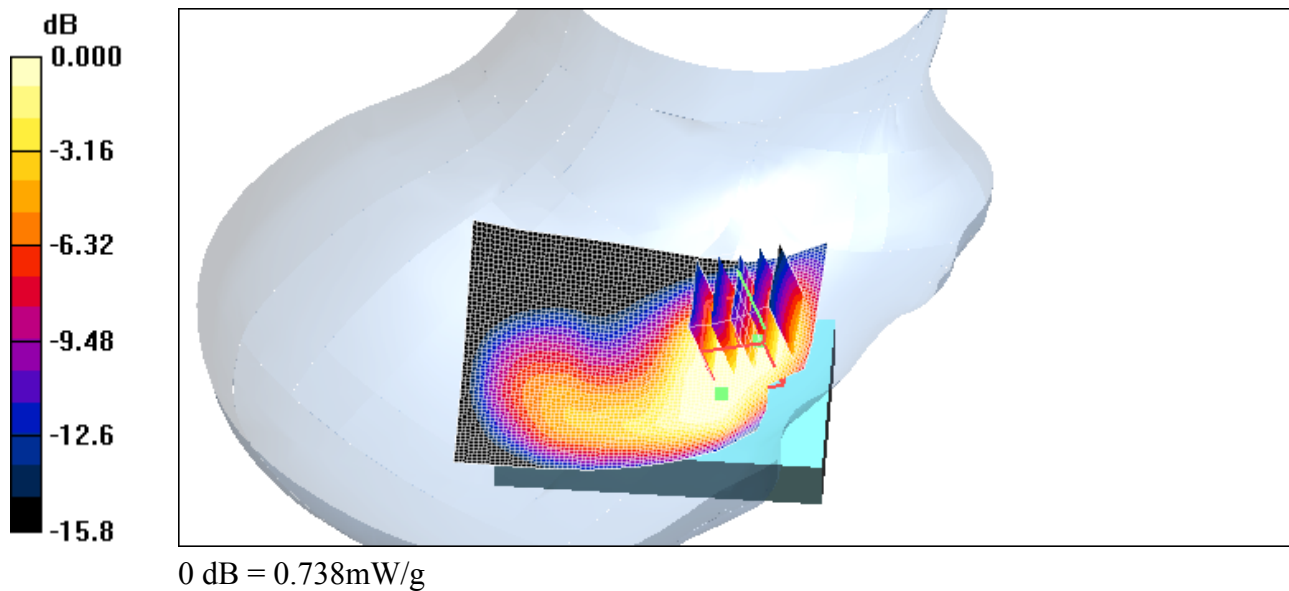
- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.942 mW/g

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 = 10.3 V/m; Power Drift = -0.280 dB
Peak SAR (extrapolated) = 1.19 W/kg
SAR(1 g) = 0.664 mW/g; SAR(10 g) = 0.404 mW/g

Maximum value of SAR (measured) = 0.738 mW/g

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Date/Time: 5/4/2010 1:54:12 PM

Test Laboratory: RIM Testing Services

RightHandSide_GSM1900_mid_chan_amb_temp_22.5_liq_temp_22.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 221597EB

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section
Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

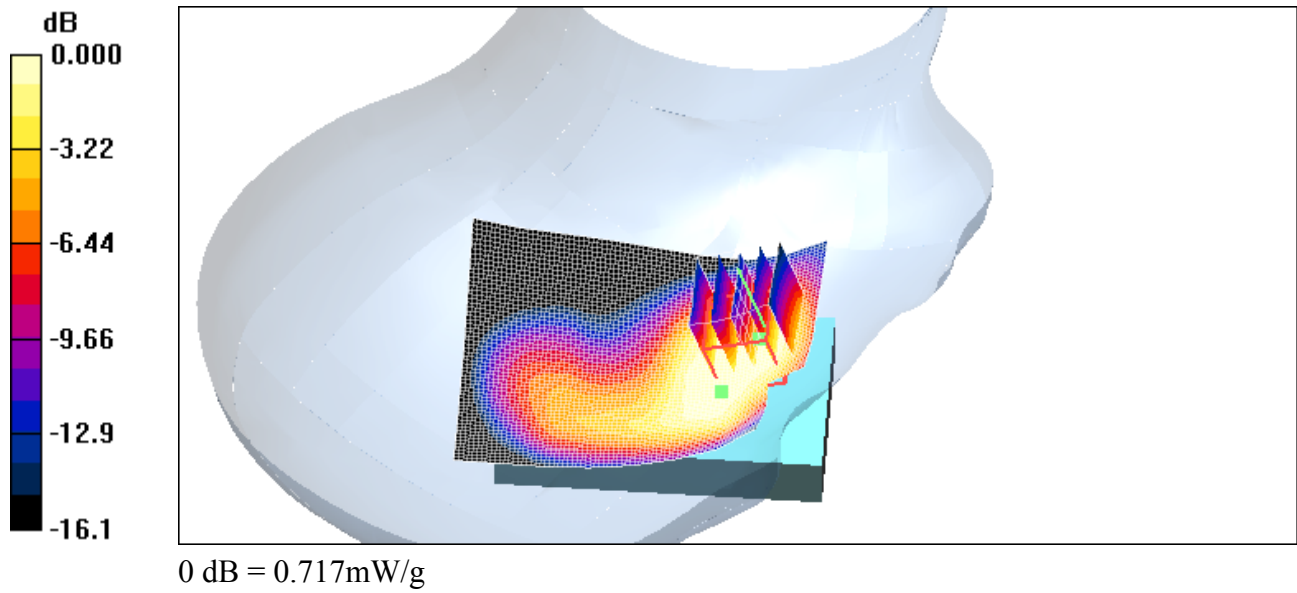
- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.888 mW/g

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 = 9.57 V/m; Power Drift = 0.030 dB
Peak SAR (extrapolated) = 1.14 W/kg
SAR(1 g) = 0.638 mW/g; SAR(10 g) = 0.382 mW/g

Maximum value of SAR (measured) = 0.717 mW/g

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Date/Time: 5/4/2010 2:10:45 PM

Test Laboratory: RIM Testing Services

RightHandSide_Tilt_EDGE1900_mid_chan_amb_temp_22.4_liq_temp_2 2.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 221597EB

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

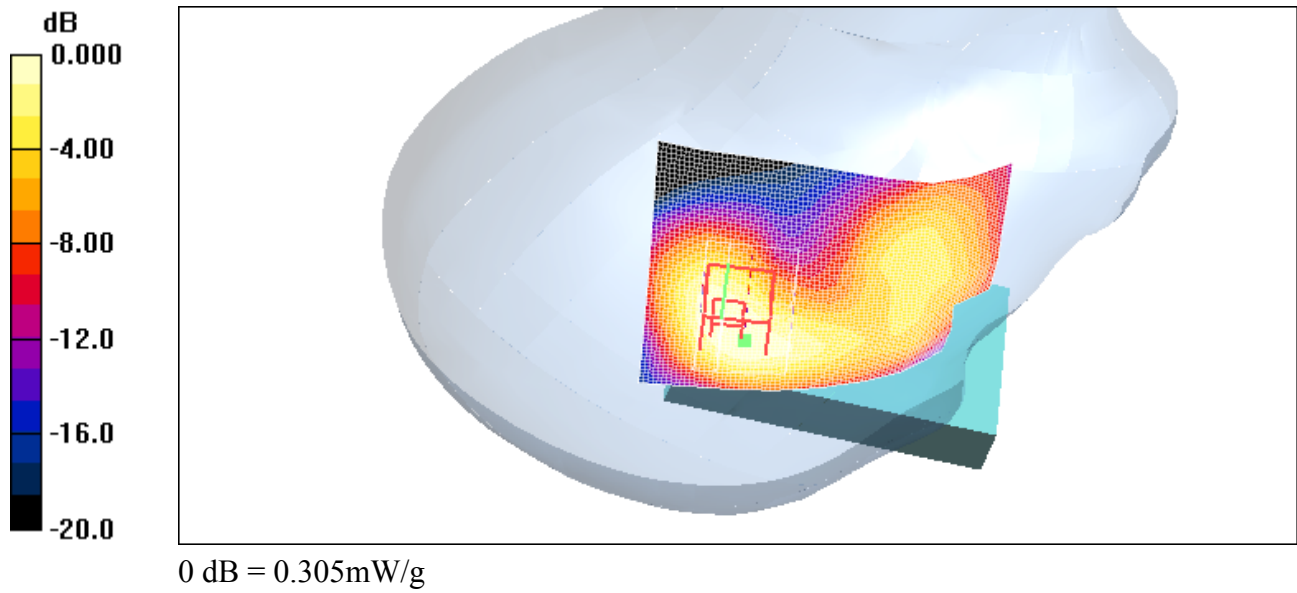
- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.317 mW/g

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 = 12.6 V/m; Power Drift = -0.052 dB
Peak SAR (extrapolated) = 0.430 W/kg
SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.169 mW/g

Maximum value of SAR (measured) = 0.305 mW/g

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Date/Time: 5/10/2010 11:40:55 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [LeftHandSide_802.11b_mid_chan_amb_temp_23.8_liq_temp_21.9C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2230450D

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 37.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

Maximum value of SAR (interpolated) = 0.061 mW/g

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 = 5.94 V/m ; Power Drift = 0.138 dB

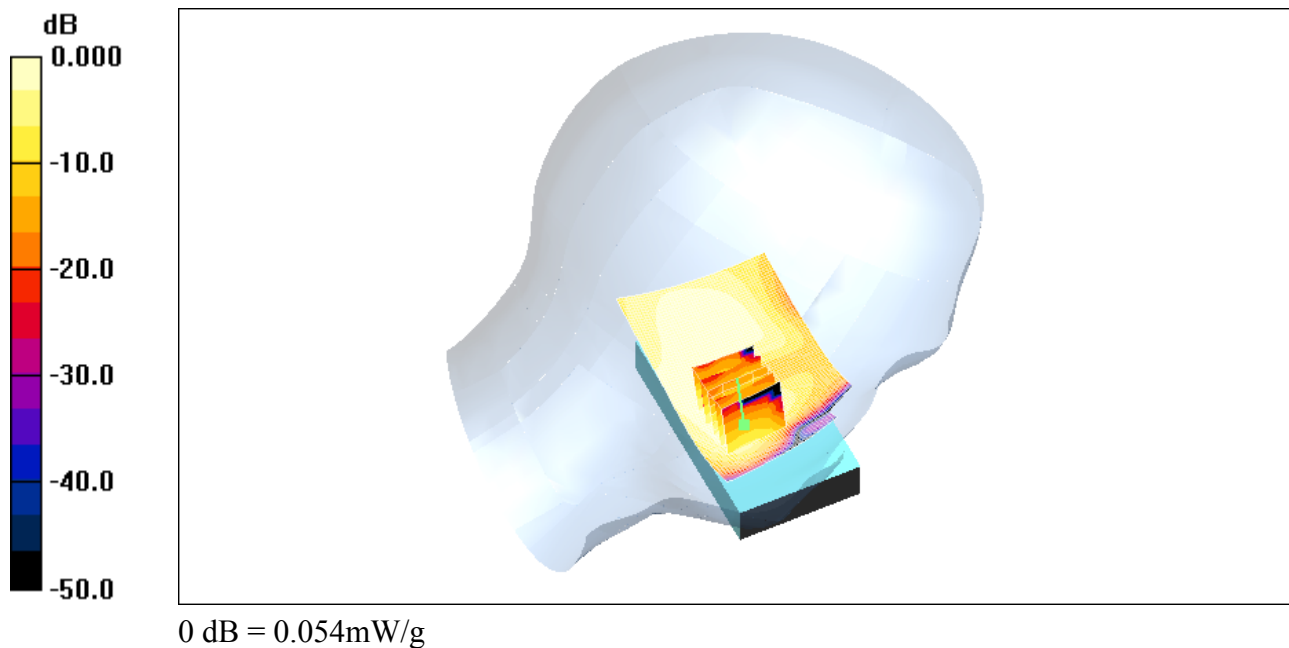
Peak SAR (extrapolated) = 0.083 W/kg

SAR(1 g) = 0.049 mW/g ; SAR(10 g) = 0.027 mW/g

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

Maximum value of SAR (measured) = 0.054 mW/g

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Date/Time: 5/10/2010 11:17:29 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide_Tilt_802.11b_mid_chan_amb_temp_23.7_liq_temp_21.8C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2230450D

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 37.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

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

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 = 6.71 V/m ; Power Drift = -0.245 dB

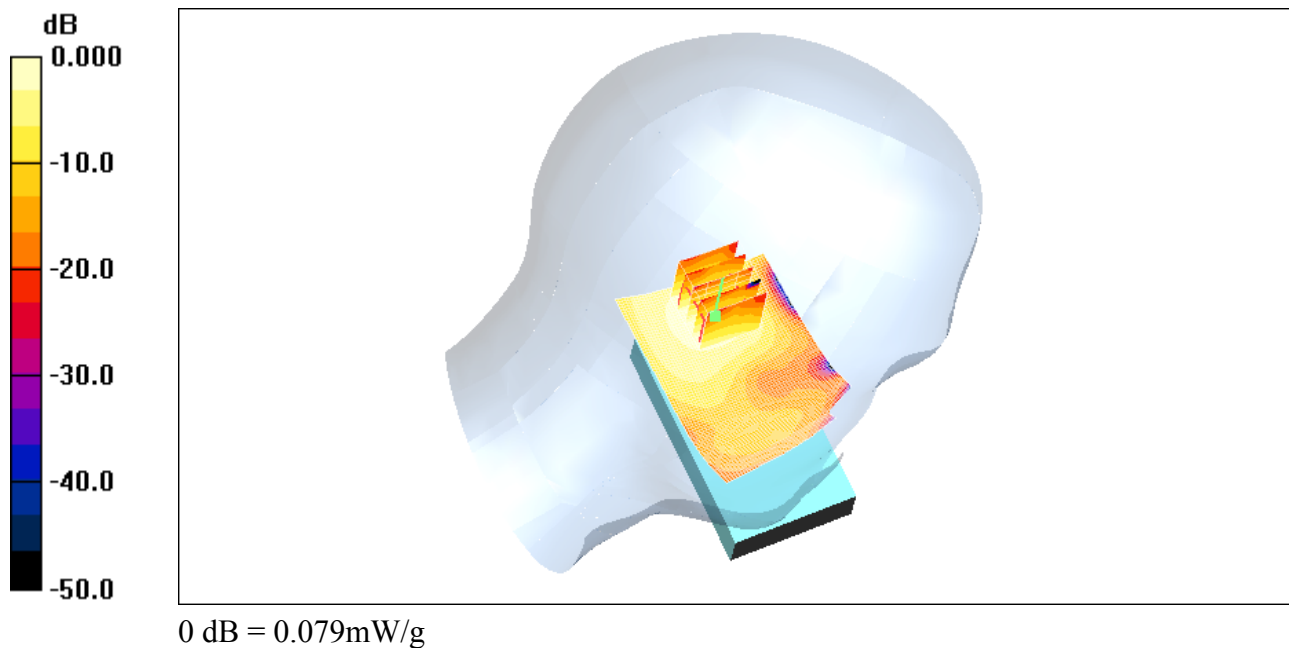
Peak SAR (extrapolated) = 0.124 W/kg

SAR(1 g) = 0.068 mW/g ; SAR(10 g) = 0.034 mW/g

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

Maximum value of SAR (measured) = 0.079 mW/g

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Date/Time: 5/10/2010 9:47:20 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide_802.11b_low_chan_amb_temp_23.0_liq_temp_21.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2230450D

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.82 \text{ mho/m}$; $\epsilon_r = 37$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.091 mW/g

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 = 4.80 V/m ; Power Drift = 0.398 dB

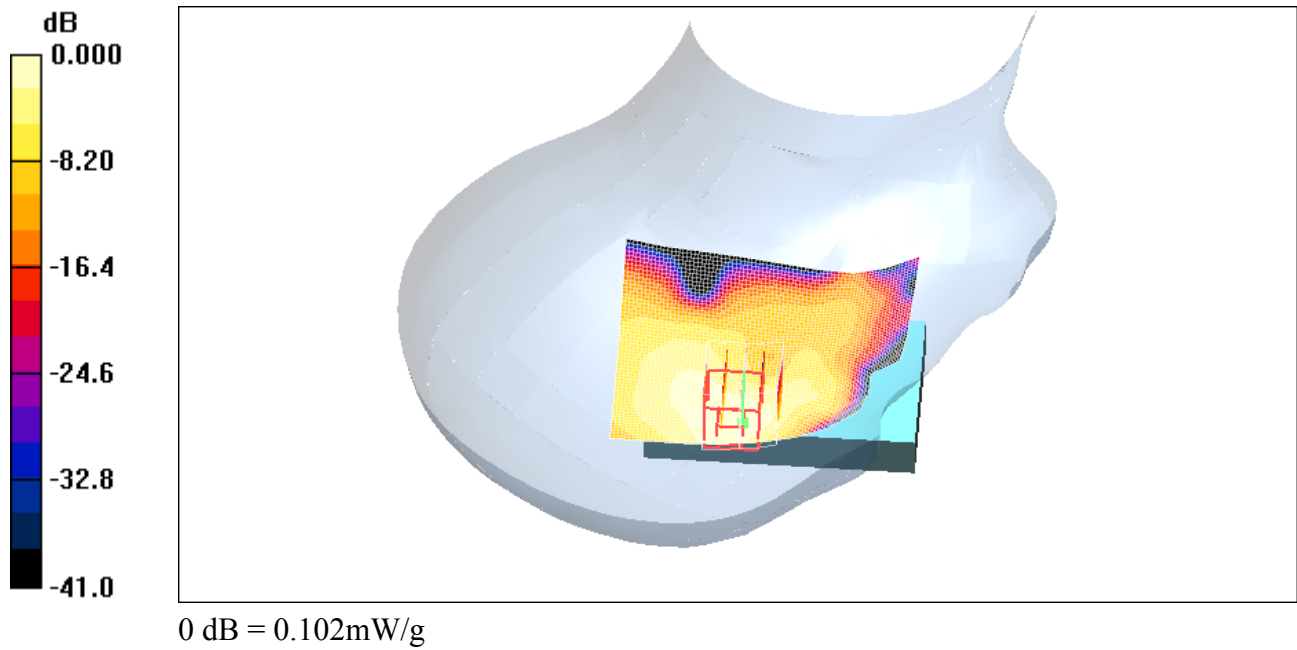
Peak SAR (extrapolated) = 0.202 W/kg

SAR(1 g) = 0.096 mW/g ; SAR(10 g) = 0.048 mW/g

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

Maximum value of SAR (measured) = 0.102 mW/g

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Date/Time: 5/10/2010 10:08:13 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide_802.11b_mid_chan_amb_temp_22.9_liq_temp_21.0C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2230450D

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 37.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.106 mW/g

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 = 5.23 V/m ; Power Drift = -0.024 dB

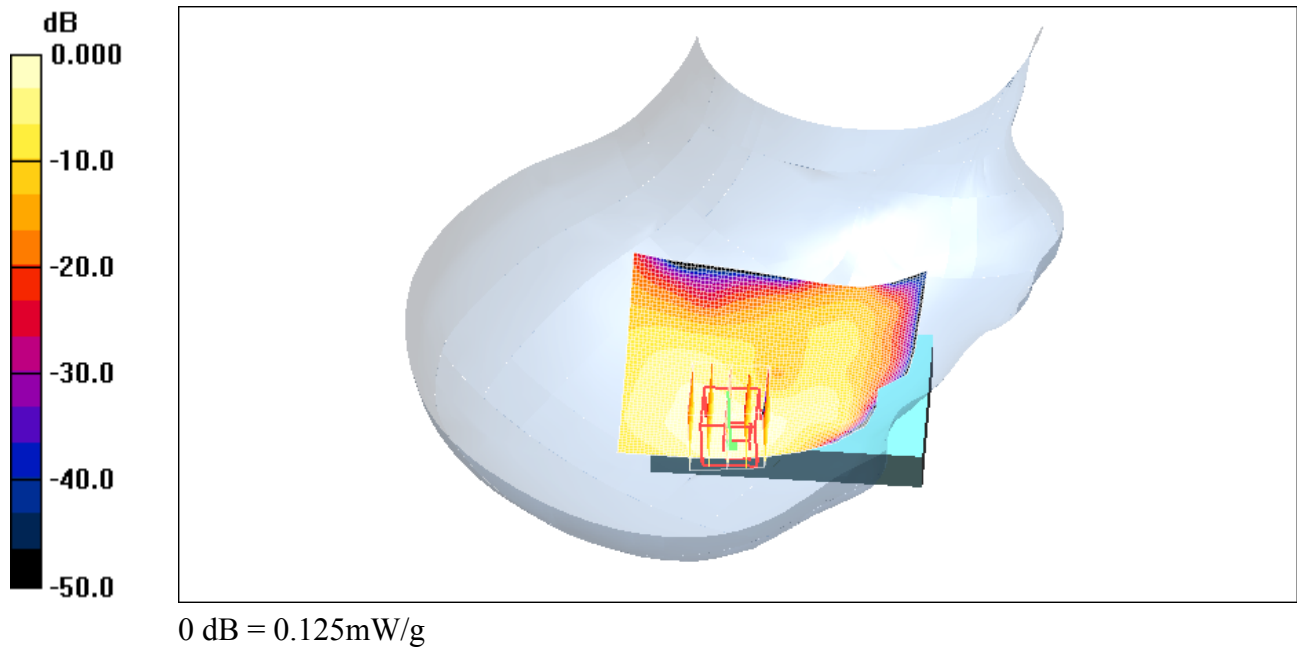
Peak SAR (extrapolated) = 0.242 W/kg

SAR(1 g) = 0.112 mW/g ; SAR(10 g) = 0.056 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: 5/10/2010 10:26:47 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide_802.11b_high_chan_amb_temp_23.5_liq_temp_21.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2230450D

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.83 \text{ mho/m}$; $\epsilon_r = 37.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

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 = 5.12 V/m ; Power Drift = 0.340 dB

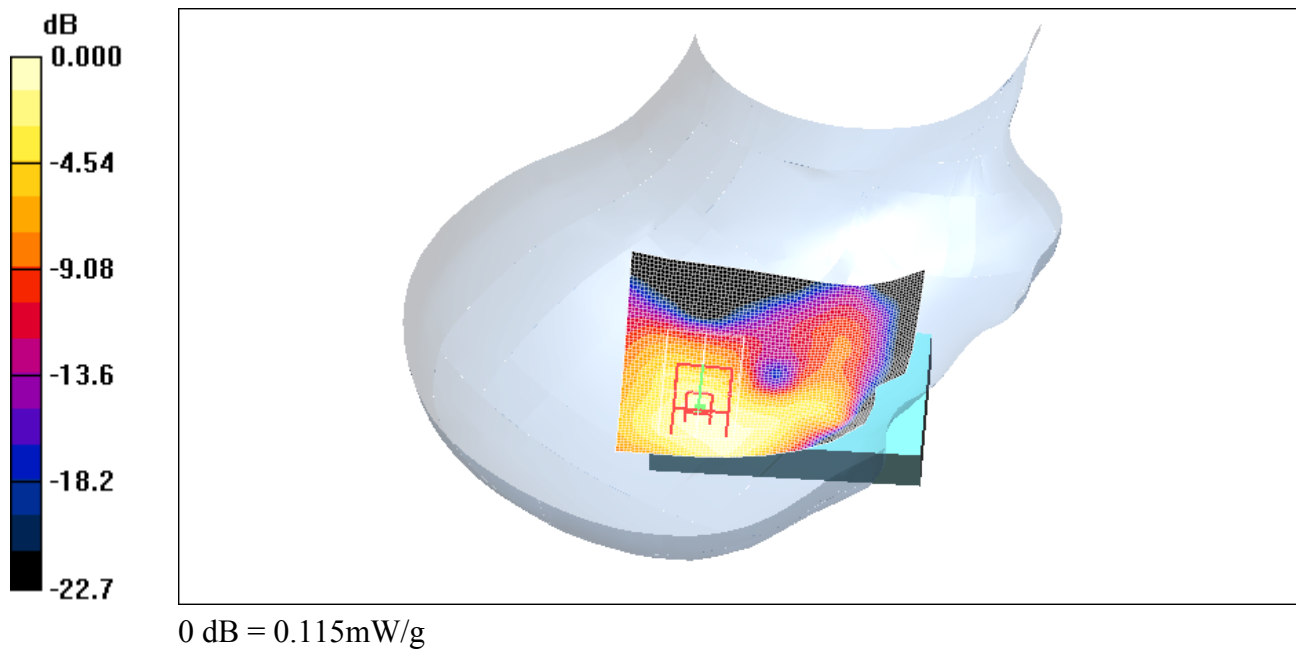
Peak SAR (extrapolated) = 0.196 W/kg

SAR(1 g) = 0.101 mW/g ; SAR(10 g) = 0.052 mW/g

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

Maximum value of SAR (measured) = 0.115 mW/g

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Date/Time: 5/10/2010 10:49:27 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_Tilt_802.11b_mid_chan_amb_temp_23.7_liq_temp_21.8C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2230450D

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 37.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

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 = 6.40 V/m ; Power Drift = -0.089 dB

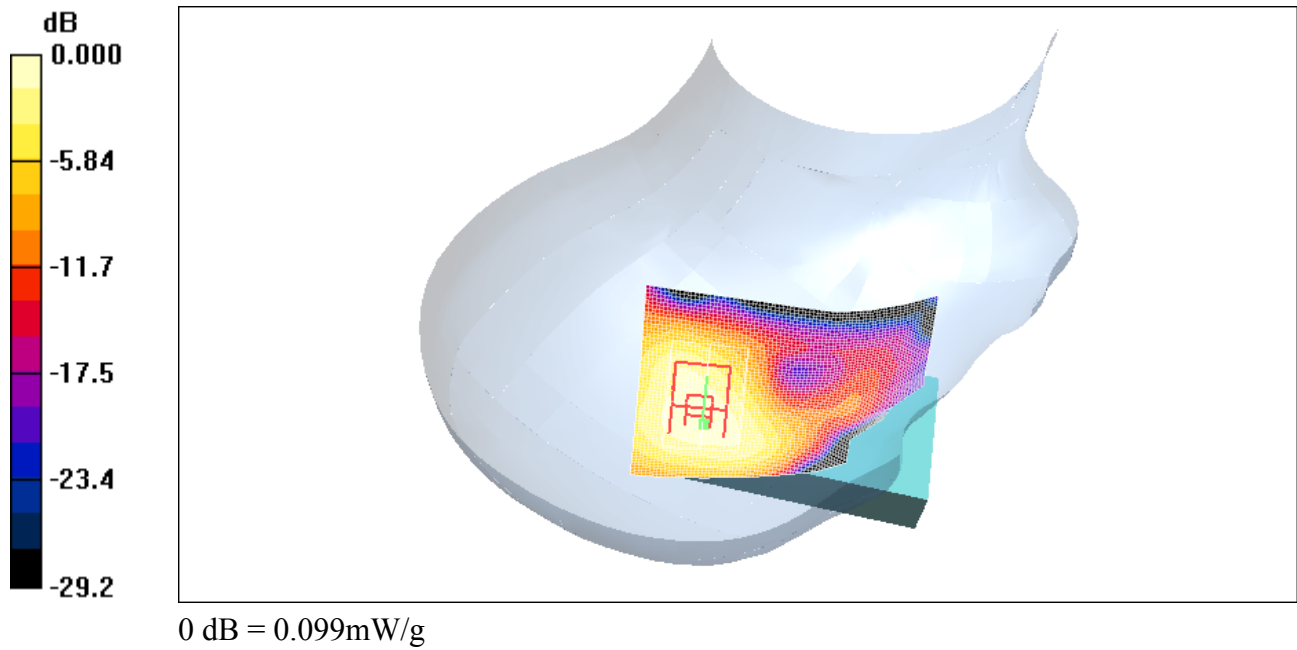
Peak SAR (extrapolated) = 0.167 W/kg

SAR(1 g) = 0.091 mW/g ; SAR(10 g) = 0.048 mW/g

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

Maximum value of SAR (measured) = 0.099 mW/g

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Z axis plot for the worst case head configuration:

