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APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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Date/Time: 11/29/2010 6:17:53 PM

Test Laboratory: RIM Testing Services

LeftHandSide_802.11b_low_chan_Amb_Tem_23.8_Liq_Tem_22.5_C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.79 \text{ mho/m}$; $\epsilon_r = 39.1$; $\rho = 1000 \text{ kg/m}^3$

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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.266 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 = 7.79 V/m; Power Drift = 0.053 dB

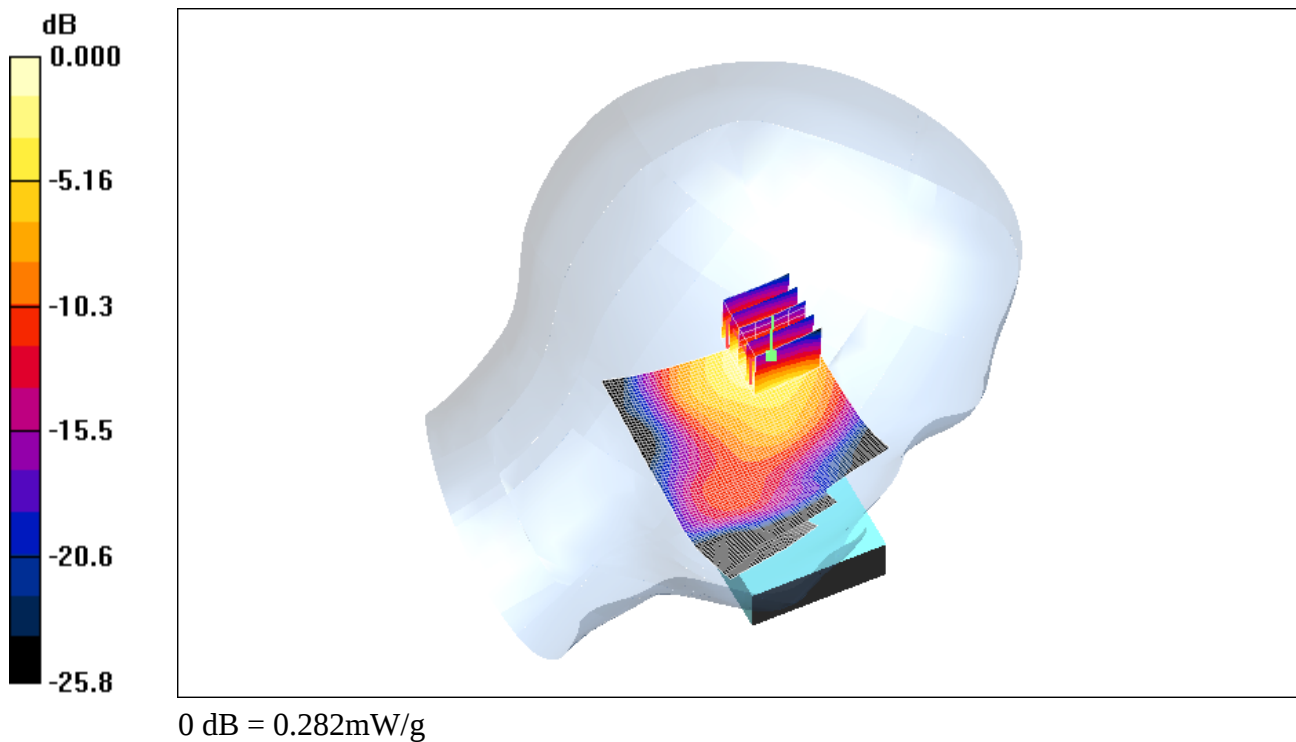
Peak SAR (extrapolated) = 0.532 W/kg

SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.122 mW/g

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

Maximum value of SAR (measured) = 0.282 mW/g

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Date/Time: 11/29/2010 5:45:25 PM

Test Laboratory: RIM Testing Services

LeftHandSide_802.11b_mid_chan_Amb_Tem_23.8_Liq_Tem_22.5_C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.8 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$

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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.386 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 = 9.02 V/m; Power Drift = 0.035 dB

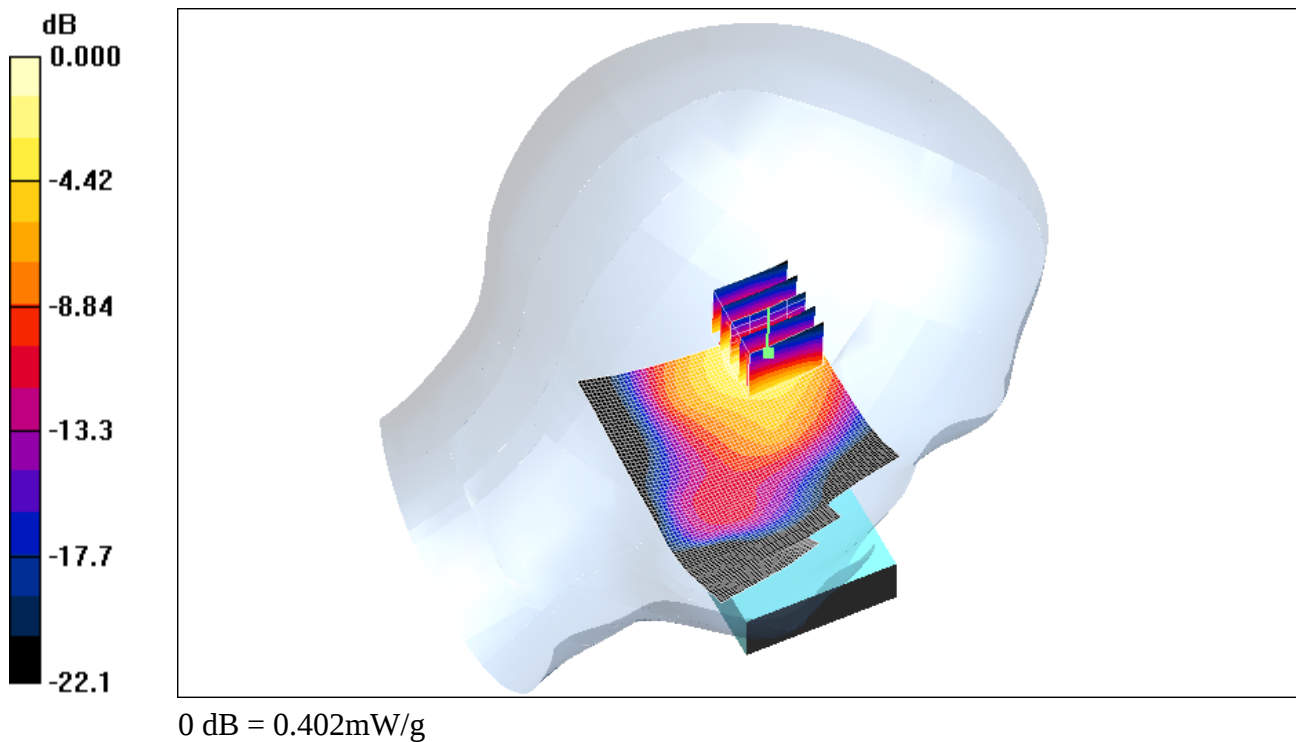
Peak SAR (extrapolated) = 0.758 W/kg

SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.171 mW/g

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

Maximum value of SAR (measured) = 0.402 mW/g

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Date/Time: 11/29/2010 6:01:14 PM

Test Laboratory: RIM Testing Services

LeftHandSide_802.11b_Slide_Open_mid_chan_Amb_Tem_23.9_Liq_Tem_22.6_C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.8 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$
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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.105 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 = 2.77 V/m ; Power Drift = 0.355 dB

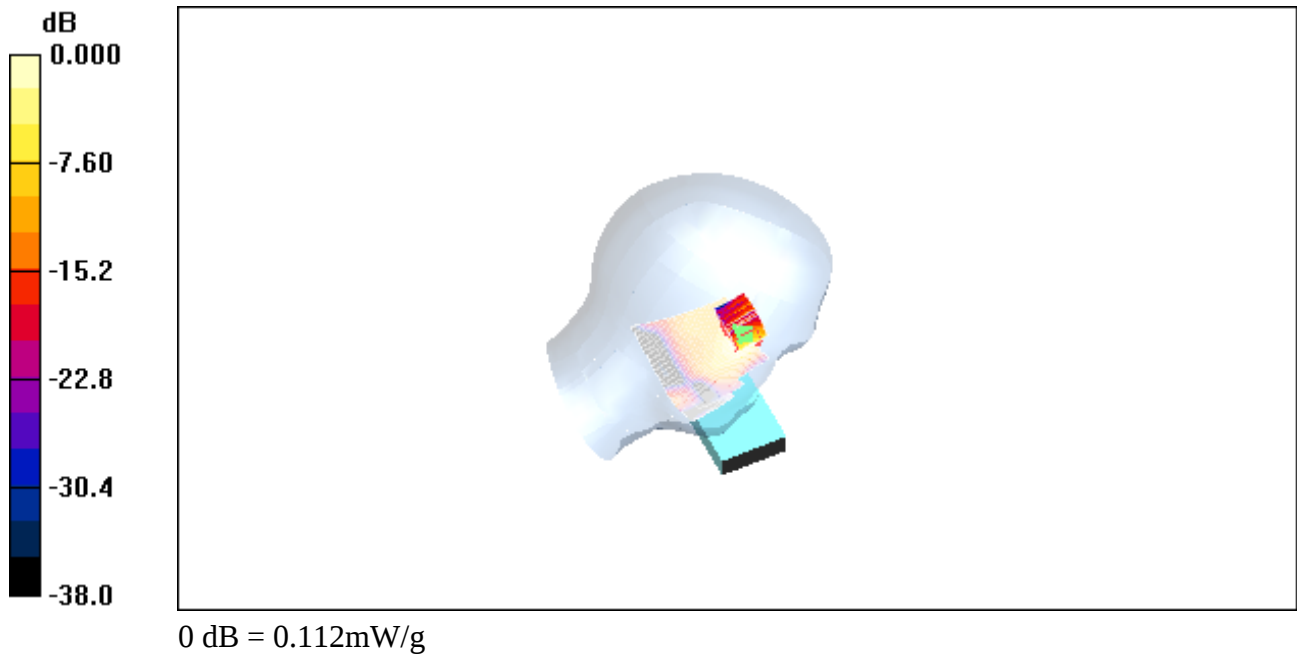
Peak SAR (extrapolated) = 0.234 W/kg

SAR(1 g) = 0.105 mW/g ; SAR(10 g) = 0.047 mW/g

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

Maximum value of SAR (measured) = 0.112 mW/g

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Date/Time: 11/29/2010 6:34:20 PM

Test Laboratory: RIM Testing Services

LeftHandSide_802.11b_high_chan_Amb_Tem_23.8_Liq_Tem_22.5_C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.83 \text{ mho/m}$; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.367 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 = 9.21 V/m ; Power Drift = -0.213 dB

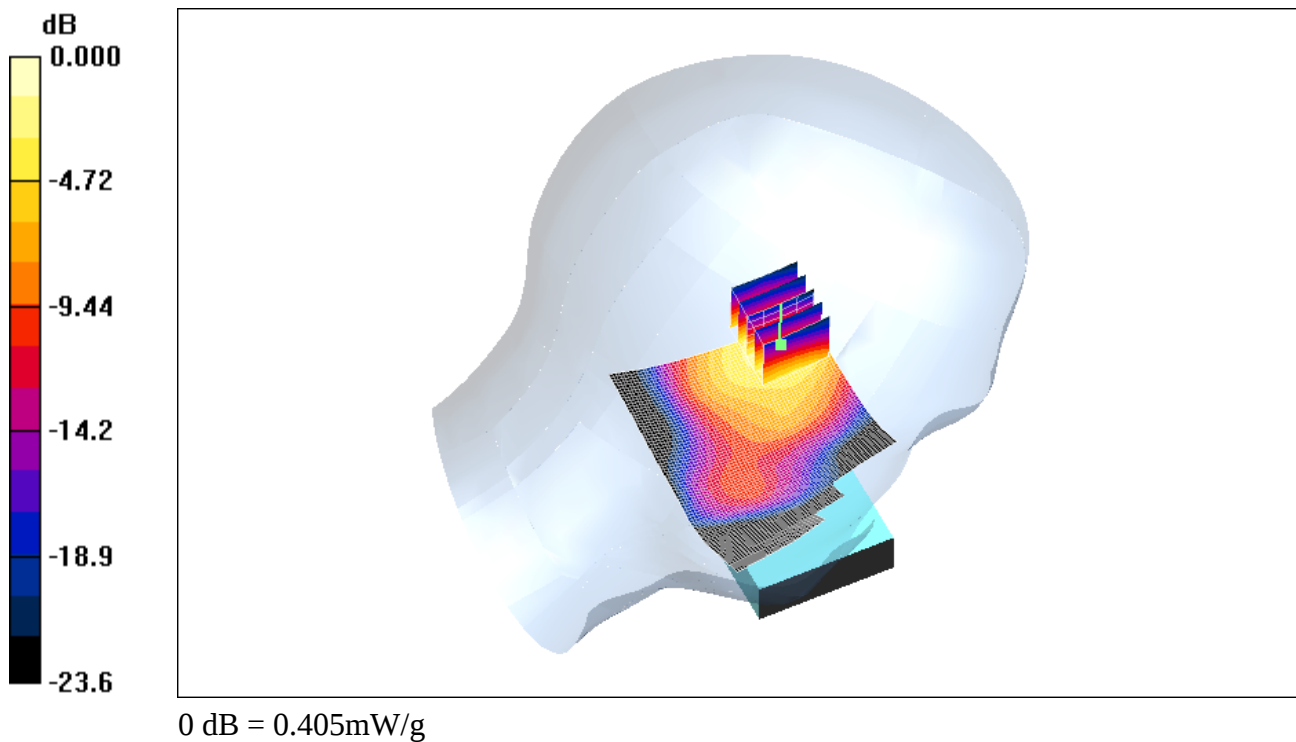
Peak SAR (extrapolated) = 0.770 W/kg

SAR(1 g) = 0.357 mW/g ; SAR(10 g) = 0.170 mW/g

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

Maximum value of SAR (measured) = 0.405 mW/g

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Hang Wang	Nov 25 - 29, 2010	RTS-2337-1012-25	L6ARCY70UW	2503A-RCY70UW	

Date/Time: 11/29/2010 6:52:47 PM

Test Laboratory: RIM Testing Services

LeftHandSide_Tilt_802.11b_high_chan_Amb_Tem_23.9_Liq_Tem_22.6_C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.83 \text{ mho/m}$; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

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) = 0.440 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 = -0.008 dB

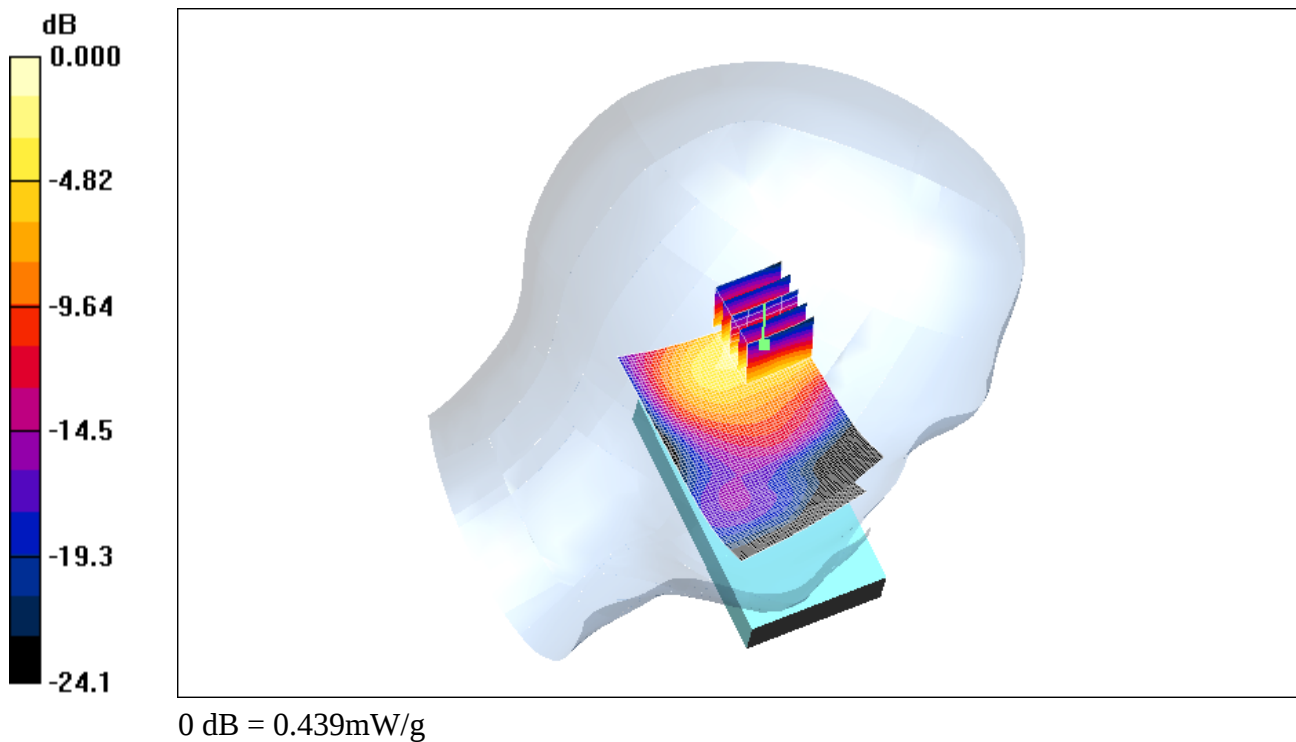
Peak SAR (extrapolated) = 0.896 W/kg

SAR(1 g) = 0.398 mW/g ; SAR(10 g) = 0.183 mW/g

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

Maximum value of SAR (measured) = 0.439 mW/g

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Date/Time: 11/25/2010 1:42:52 AM

Test Laboratory: RIM Testing Services

RightHandSide_802.11b_low_chan_Amb_Tem_23.6_Liq_Tem_22.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

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 (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.140 mW/g

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

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

Reference Value = 8.66 V/m; Power Drift = -0.067 dB

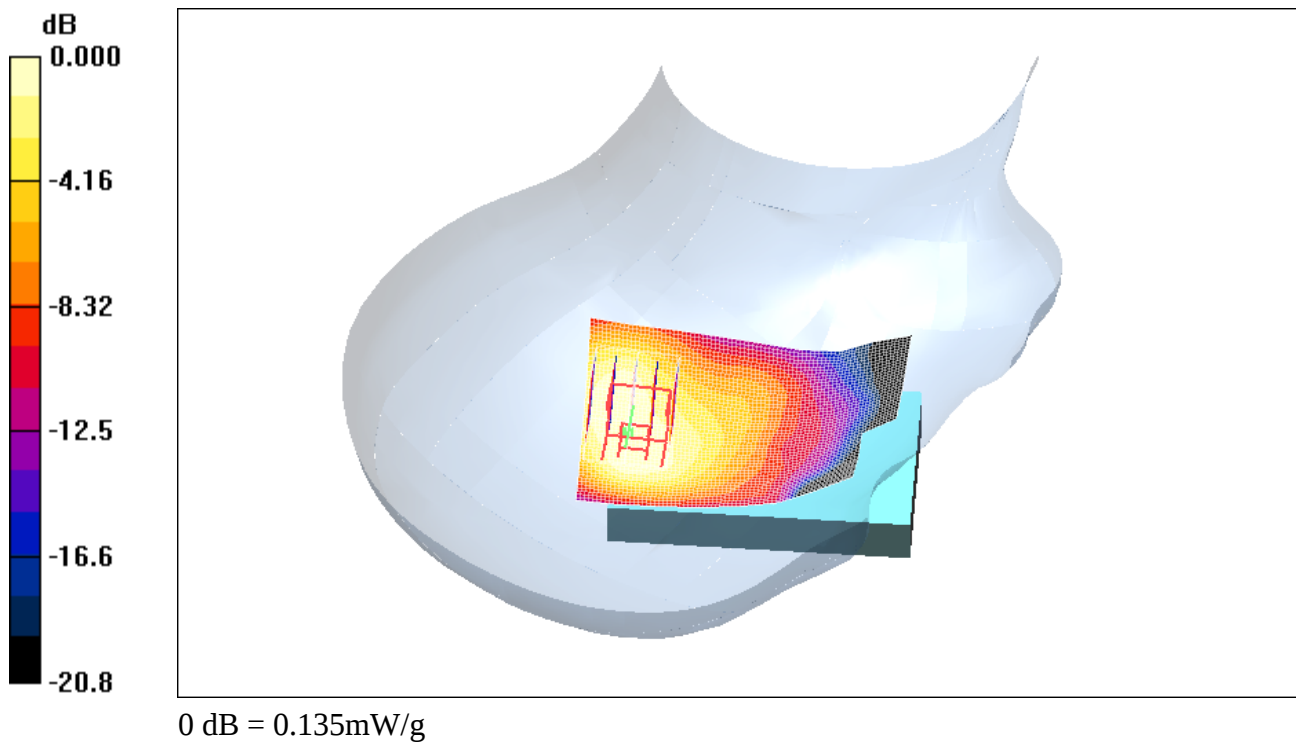
Peak SAR (extrapolated) = 0.219 W/kg

SAR(1 g) = 0.125 mW/g; SAR(10 g) = 0.071 mW/g

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

Maximum value of SAR (measured) = 0.135 mW/g

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Date/Time: 11/25/2010 1:12:59 AM

Test Laboratory: RIM Testing Services

RightHandSide_802.11b_mid_chan_Amb_Tem_23.9_Liq_Tem_22.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.82 \text{ mho/m}$; $\epsilon_r = 38.4$; $\rho = 1000 \text{ kg/m}^3$

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 (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.210 mW/g

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

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

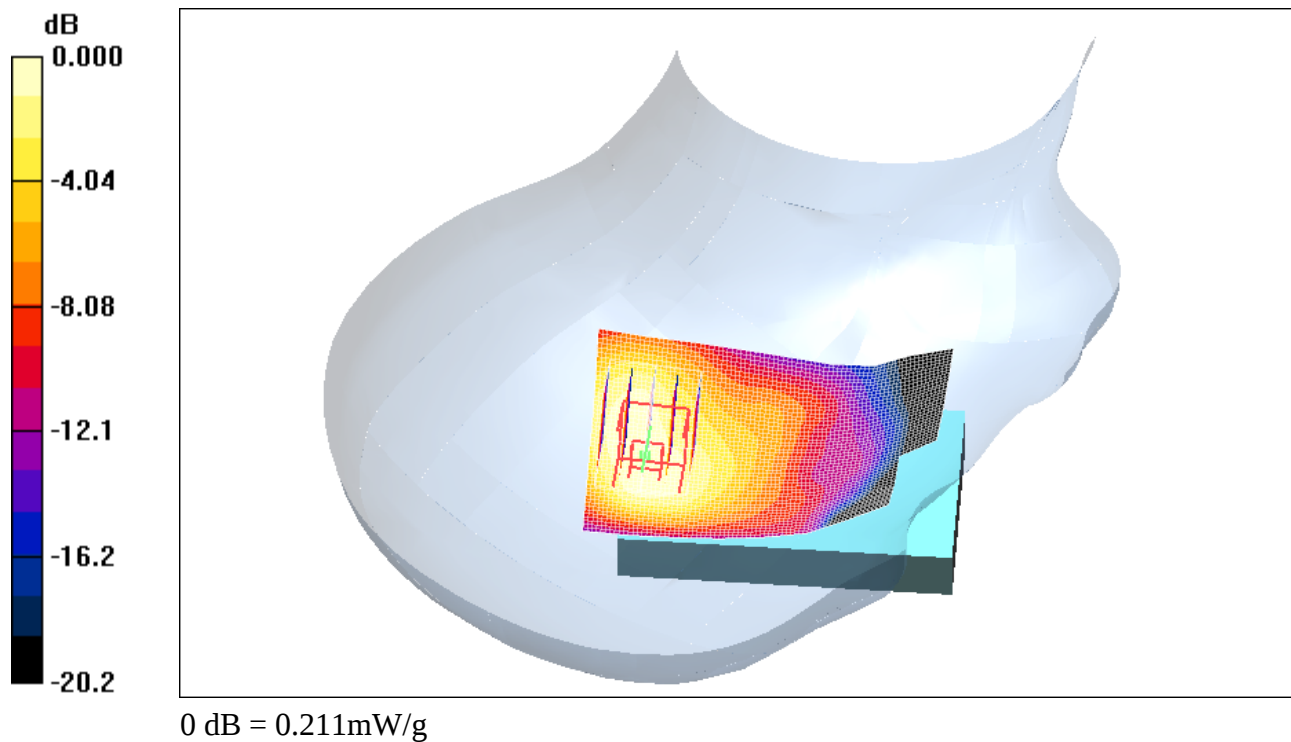
Reference Value = 10.7 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 0.340 W/kg

SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.107 mW/g

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

Maximum value of SAR (measured) = 0.211 mW/g



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Date/Time: 11/25/2010 1:27:18 AM

Test Laboratory: RIM Testing Services

RightHandSide_802.11b_Slide_Open_mid_chan_Amb_Tem_23.7_Liq_Tem_22.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.82 \text{ mho/m}$; $\epsilon_r = 38.4$; $\rho = 1000 \text{ kg/m}^3$
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 (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.062 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 = 3.87 V/m; Power Drift = 0.205 dB

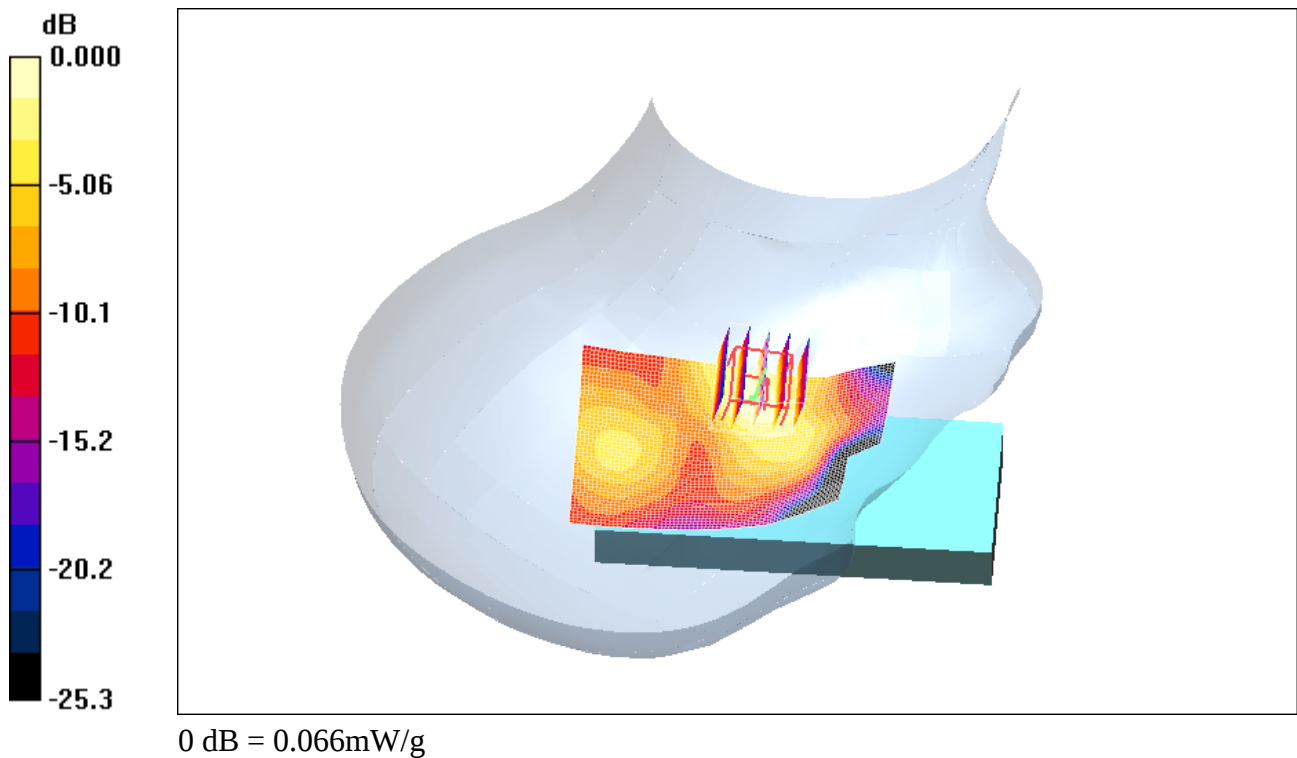
Peak SAR (extrapolated) = 0.120 W/kg

SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.029 mW/g

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

Maximum value of SAR (measured) = 0.066 mW/g

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Date/Time: 11/29/2010 5:14:55 PM

Test Laboratory: RIM Testing Services

RightHandSide_802.11b_high_chan_Amb_Tem_23.8_Liq_Tem_22.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.83 \text{ mho/m}$; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

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 (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.211 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 = 0.108 dB

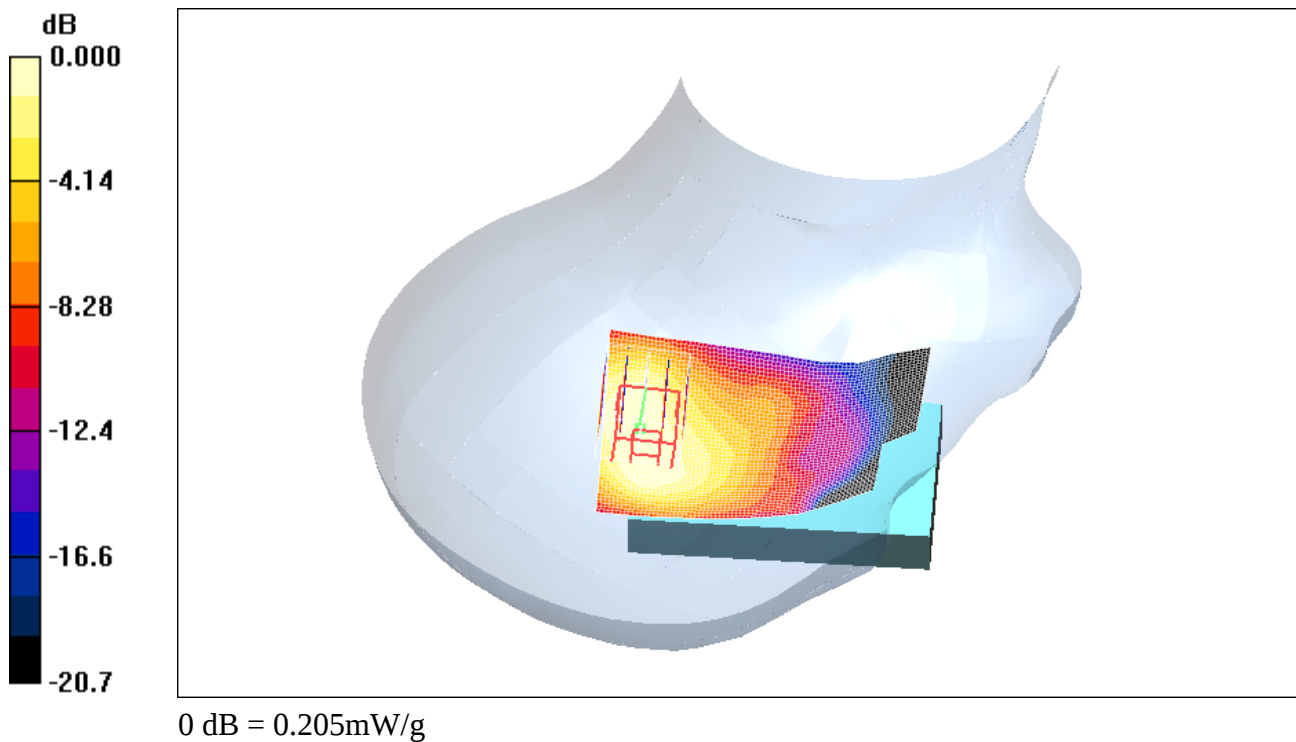
Peak SAR (extrapolated) = 0.352 W/kg

SAR(1 g) = 0.191 mW/g ; SAR(10 g) = 0.109 mW/g

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

Maximum value of SAR (measured) = 0.205 mW/g

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Date/Time: 11/29/2010 5:30:37 PM

Test Laboratory: RIM Testing Services

RightHandSide_Tilt_802.11b_mid_chan_Amb_Tem_23.8_Liq_Tem_22.5 C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.8 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$
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 (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.277 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 = -0.106 dB

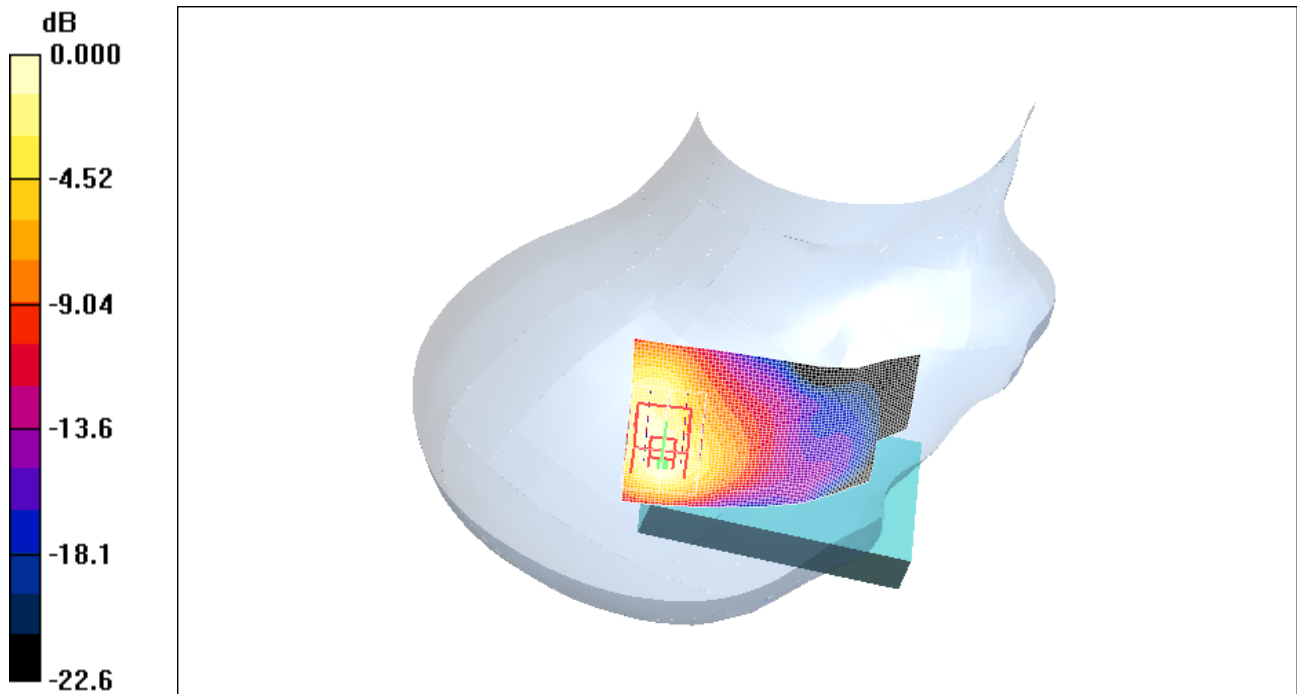
Peak SAR (extrapolated) = 0.449 W/kg

SAR(1 g) = 0.245 mW/g ; SAR(10 g) = 0.129 mW/g

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

Maximum value of SAR (measured) = 0.275 mW/g

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0 dB = 0.275mW/g

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Worst Case Head SAR

