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APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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Date/Time: 03/09/2009 10:41:44 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide CDMA800_low_chan_Amb_Tem_23.1_Liq_Tem_22.2_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.855 \text{ mho/m}$; $\epsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

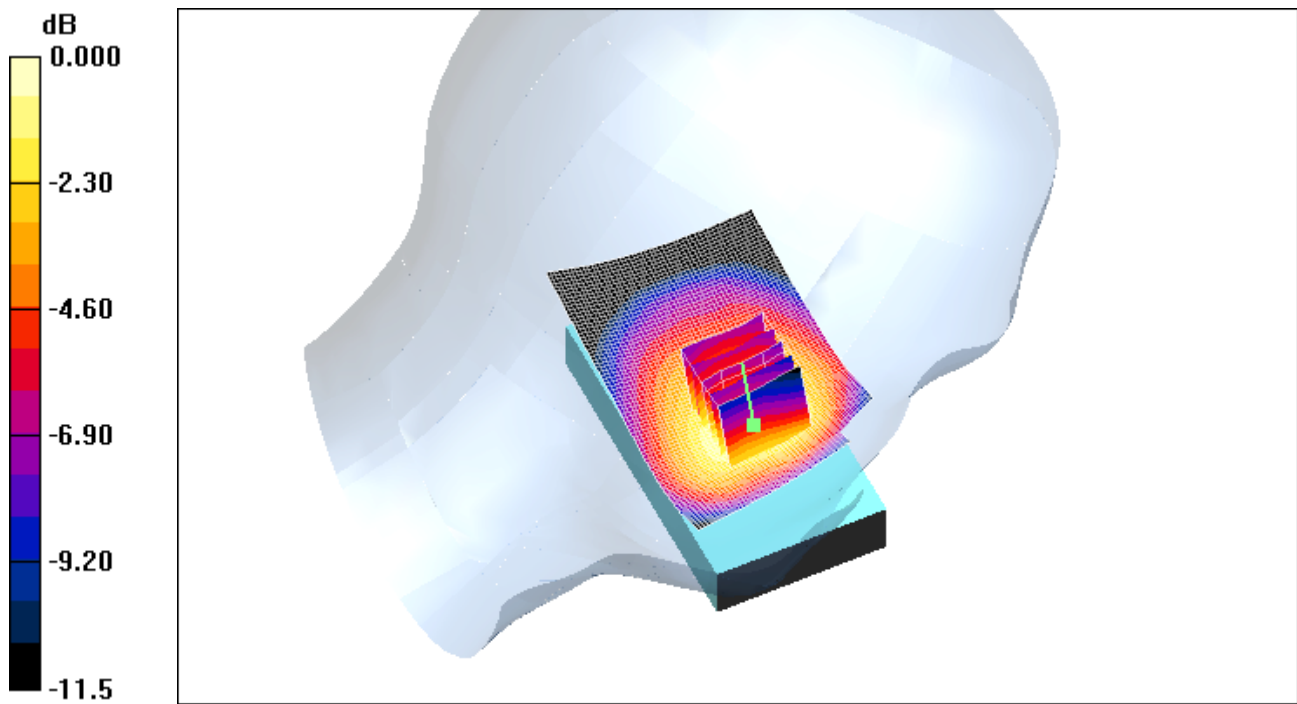
DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 1.33 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 = 16.9 V/m; Power Drift = -0.012 dB
Peak SAR (extrapolated) = 1.57 W/kg
SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.867 mW/g
Maximum value of SAR (measured) = 1.31 mW/g

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0 dB = 1.31mW/g

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Date/Time: 03/09/2009 10:59:38 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide CDMA800_mid_chan_Amb_Tem_23.2_Liq_Tem_22.3_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.865 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 1.10 mW/g

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

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

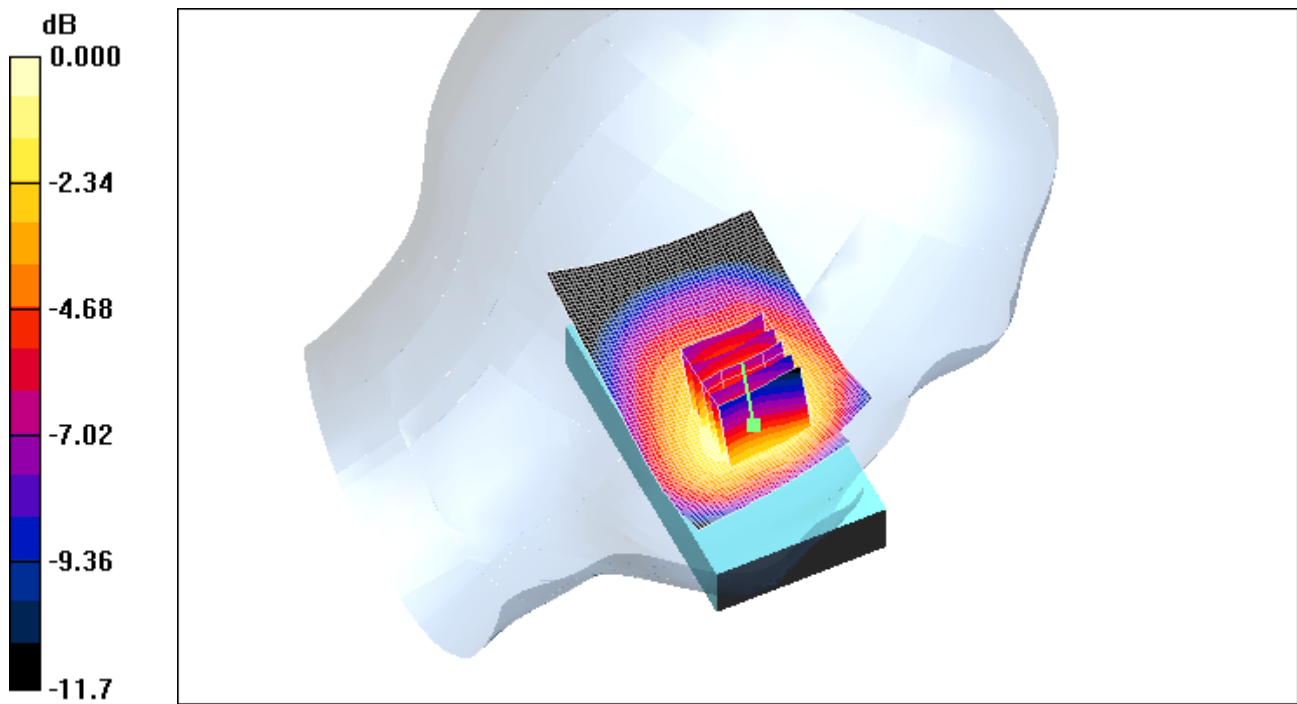
Reference Value = 15.3 V/m ; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 1.28 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) = 1.08 mW/g



0 dB = 1.08mW/g

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Date/Time: 03/09/2009 11:14:29 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide CDMA800 high chan Amb Tem 23.1 Liq Tem 22.1 C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 848.52 \text{ MHz}$; $\sigma = 0.877 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 1.10 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 = 15.2 V/m ; Power Drift = -0.054 dB

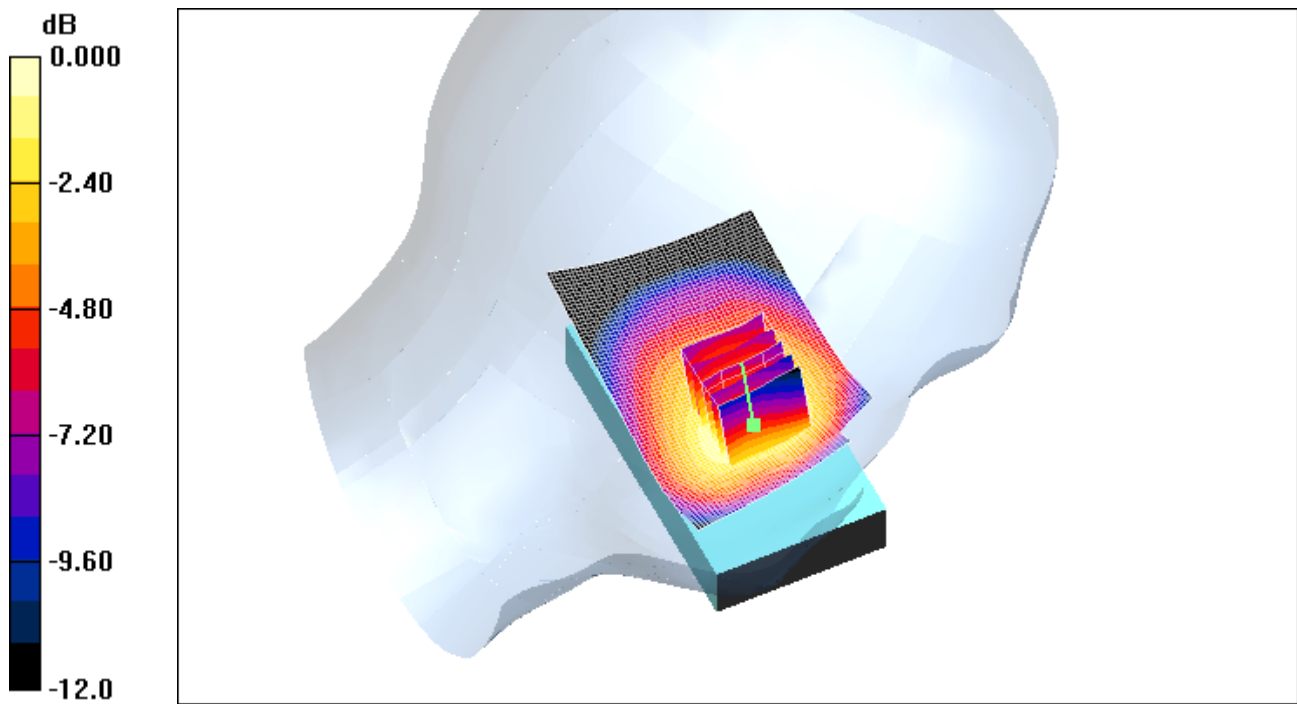
Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 1 mW/g ; SAR(10 g) = 0.719 mW/g

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

Maximum value of SAR (measured) = 1.08 mW/g

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0 dB = 1.08mW/g

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Date/Time: 03/09/2009 11:29:47 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide Tilt CDMA800 low chan Amb Tem 23.2 Liq Tem 22.3 C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 825$ MHz; $\sigma = 0.855$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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=15mm, dy=15mm

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

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

dx=7.5mm, dy=7.5mm, dz=5mm

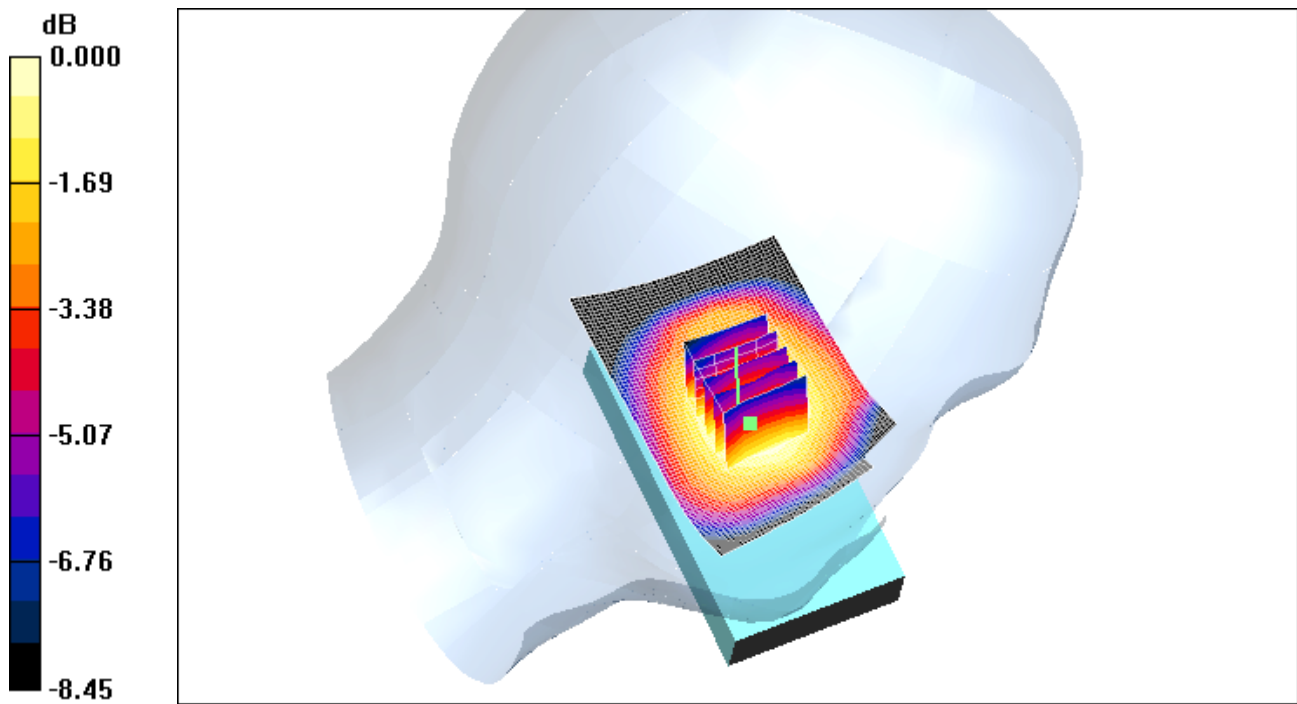
Reference Value = 21.1 V/m; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 0.739 W/kg

SAR(1 g) = 0.614 mW/g; SAR(10 g) = 0.477 mW/g

Maximum value of SAR (measured) = 0.642 mW/g

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0 dB = 0.642mW/g

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Date/Time: 03/09/2009 12:11:17 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_CDMA800_low_chan_Amb_Tem_23.2_Liq_Tem_22.1_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.855 \text{ mho/m}$; $\epsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

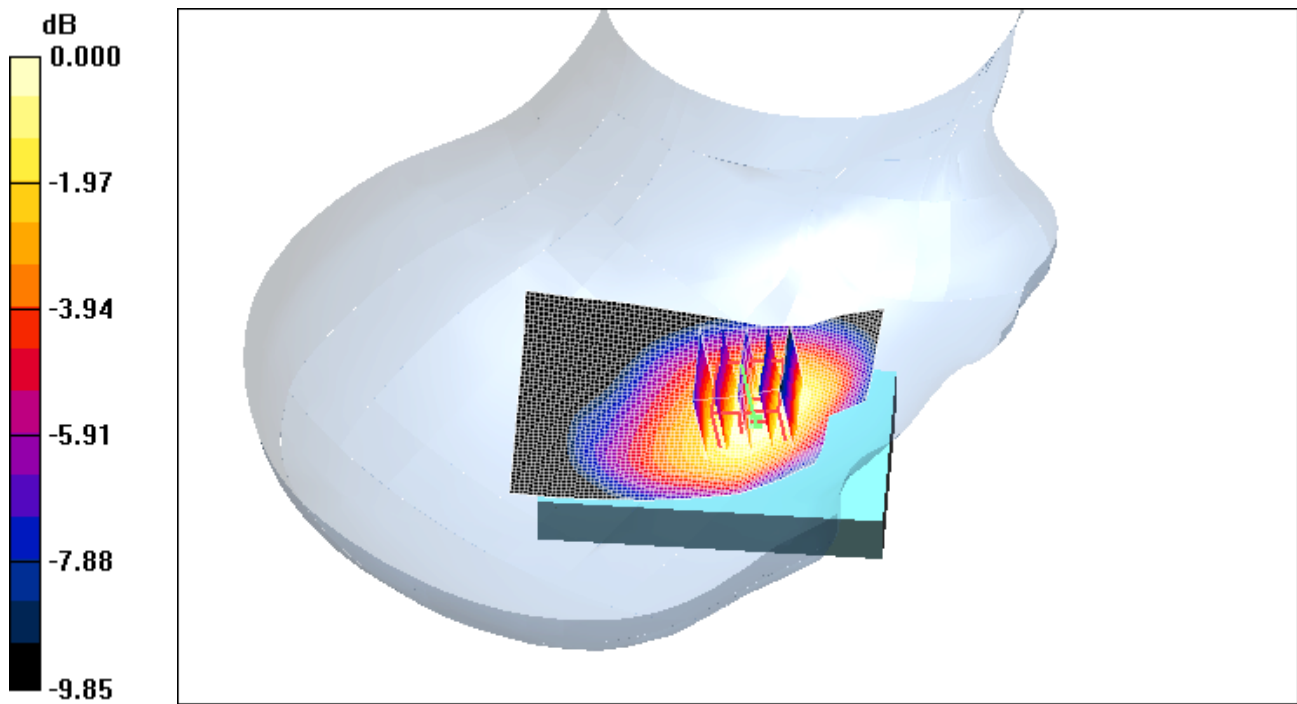
DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.16 mW/g

Touch position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
 $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 13.5 V/m; Power Drift = -0.027 dB
Peak SAR (extrapolated) = 1.41 W/kg
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.774 mW/g
Maximum value of SAR (measured) = 1.20 mW/g

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0 dB = 1.20mW/g

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Date/Time: 03/09/2009 11:53:51 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide CDMA800_mid_chan_Amb_Tem_23.2_Liq_Tem_22.1_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.865 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 1.00 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 = -0.375 dB

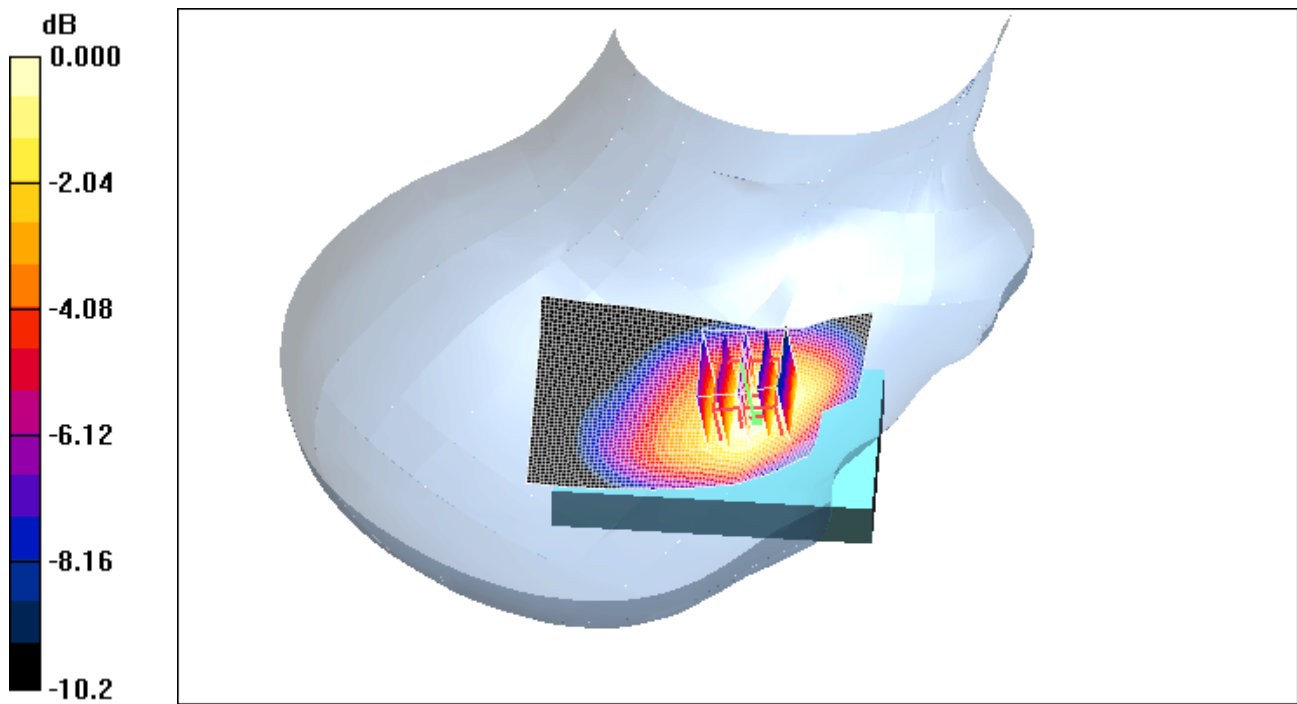
Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.939 mW/g ; SAR(10 g) = 0.663 mW/g

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

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

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0 dB = 1.05mW/g

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Date/Time: 03/09/2009 12:26:37 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide CDMA800 high chan Amb Tem 23.0 Liq Tem 22.0 C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 848.52 \text{ MHz}$; $\sigma = 0.877 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.946 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 = 12.1 V/m; Power Drift = -0.046 dB

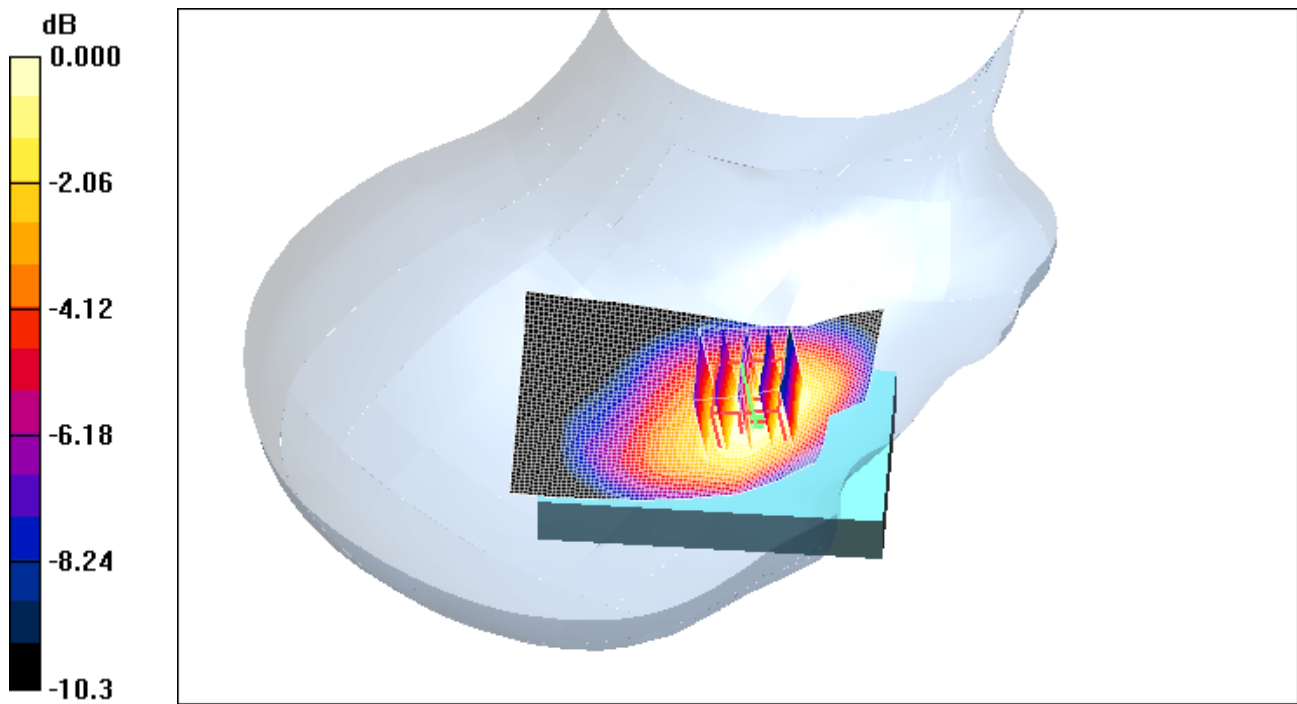
Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.891 mW/g; SAR(10 g) = 0.629 mW/g

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

Maximum value of SAR (measured) = 0.990 mW/g

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0 dB = 0.990mW/g

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Date/Time: 03/09/2009 12:43:39 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide Tilt CDMA800 low chan Amb Tem 22.6 Liq Tem 21.9 C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

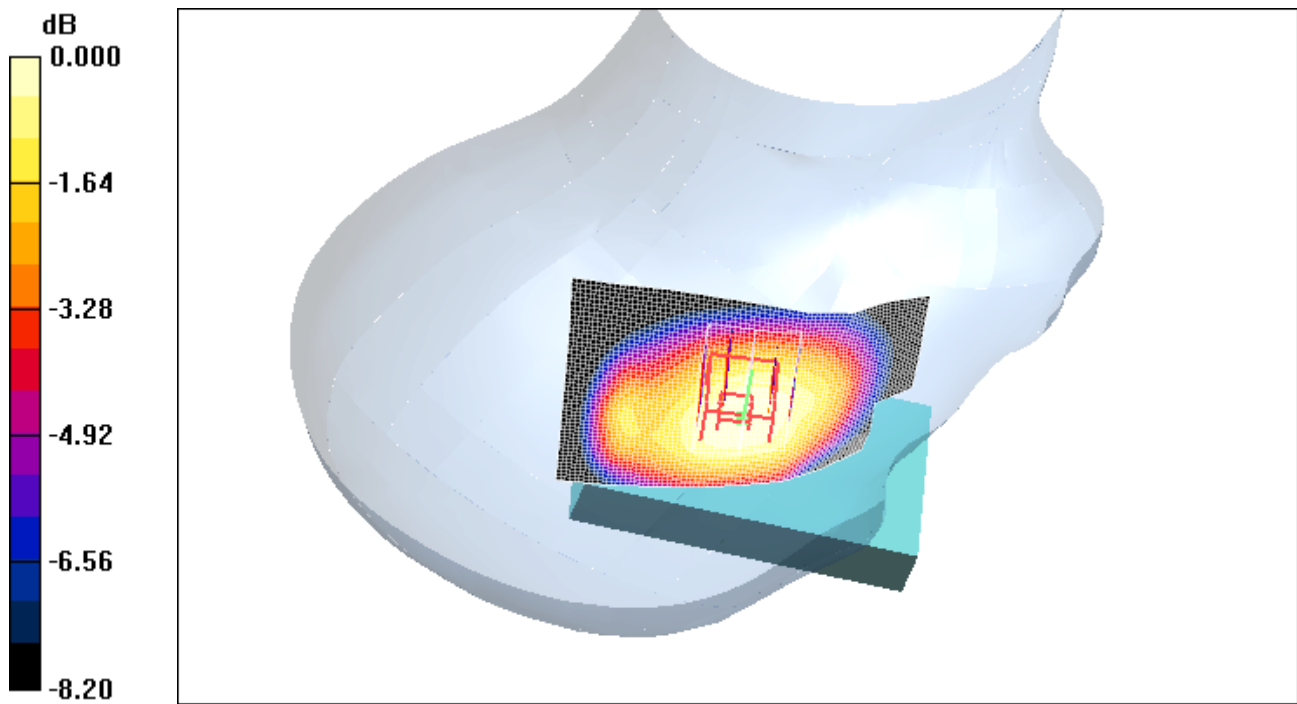
Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.855 \text{ mho/m}$; $\epsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Tilt position - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.615 mW/g

Tilt position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 20.3 V/m; Power Drift = 0.058 dB
Peak SAR (extrapolated) = 0.699 W/kg
SAR(1 g) = 0.593 mW/g; SAR(10 g) = 0.454 mW/g
Maximum value of SAR (measured) = 0.619 mW/g



0 dB = 0.619mW/g

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Date/Time: 25/09/2009 1:23:19 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide CDMA800_low_chan_Amb_Tem_24.0_Liq_Tem_22.2_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30EC2ACE
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.873 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

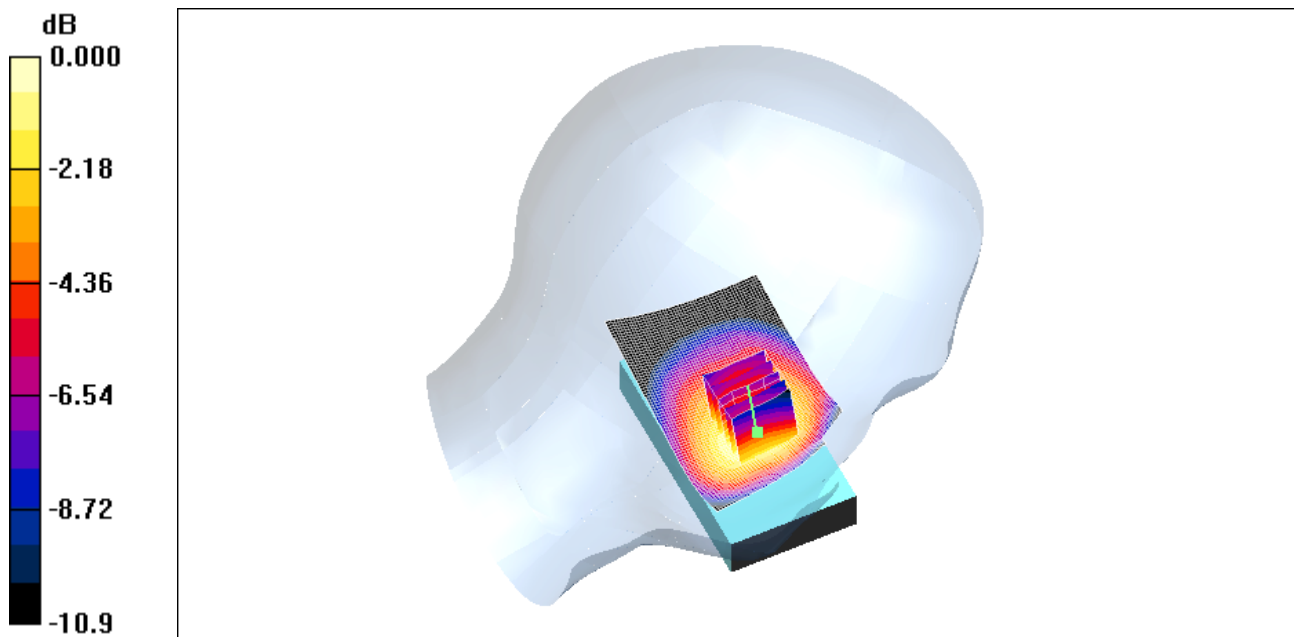
DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 1.41 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 = 16.0 V/m; Power Drift = -0.178 dB
Peak SAR (extrapolated) = 1.64 W/kg
SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.902 mW/g
Maximum value of SAR (measured) = 1.36 mW/g

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0 dB = 1.36mW/g

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Date/Time: 25/09/2009 1:43:54 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide CDMA800 low chan Amb Tem 23.7 Liq Tem 22.2 C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30EC2ACE
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.873 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

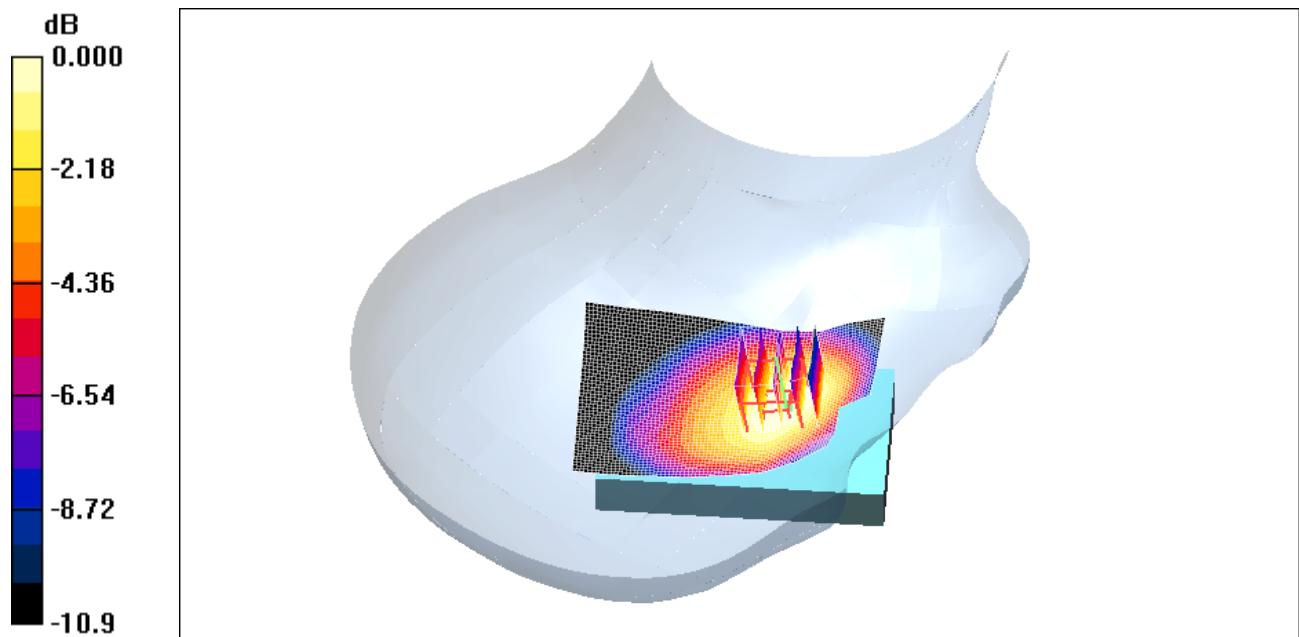
DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.22 mW/g

Touch position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
 $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 14.4 V/m; Power Drift = 0.076 dB
Peak SAR (extrapolated) = 1.40 W/kg
SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.791 mW/g
Maximum value of SAR (measured) = 1.18 mW/g

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0 dB = 1.18mW/g

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Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 01/09/2009 8:12:04 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide CDMA1900_low_chan_Amb_Tem_21.7_Liq_Tem_21.2_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.999 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 = 14.4 V/m; Power Drift = -0.101 dB

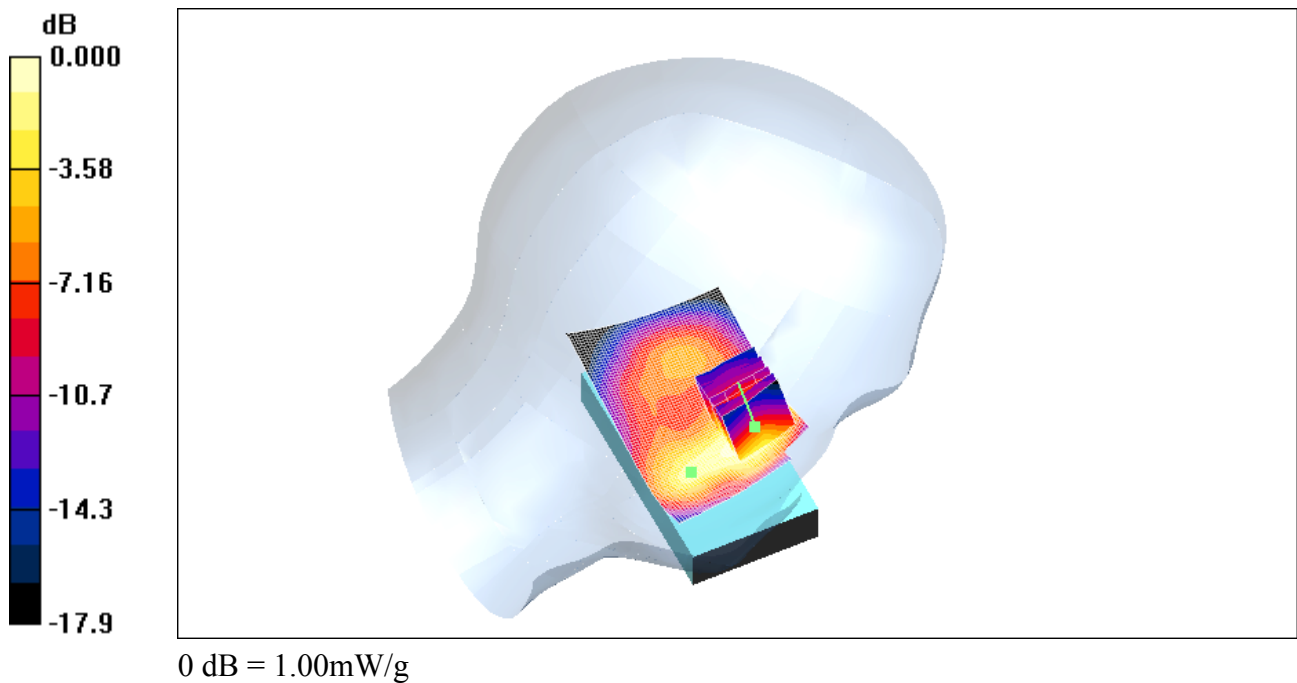
Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.921 mW/g; SAR(10 g) = 0.552 mW/g

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

Maximum value of SAR (measured) = 1.00 mW/g

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Date/Time: 01/09/2009 9:19:28 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide CDMA1900_mid_chan_Amb_Tem_21.7_Liq_Tem_21.2_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

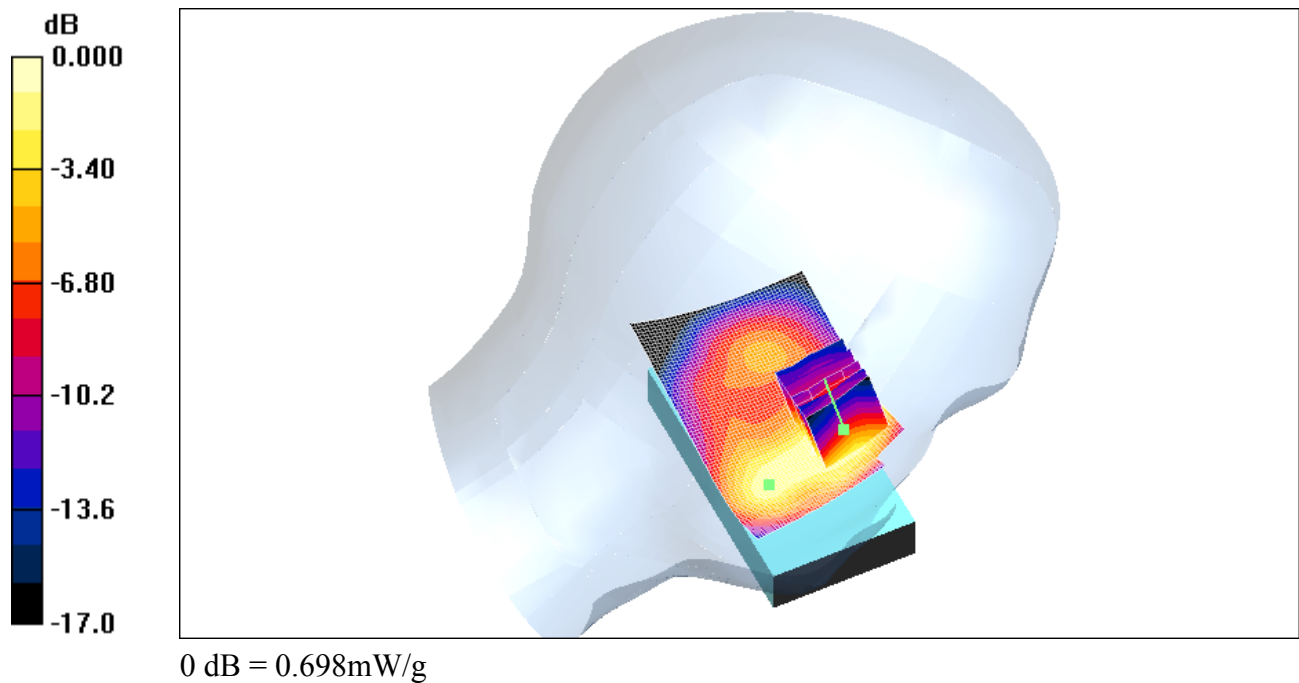
DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.688 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 = 11.1 V/m; Power Drift = 0.345 dB
Peak SAR (extrapolated) = 0.832 W/kg
SAR(1 g) = 0.639 mW/g; SAR(10 g) = 0.391 mW/g
Maximum value of SAR (measured) = 0.698 mW/g

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Date/Time: 01/09/2009 9:37:13 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide CDMA1900_high_chan_Amb_Tem_23.0_Liq_Tem_21.9_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5 \text{ MHz}$; $\sigma = 1.46 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.492 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 = 9.63 V/m ; Power Drift = 0.106 dB

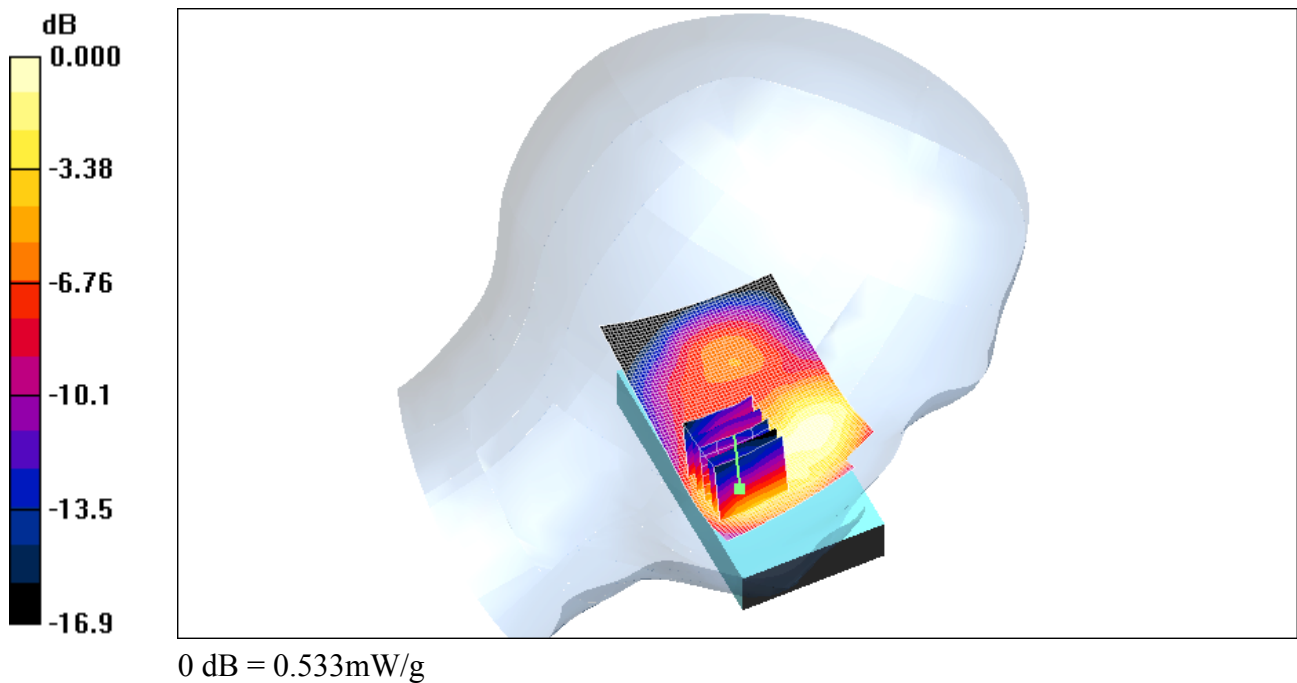
Peak SAR (extrapolated) = 0.747 W/kg

SAR(1 g) = 0.479 mW/g ; SAR(10 g) = 0.269 mW/g

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

Maximum value of SAR (measured) = 0.533 mW/g

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Date/Time: 01/09/2009 10:13:17 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide Tilt CDMA1900 low chan Amb Tem 22.6 Liq Tem 22.1 C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96

Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.761 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 = 23.4 V/m ; Power Drift = 0.013 dB

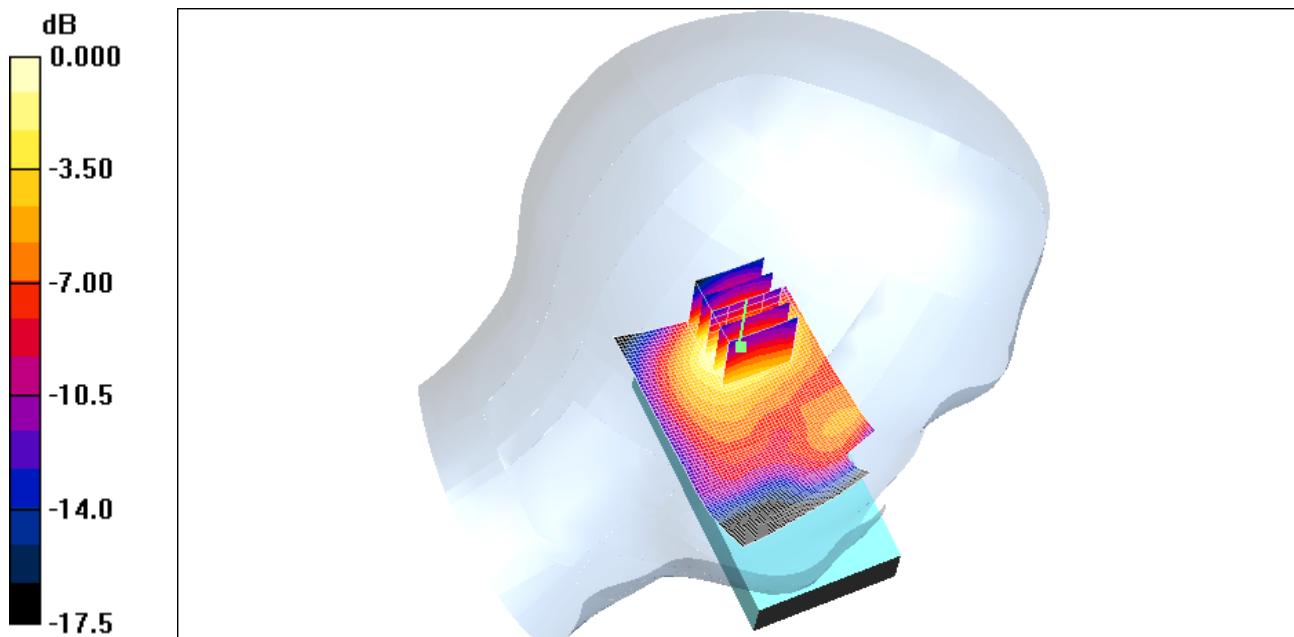
Peak SAR (extrapolated) = 0.989 W/kg

SAR(1 g) = 0.676 mW/g ; SAR(10 g) = 0.393 mW/g

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

Maximum value of SAR (measured) = 0.736 mW/g

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0 dB = 0.736mW/g

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Date/Time: 01/09/2009 6:24:06 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_CDMA1900_low_chan_Amb_Tem_22.6_Liq_Tem_22.1_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 - Low/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) = 1.41 mW/g

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

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

Reference Value = 13.2 V/m ; Power Drift = -0.132 dB

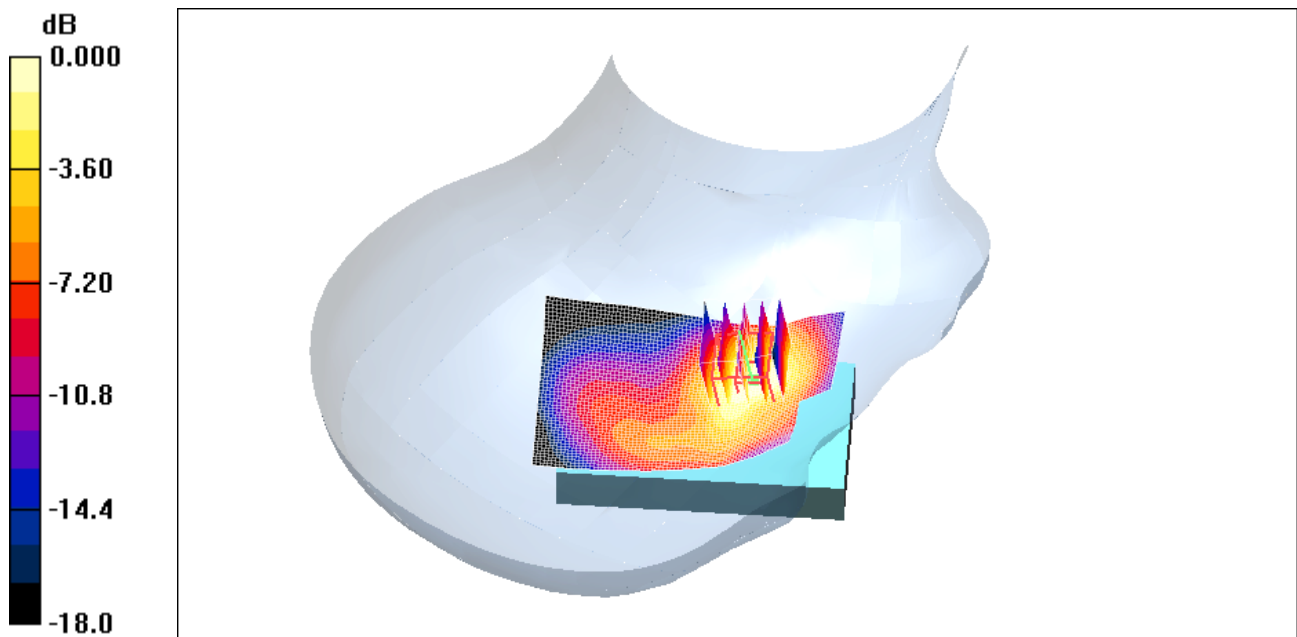
Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 1.26 mW/g ; SAR(10 g) = 0.756 mW/g

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

Maximum value of SAR (measured) = 1.40 mW/g

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0 dB = 1.40mW/g

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Date/Time: 01/09/2009 6:42:59 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_CDMA1900_mid_chan_Amb_Tem_22.2_Liq_Tem_21.9_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 - Low/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.04 mW/g

Touch position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

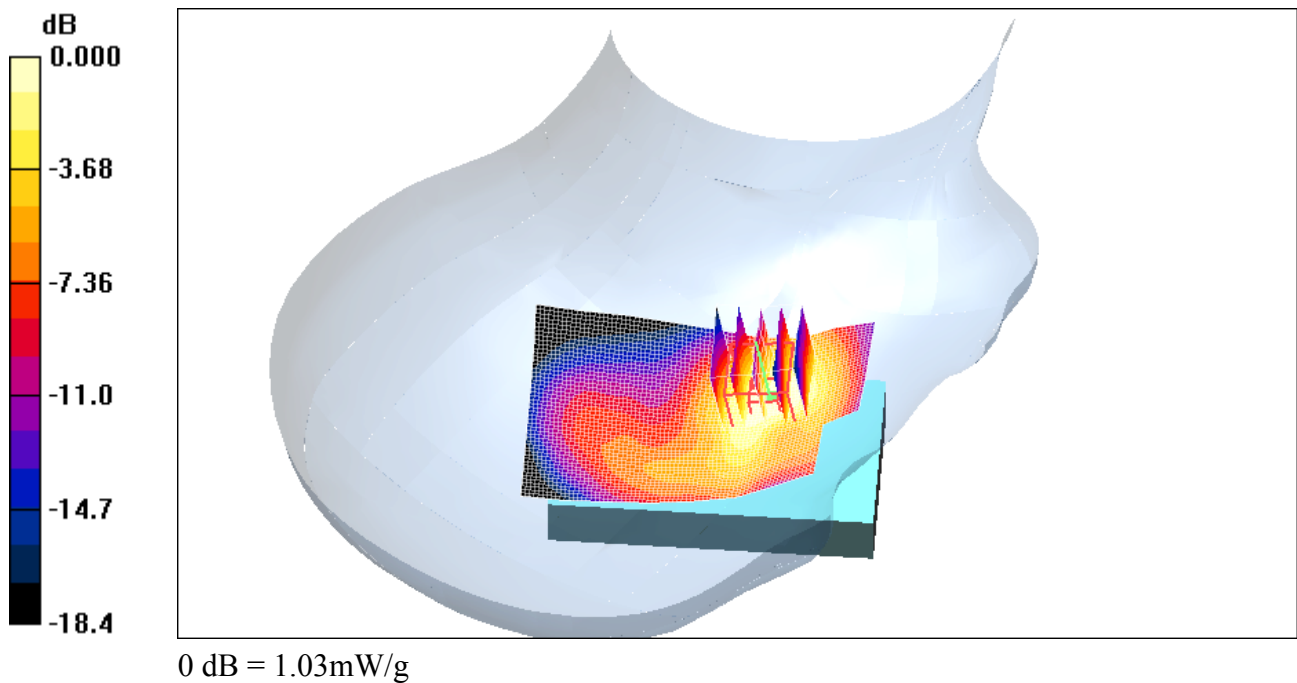
Reference Value = 11.8 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.938 mW/g; SAR(10 g) = 0.560 mW/g

Maximum value of SAR (measured) = 1.03 mW/g

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Date/Time: 01/09/2009 7:04:45 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_CDMA1900_high_chan_Amb_Tem_22.1_Liq_Tem_21.8_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5 \text{ MHz}$; $\sigma = 1.46 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 - Low/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) = 0.658 mW/g

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

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

Reference Value = 9.95 V/m ; Power Drift = -0.070 dB

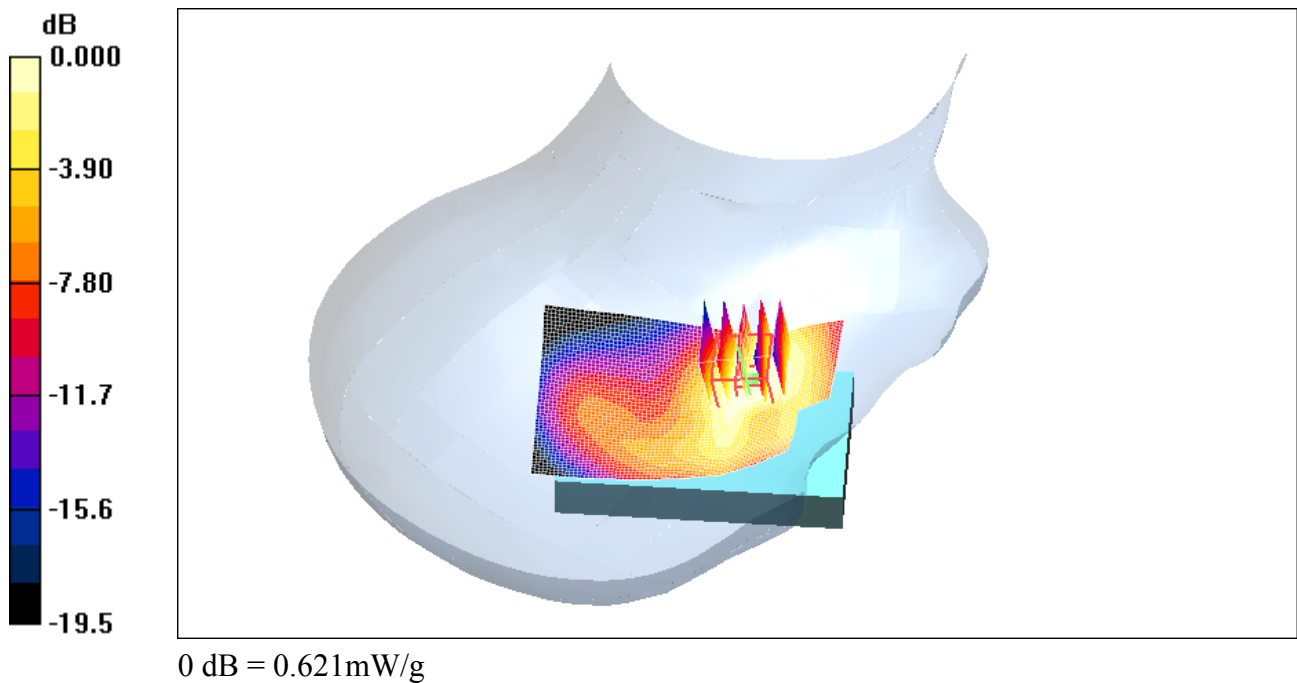
Peak SAR (extrapolated) = 0.789 W/kg

SAR(1 g) = 0.586 mW/g ; SAR(10 g) = 0.356 mW/g

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

Maximum value of SAR (measured) = 0.621 mW/g

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Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide Tilt CDMA1900 low chan Amb Tem 21.9 Liq Tem 21.6 C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9EC96
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.652 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 = 21.4 V/m ; Power Drift = -0.058 dB

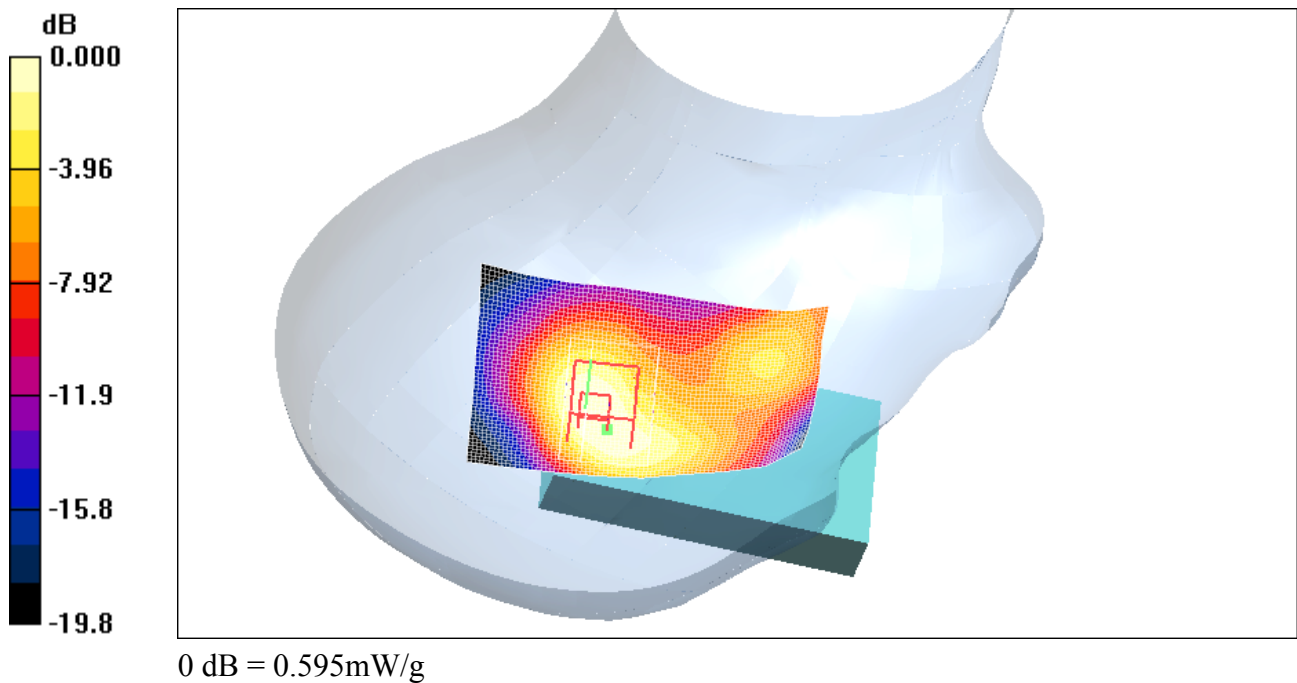
Peak SAR (extrapolated) = 0.811 W/kg

SAR(1 g) = 0.545 mW/g ; SAR(10 g) = 0.336 mW/g

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

Maximum value of SAR (measured) = 0.595 mW/g

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Date/Time: 24/09/2009 7:23:15 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide CDMA1900_low_chan Amb Tem 23.2 Liq Tem 22.0 C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30EC2ACE
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.35 \text{ mho/m}$; $\epsilon_r = 40.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.965 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 = 14.1 V/m ; Power Drift = -0.013 dB

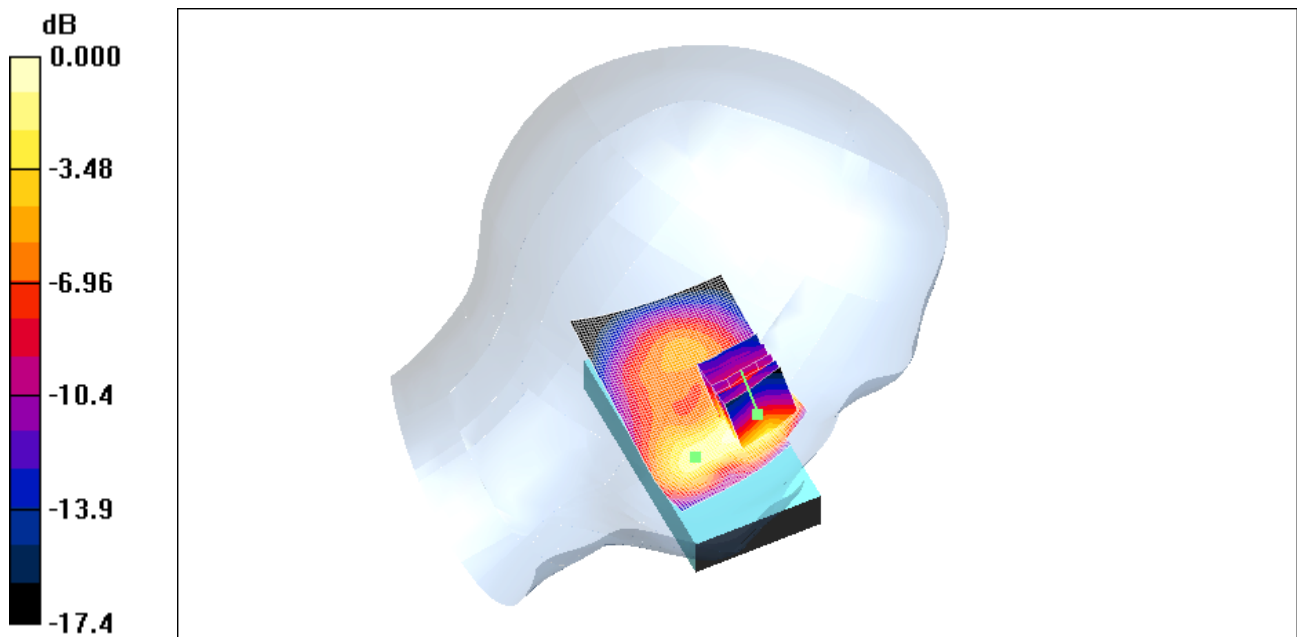
Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.860 mW/g ; SAR(10 g) = 0.516 mW/g

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

Maximum value of SAR (measured) = 0.936 mW/g

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0 dB = 0.936mW/g

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Date/Time: 24/09/2009 8:11:37 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_CDMA1900_low_chan_Amb_Tem_23.4_Liq_Tem_22.1_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30EC2ACE
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.35 \text{ mho/m}$; $\epsilon_r = 40.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 - Low/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) = 1.46 mW/g

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

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

Reference Value = 13.4 V/m; Power Drift = 0.005 dB

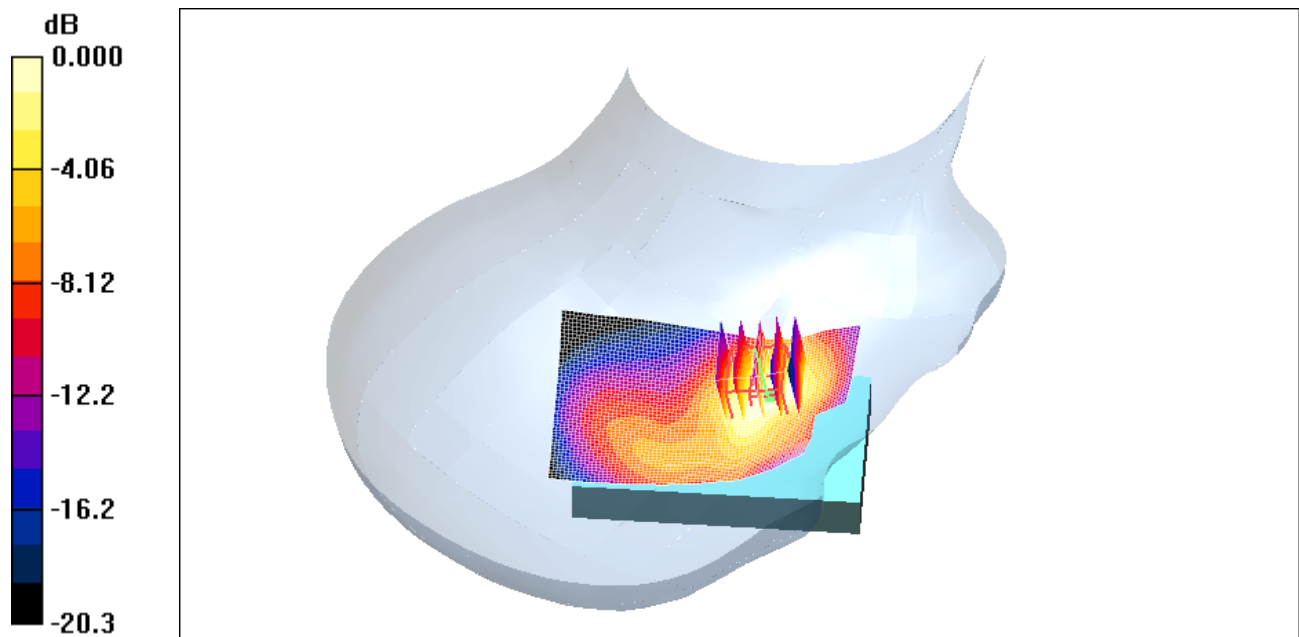
Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.767 mW/g

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

Maximum value of SAR (measured) = 1.47 mW/g

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0 dB = 1.47mW/g

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Date/Time: 03/09/2009 10:32:11 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [LeftHandSide_802.11b_low_chan_Amb_Tem_23.4_Liq_Tem_22.6_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.84 \text{ mho/m}$; $\epsilon_r = 37.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.209 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 = 10.9 V/m ; Power Drift = 0.195 dB

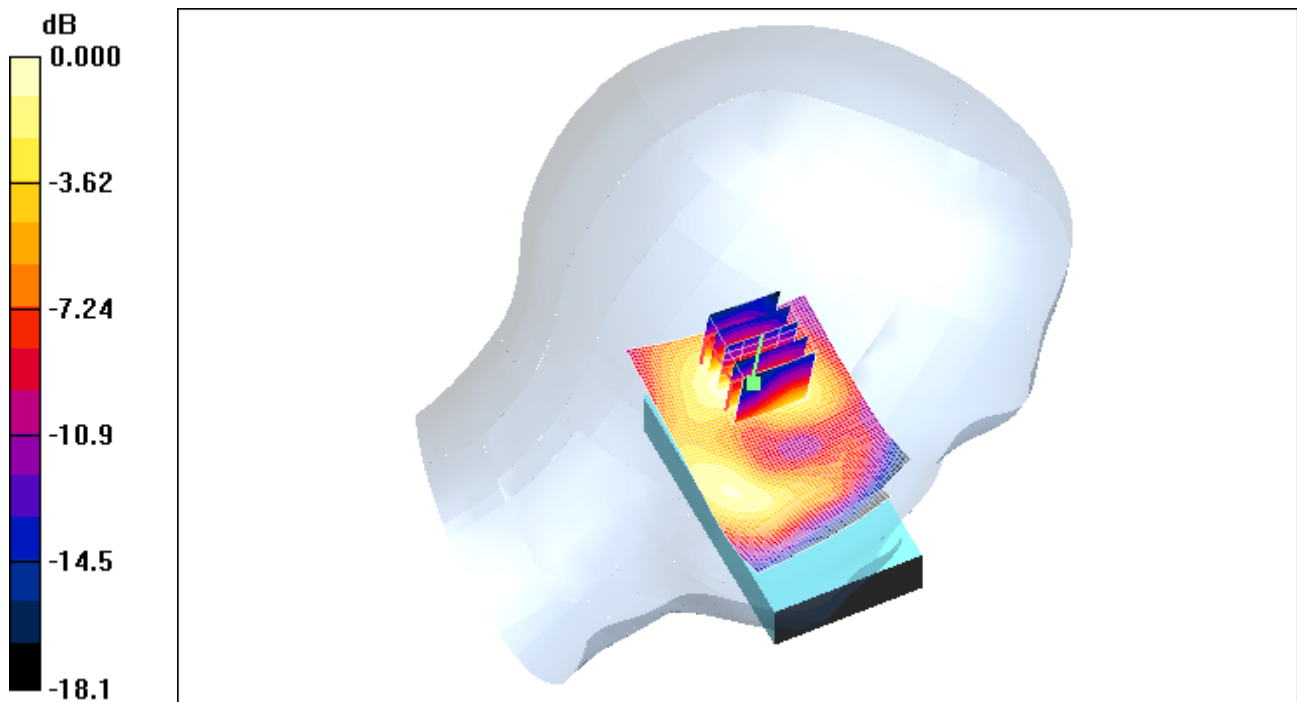
Peak SAR (extrapolated) = 0.386 W/kg

SAR(1 g) = 0.200 mW/g ; SAR(10 g) = 0.104 mW/g

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

Maximum value of SAR (measured) = 0.208 mW/g

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0 dB = 0.208mW/g

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Author Data Andrew Becker	Dates of Test September 1 - 29, 2009	Test Report No RTS-2068-0909-43	FCC ID: L6ARCL20CW

Date/Time: 03/09/2009 10:51:26 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [LeftHandSide_802.11b_mid_chan_Amb_Tem_23.3_Liq_Tem_22.5_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.87 \text{ mho/m}$; $\epsilon_r = 37.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.237 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 = -0.132 dB

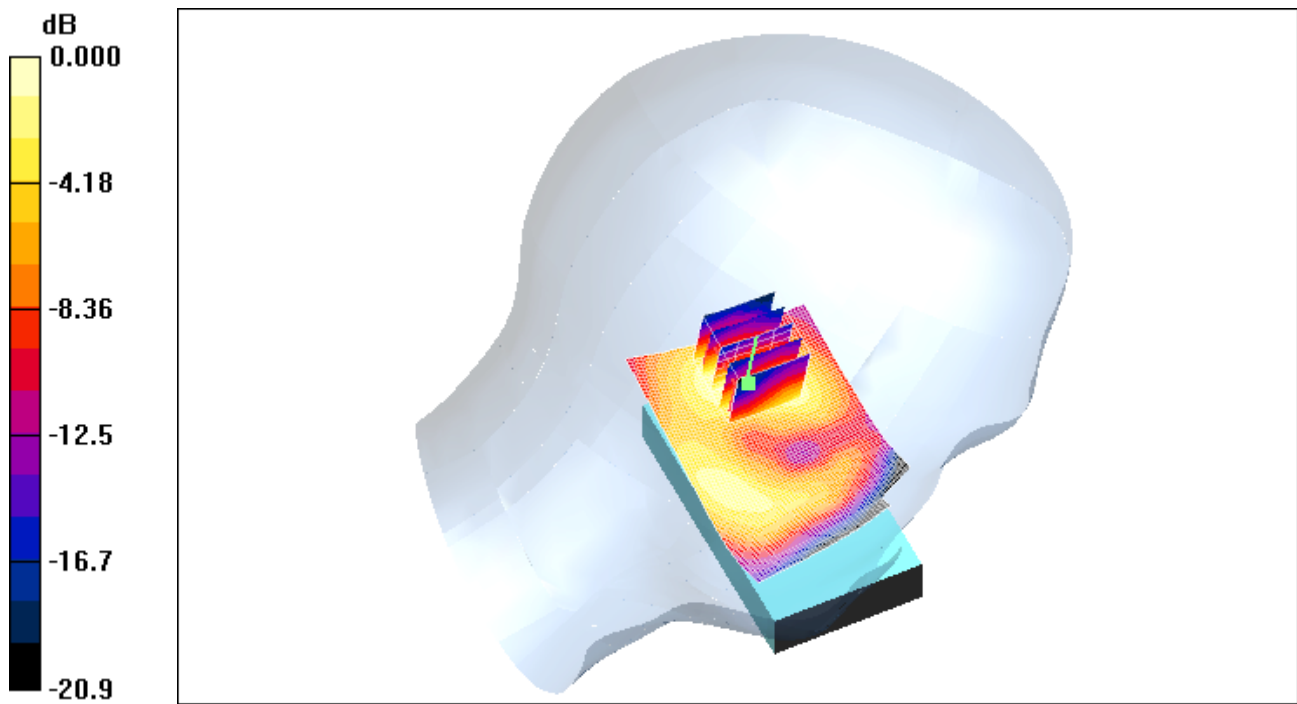
Peak SAR (extrapolated) = 0.481 W/kg

SAR(1 g) = 0.242 mW/g ; SAR(10 g) = 0.123 mW/g

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

Maximum value of SAR (measured) = 0.268 mW/g

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0 dB = 0.268mW/g

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Date/Time: 03/09/2009 11:07:42 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [LeftHandSide_802.11b_high_chan_Amb_Tem_23.4_Liq_Tem_22.5_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.9 \text{ mho/m}$; $\epsilon_r = 37.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.234 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 = 12.3 V/m ; Power Drift = -0.122 dB

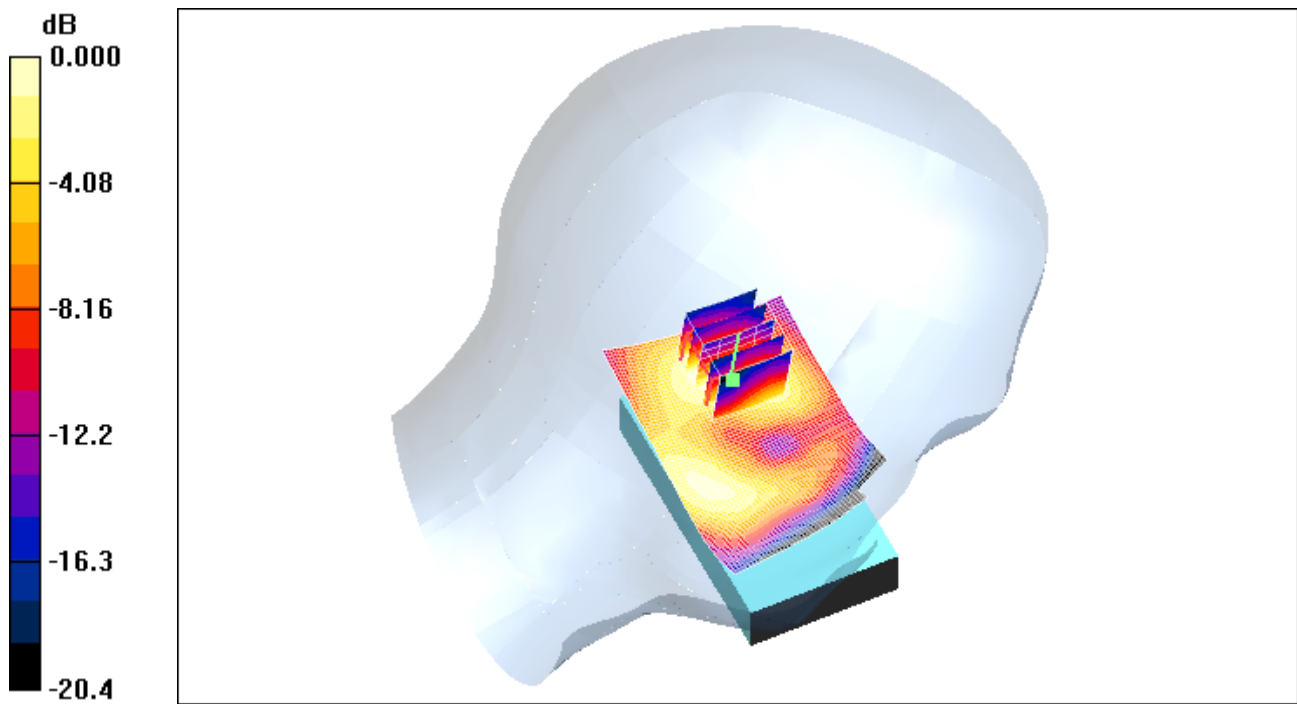
Peak SAR (extrapolated) = 0.477 W/kg

SAR(1 g) = 0.238 mW/g ; SAR(10 g) = 0.120 mW/g

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

Maximum value of SAR (measured) = 0.247 mW/g

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0 dB = 0.247mW/g

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Date/Time: 03/09/2009 11:29:28 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide Tilt 802.11b_mid_chan_Amb_Tem_23.3_Liq_Tem_22.4_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9

Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.87 \text{ mho/m}$; $\epsilon_r = 37.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.393 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 = 15.5 V/m ; Power Drift = -0.272 dB

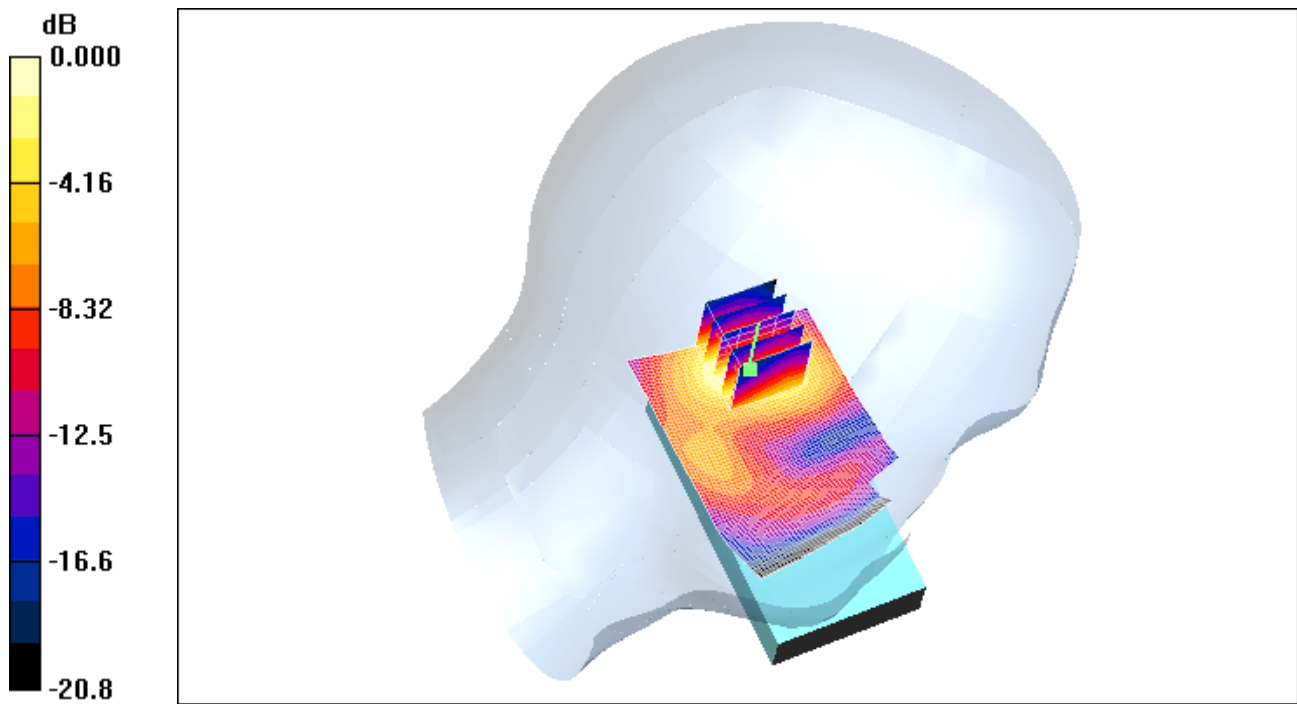
Peak SAR (extrapolated) = 0.697 W/kg

SAR(1 g) = 0.346 mW/g ; SAR(10 g) = 0.170 mW/g

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

Maximum value of SAR (measured) = 0.387 mW/g

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0 dB = 0.387mW/g

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Date/Time: 04/09/2009 12:18:32 AM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide_802.11b_low_chan_Amb_Tem_23.2_Liq_Tem_22.3_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.84 \text{ mho/m}$; $\epsilon_r = 37.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.52, 4.52, 4.52); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.364 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 = -0.220 dB

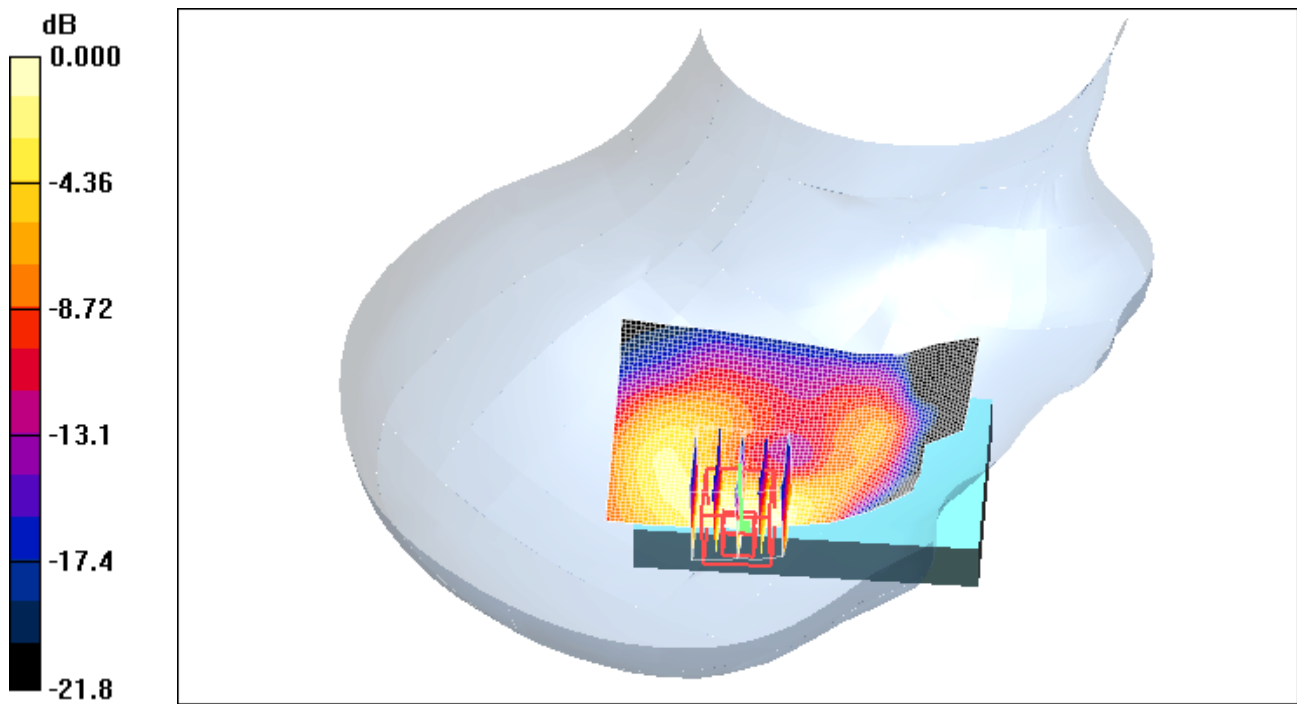
Peak SAR (extrapolated) = 0.775 W/kg

SAR(1 g) = 0.332 mW/g ; SAR(10 g) = 0.157 mW/g

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

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

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0 dB = 0.352mW/g

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Date/Time: 04/09/2009 12:02:33 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide 802.11b mid chan Amb Tem 23.3 Liq Tem 22.4 C R2.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.87 \text{ mho/m}$; $\epsilon_r = 37.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.52, 4.52, 4.52); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.311 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 = 10.4 V/m ; Power Drift = -0.157 dB

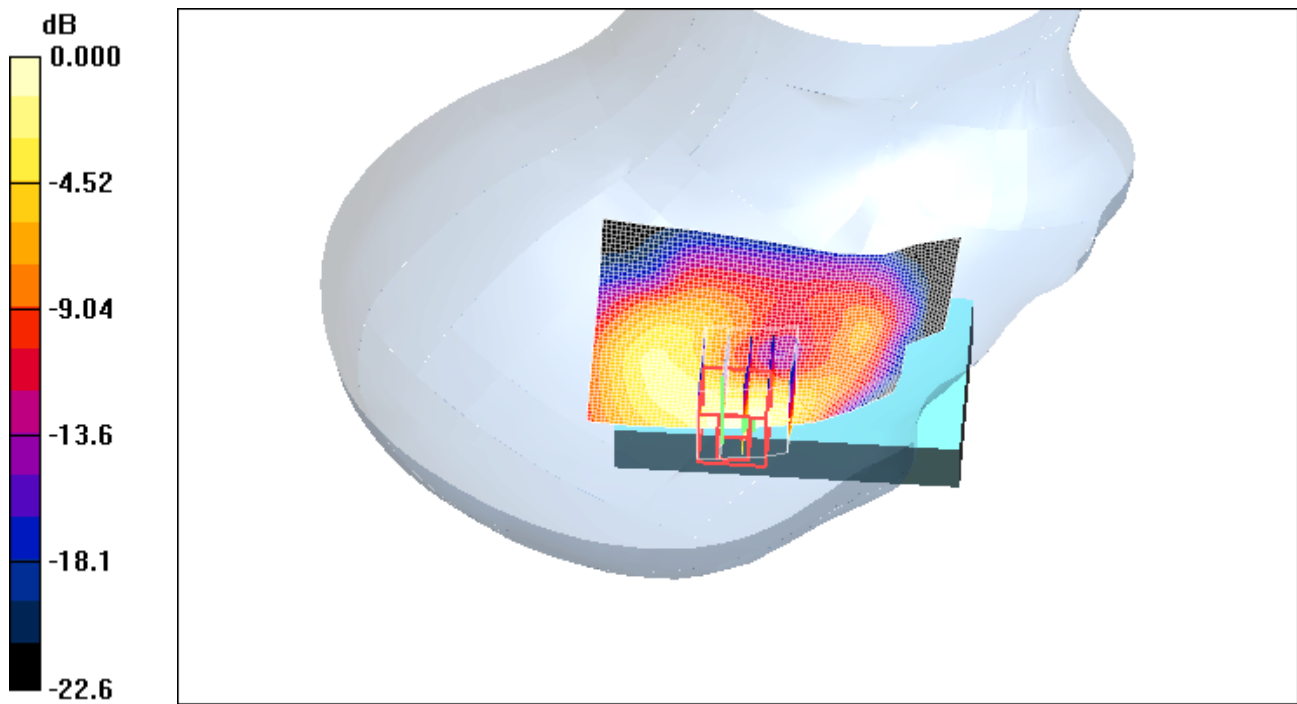
Peak SAR (extrapolated) = 0.730 W/kg

SAR(1 g) = 0.309 mW/g ; SAR(10 g) = 0.148 mW/g

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

Maximum value of SAR (measured) = 0.343 mW/g

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0 dB = 0.343mW/g

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Date/Time: 04/09/2009 12:36:11 AM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide_802.11b_high_chan_Amb_Tem_23.2_Liq_Tem_22.3_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.9 \text{ mho/m}$; $\epsilon_r = 37.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.52, 4.52, 4.52); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.318 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 = -0.074 dB

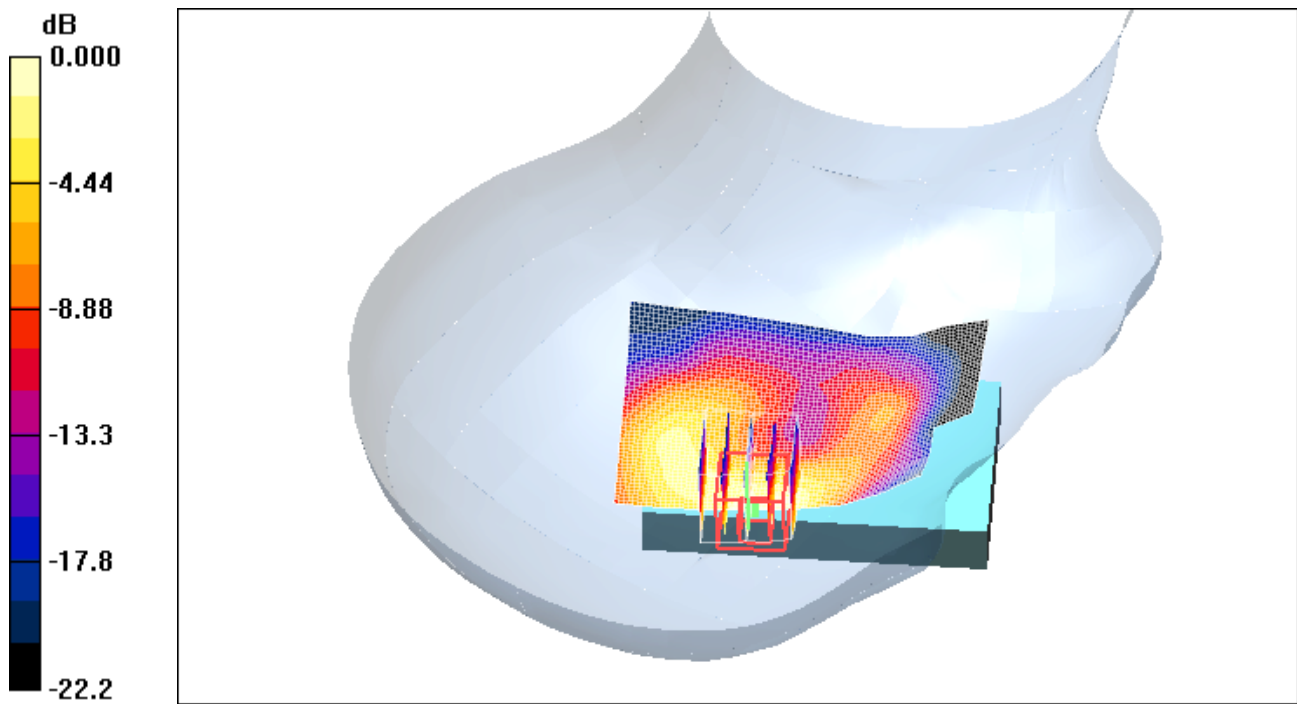
Peak SAR (extrapolated) = 0.761 W/kg

SAR(1 g) = 0.330 mW/g ; SAR(10 g) = 0.160 mW/g

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

Maximum value of SAR (measured) = 0.373 mW/g

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0 dB = 0.373mW/g

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Date/Time: 04/09/2009 5:41:37 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide Tilt 802.11b_mid_chan Amb Tem 23.9 Liq Tem 22.5 C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30D9ECA9
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 37.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.313 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = -0.064 dB

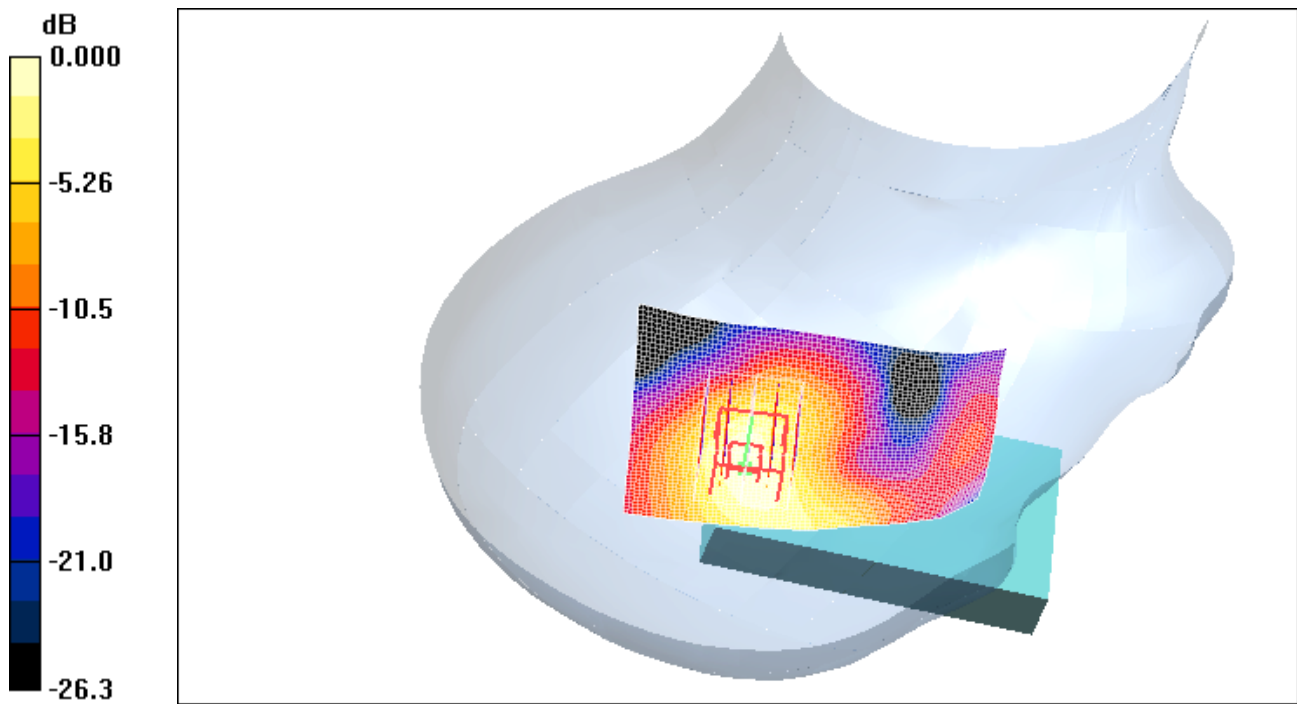
Peak SAR (extrapolated) = 0.589 W/kg

SAR(1 g) = 0.299 mW/g; SAR(10 g) = 0.154 mW/g

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

Maximum value of SAR (measured) = 0.338 mW/g

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0 dB = 0.338mW/g

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Date/Time: 28/09/2009 9:47:54 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide Tilt 802.11b_mid_chan Amb Tem 24.4 Liq Tem 22.2 C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30EC2ACE
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.86 \text{ mho/m}$; $\epsilon_r = 37.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.446 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 = 16.2 V/m ; Power Drift = -0.016 dB

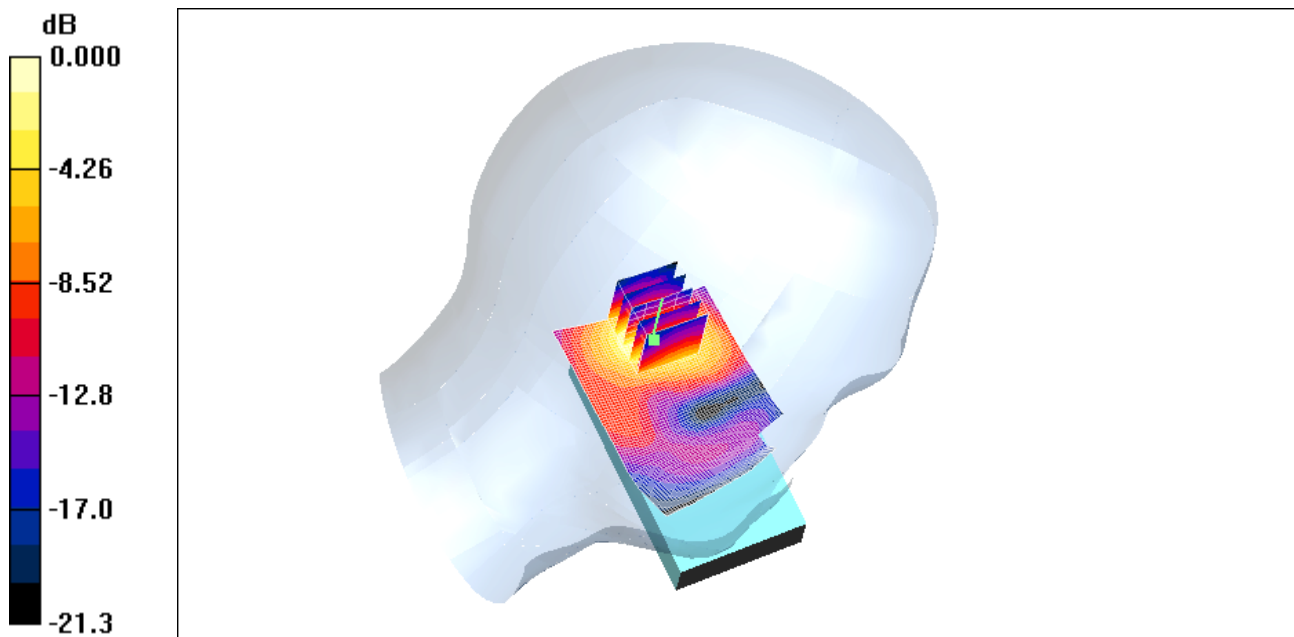
Peak SAR (extrapolated) = 0.827 W/kg

SAR(1 g) = 0.400 mW/g ; SAR(10 g) = 0.193 mW/g

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

Maximum value of SAR (measured) = 0.454 mW/g

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0 dB = 0.454mW/g

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Date/Time: 28/09/2009 11:35:53 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide_802.11b_low_chan_Amb_Tem_24.2_Liq_Tem_22.1_C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 30EC2ACE
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.83 \text{ mho/m}$; $\epsilon_r = 37.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.52, 4.52, 4.52); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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) = 0.351 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 = 0.017 dB

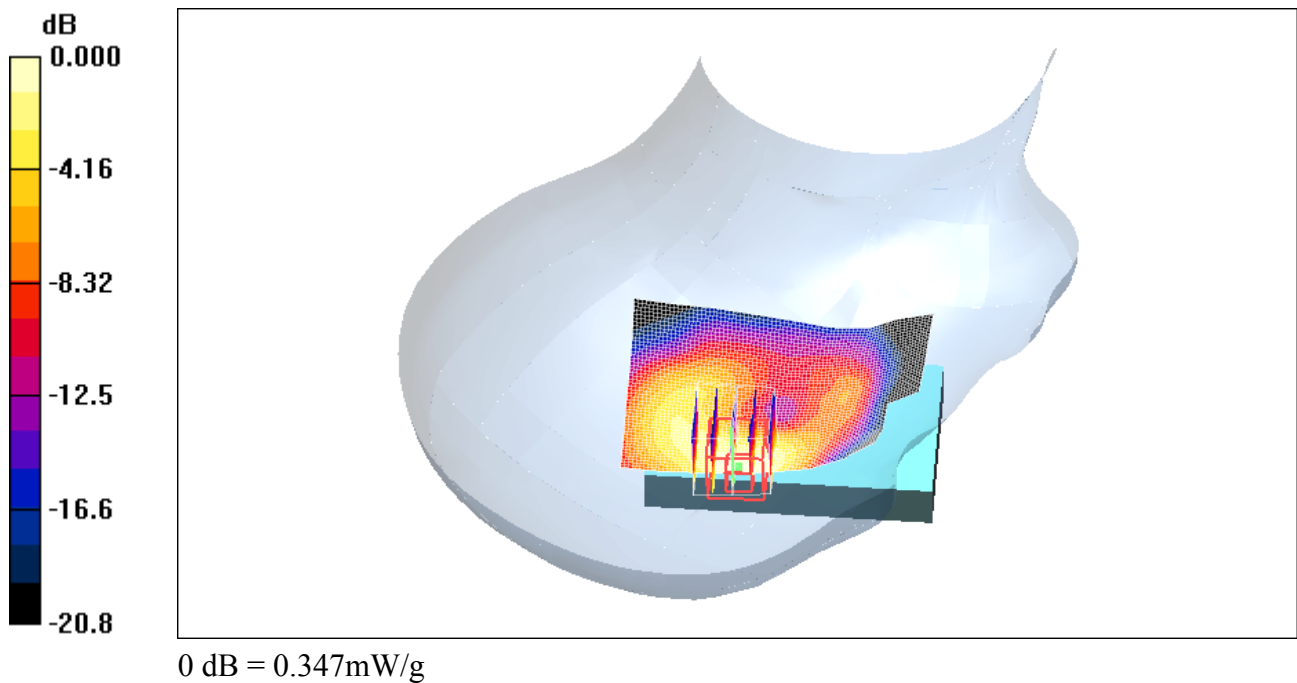
Peak SAR (extrapolated) = 0.704 W/kg

SAR(1 g) = 0.317 mW/g ; SAR(10 g) = 0.159 mW/g

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

Maximum value of SAR (measured) = 0.347 mW/g

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Z axis plot for the worst case head configuration:

