

APPENDIX 2 : SAR Measurement data

1. Evaluation procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the E-field at a fixed location above the ear point or central position of flat phantom was used as a reference value for assessing the power drop.

Step 2: The SAR distribution at the exposed side of head or body position was measured at a distance of each device from the inner surface of the shell. The area covered the entire dimension of the antenna of EUT and the horizontal grid spacing was 20 mm x 20 mm . Based on these data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Around this point found in the Step 2 (area scan) , a volume of 30mm x 30mm x 30mm was assessed by measuring 7 x 7 x 7 points. And for any secondary peaks found in the Step2 which are within 2dB of maximum peak and not with this Step3 (Zoom scan) is repeated. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

(1). The data at the surface were extrapolated, since the center of the dipoles is 1mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm [4]. A polynomial of the fourth order was calculated through the points in z-axes.

This polynomial was then used to evaluate the points between the surface and the probe tip.

(2). The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one-dimensional splines with the "Not a knot"-condition (in x, y and z-directions) [4], [5]. The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.

(3). All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Re-measurement of the E-field at the same location as in Step 1.

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2. Measurement data (GSM 850)

PV210 / Head / Left cheek / GSM / 190ch(836.6MHz)

Duty Cycle: 1:8.3

Medium: HSL900 Medium parameters used: $f = 835$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 42.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(11.05, 11.05, 11.05); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.444 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.67 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 0.481 W/kg

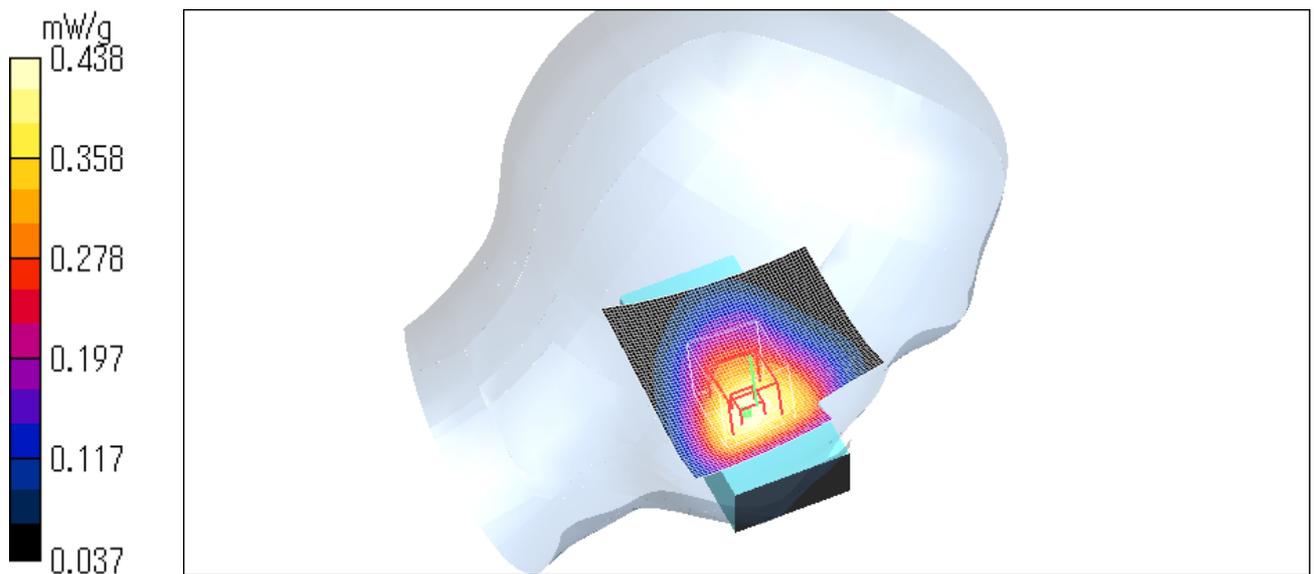
SAR(1 g) = 0.380 mW/g; SAR(10 g) = 0.280 mW/g

Maximum value of SAR (measured) = 0.438 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 22.0 degree.C , After 22.0 degree.C



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PV210 / Head / Left tilt / GSM / 190ch(836.6MHz)

Duty Cycle: 1:8.3

Medium: HSL900 Medium parameters used: $f = 835$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 42.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(11.05, 11.05, 11.05); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.254 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 0.293 W/kg

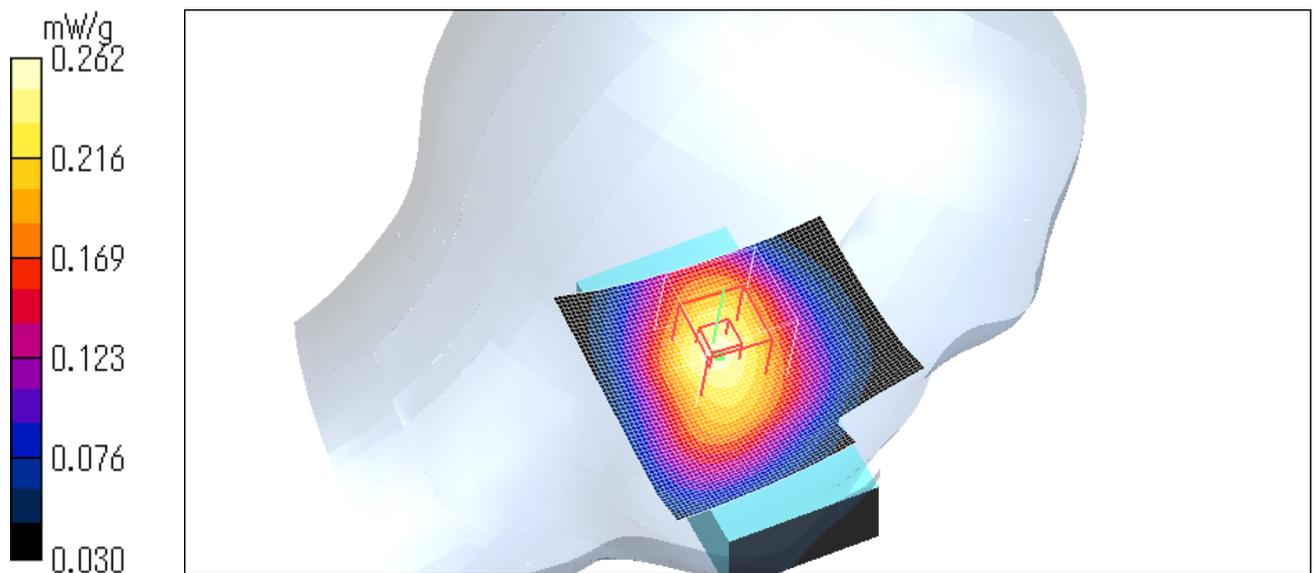
SAR(1 g) = 0.222 mW/g; SAR(10 g) = 0.164 mW/g

Maximum value of SAR (measured) = 0.262 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 22.0 degree.C , After 22.0 degree.C



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PV210 / Head / Right cheek / GSM / 190ch(836.6MHz)

Duty Cycle: 1:8.3

Medium: HSL900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(11.05, 11.05, 11.05); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 0.421 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.48 V/m; Power Drift = 0.157 dB

Peak SAR (extrapolated) = 0.499 W/kg

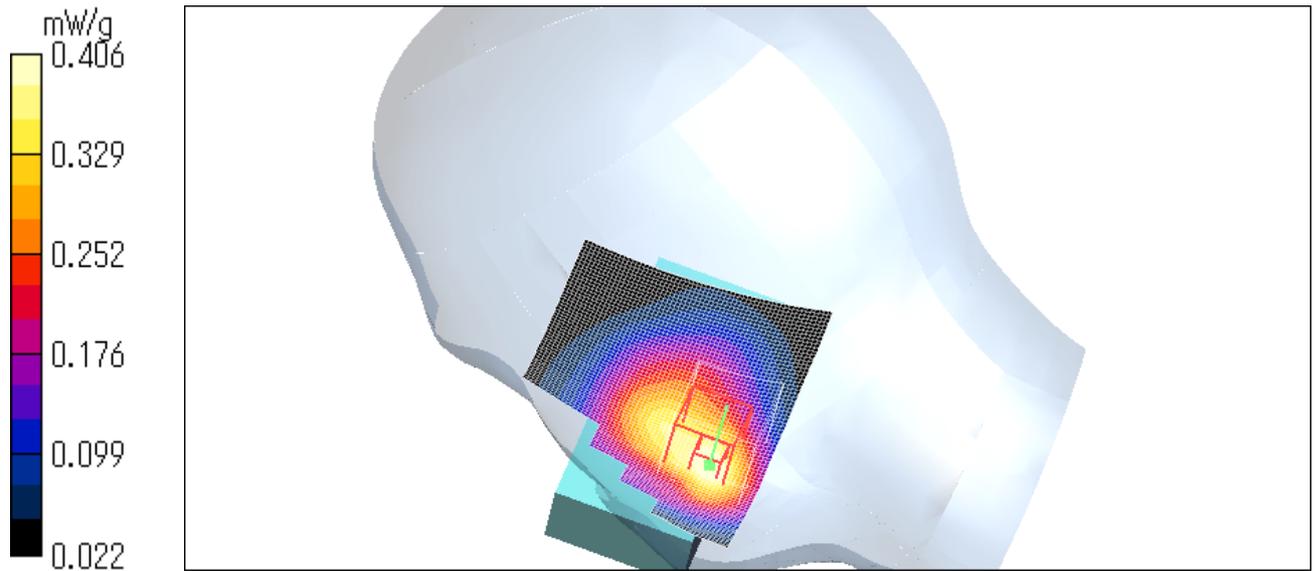
SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.220 mW/g

Maximum value of SAR (measured) = 0.406 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 22.0 degree.C , After 22.0 degree.C



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PV210 / Head / Right tilt / GSM / 190ch(836.6MHz)

Duty Cycle: 1:8.3

Medium: HSL900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(11.05, 11.05, 11.05); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 0.222 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.4 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 0.247 W/kg

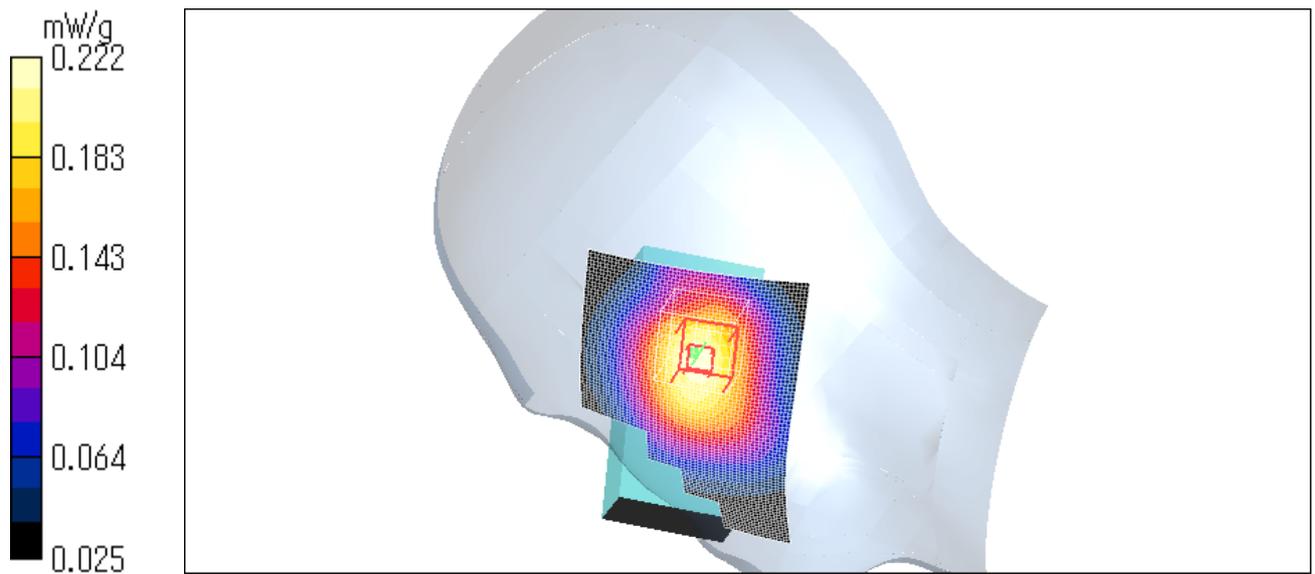
SAR(1 g) = 0.190 mW/g; SAR(10 g) = 0.139 mW/g

Maximum value of SAR (measured) = 0.222 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 22.0 degree.C , After 22.0 degree.C



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PV210 / Head / Left cheek / GSM / 128ch(824.2MHz)

Duty Cycle: 1:8.3

Medium: HSL900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(11.05, 11.05, 11.05); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.325 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.71 V/m; Power Drift = 0.179 dB

Peak SAR (extrapolated) = 0.354 W/kg

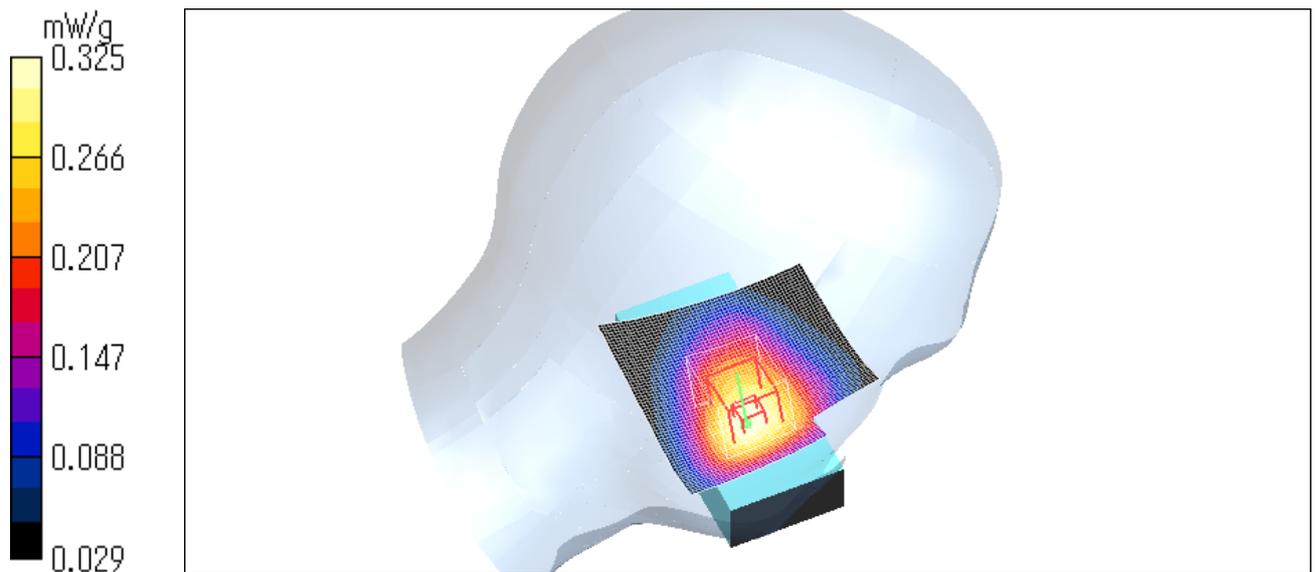
SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.211 mW/g

Maximum value of SAR (measured) = 0.325 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 22.0 degree.C , After 22.0 degree.C



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PV210 / Head / Left cheek / GSM / 251ch(848.8MHz)

Duty Cycle: 1:8.3

Medium: HSL900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(11.05, 11.05, 11.05); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.555 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.2 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.598 W/kg

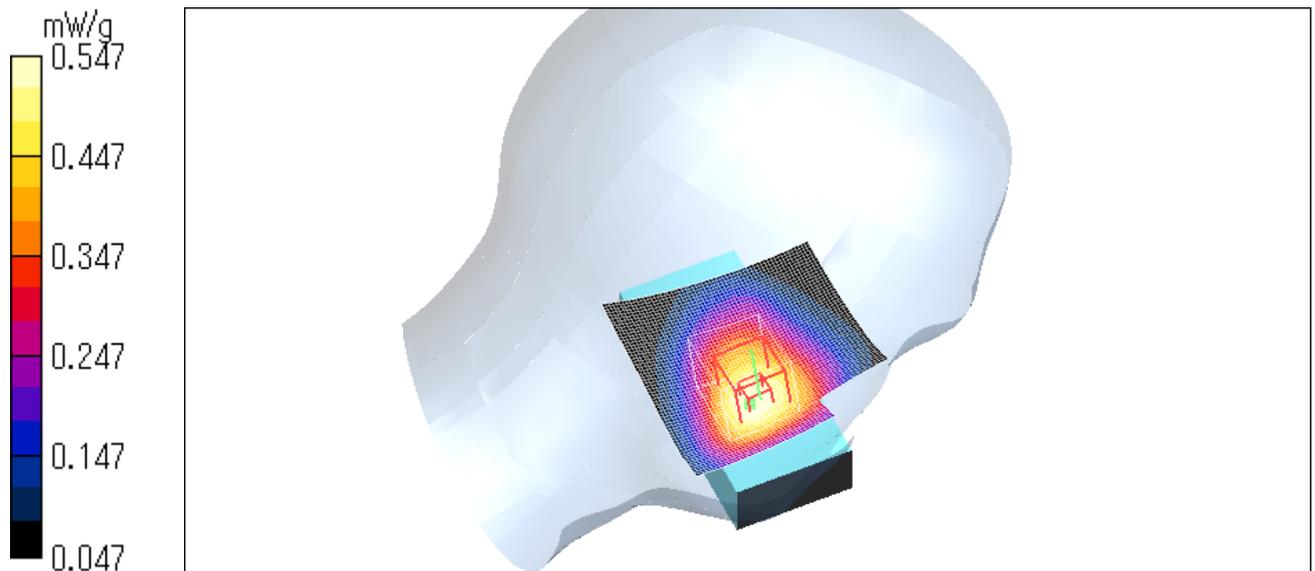
SAR(1 g) = 0.475 mW/g; SAR(10 g) = 0.351 mW/g

Maximum value of SAR (measured) = 0.547 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 22.0 degree.C , After 22.0 degree.C



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PV210/ Body/ Front/ GSM/ 190ch(836.6MHz)

Crest factor: 8.3

Medium: M900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.43, 10.43, 10.43); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (81x131x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.420 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.9 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 0.470 W/kg

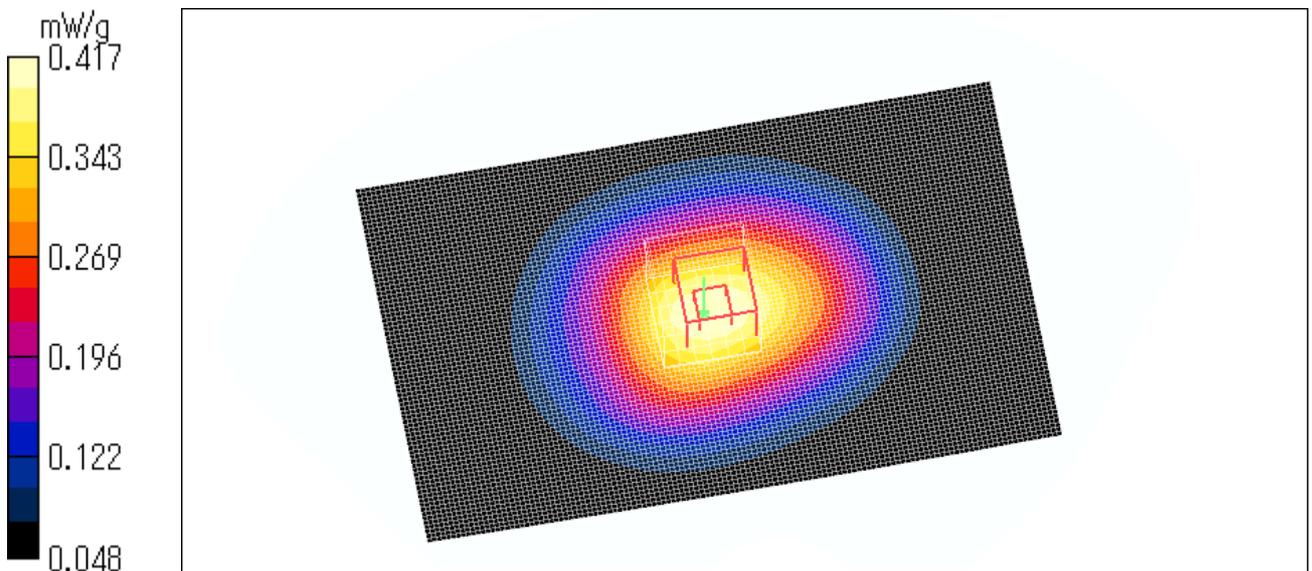
SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.263 mW/g

Maximum value of SAR (measured) = 0.417 mW/g

Test Date = 03/05/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 21.0 degree.C , After 21.0 degree.C



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PV210/ Body/ Back/ GSM/ 190ch(836.6MHz)

Crest factor: 8.3

Medium: M900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.43, 10.43, 10.43); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (81x131x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.1 V/m; Power Drift = -0.001 dB

Peak SAR (extrapolated) = 0.946 W/kg

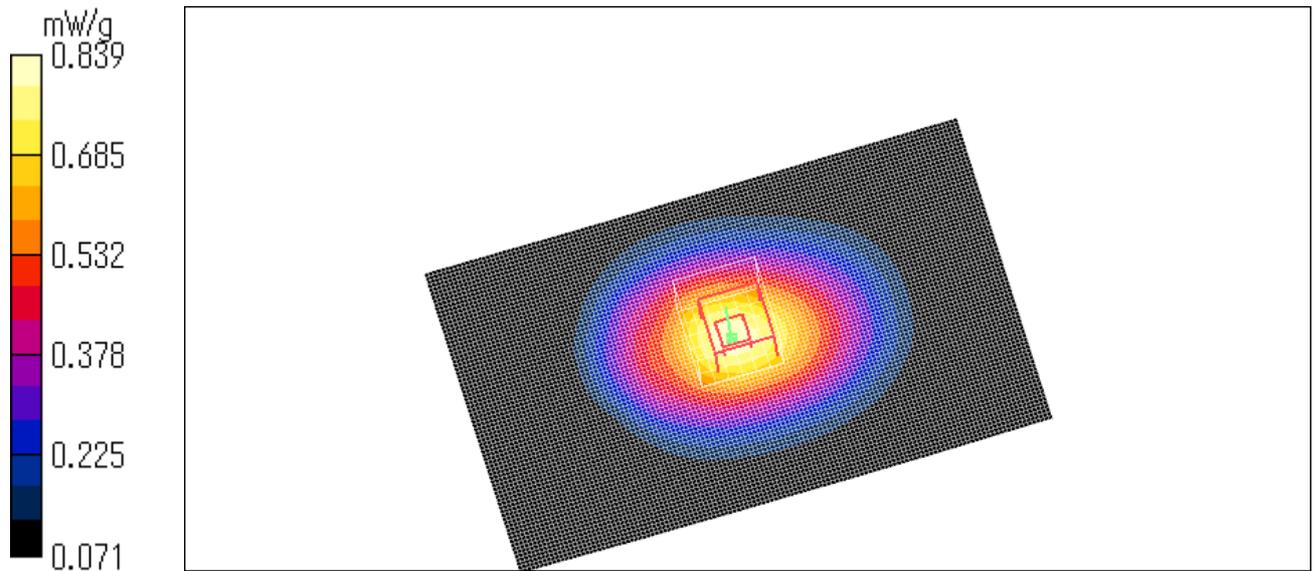
SAR(1 g) = 0.701 mW/g; SAR(10 g) = 0.506 mW/g

Maximum value of SAR (measured) = 0.839 mW/g

Test Date = 03/05/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 21.0 degree.C , After 21.0 degree.C



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PV210/ Body/ Back/ GSM/ 128ch(824.2MHz)

Crest factor: 8.3

Medium: M900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.43, 10.43, 10.43); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.690 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.4 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.776 W/kg

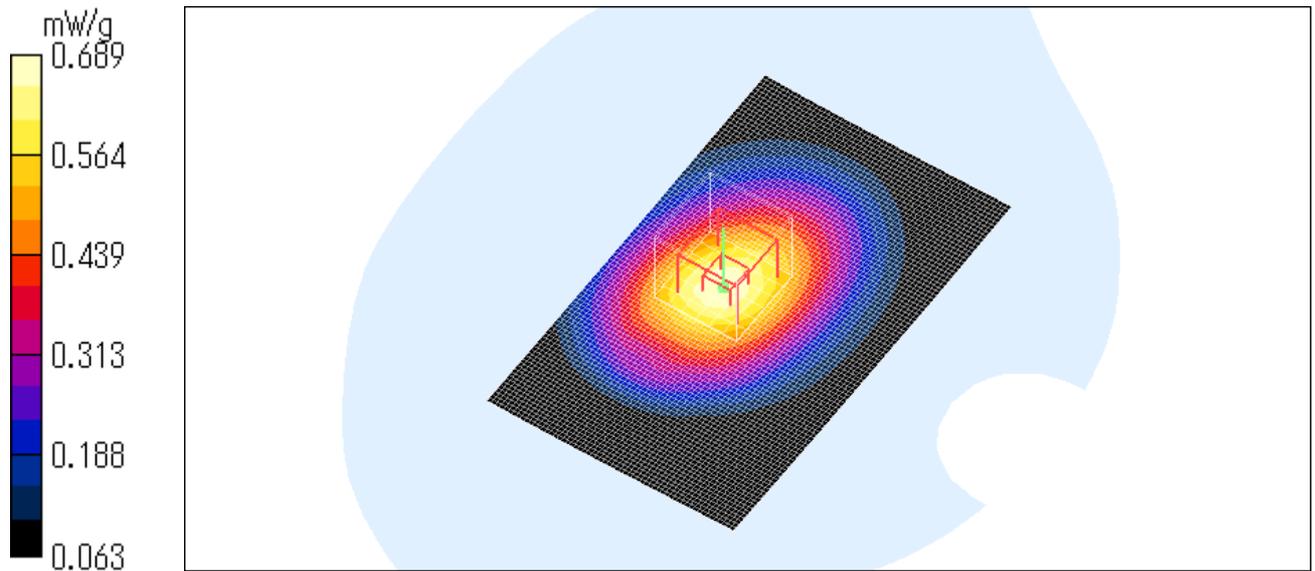
SAR(1 g) = 0.580 mW/g; SAR(10 g) = 0.418 mW/g

Maximum value of SAR (measured) = 0.689 mW/g

Test Date = 03/05/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 21.0 degree.C , After 21.0 degree.C



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PV210/ Body/ Back/ GSM/ 251ch(848.8MHz)

Crest factor: 8.3

Medium: M900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.43, 10.43, 10.43); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.1 V/m; Power Drift = 0.002 dB

Peak SAR (extrapolated) = 1.14 W/kg

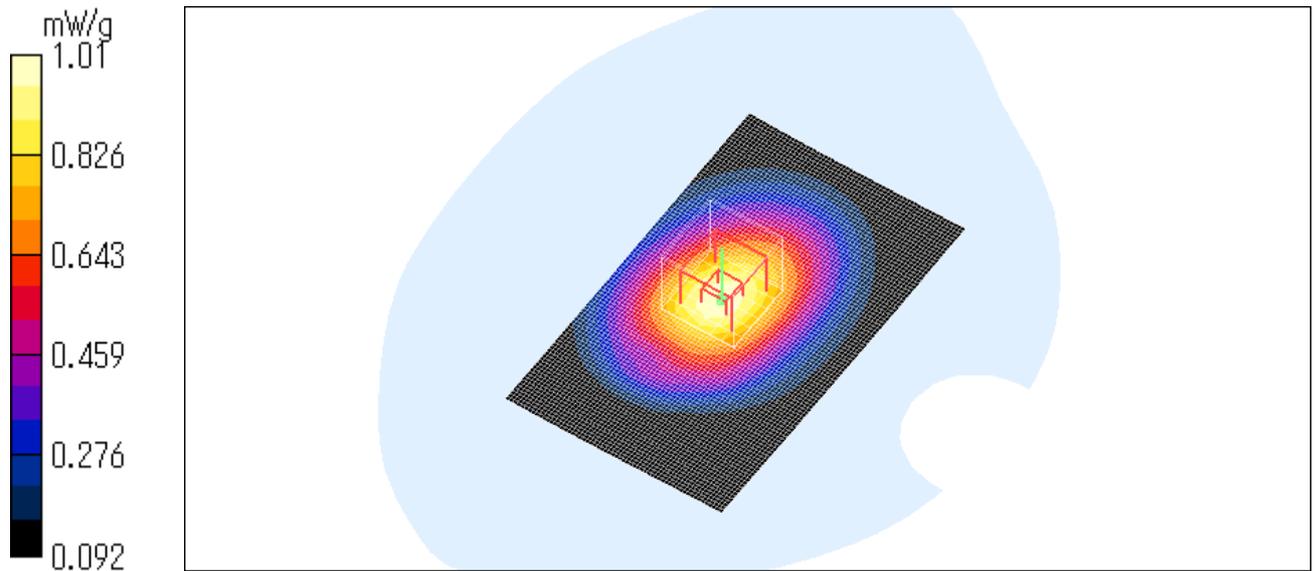
SAR(1 g) = 0.844 mW/g; SAR(10 g) = 0.611 mW/g

Maximum value of SAR (measured) = 1.01 mW/g

Test Date = 03/05/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 21.0 degree.C , After 21.0 degree.C



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PV210/ Body/ Front/ GPRS(GMSK)/ 190ch(836.6MHz)

Crest factor: 4.2

Medium: M900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.43, 10.43, 10.43); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.865 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.7 V/m; Power Drift = -0.180 dB

Peak SAR (extrapolated) = 0.842 W/kg

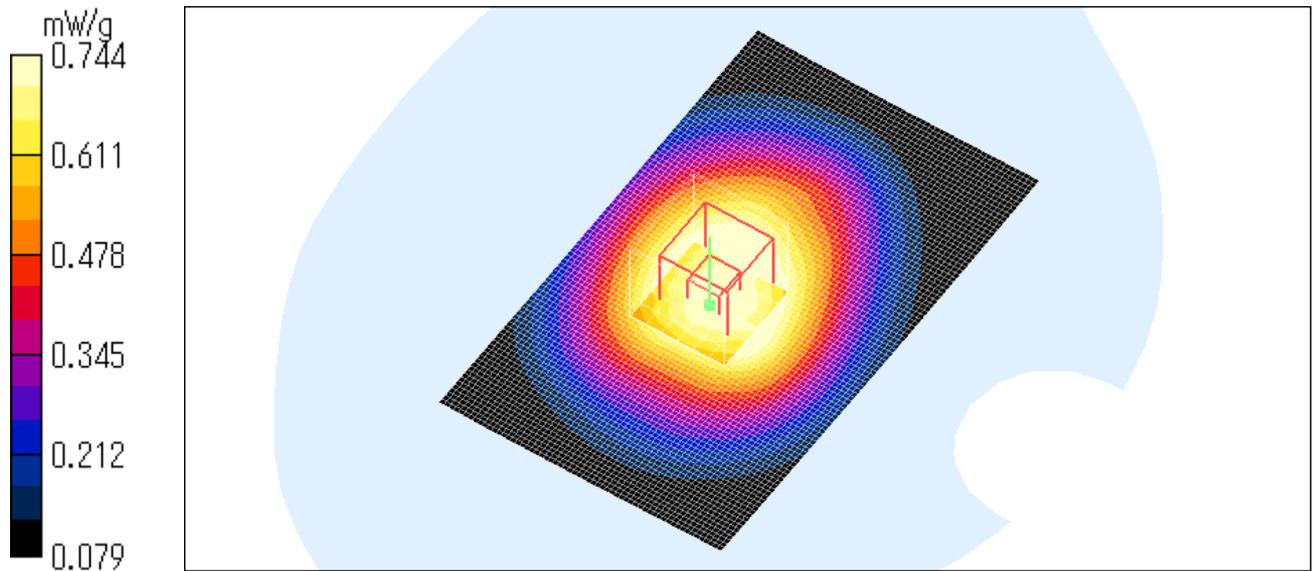
SAR(1 g) = 0.635 mW/g; SAR(10 g) = 0.476 mW/g

Maximum value of SAR (measured) = 0.744 mW/g

Test Date = 03/05/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 21.0 degree.C , After 21.0 degree.C



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PV210/ Body/ Back/ GPRS(GMSK)/ 190ch(836.6MHz)

Duty Cycle: 1:4.2

Medium: M900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.43, 10.43, 10.43); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.45 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 37.8 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 1.64 W/kg

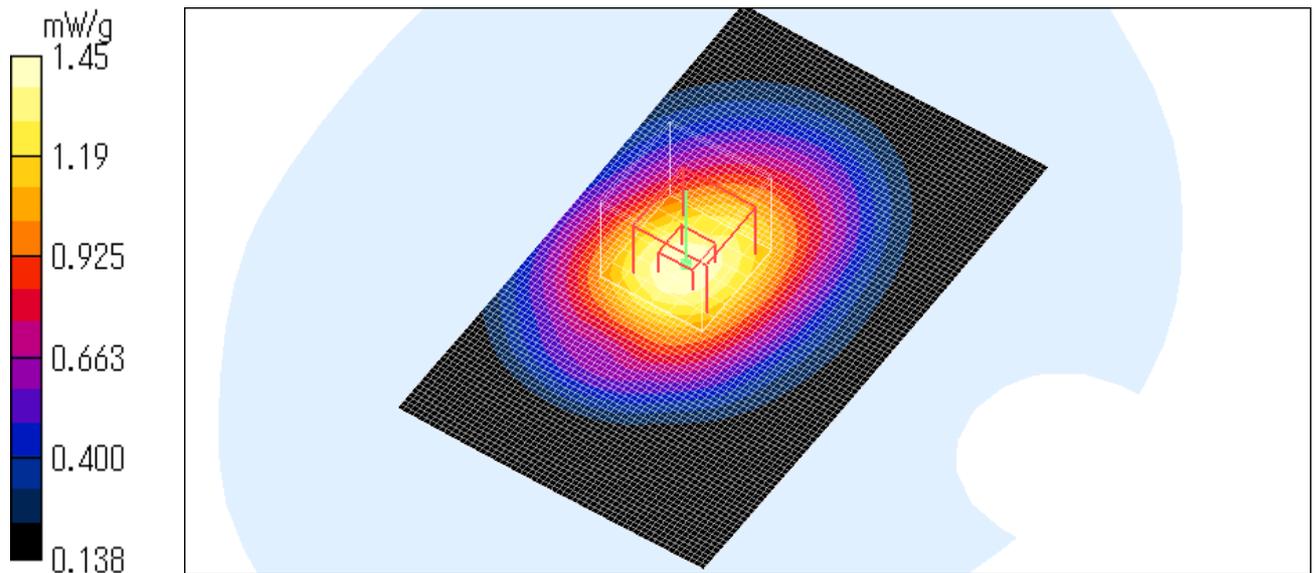
SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.891 mW/g

Maximum value of SAR (measured) = 1.45 mW/g

Test Date = 03/05/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 21.0 degree.C , After 21.0 degree.C



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PV210/ Body/ Back/ GPRS(GMSK)/ 128ch(824.2MHz)

Duty Cycle: 1:4.2

Medium: M900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.43, 10.43, 10.43); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.12 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.9 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 1.29 W/kg

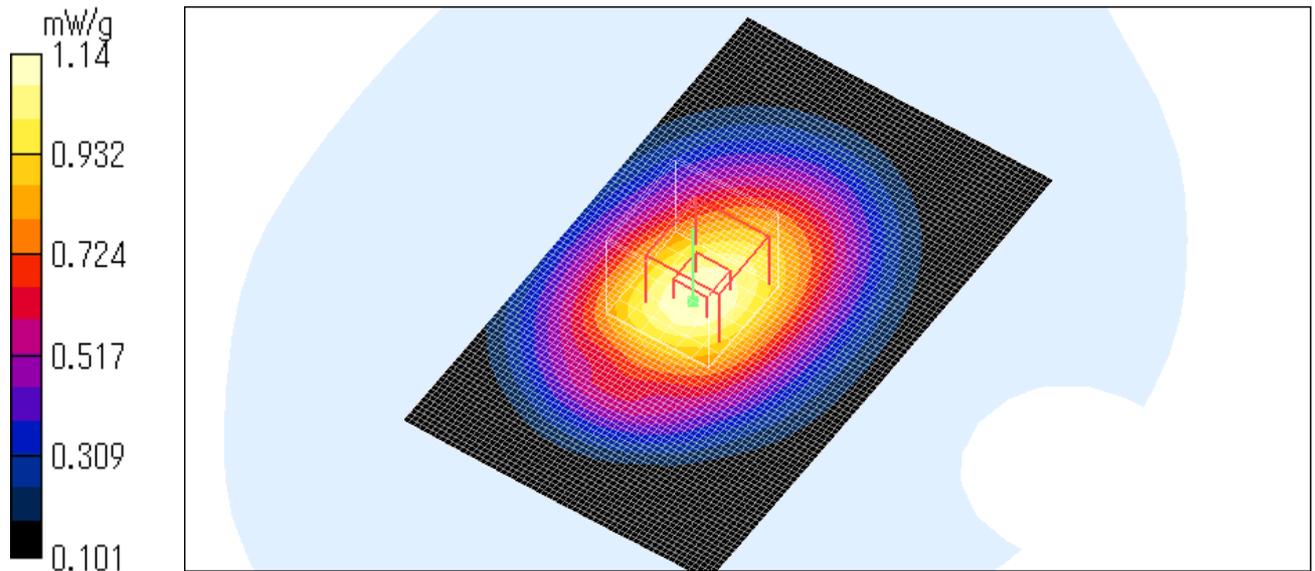
SAR(1 g) = 0.956 mW/g; SAR(10 g) = 0.693 mW/g

Maximum value of SAR (measured) = 1.14 mW/g

Test Date = 03/05/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 21.0 degree.C , After 21.0 degree.C



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PV210/ Body/ Back/ GPRS(GMSK)/ 251ch(848.8MHz)

Crest factor: 4.2

Medium: M900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.43, 10.43, 10.43); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.71 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 41.0 V/m; Power Drift = -0.142 dB

Peak SAR (extrapolated) = 1.81 W/kg

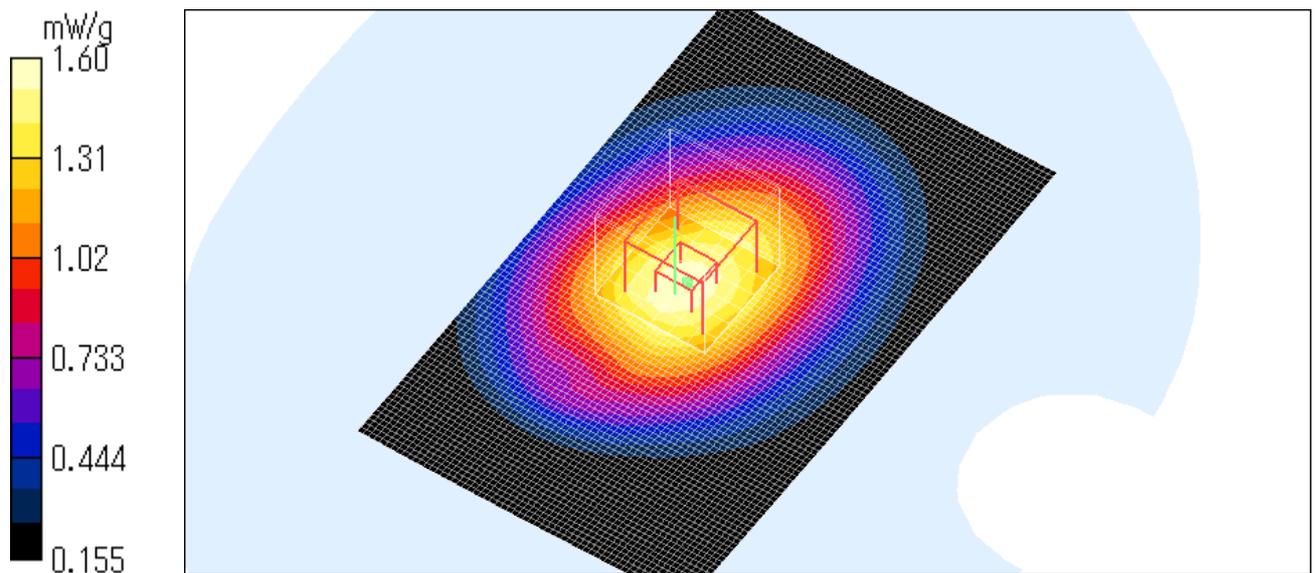
SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.968 mW/g

Maximum value of SAR (measured) = 1.60 mW/g

Test Date = 03/05/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 21.0 degree.C , After 21.0 degree.C



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PV210/ Body/ Back/ EGPRS(GMSK)/ 190ch(836.6MHz)

Crest factor: 4.2

Medium: M900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.43, 10.43, 10.43); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.45 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 38.6 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 1.63 W/kg

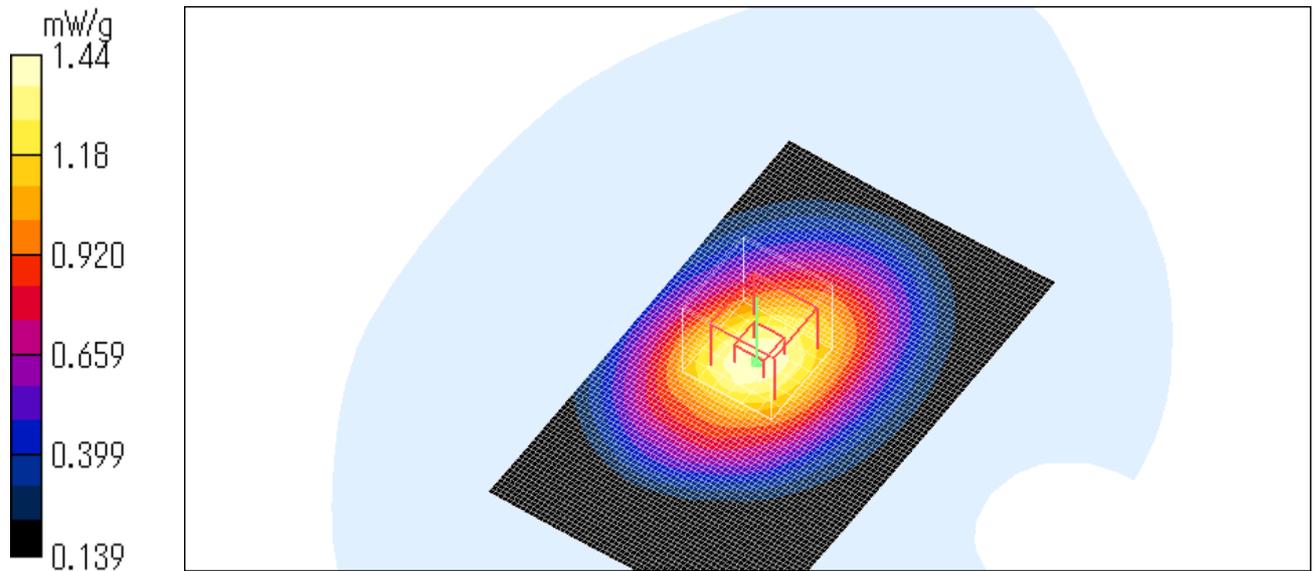
SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.884 mW/g

Maximum value of SAR (measured) = 1.44 mW/g

Test Date = 03/05/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 21.3 degree.C , After 21.3 degree.C



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PV210/ Body/ Back/ EGPRS(8PSK)/ 190ch(836.6MHz)

Crest factor: 4.2

Medium: M900 Medium parameters used: $f = 835$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.43, 10.43, 10.43); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.396 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 19.9 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.474 W/kg

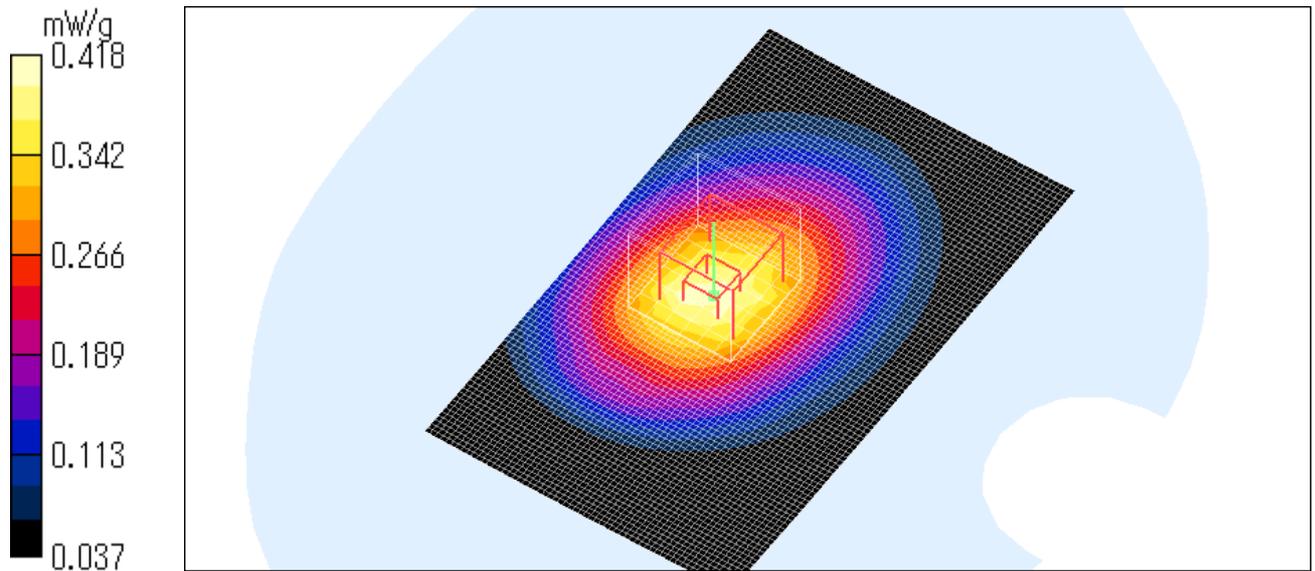
SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.247 mW/g

Maximum value of SAR (measured) = 0.418 mW/g

Test Date = 03/05/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 21.3 degree.C , After 21.3 degree.C



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PV210/ Body/ Front/ EGPRS(GMSK)/ 190ch(836.6MHz)

Crest factor: 4.2

Medium: M900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.43, 10.43, 10.43); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.782 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 28.2 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 0.886 W/kg

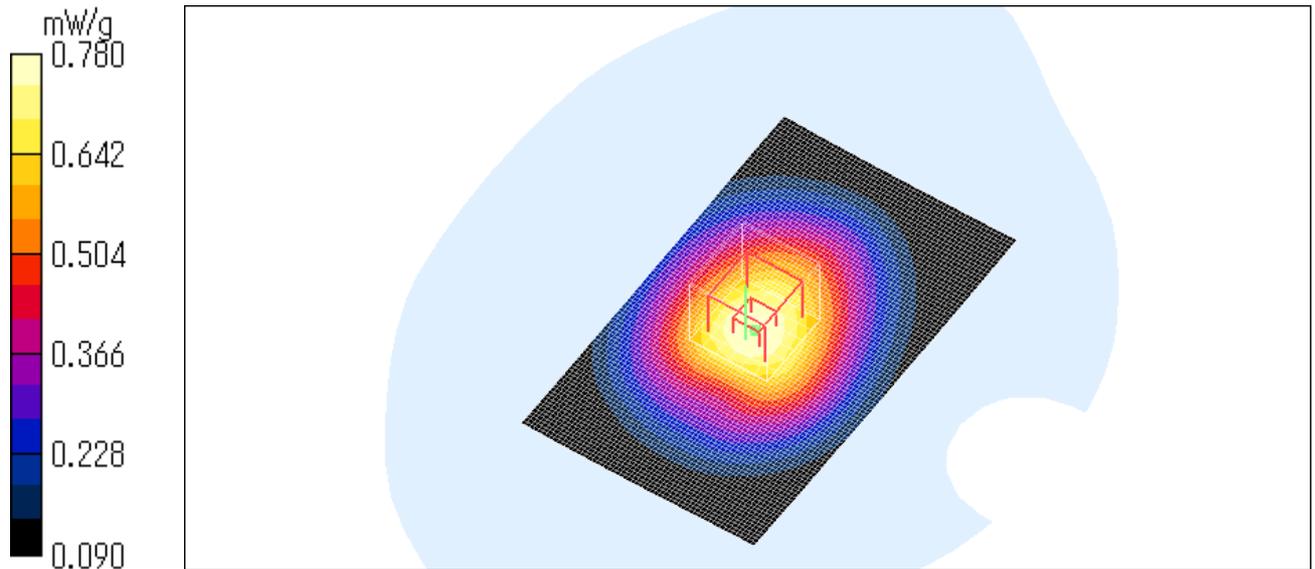
SAR(1 g) = 0.667 mW/g; SAR(10 g) = 0.496 mW/g

Maximum value of SAR (measured) = 0.780 mW/g

Test Date = 03/05/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 21.4 degree.C , After 21.4 degree.C



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PV210/ Body/ Back/ EGPRS(GMSK)/ 128ch(824.2MHz)

Crest factor: 4.2

Medium: M900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.43, 10.43, 10.43); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.26 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 34.8 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 1.43 W/kg

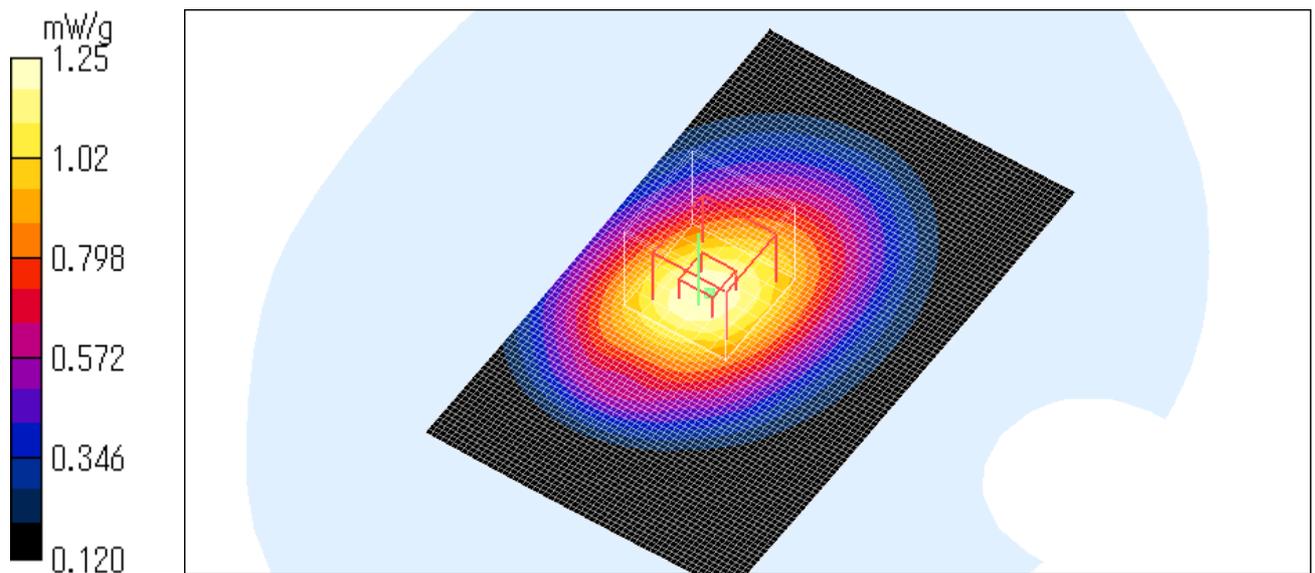
SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.762 mW/g

Maximum value of SAR (measured) = 1.25 mW/g

Test Date = 03/05/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 21.4 degree.C , After 21.4 degree.C



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PV210/ Body/ Back/ EGPRS(GMSK)/ 251ch(848.8MHz)

Crest factor: 4.2

Medium: M900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.43, 10.43, 10.43); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.61 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 39.9 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 1.80 W/kg

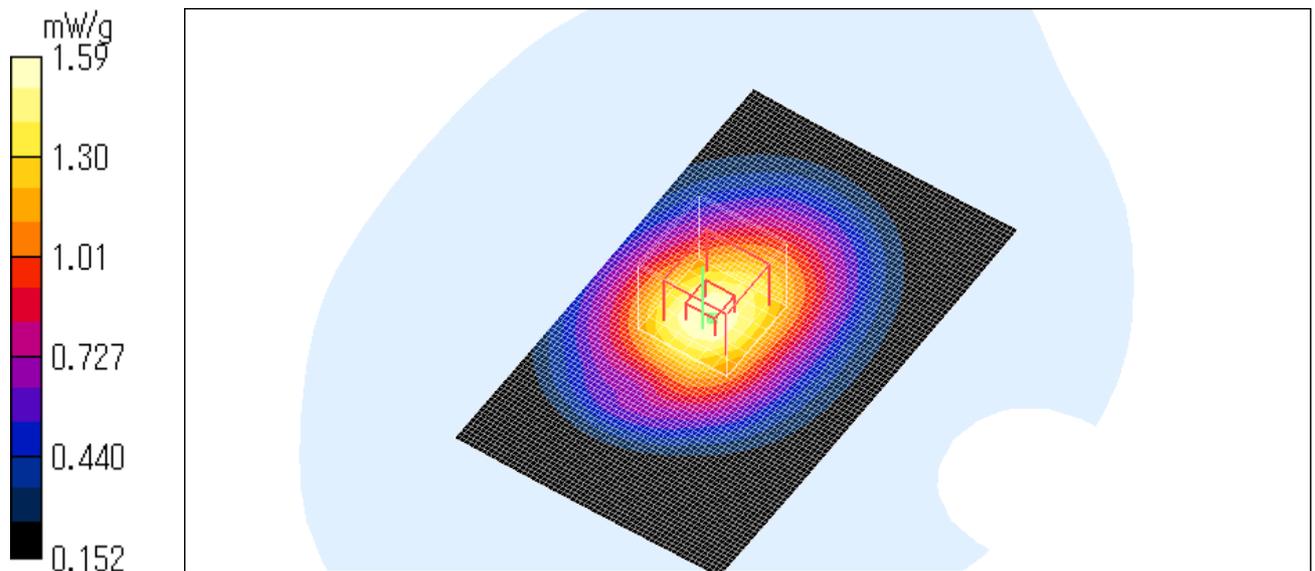
SAR(1 g) = 1.35 mW/g; SAR(10 g) = 0.979 mW/g

Maximum value of SAR (measured) = 1.59 mW/g

Test Date = 03/05/08

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 21.4 degree.C , After 21.4 degree.C



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Z-axis scan at max SAR location

PV210/ Body/ Back/ EGPRS(GMSK)/ 251ch(848.8MHz)

Crest factor: 4.2

Medium: M900 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

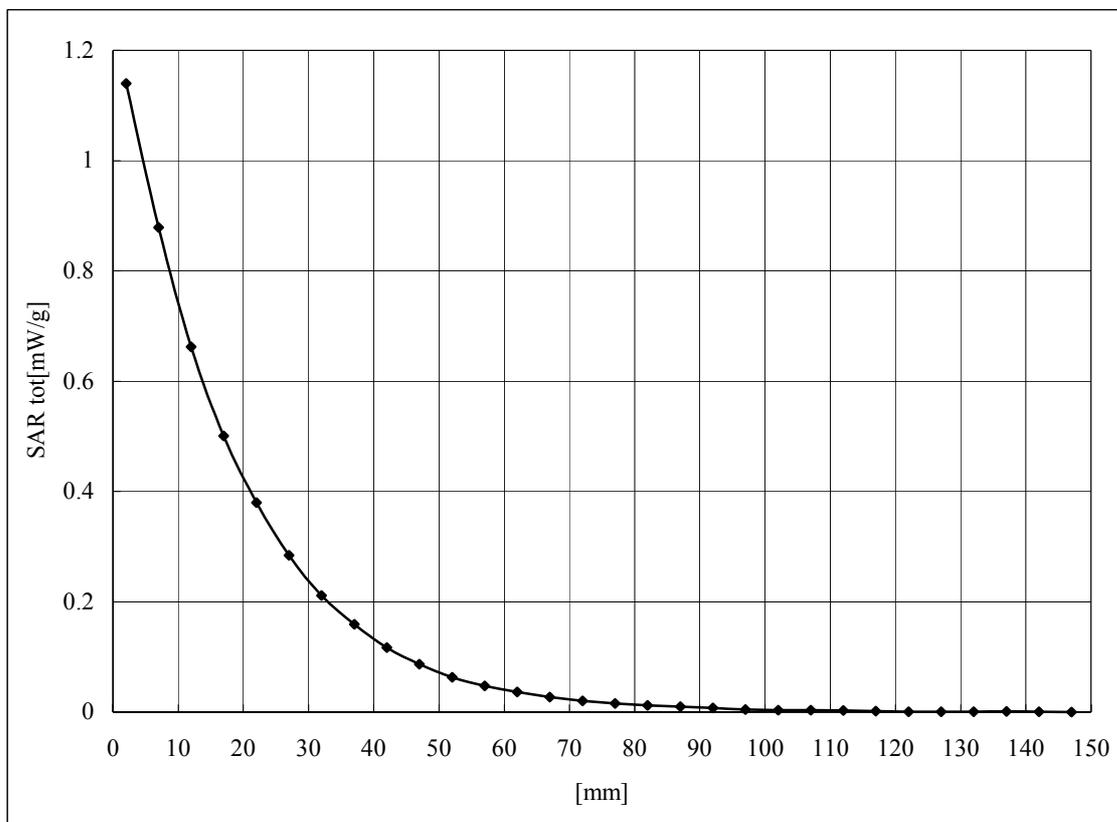
DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.43, 10.43, 10.43); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176



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3. Measurement data (PCS 1900)

PV210 / Head / Left cheek / GSM / 661ch(1880.0MHz)

Crest factor: 8.3

Medium: HSL1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.86, 8.86, 8.86); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.659 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.86 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.801 W/kg

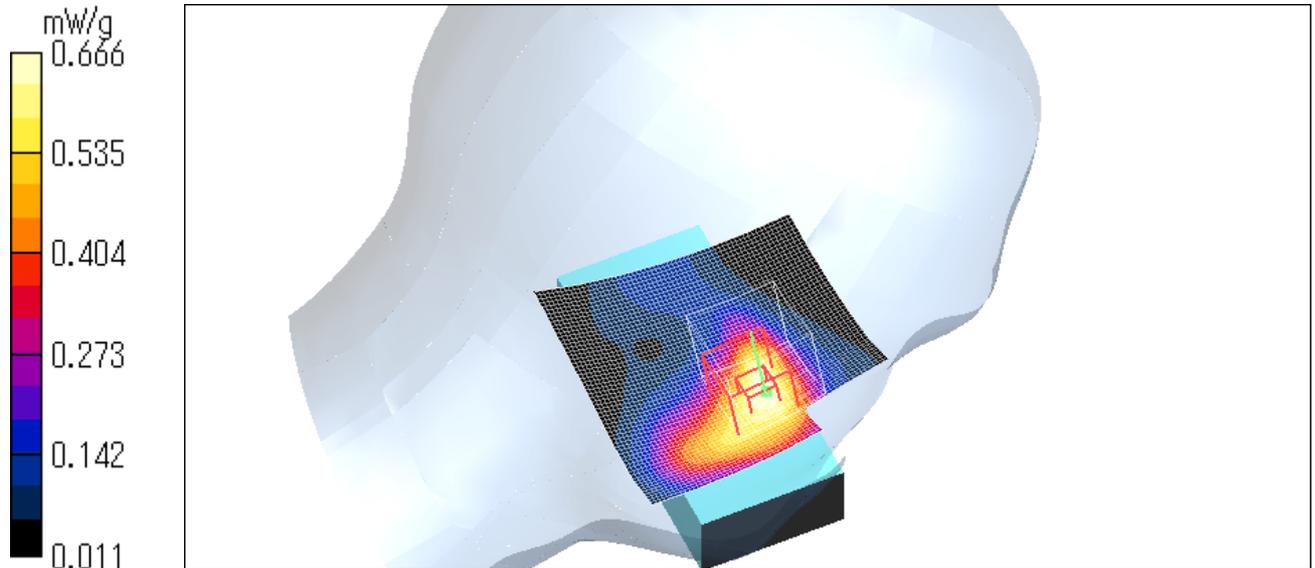
SAR(1 g) = 0.514 mW/g; SAR(10 g) = 0.318 mW/g

Maximum value of SAR (measured) = 0.666 mW/g

Test Date = 03/07/08

Ambient Temperature = 23.1 degree.c

Liquid Temperature = Before 22.0 degree.C , After 22.0 degree.C



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PV210 / Head / Left tilt / GSM / 661ch(1880.0MHz)

Crest factor: 8.3

Medium: HSL1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.86, 8.86, 8.86); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.242 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.0 V/m; Power Drift = 0.144 dB

Peak SAR (extrapolated) = 0.300 W/kg

SAR(1 g) = 0.183 mW/g; SAR(10 g) = 0.100 mW/g

Maximum value of SAR (measured) = 0.244 mW/g

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.0 V/m; Power Drift = 0.144 dB

Peak SAR (extrapolated) = 0.178 W/kg

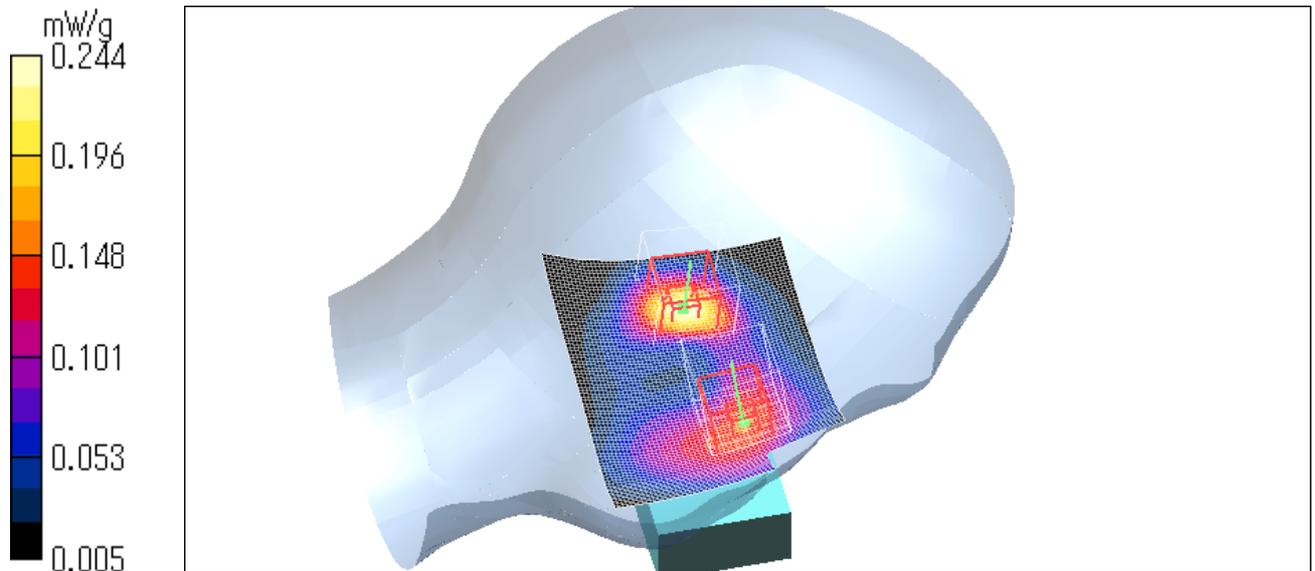
SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.078 mW/g

Maximum value of SAR (measured) = 0.151 mW/g

Test Date = 03/07/08

Ambient Temperature = 23.1degree.c

Liquid Temperature = Before 22.0 degree.C , After 22.0 degree.C



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PV210 / Head / Right cheek / GSM / 661ch(1880.0MHz)

Crest factor: 8.3

Medium: HSL1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.86, 8.86, 8.86); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.989 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.34 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 1.29 W/kg

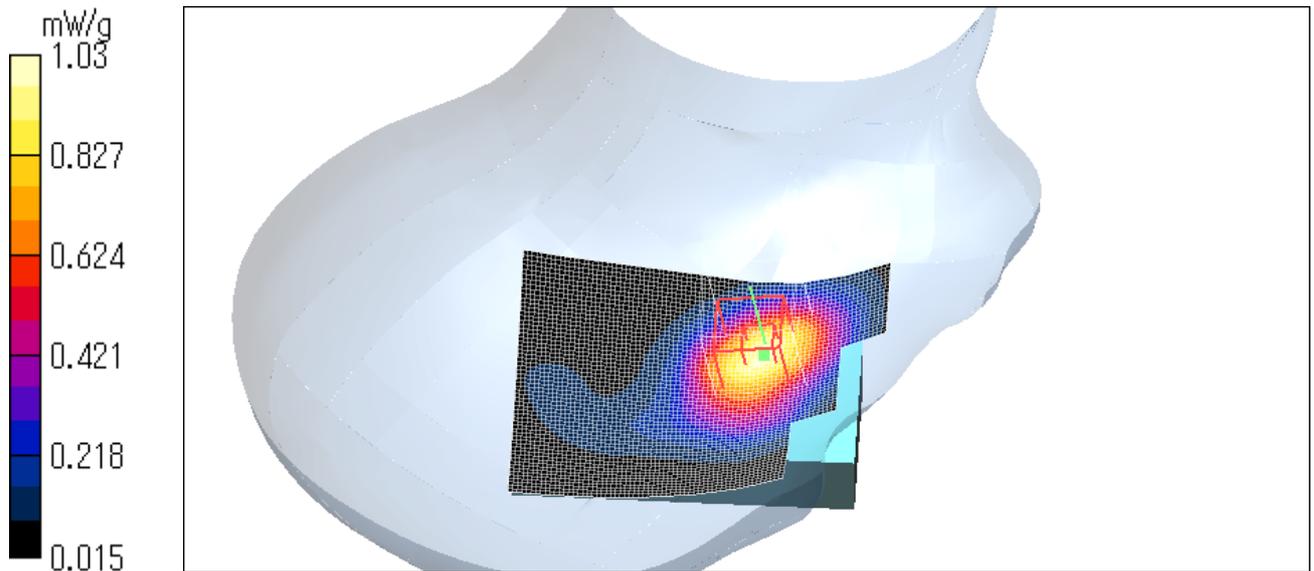
SAR(1 g) = 0.781 mW/g; SAR(10 g) = 0.461 mW/g

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

Test Date = 03/07/08

Ambient Temperature = 23.1degree.c

Liquid Temperature = Before 22.2 degree.C , After 22.2 degree.C



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PV210 / Head / Right tilt / GSM / 661ch(1880.0MHz)

Crest factor: 8.3

Medium: HSL1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.86, 8.86, 8.86); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.290 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.24 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 0.337 W/kg

SAR(1 g) = 0.227 mW/g; SAR(10 g) = 0.143 mW/g

Maximum value of SAR (measured) = 0.290 mW/g

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.24 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 0.290 W/kg

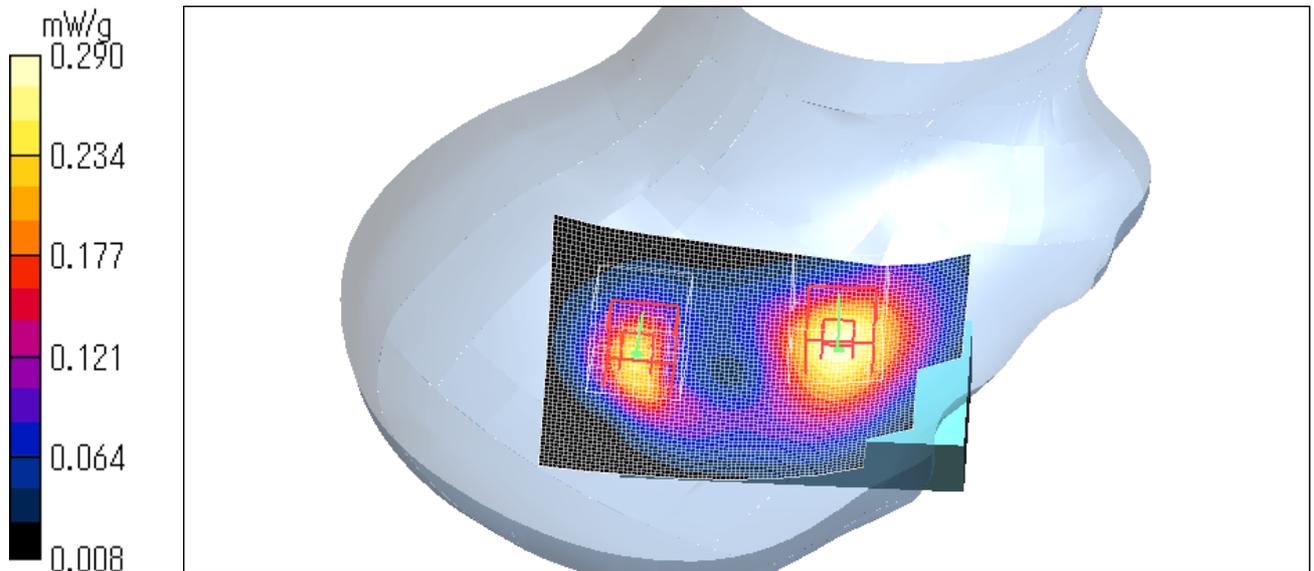
SAR(1 g) = 0.177 mW/g; SAR(10 g) = 0.099 mW/g

Maximum value of SAR (measured) = 0.238 mW/g

Test Date = 03/07/08

Ambient Temperature = 23.1degree.c

Liquid Temperature = Before 22.2 degree.C , After 22.2 degree.C



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PV210 / Head / Right cheek / GSM / 512ch(1850.2MHz)

Crest factor: 8.3

Medium: HSL1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.86, 8.86, 8.86); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.1 V/m; Power Drift = 0.167 dB

Peak SAR (extrapolated) = 1.35 W/kg

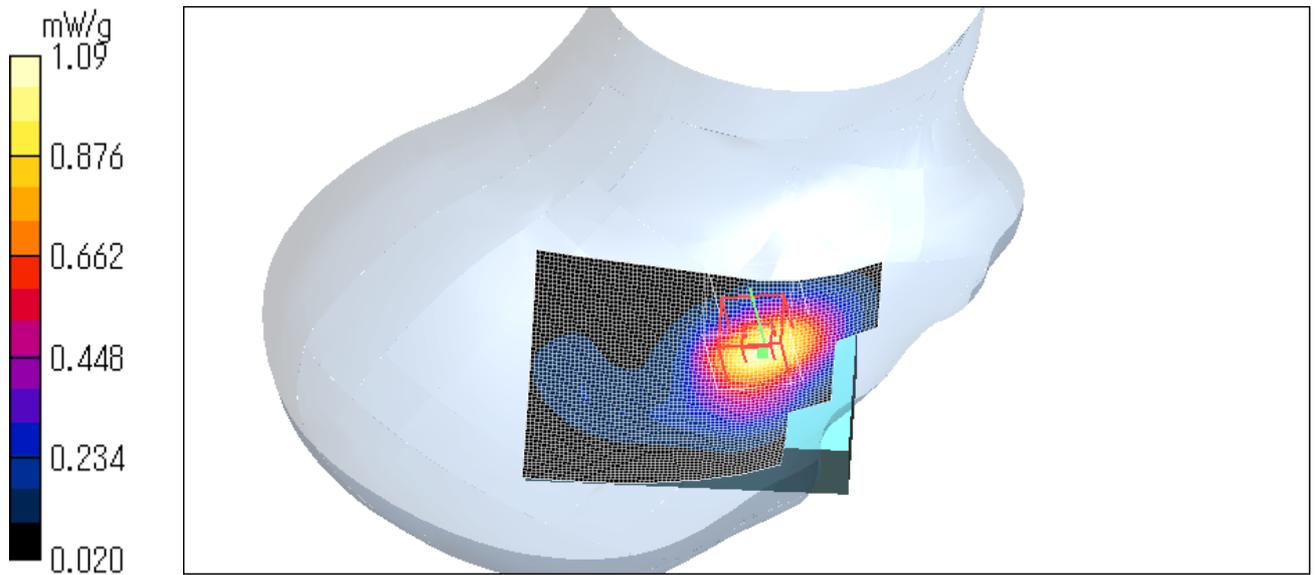
SAR(1 g) = 0.813 mW/g; SAR(10 g) = 0.473 mW/g

Maximum value of SAR (measured) = 1.09 mW/g

Test Date = 03/07/08

Ambient Temperature = 23.1degree.c

Liquid Temperature = Before 22.1 degree.C , After 22.1 degree.C



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PV210 / Head / Right cheek / GSM / 810ch(1909.8MHz)

Crest factor: 8.3

Medium: HSL1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.86, 8.86, 8.86); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.848 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.63 V/m; Power Drift = 0.144 dB

Peak SAR (extrapolated) = 1.06 W/kg

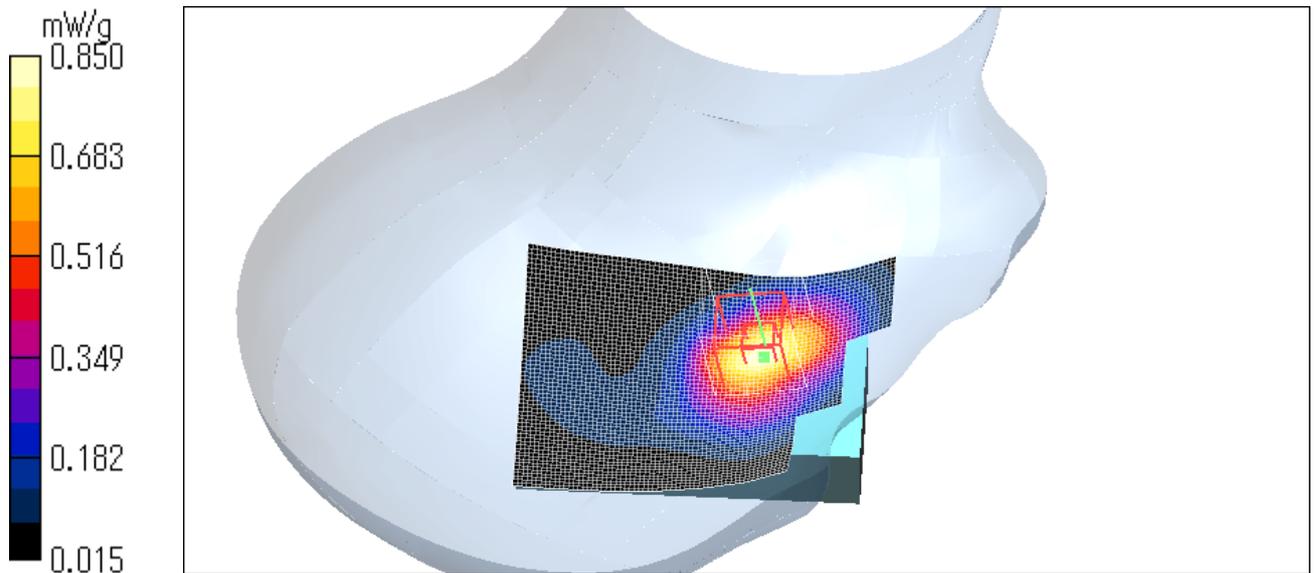
SAR(1 g) = 0.651 mW/g; SAR(10 g) = 0.380 mW/g

Maximum value of SAR (measured) = 0.850 mW/g

Test Date = 03/07/08

Ambient Temperature = 23.1degree.c

Liquid Temperature = Before 22.1 degree.C , After 22.1 degree.C



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Z-axis scan at max SAR location

PV210 / Head / Right cheek / GAM / 810ch(1909.8MHz)

Crest factor: 8.3

Medium: HSL1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

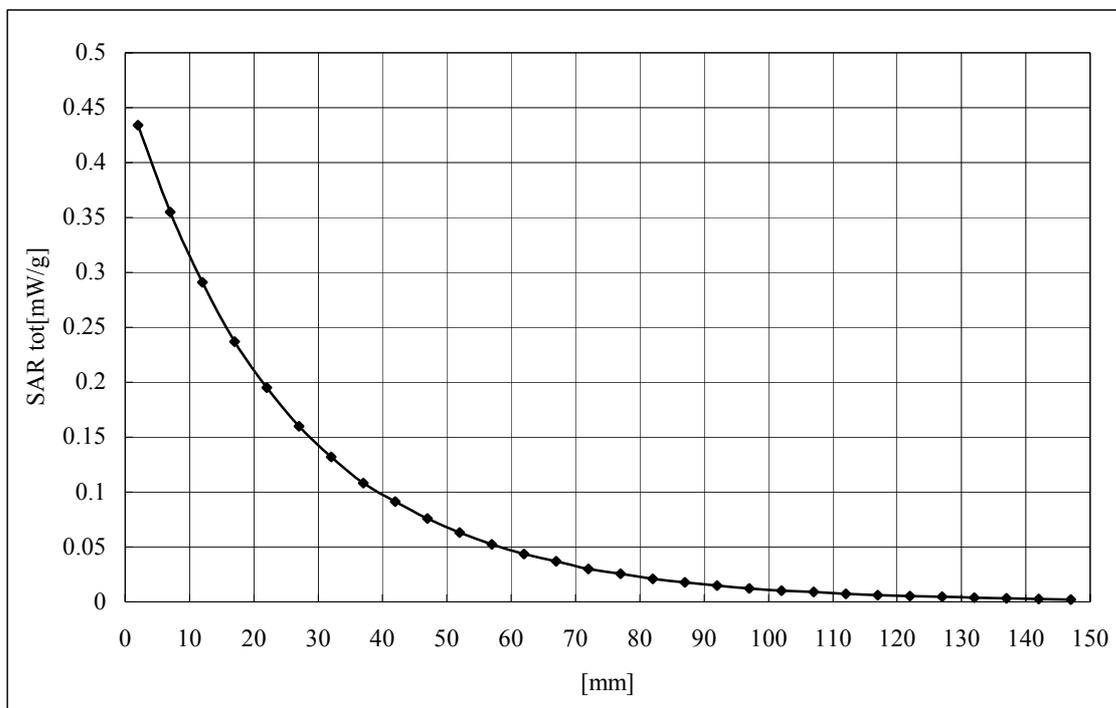
DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.86, 8.86, 8.86); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176



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PV210 / Body / Front/ GSM / 661ch(1880.0MHz)

Crest factor: 8.3

Medium: M1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.82, 8.82, 8.82); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 8.42 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.301 W/kg

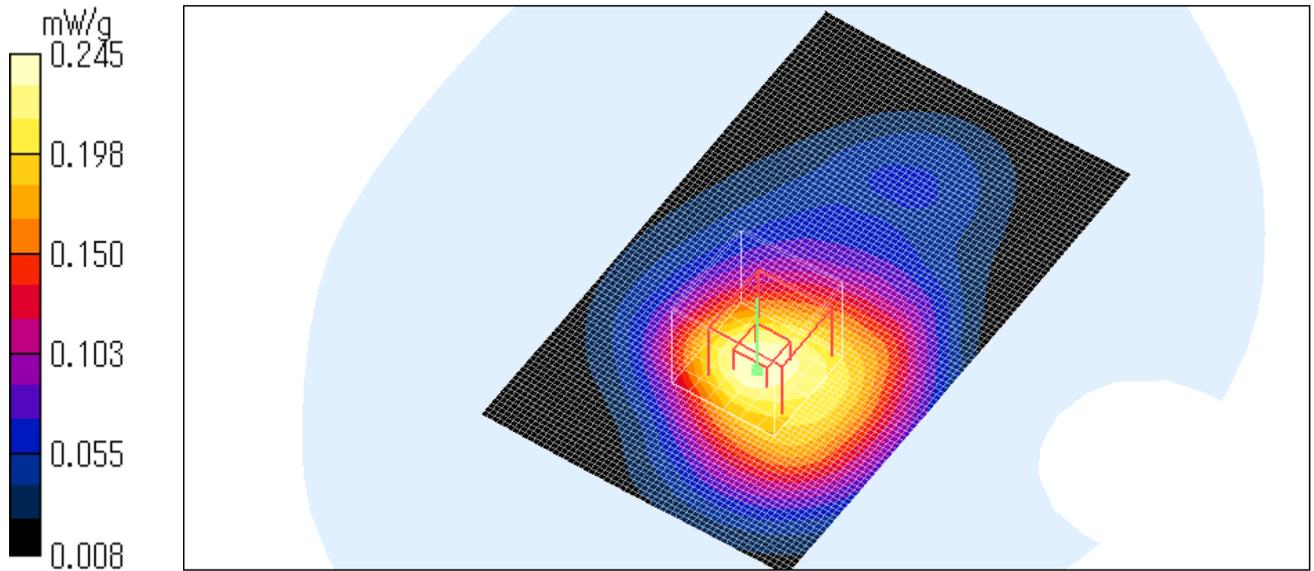
SAR(1 g) = 0.188 mW/g; SAR(10 g) = 0.118 mW/g

Maximum value of SAR (measured) = 0.245 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.7degree.c

Liquid Temperature = Before 22.3 degree.C , After 22.3 degree.C



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PV210 / Body / Back/ GSM / 661ch(1880.0MHz)

Crest factor: 8.3

Medium: M1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.82, 8.82, 8.82); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.401 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 7.64 V/m; Power Drift = -0.139 dB

Peak SAR (extrapolated) = 0.512 W/kg

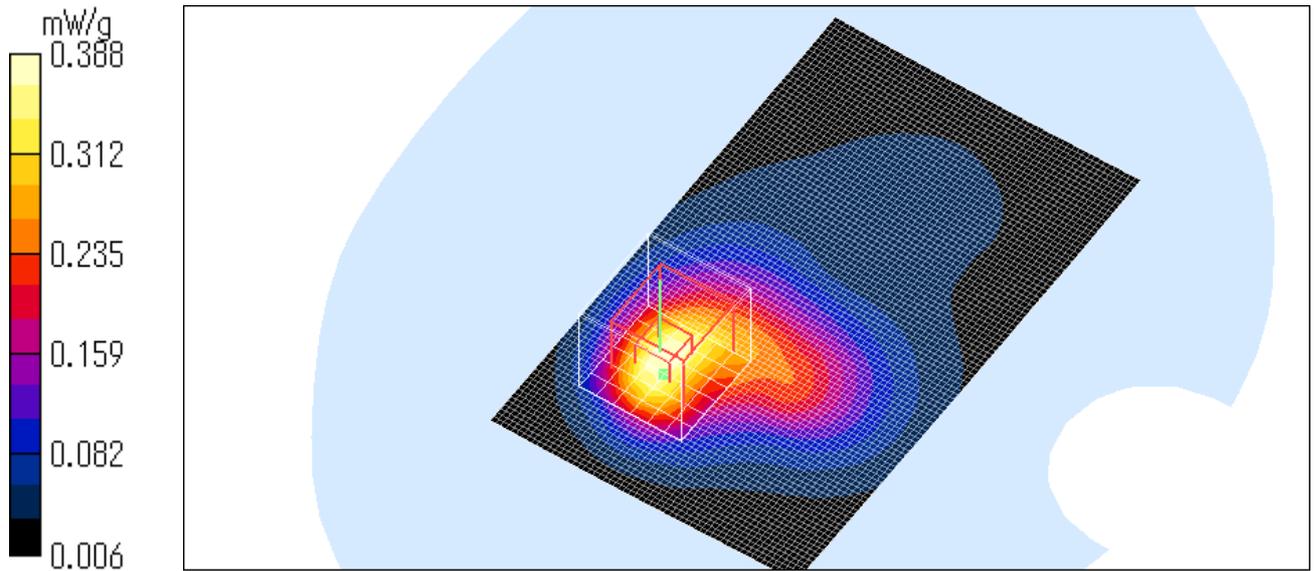
SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.157 mW/g

Maximum value of SAR (measured) = 0.388 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.7degree.c

Liquid Temperature = Before 22.3 degree.C , After 22.3 degree.C



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PV210 / Body / Back/ GSM / 512ch(1850.2MHz)

Crest factor: 8.3

Medium: M1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.82, 8.82, 8.82); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.490 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 8.21 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.590 W/kg

SAR(1 g) = 0.328 mW/g; SAR(10 g) = 0.187 mW/g

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

Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 8.21 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.558 W/kg

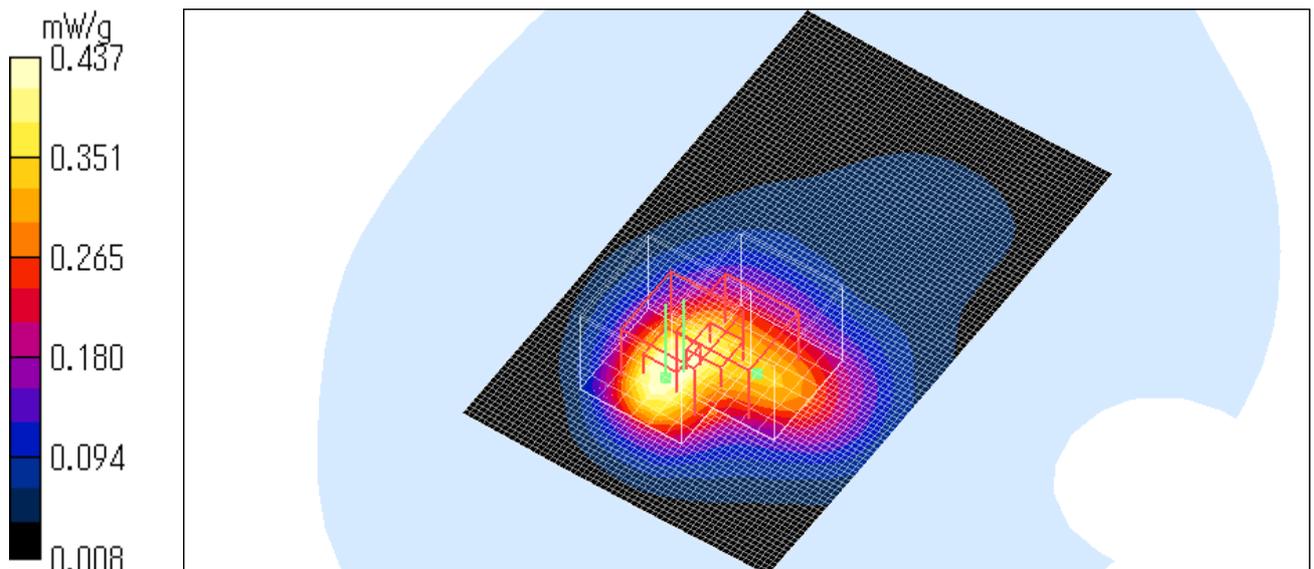
SAR(1 g) = 0.280 mW/g; SAR(10 g) = 0.166 mW/g

Maximum value of SAR (measured) = 0.437 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.7degree.c

Liquid Temperature = Before 22.3 degree.C , After 22.3 degree.C



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PV210 / Body / Back/ GSM / 810ch(1909.8MHz)

Crest factor: 8.3

Medium: M1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.82, 8.82, 8.82); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.336 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.85 V/m; Power Drift = 0.057 dB

Peak SAR (extrapolated) = 0.412 W/kg

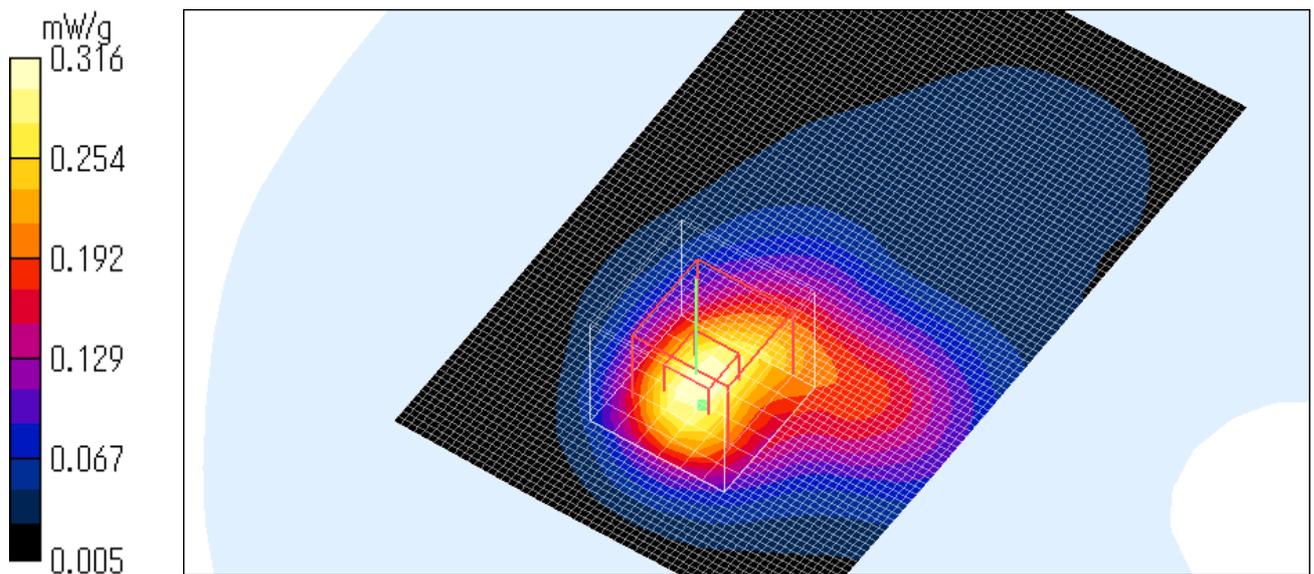
SAR(1 g) = 0.230 mW/g; SAR(10 g) = 0.128 mW/g

Maximum value of SAR (measured) = 0.316 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.7degree.c

Liquid Temperature = Before 22.3 degree.C , After 22.3 degree.C



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PV210 / Body / Front/ GPRS(GMSK)/ 661ch(1880.0MHz)

Crest factor: 4.2

Medium: M1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.82, 8.82, 8.82); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.442 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 11.5 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.540 W/kg

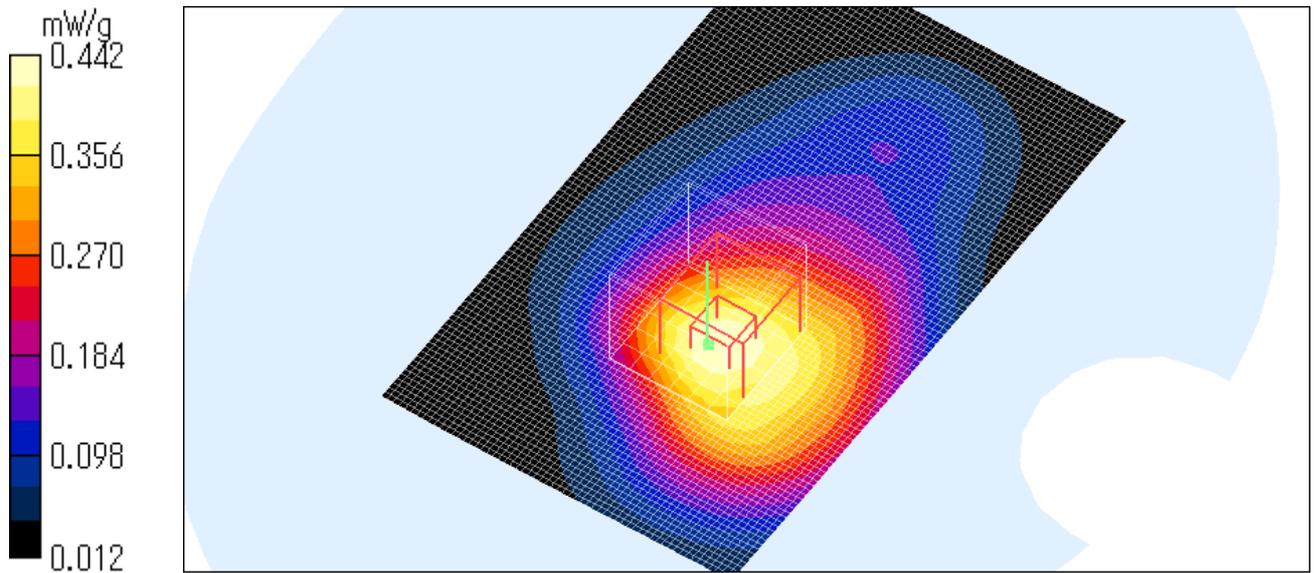
SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.442 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.7degree.c

Liquid Temperature = Before 22.2 degree.C , After 22.2 degree.C



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PV210 / Body / Back/ GPRS(GMSK)/ 661ch(1880.0MHz)

Crest factor: 4.2

Medium: M1800 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.82, 8.82, 8.82); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.802 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.9 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.999 W/kg

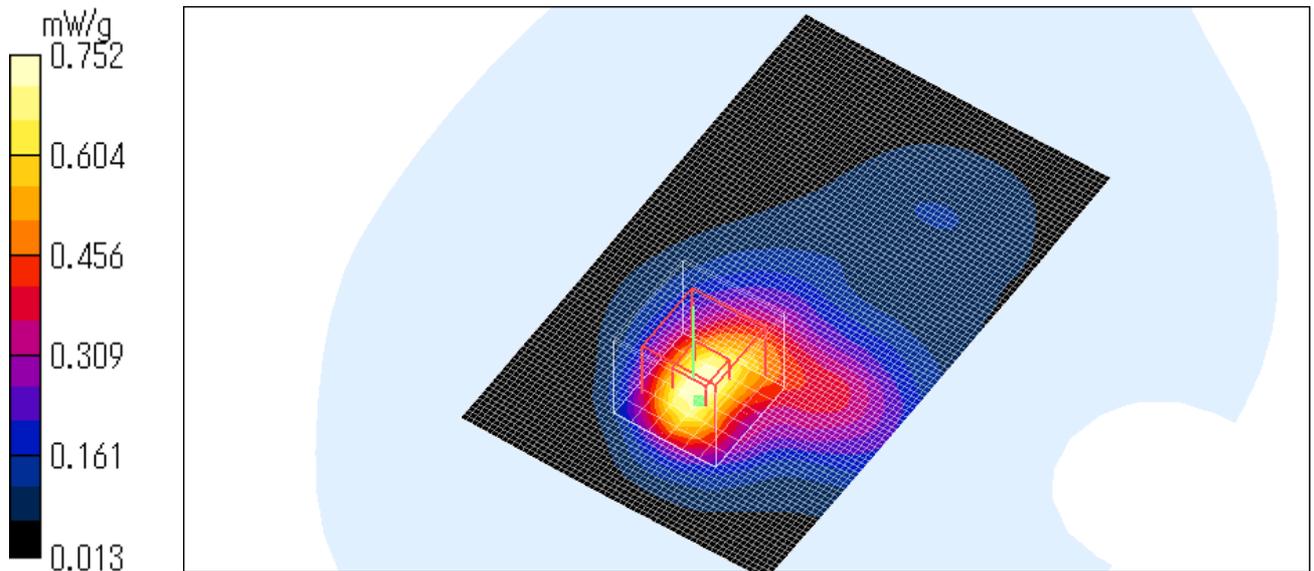
SAR(1 g) = 0.552 mW/g; SAR(10 g) = 0.303 mW/g

Maximum value of SAR (measured) = 0.752 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.7degree.c

Liquid Temperature = Before 22.2 degree.C , After 22.2 degree.C



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PV210 / Body / Back/ GPRS(GMSK)/ 512ch(1850.2MHz)

Crest factor: 4.2

Medium: M1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.82, 8.82, 8.82); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.900 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 12.2 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 1.11 W/kg

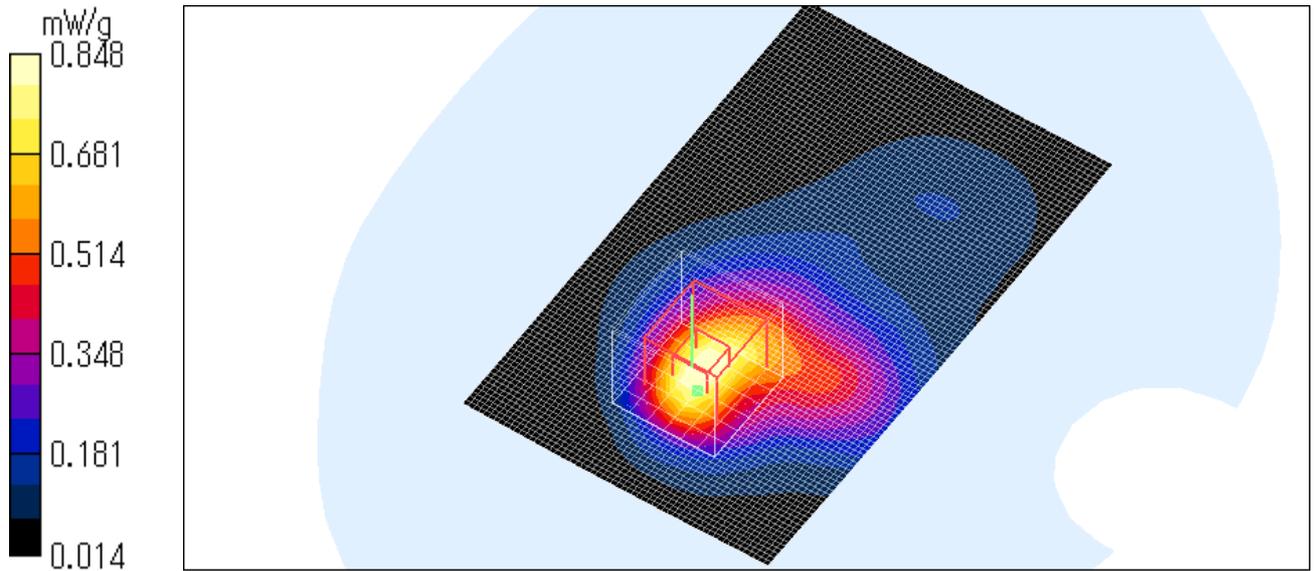
SAR(1 g) = 0.628 mW/g; SAR(10 g) = 0.348 mW/g

Maximum value of SAR (measured) = 0.848 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.7degree.c

Liquid Temperature = Before 22.3 degree.C , After 22.3 degree.C



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PV210 / Body / Back/ GPRS(GMSK)/ 810ch(1909.8MHz)

Crest factor: 4.2

Medium: M1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.82, 8.82, 8.82); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.745 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 10.0 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 0.914 W/kg

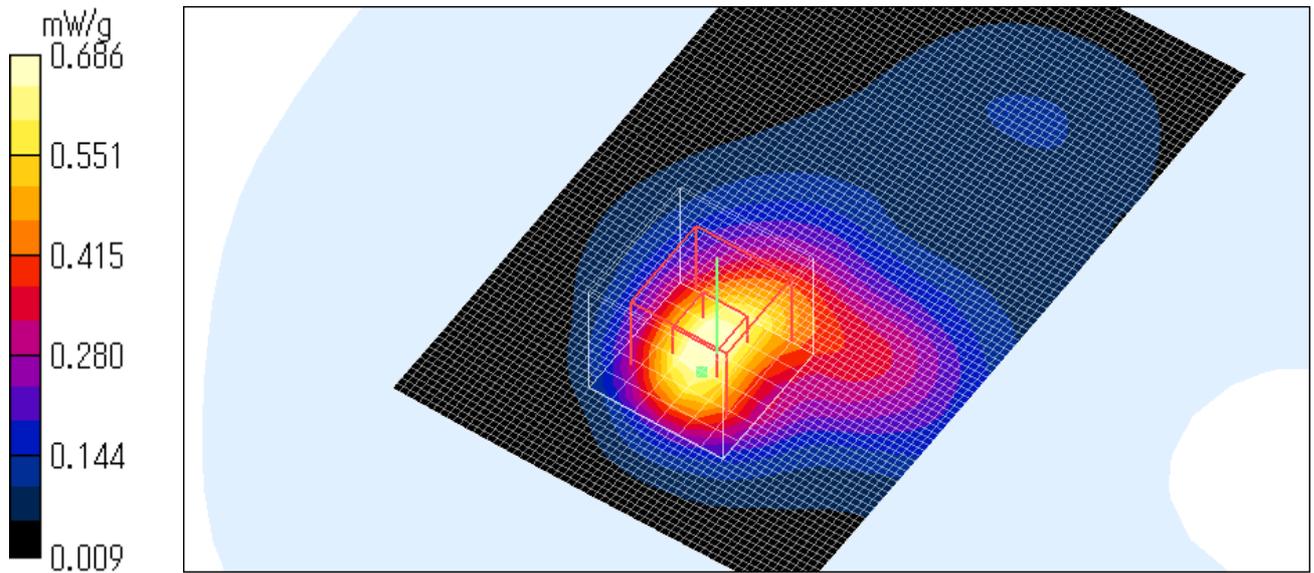
SAR(1 g) = 0.501 mW/g; SAR(10 g) = 0.274 mW/g

Maximum value of SAR (measured) = 0.686 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.7degree.c

Liquid Temperature = Before 22.3 degree.C , After 22.3 degree.C



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PV210 / Body / Back / EGPRS(GMSK)/ 661ch(1880.0MHz)

Crest factor: 4.2

Medium: M1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.82, 8.82, 8.82); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.892 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 11.1 V/m; Power Drift = -0.112 dB

Peak SAR (extrapolated) = 1.11 W/kg

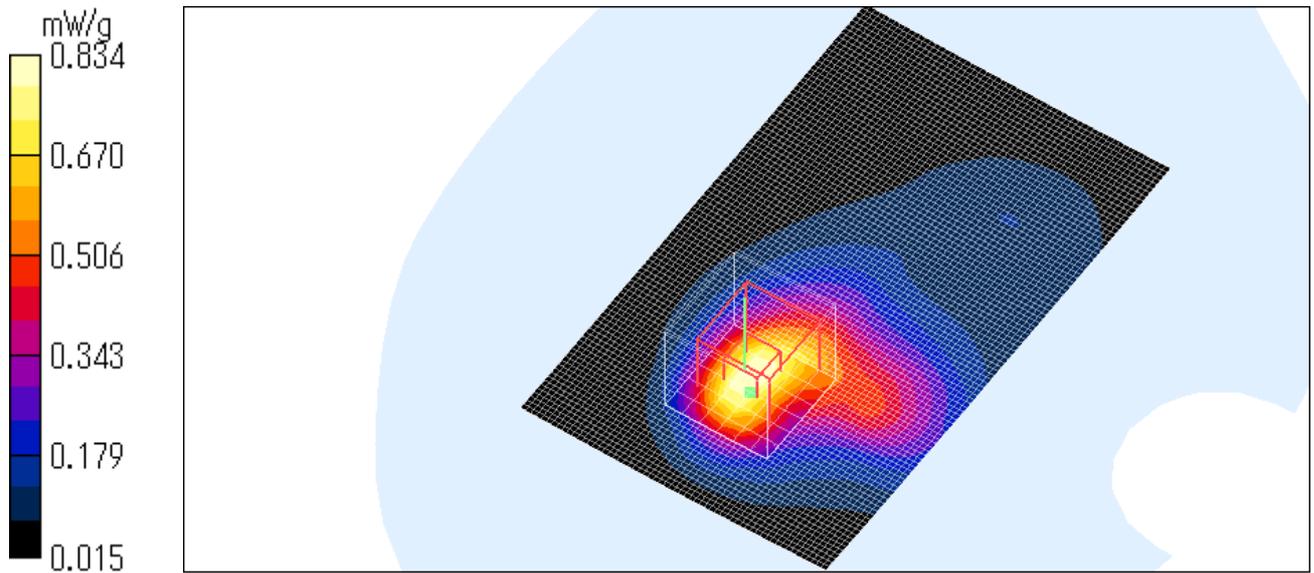
SAR(1 g) = 0.613 mW/g; SAR(10 g) = 0.338 mW/g

Maximum value of SAR (measured) = 0.834 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.7degree.c

Liquid Temperature = Before 22.4 degree.C , After 22.4 degree.C



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PV210 / Body / Back / EGPRS(8PSK)/ 661ch(1880.0MHz)

Crest factor: 4.2

Medium: M1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.82, 8.82, 8.82); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.17 V/m; Power Drift = 0.045 dB

Peak SAR (extrapolated) = 0.346 W/kg

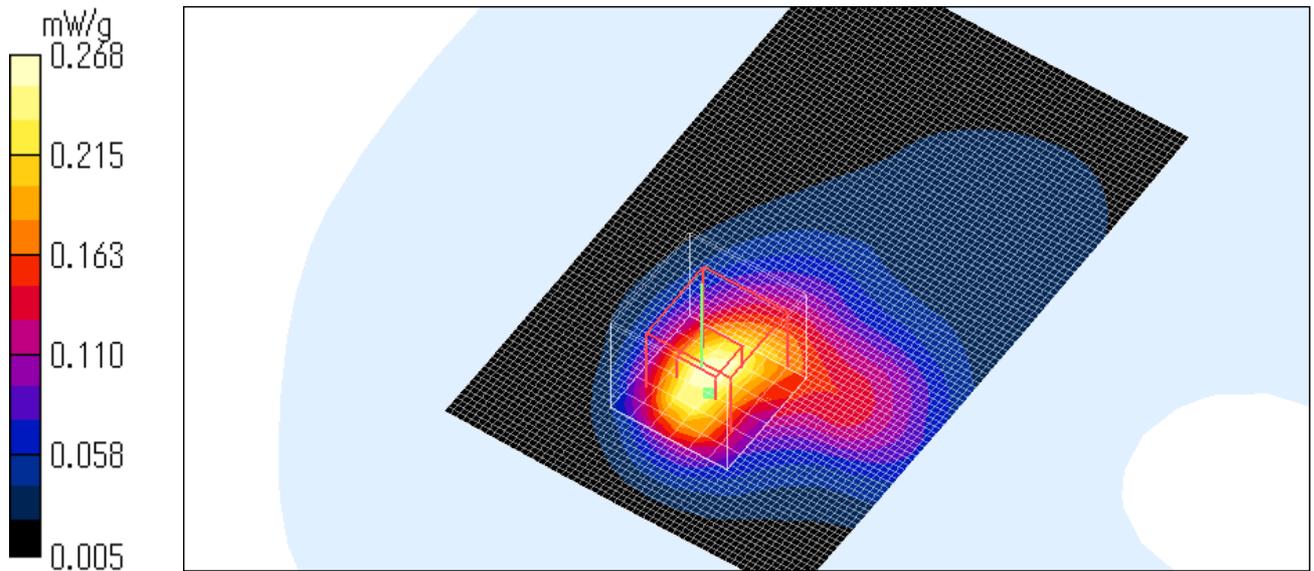
SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.105 mW/g

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

Test Date = 03/06/08

Ambient Temperature = 23.7degree.c

Liquid Temperature = Before 22.4 degree.C , After 22.4 degree.C



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PV210 / Body / Front/ EGPRS(GMSK)/ 661ch(1880.0MHz)

Crest factor: 4.2

Medium: M1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.82, 8.82, 8.82); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.476 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 11.6 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 0.581 W/kg

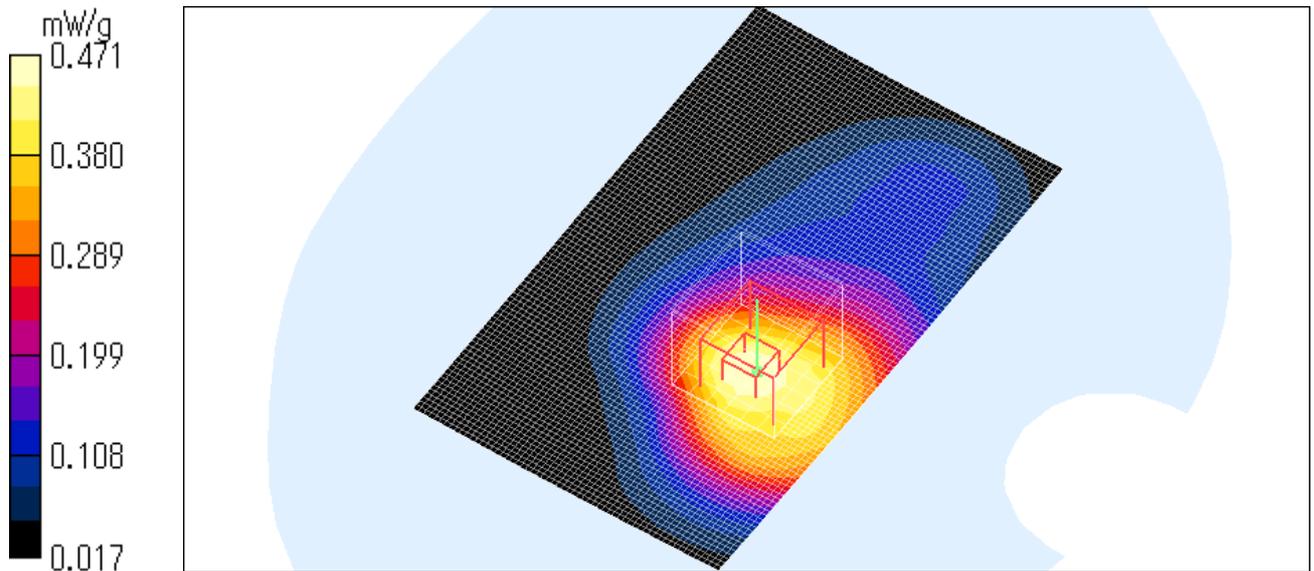
SAR(1 g) = 0.362 mW/g; SAR(10 g) = 0.229 mW/g

Maximum value of SAR (measured) = 0.471 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.7degree.c

Liquid Temperature = Before 22.3 degree.C , After 22.3 degree.C



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PV210 / Body / Back / EGPRS(GMSK)/ 512ch(1850.2MHz)

Crest factor: 4.2

Medium: M1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.82, 8.82, 8.82); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.967 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 12.1 V/m; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 1.22 W/kg

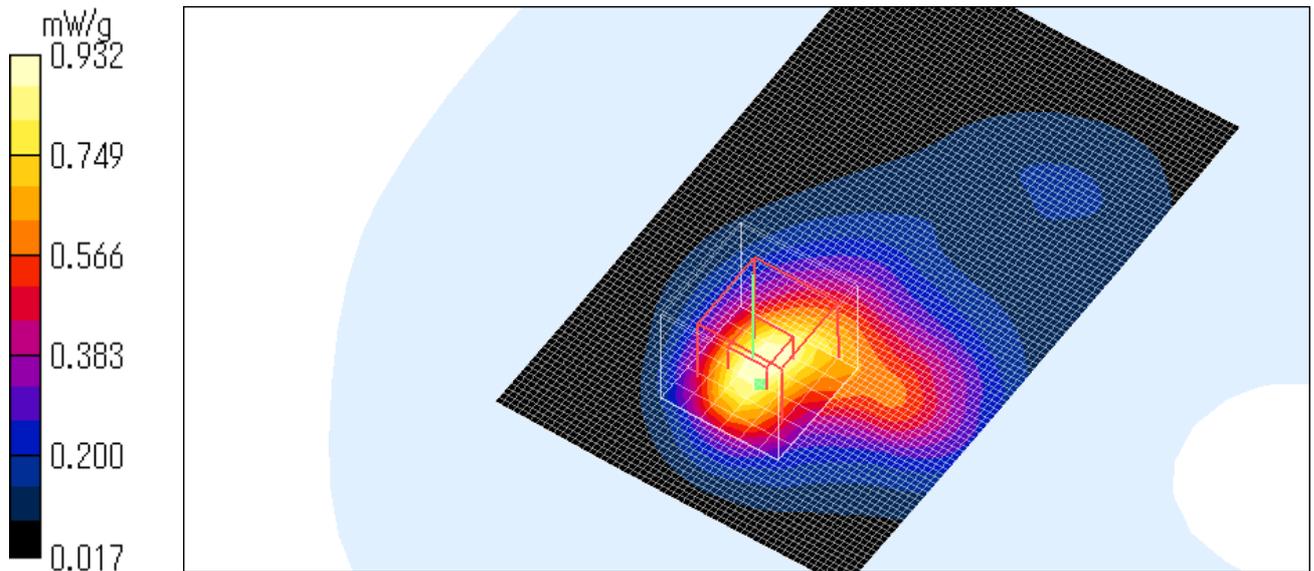
SAR(1 g) = 0.684 mW/g; SAR(10 g) = 0.382 mW/g

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

Test Date = 03/06/08

Ambient Temperature = 23.7degree.c

Liquid Temperature = Before 22.3 degree.C , After 22.3 degree.C



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PV210 / Body / Back / EGPRS(GMSK)/ 810ch(1909.8MHz)

Crest factor: 4.2

Medium: M1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.82, 8.82, 8.82); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.835 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 10.1 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 1.03 W/kg

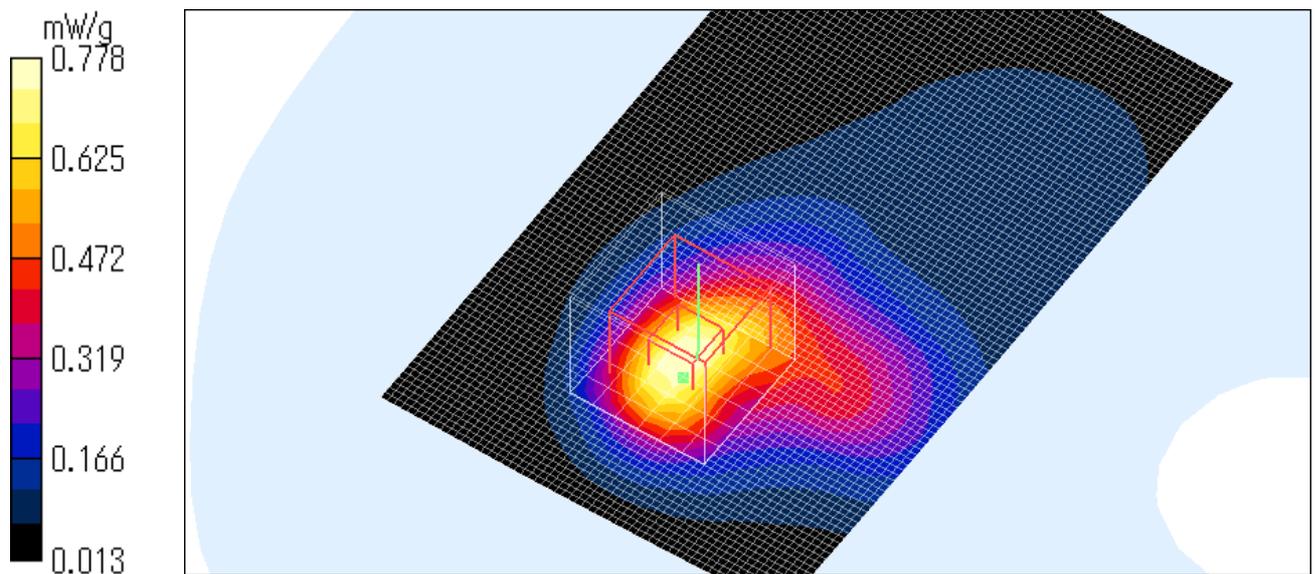
SAR(1 g) = 0.566 mW/g; SAR(10 g) = 0.311 mW/g

Maximum value of SAR (measured) = 0.778 mW/g

Test Date = 03/06/08

Ambient Temperature = 23.7degree.c

Liquid Temperature = Before 22.3 degree.C , After 22.3 degree.C



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4. Reference Data of measurement data (Bluetooth)

PV210 / Body / Back/ Bluetooth / 41ch(2441MHz) / EDR

Duty Cycle: 1:1

Medium: M2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 50.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.9, 7.9, 7.9); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.000 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.487 V/m; Power Drift = -0.188 dB

Peak SAR (extrapolated) = 0.000 W/kg

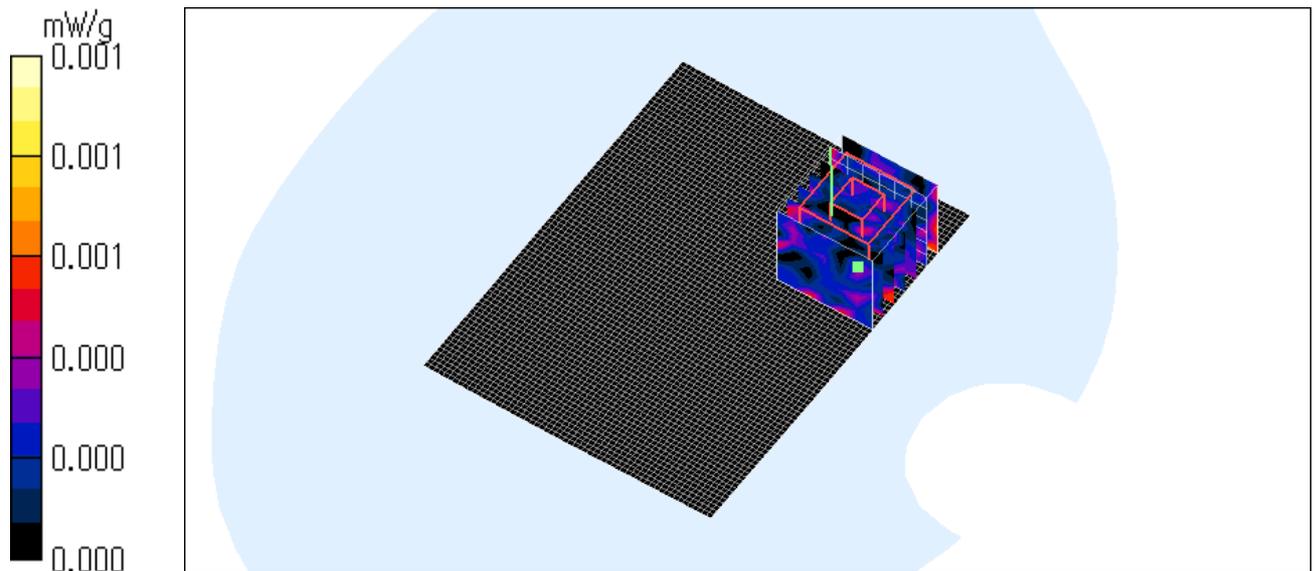
SAR(1 g) = 6.14e-006 mW/g; SAR(10 g) = 6.34e-007 mW/g

Maximum value of SAR (measured) = 0.001 mW/g

Test Date = 03/10/08

Ambient Temperature = 24.5degree.c

Liquid Temperature = Before 24.5 degree.C , After 24.5 degree.C



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PV210 / Body / Back / Bluetooth / 41ch(2441MHz) / BDR

Duty Cycle: 1:1

Medium: M2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 50.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.9, 7.9, 7.9); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.001 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.369 V/m; Power Drift = -0.155 dB

Peak SAR (extrapolated) = 0.001 W/kg

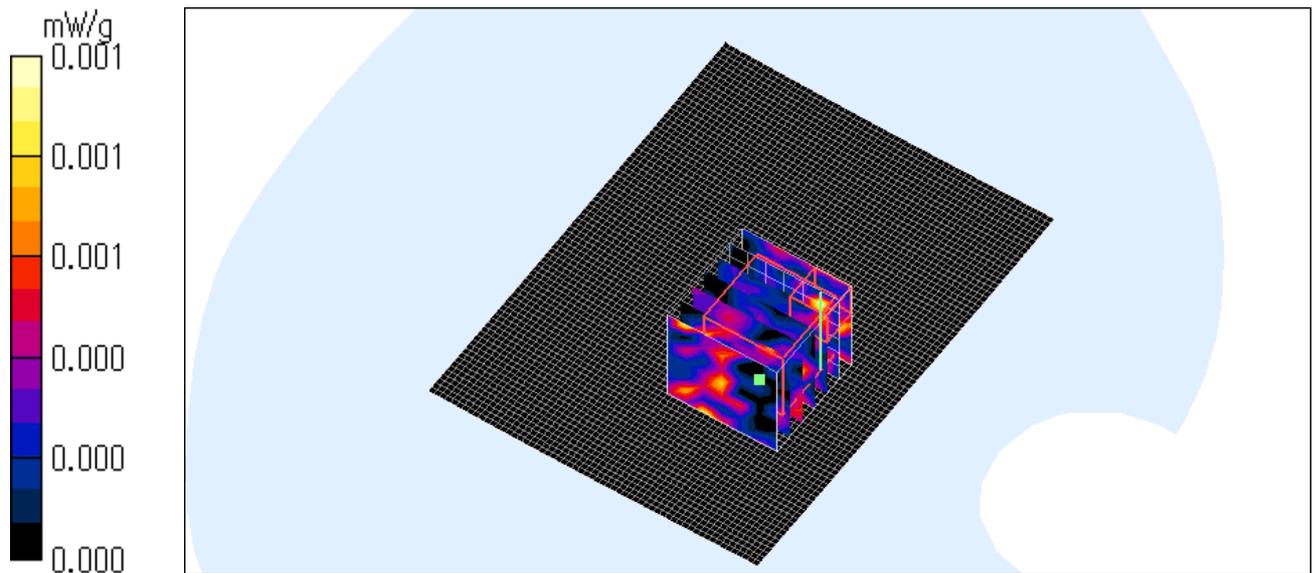
SAR(1 g) = 1.22e-005 mW/g; SAR(10 g) = 1.58e-006 mW/g

Maximum value of SAR (measured) = 0.001 mW/g

Test Date = 03/10/08

Ambient Temperature = 24.5degree.c

Liquid Temperature = Before 24.5 degree.C , After 24.5 degree.C



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PV210 / Body / Front/ Bluetooth / 41ch(2441MHz) / BDR

Duty Cycle: 1:1

Medium: M2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 50.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.9, 7.9, 7.9); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.001 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.742 V/m; Power Drift = -0.123dB

Peak SAR (extrapolated) = 0.000 W/kg

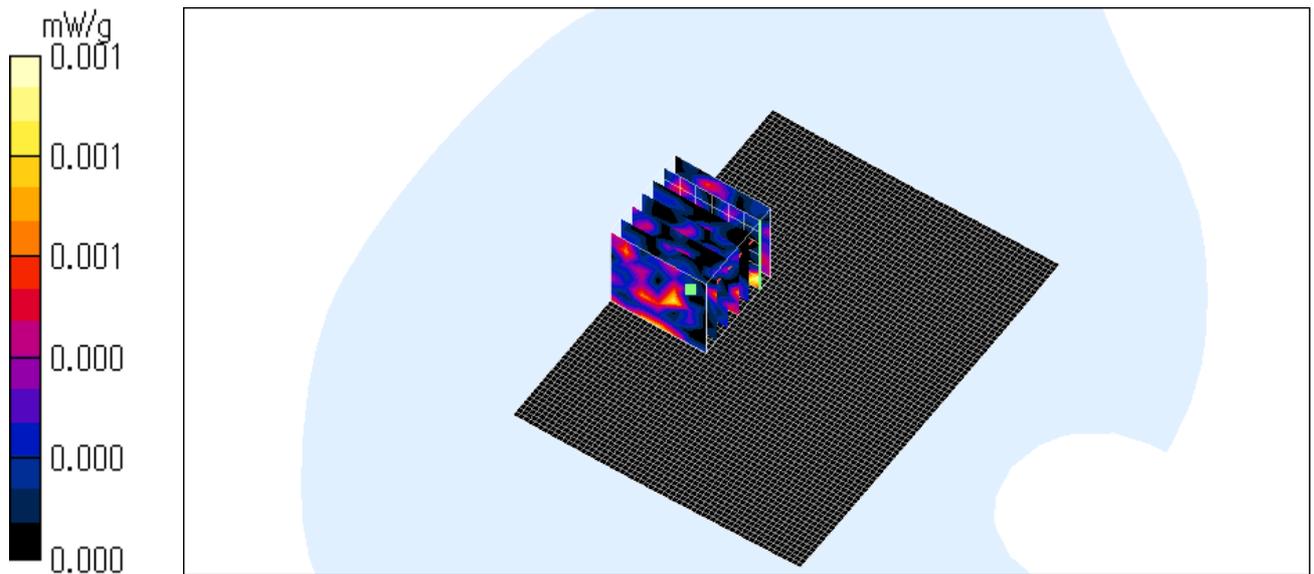
SAR(1 g) = 6.13e-006 mW/g; SAR(10 g) = 6.24e-007 mW/g

Maximum value of SAR (measured) = 0.001 mW/g

Test Date = 03/10/08

Ambient Temperature = 24.5degree.c

Liquid Temperature = Before 24.5 degree.C , After 24.5 degree.C



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PV210 / Body / Front/ Bluetooth / 1ch(2402MHz) / BDR

Duty Cycle: 1:1

Medium: M2450 Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.95 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.9, 7.9, 7.9); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of SAR (interpolated) = 0.000 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.572 V/m; Power Drift = 0.055 dB

Peak SAR (extrapolated) = 0.001 W/kg

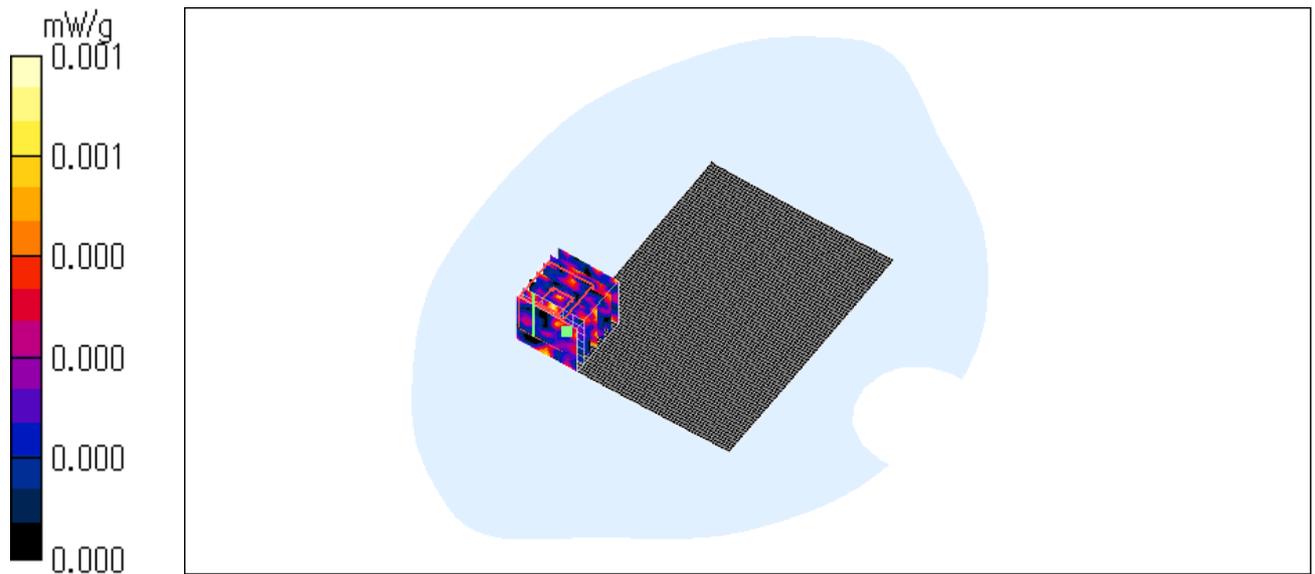
SAR(1 g) = 3.07e-005 mW/g; SAR(10 g) = 4.4e-006 mW/g

Maximum value of SAR (measured) = 0.001 mW/g

Test Date = 03/10/08

Ambient Temperature = 24.5degree.c

Liquid Temperature = Before 24.5 degree.C , After 24.5 degree.C



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PV210 / Body / Front/ Bluetooth / 79ch(2480MHz) / BDR

Duty Cycle: 1:1

Medium: M2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 50.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.9, 7.9, 7.9); Calibrated: 2008/01/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.001 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.354 V/m; Power Drift = 0.126 dB

Peak SAR (extrapolated) = 0.003 W/kg

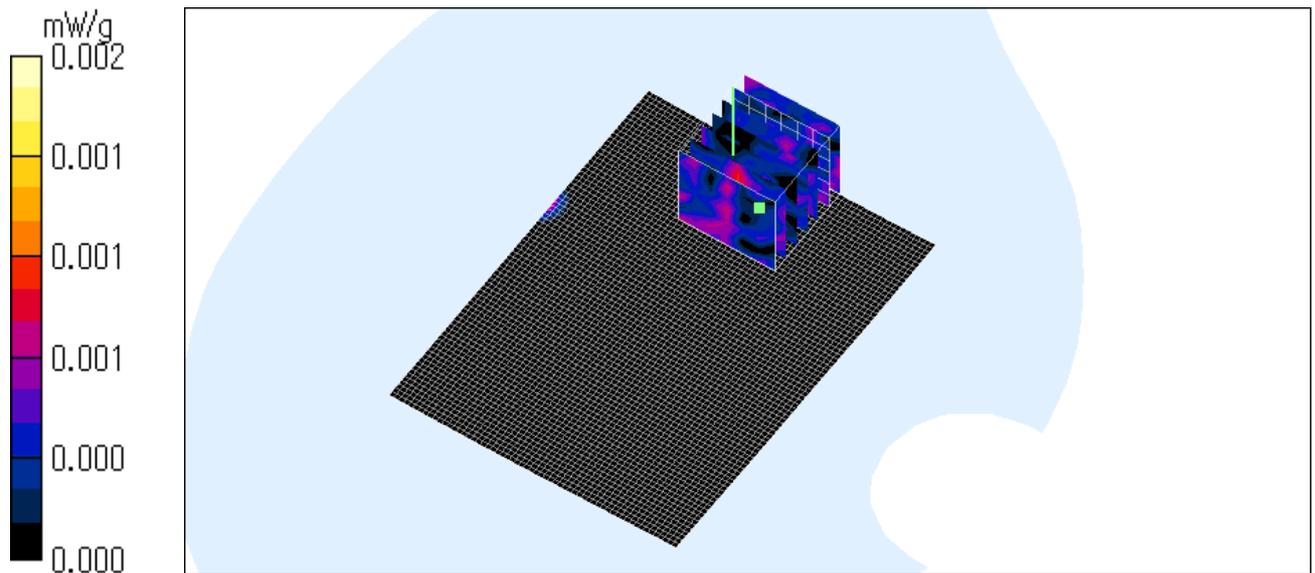
SAR(1 g) = 0.00037 mW/g; SAR(10 g) = 9.22e-005 mW/g

Maximum value of SAR (measured) = 0.002 mW/g

Test Date = 03/10/08

Ambient Temperature = 24.5degree.c

Liquid Temperature = Before 24.5 degree.C , After 24.5 degree.C



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