

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(EX3DV3) / 2.7mm (ET3DV6) 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.

2. Measurement data (HEAD DATA)

i)GSM850

KMP7N4Y1-2A Head Left Touch GSM850 836.6MHz

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 836.6 MHz;Duty Cycle: 1:8.3

Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(6.39, 6.39, 6.39); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASYS2, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Left-Hand-Side HSL/Touch Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.416 mW/g

Left-Hand-Side HSL/Touch Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.279 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.511 W/kg

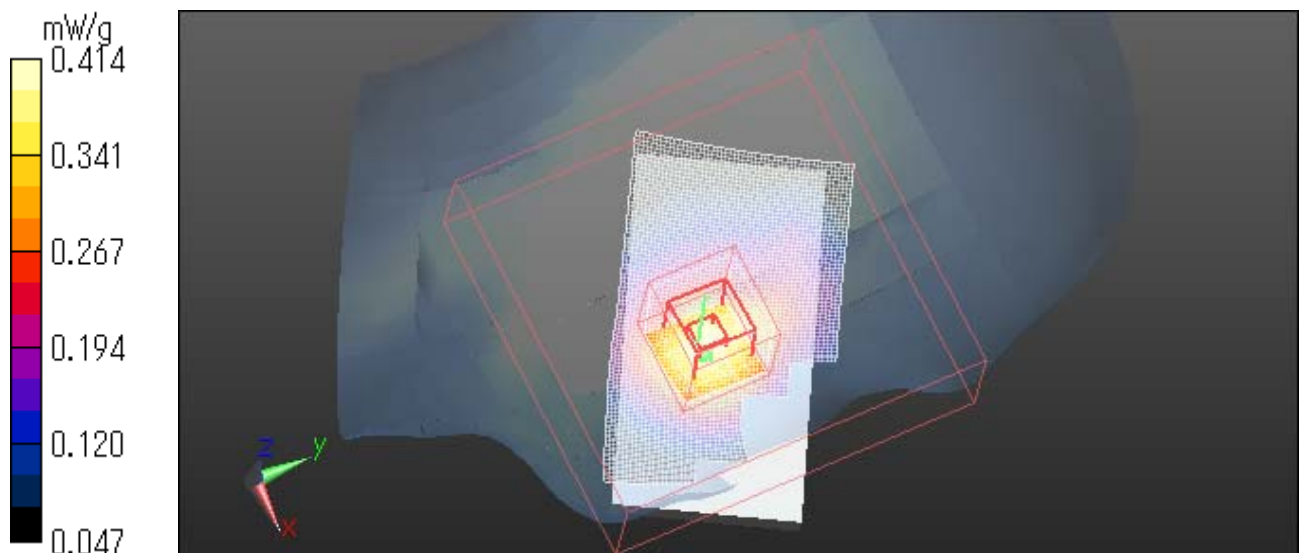
SAR(1 g) = 0.390 mW/g; SAR(10 g) = 0.282 mW/g

Maximum value of SAR (measured) = 0.414 mW/g

Test Date = 01/28/2011

Ambient Temperature = 24.0 degree.c

Liquid Temperature = Before 21.5degree.C , After 21.5 degree.C



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KMP7N4Y1-2A Head Left Tilt GSM850 836.6MHz

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 835\text{MHz}$; $\sigma = 0.88\text{ mho/m}$; $\epsilon_r = 39.7$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(6.39, 6.39, 6.39); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Left-Hand-Side HSL/Tilt Position - Mid/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.257 mW/g

Left-Hand-Side HSL/Tilt Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.784 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.308 W/kg

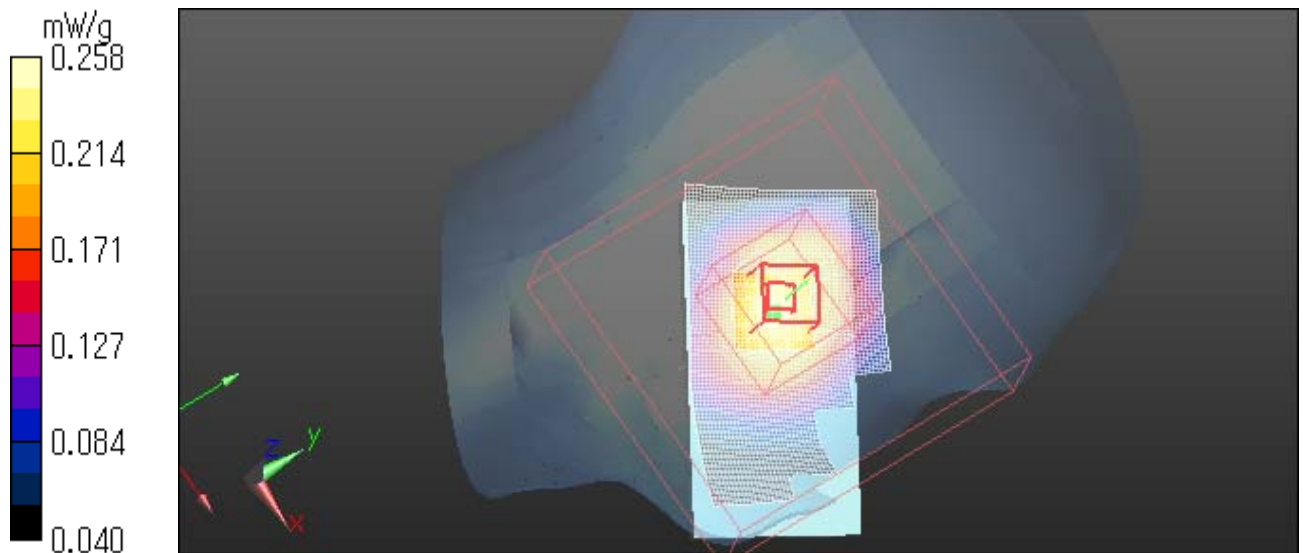
SAR(1 g) = 0.244 mW/g; SAR(10 g) = 0.185 mW/g

Maximum value of SAR (measured) = 0.258 mW/g

Test Date = 01/28/2011

Ambient Temperature = 24.0 degree.c

Liquid Temperature = Before 21.5degree.C , After 21.5 degree.C



KMP7N4Y1-2A Head Right Touch GSM850 836.6MHz

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 835\text{MHz}$; $\sigma = 0.88\text{ mho/m}$; $\epsilon_r = 39.7$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(6.39, 6.39, 6.39); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASYS2, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Touch Position - Mid/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.418 mW/g

Right-Hand-Side HSL/Touch Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.517 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.517 W/kg

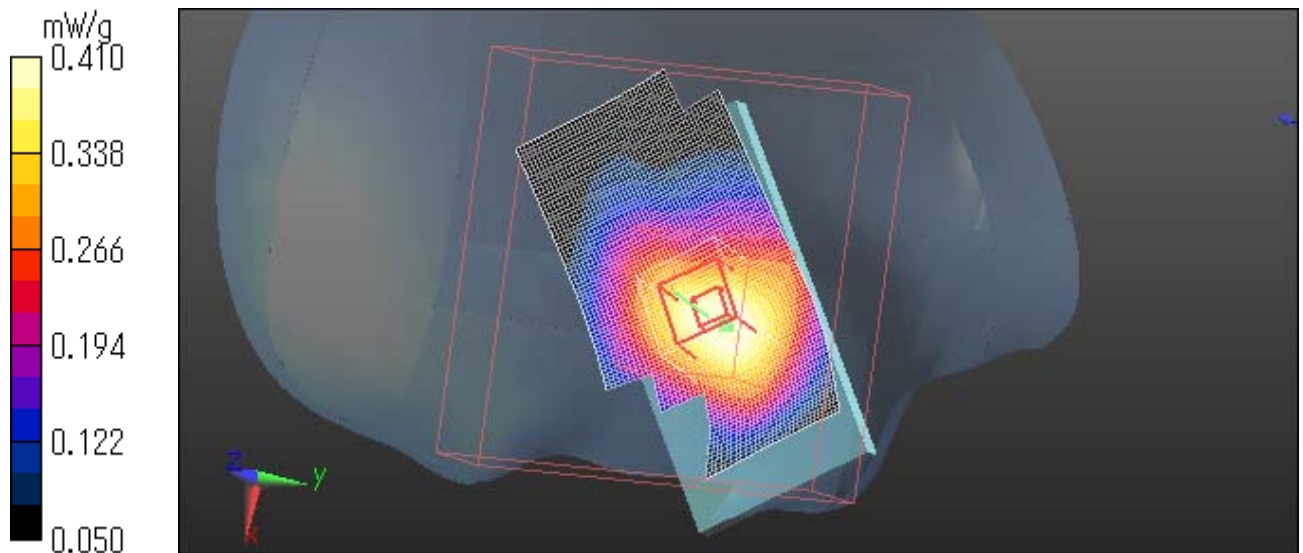
SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.285 mW/g

Maximum value of SAR (measured) = 0.410 mW/g

Test Date = 01/28/2011

Ambient Temperature = 24.0 degree.c

Liquid Temperature = Before 21.5degree.C , After 21.5 degree.C



KMP7N4Y1-2A Head Right Tilt GSM850 836.6MHz

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(6.39, 6.39, 6.39); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Tilt Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.299 mW/g

Right-Hand-Side HSL/Tilt Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.585 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.361 W/kg

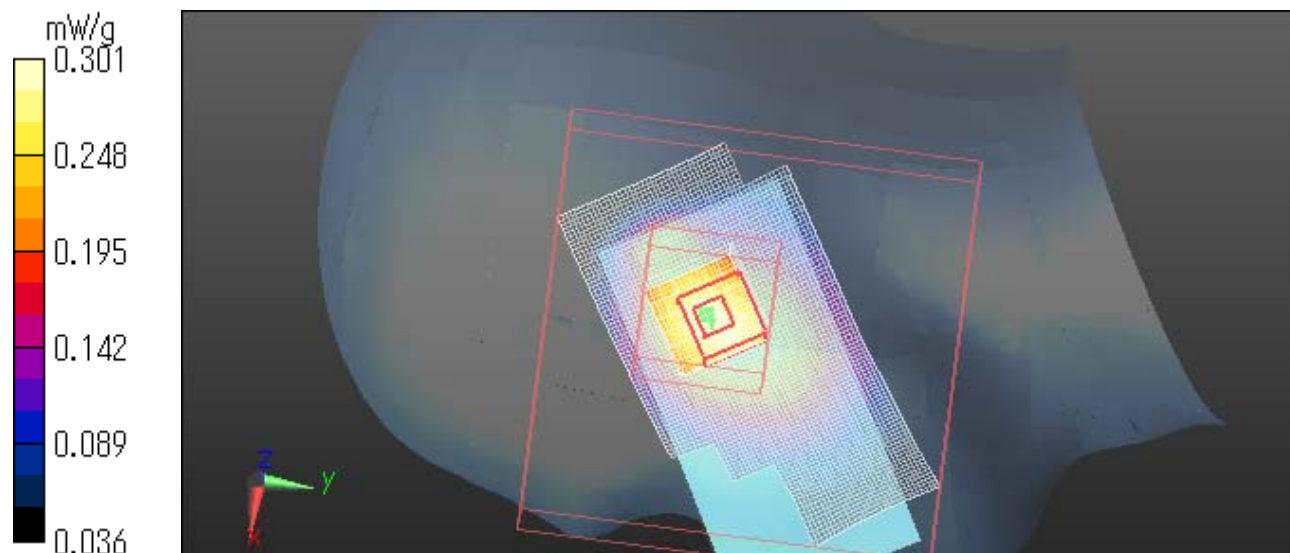
SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.211 mW/g

Maximum value of SAR (measured) = 0.301 mW/g

Test Date = 01/28/2011

Ambient Temperature = 24.0 degree.c

Liquid Temperature = Before 21.5degree.C , After 21.5 degree.C



KMP7N4Y1-2A Head Right Touch GSM850 824.2MHz

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 835\text{MHz}$; $\sigma = 0.88\text{ mho/m}$; $\epsilon_r = 39.7$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(6.39, 6.39, 6.39); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASYS2, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Touch Position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.446 mW/g

Right-Hand-Side HSL/Touch Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.017 V/m ; Power Drift = 0.19dB

Peak SAR (extrapolated) = 0.895 W/kg

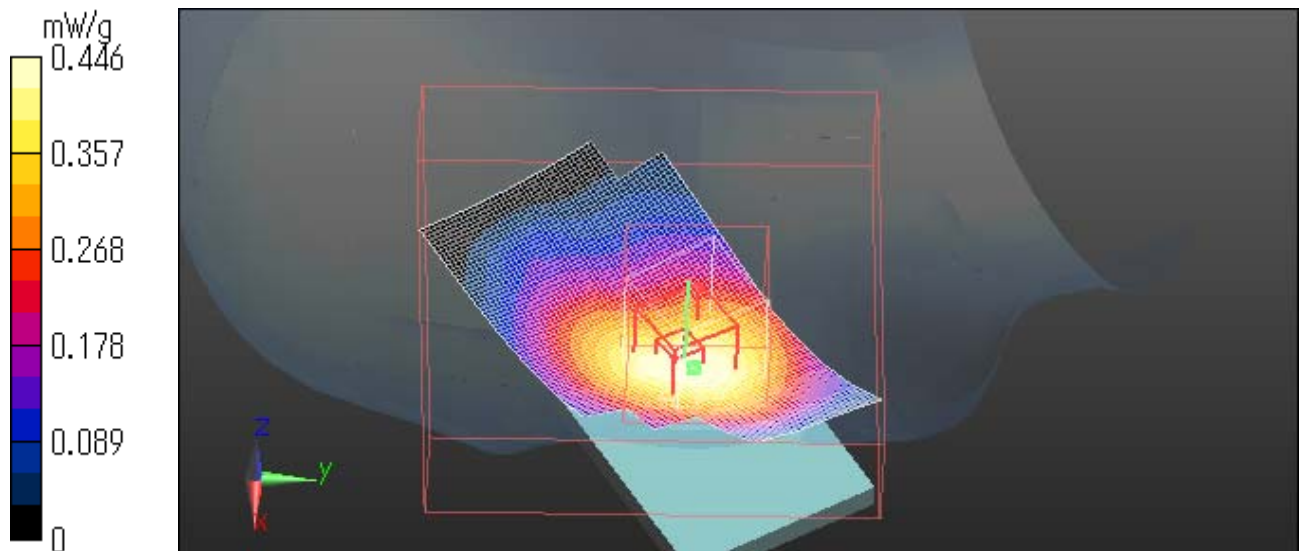
SAR(1 g) = 0.427 mW/g ; SAR(10 g) = 0.314 mW/g

Maximum value of SAR (measured) = 0.447 mW/g

Test Date = 01/28/2011

Ambient Temperature = 24.0 degree.C

Liquid Temperature = Before 21.5 degree.C , After 21.5 degree.C



KMP7N4Y1-2A Head Right Touch GSM850 848.6MHz

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 848.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(6.39, 6.39, 6.39); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASYS2, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Touch Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.504 mW/g

Right-Hand-Side HSL/Touch Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.670 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.630 W/kg

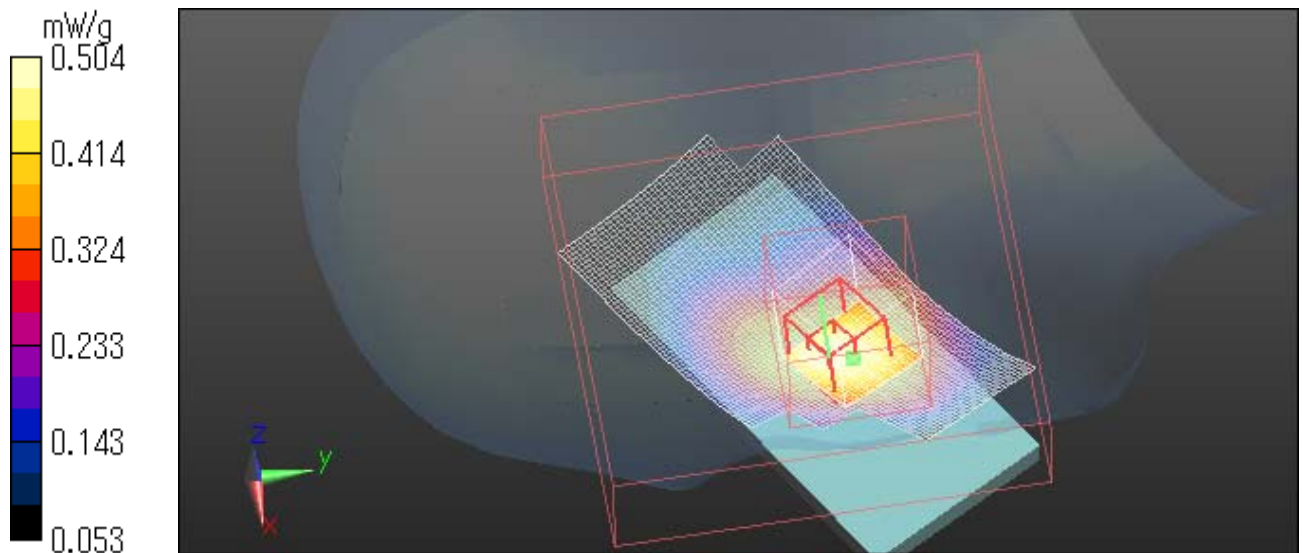
SAR(1 g) = 0.476 mW/g; SAR(10 g) = 0.345 mW/g

Maximum value of SAR (measured) = 0.504 mW/g

Test Date = 01/28/2011

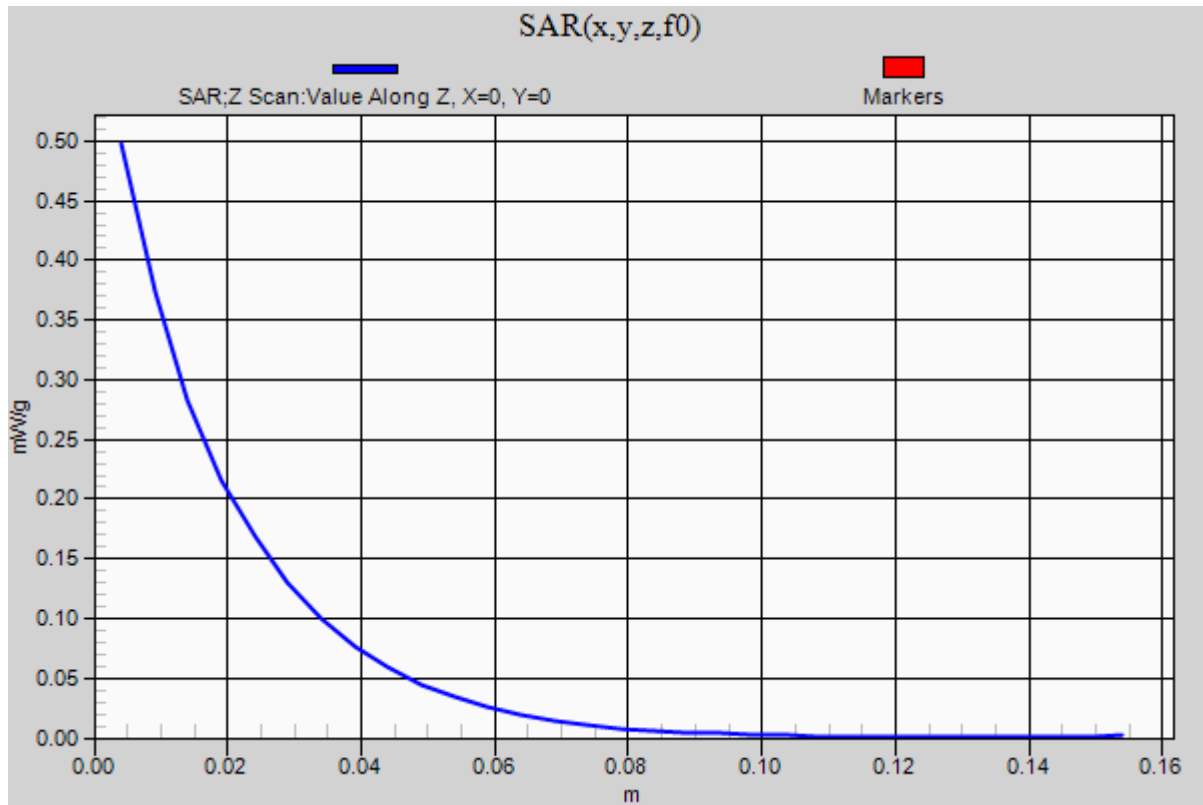
Ambient Temperature = 24.0 degree.c

Liquid Temperature = Before 21.5degree.C , After 21.5 degree.C



Z-axis scan at max SAR location

KMP7N4Y1-2A Head Right Touch GSM850 848.6MHz



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ii)PCS1900

KMP7N4Y1-2A Head Left Touch PCS1900 1880MHz

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(5.2, 5.2, 5.2); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Left-Hand-Side HSL/Touch Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.616 mW/g

Left-Hand-Side HSL/Touch Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.059 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.759 W/kg

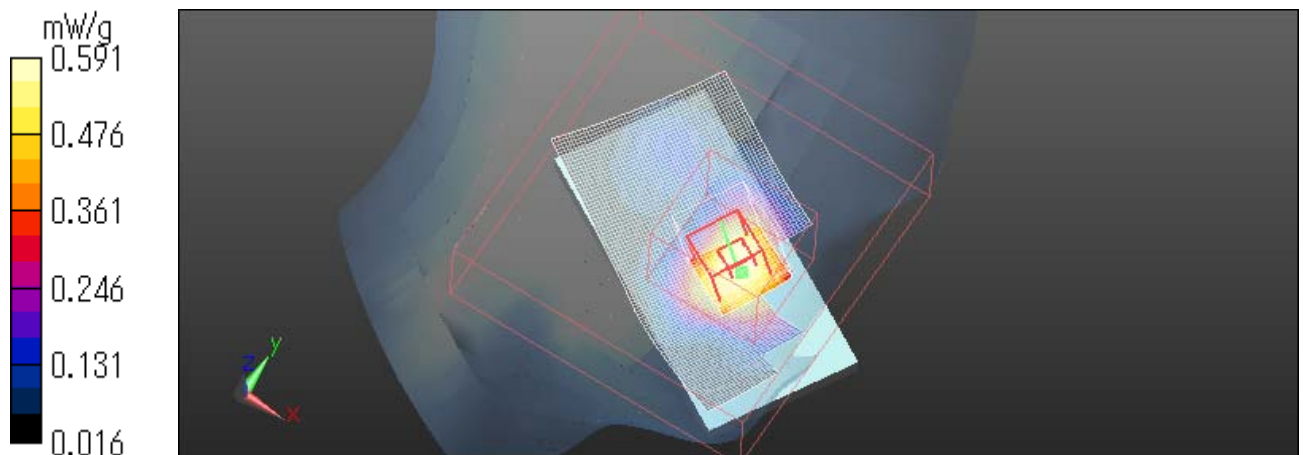
SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.356 mW/g

Maximum value of SAR (measured) = 0.591 mW/g

Test Date = 01/27/2011

Ambient Temperature = 24.0 degree.C

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



KMP7N4Y1-2A Head Left Tilt PCS1900 1880MHz

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(5.2, 5.2, 5.2); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Left-Hand-Side HSL/Tilt Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.310 mW/g

Left-Hand-Side HSL/Tilt Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.736 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.380 W/kg

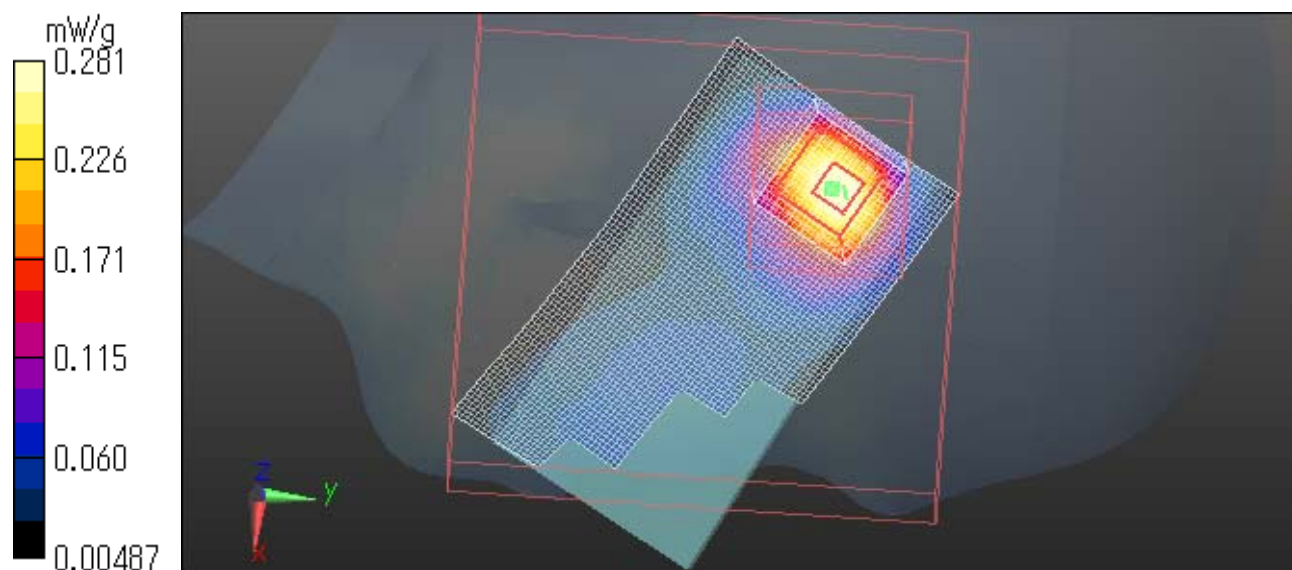
SAR(1 g) = 0.257 mW/g; SAR(10 g) = 0.152 mW/g

Maximum value of SAR (measured) = 0.281 mW/g

Test Date = 01/27/2011

Ambient Temperature = 24.0 degree.c

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



KMP7N4Y1-2A Head Right Touch PCS1900 1880MHz

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(5.2, 5.2, 5.2); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASYS2, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Touch Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.144 mW/g

Right-Hand-Side HSL/Touch Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.283 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.552 W/kg

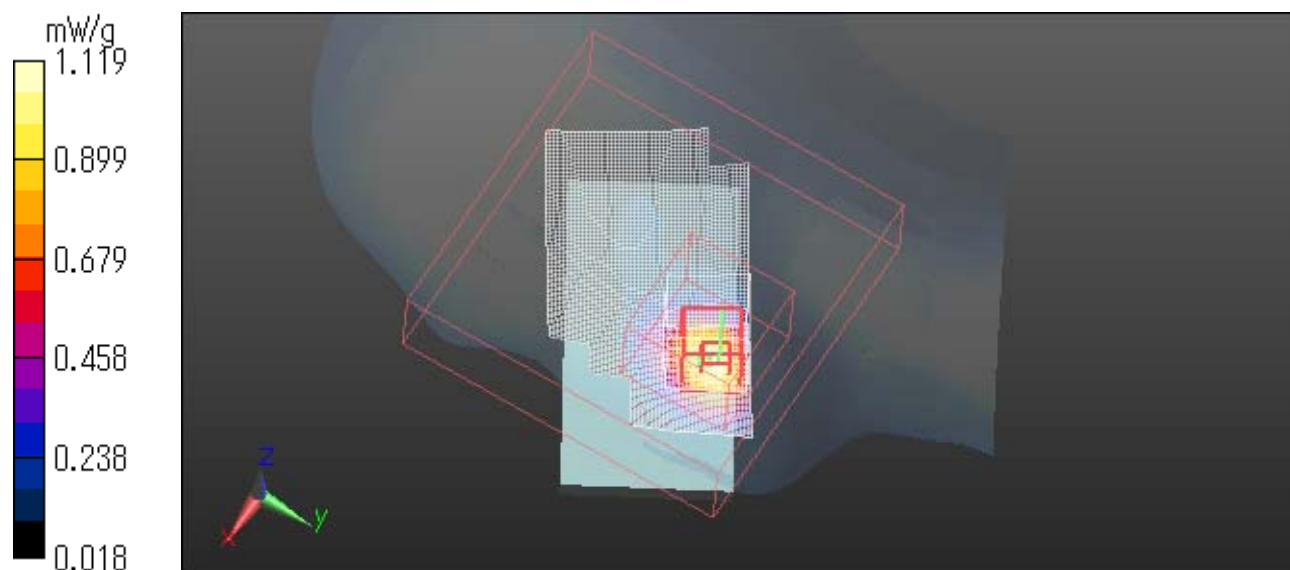
SAR(1 g) = 0.999 mW/g; SAR(10 g) = 0.581 mW/g

Maximum value of SAR (measured) = 1.119 mW/g

Test Date = 01/27/2011

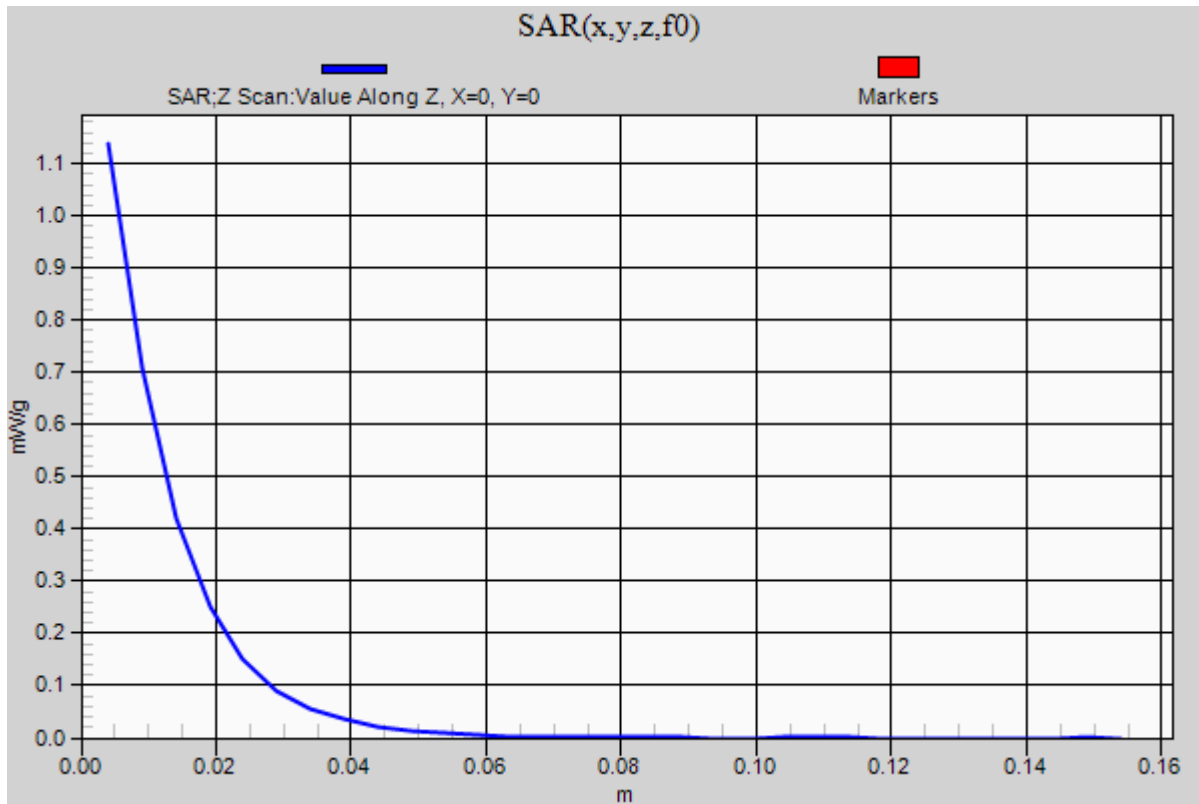
Ambient Temperature = 24.0 degree.c

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



Z-axis scan at max SAR location

KMP7N4Y1-2A Head Right Touch PCS1900 1880MHz



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KMP7N4Y1-2A Head Right rilt PCS1900 1880MHz

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(5.2, 5.2, 5.2); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Tilt Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.292 mW/g

Right-Hand-Side HSL/Tilt Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.083 V/m; Power Drift = 0.124 dB

Peak SAR (extrapolated) = 0.314 W/kg

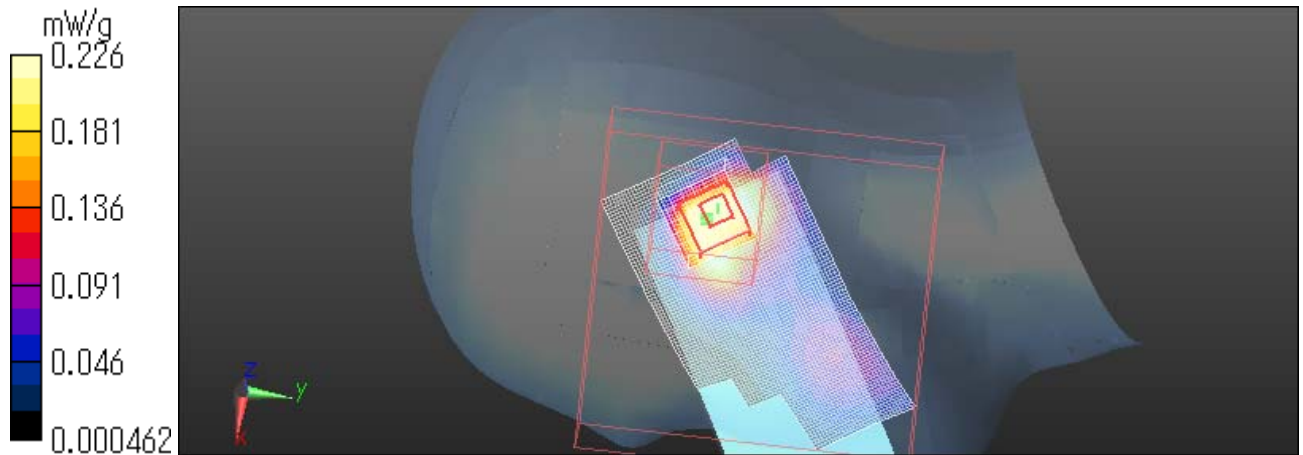
SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.133 mW/g

Maximum value of SAR (measured) = 0.226 mW/g

Test Date = 01/27/2011

Ambient Temperature = 24.0 degree.c

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



KMP7N4Y1-2A Head Right Touch PCS1900 1850.2MHz.

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1850.2MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(5.2, 5.2, 5.2); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASYS2, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Touch Position - Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.837 mW/g

Right-Hand-Side HSL/Touch Position - Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.968 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.094 W/kg

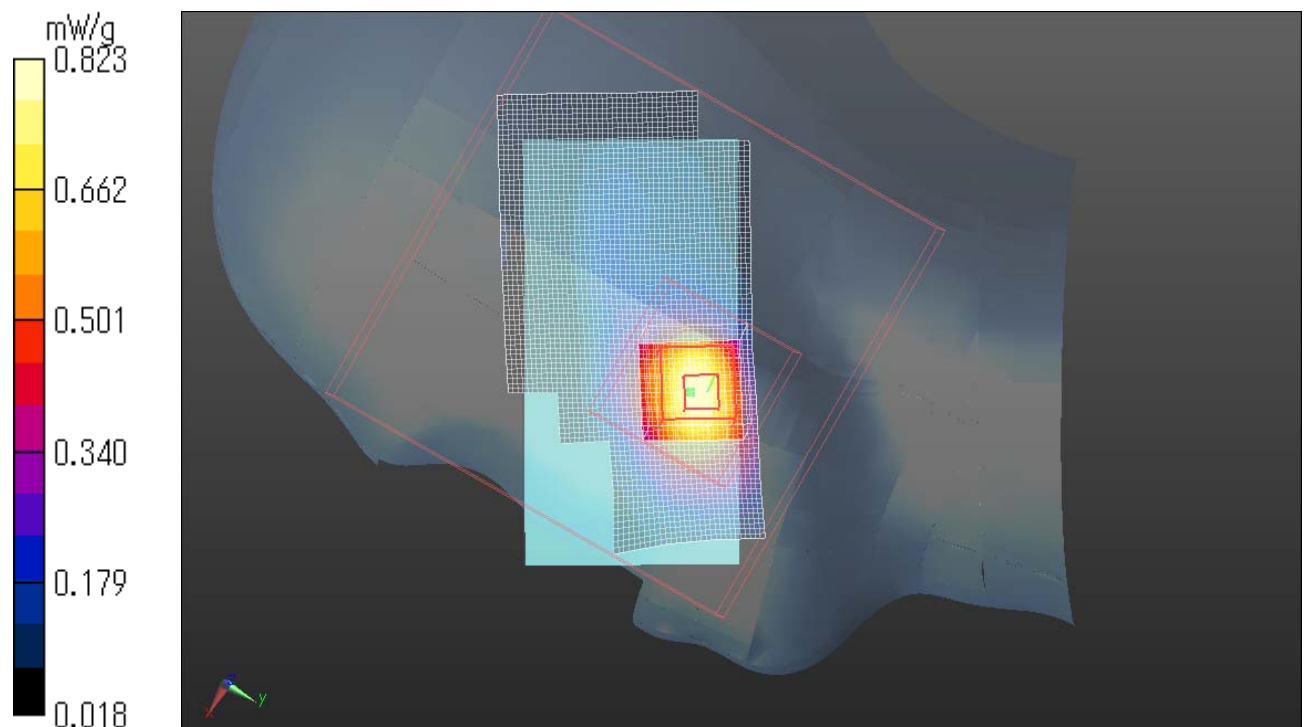
SAR(1 g) = 0.754 mW/g; SAR(10 g) = 0.463 mW/g

Maximum value of SAR (measured) = 0.823 mW/g

Test Date = 01/27/2011

Ambient Temperature = 24.0 degree.C

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



KMP7N4Y1-2A Head Right Touch PCS1900 1909.8MHz

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1909.8MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(5.2, 5.2, 5.2); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Touch Position -High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.812 mW/g

Right-Hand-Side HSL/Touch Position - High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.562 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.989 W/kg

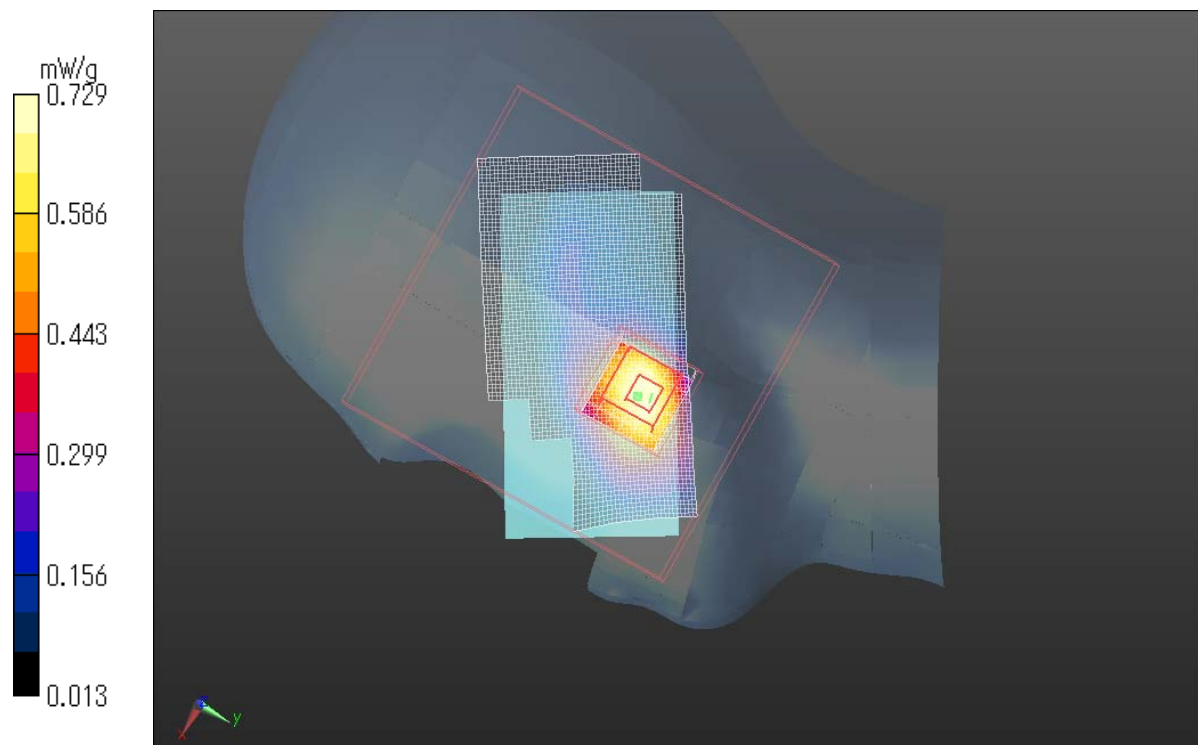
SAR(1 g) = 0.670 mW/g; SAR(10 g) = 0.411 mW/g

Maximum value of SAR (measured) = 0.729 mW/g

Test Date = 01/27/2011

Ambient Temperature = 24.0 degree.C

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



iii)WCDMA V

KMP7N4Y1-2A Head Left touch WCDMA V band 836.6MHz

Communication System: WCDMA V 835M; Communication System Band: WCDMA V band; Frequency: 836.6 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(6.39, 6.39, 6.39); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Left-Hand-Side HSL/Touch Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.471 mW/g

Left-Hand-Side HSL/Touch Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.703 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.624 W/kg

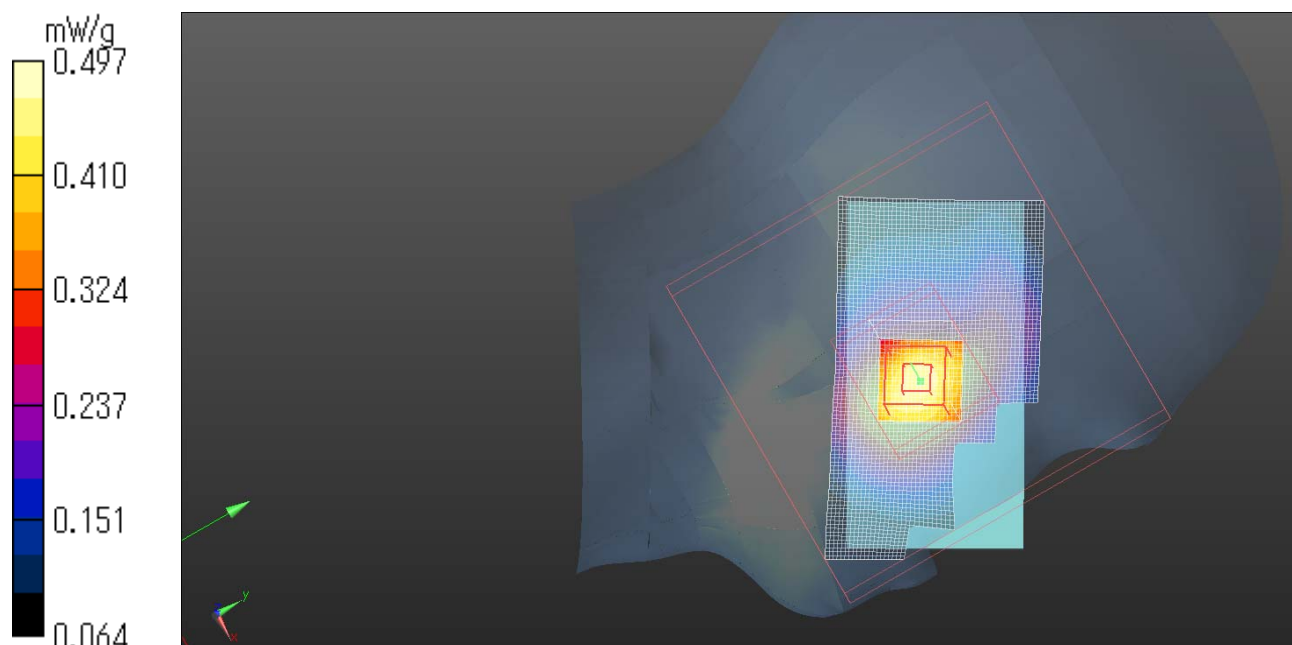
SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.335 mW/g

Maximum value of SAR (measured) = 0.497 mW/g

Test Date = 01/28/2011

Ambient Temperature = 24.0 degree.c

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



KMP7N4Y1-2A Head Left tilt WCDMA V band 836.6MHz

Communication System: WCDMA V 835M; Communication System Band: WCDMA V band; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(6.39, 6.39, 6.39); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Left-Hand-Side HSL/Tilt Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.334 mW/g

Left-Hand-Side HSL/Tilt Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.507 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.408 W/kg

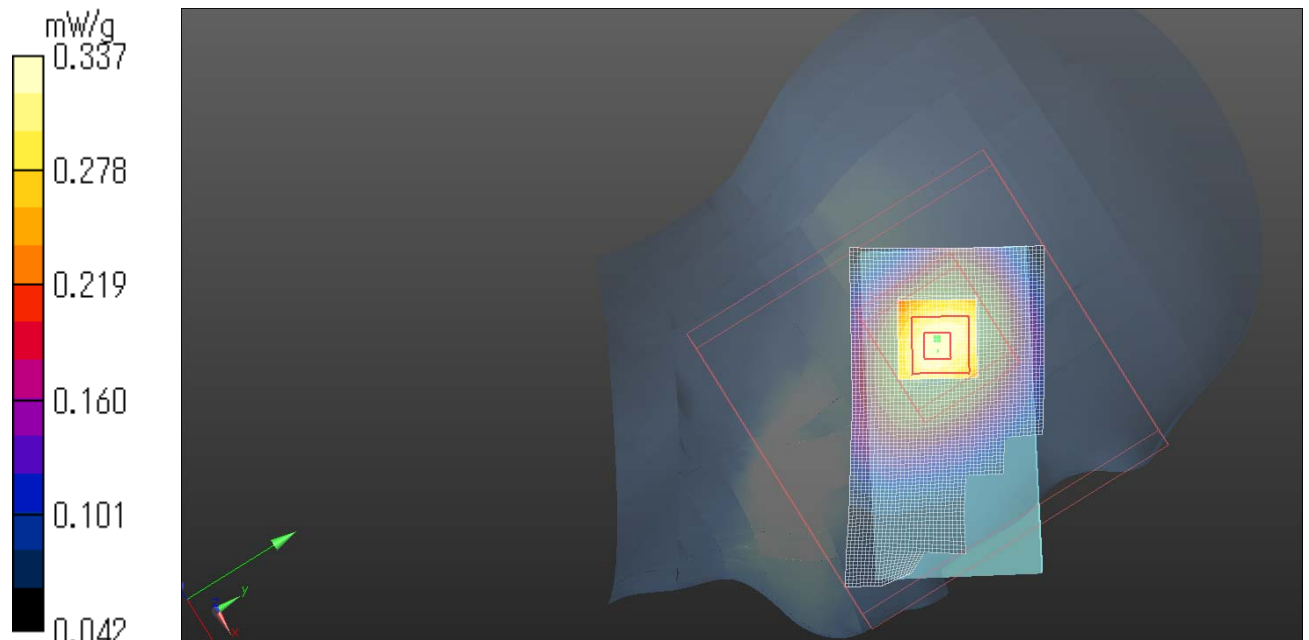
SAR(1 g) = 0.322 mW/g; SAR(10 g) = 0.242 mW/g

Maximum value of SAR (measured) = 0.337 mW/g

Test Date = 01/28/2011

Ambient Temperature = 24.0 degree.c

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



KMP7N4Y1-2A Head Right Touch WCDMA V band 836.6MHz

Communication System: WCDMA V 835M; Communication System Band: WCDMA V band; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(6.39, 6.39, 6.39); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASYS2, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Touch Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.521 mW/g

Right-Hand-Side HSL/Touch Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.807 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.659 W/kg

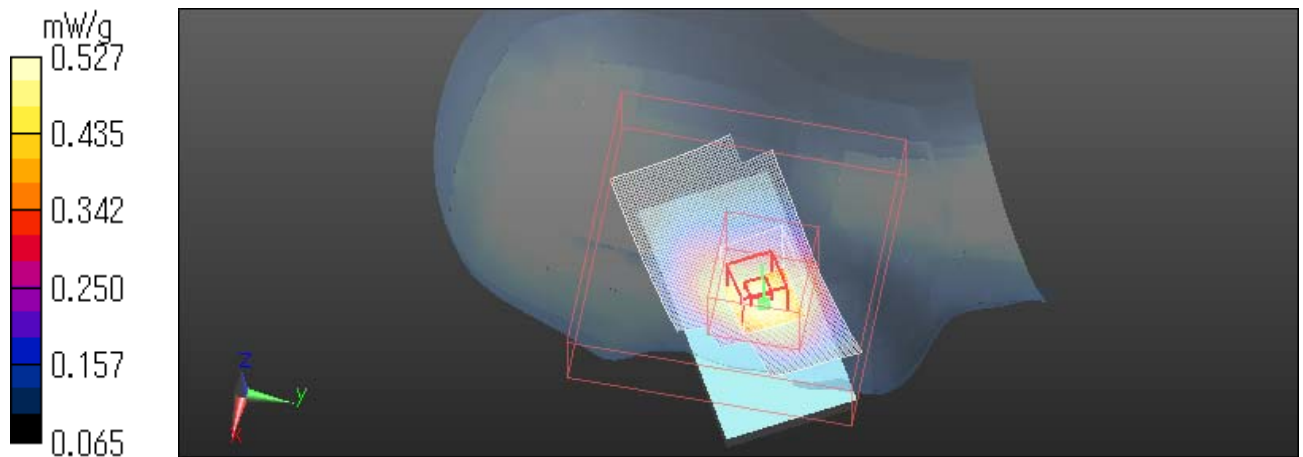
SAR(1 g) = 0.499 mW/g; SAR(10 g) = 0.365 mW/g

Maximum value of SAR (measured) = 0.527 mW/g

Test Date = 01/28/2011

Ambient Temperature = 24.0 degree.c

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



KMP7N4Y1-2A Head Right Tilt WCDMA V band 836.6MHz

Communication System: WCDMA V 835M; Communication System Band: WCDMA V band; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(6.39, 6.39, 6.39); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Tilt Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.413 mW/g

Right-Hand-Side HSL/Tilt Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.192 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.513 W/kg

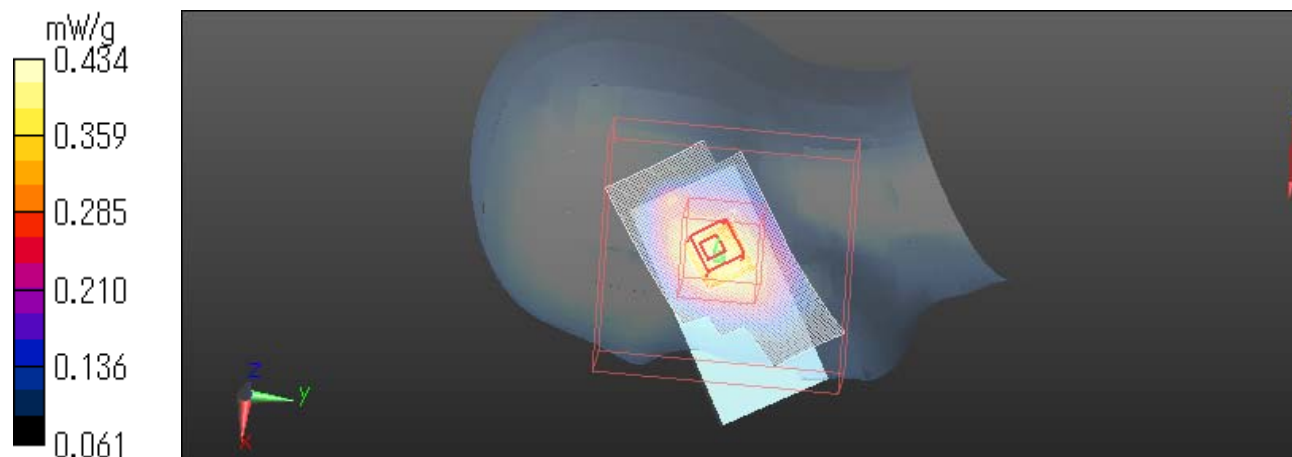
SAR(1 g) = 0.411 mW/g; SAR(10 g) = 0.307 mW/g

Maximum value of SAR (measured) = 0.434 mW/g

Test Date = 01/28/2011

Ambient Temperature = 24.0 degree.c

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



KMP7N4Y1-2A Head Right Touch WCDMA V band 826.4MHz

Communication System: WCDMA V 835M; Communication System Band: WCDMA V band; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(6.39, 6.39, 6.39); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASYS2, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Touch Position - Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.496 mW/g

Right-Hand-Side HSL/Touch Position - Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.160 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.640 W/kg

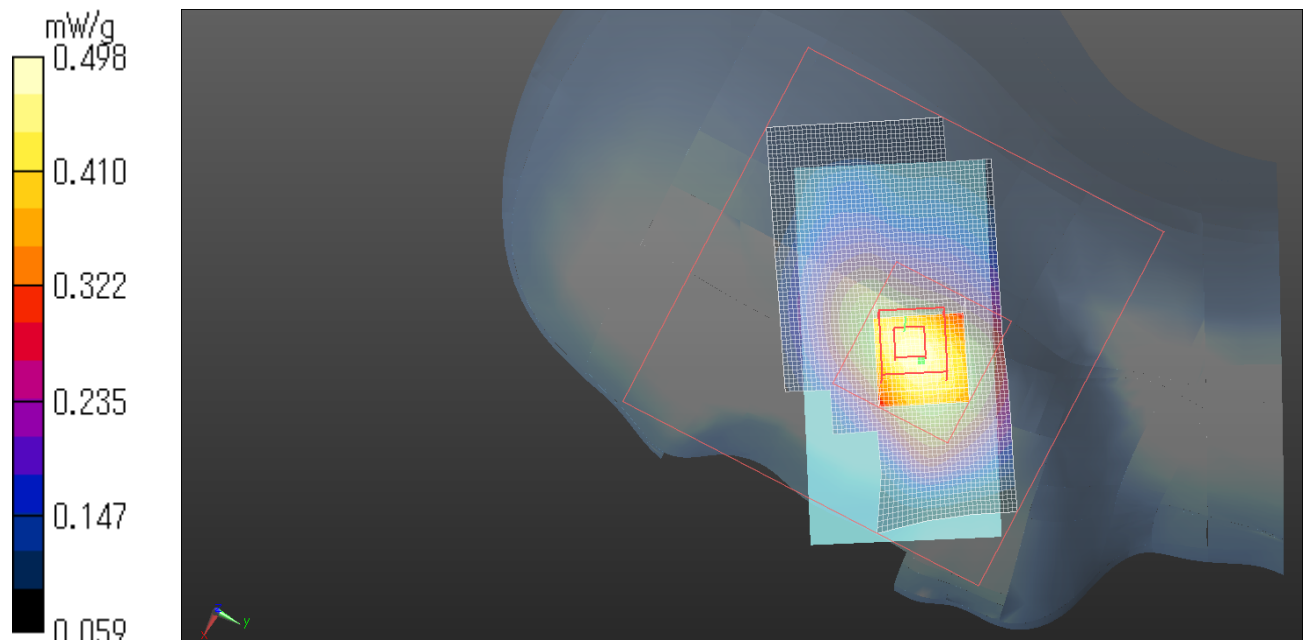
SAR(1 g) = 0.476 mW/g; SAR(10 g) = 0.345 mW/g

Maximum value of SAR (measured) = 0.498 mW/g

Test Date = 01/28/2011

Ambient Temperature = 24.0 degree.c

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



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KMP7N4Y1-2A Head Right Touch WCDMA V band 846.6MHz

Communication System: WCDMA V 835M; Communication System Band: WCDMA V band; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(6.39, 6.39, 6.39); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASYS2, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Touch Position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.555 mW/g

Right-Hand-Side HSL/Touch Position - High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.548 V/m; Power Drift = 0.0057 dB

Peak SAR (extrapolated) = 0.713 W/kg

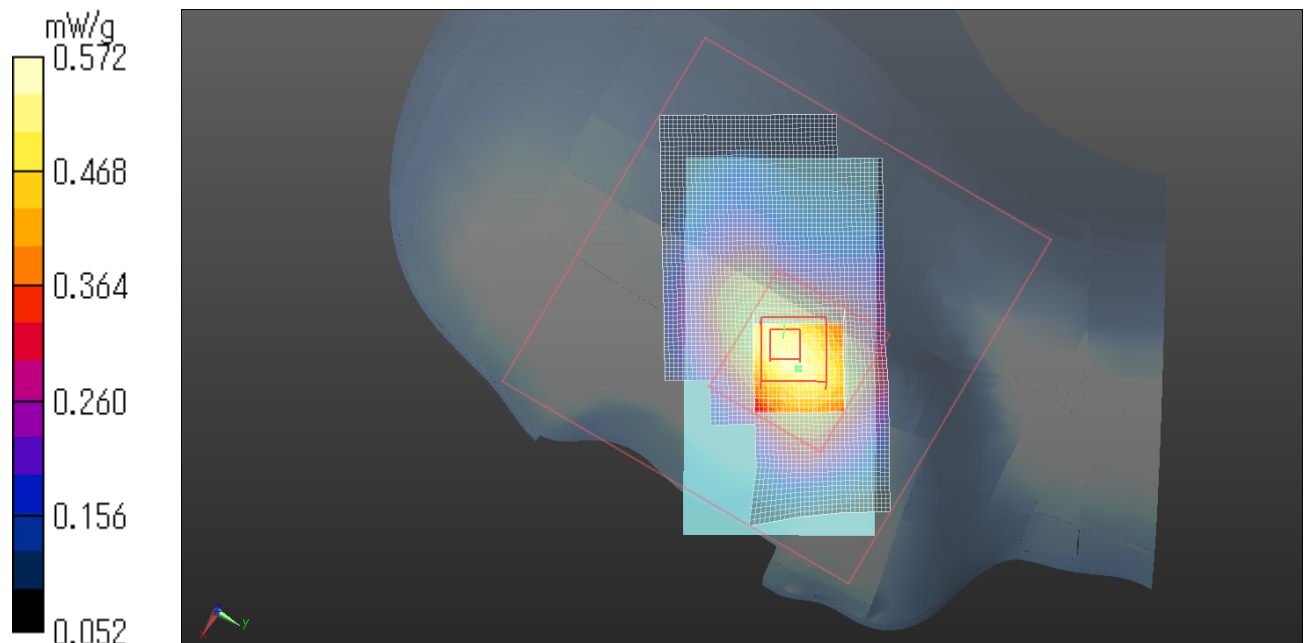
SAR(1 g) = 0.535 mW/g; SAR(10 g) = 0.382 mW/g

Maximum value of SAR (measured) = 0.572 mW/g

Test Date = 01/28/2011

Ambient Temperature = 24.0 degree.c

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



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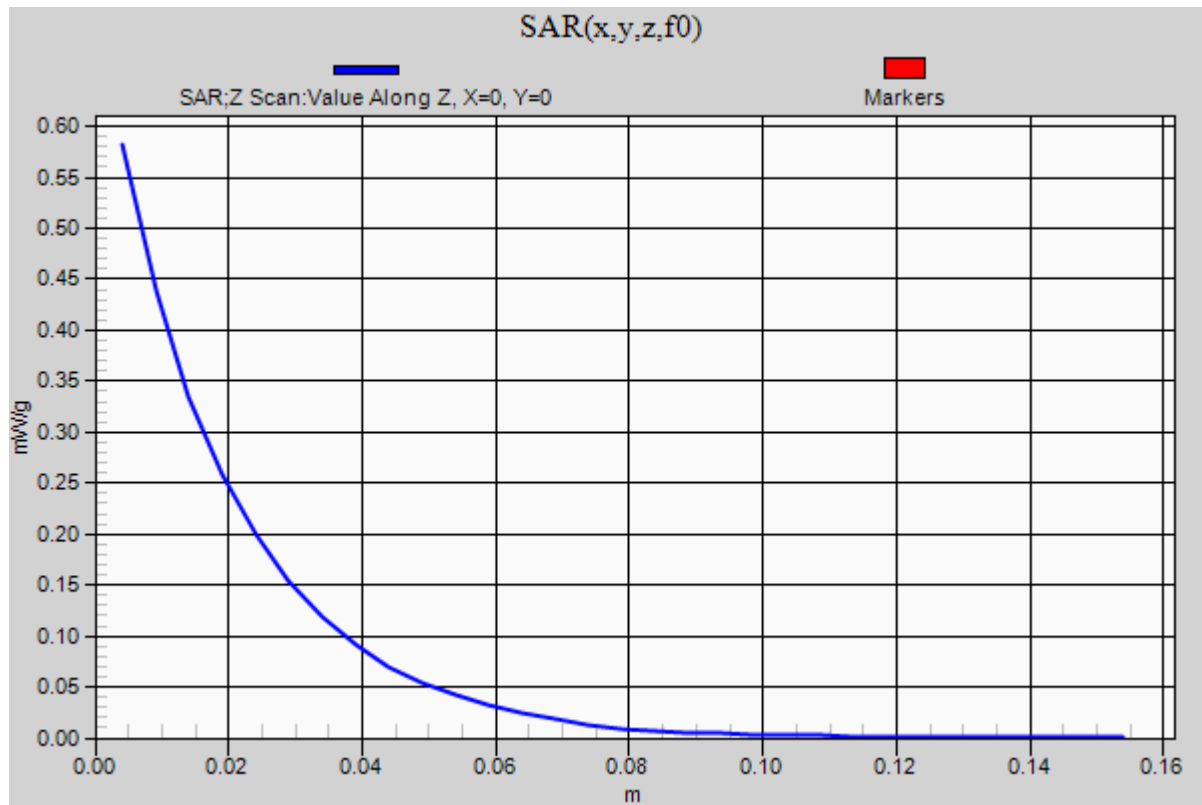
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Z-axis scan at max SAR location

KMP7N4Y1-2A Head Right Touch WCDMA V band 846.6MHz



iV)WLAN

KMP7N4Y1-2A Head Left Touch WLAN 11b 5.5Mbps 2437MHz

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.0$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(4.68, 4.68, 4.68); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Left-Hand-Side HSL/Touch Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.162 mW/g

Left-Hand-Side HSL/Touch Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.966 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.282 W/kg

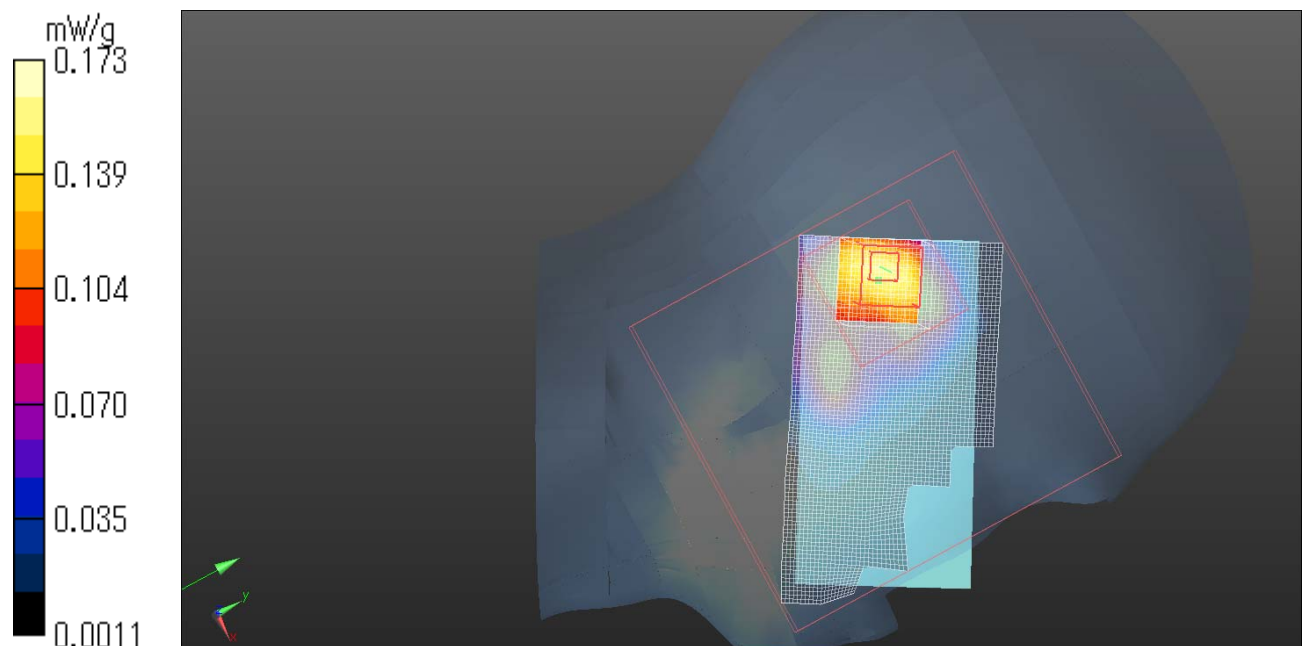
SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.086 mW/g

Maximum value of SAR (measured) = 0.173 mW/g

Test Date = 02/01/2011

Ambient Temperature = 24.0 degree.C.

Liquid Temperature = Before 23.2degree.C. , After 23.2 degree.C.



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KMP7N4Y1-2A Head Left Tilt 11b 5.5Mbps 2437MHz

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.0$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(4.68, 4.68, 4.68); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Left-Hand-Side HSL/Tilt Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.134 mW/g

Left-Hand-Side HSL/Tilt Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.701 V/m; Power Drift = 0.12dB

Peak SAR (extrapolated) = 0.238 W/kg

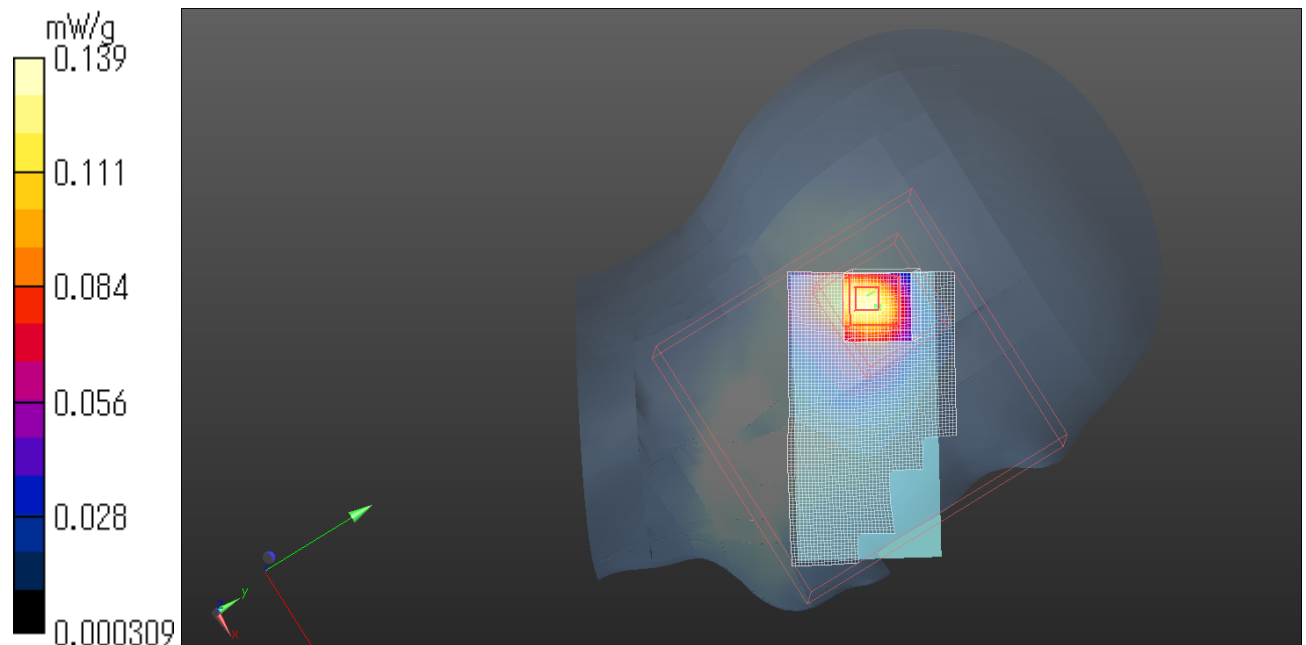
SAR(1 g) = 0.128 mW/g; SAR(10 g) = 0.066 mW/g

Maximum value of SAR (measured) = 0.139 mW/g

Test Date = 02/01/2011

Ambient Temperature = 24.0 degree.C.

Liquid Temperature = Before 23.2degree.C. , After 23.2 degree.C.



KMP7N4Y1-2A Head Right Touch 11b 5.5Mbps 2437MHz

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.0$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(4.68, 4.68, 4.68); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Touch Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.302 mW/g

Right-Hand-Side HSL/Touch Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.854 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 0.581 W/kg

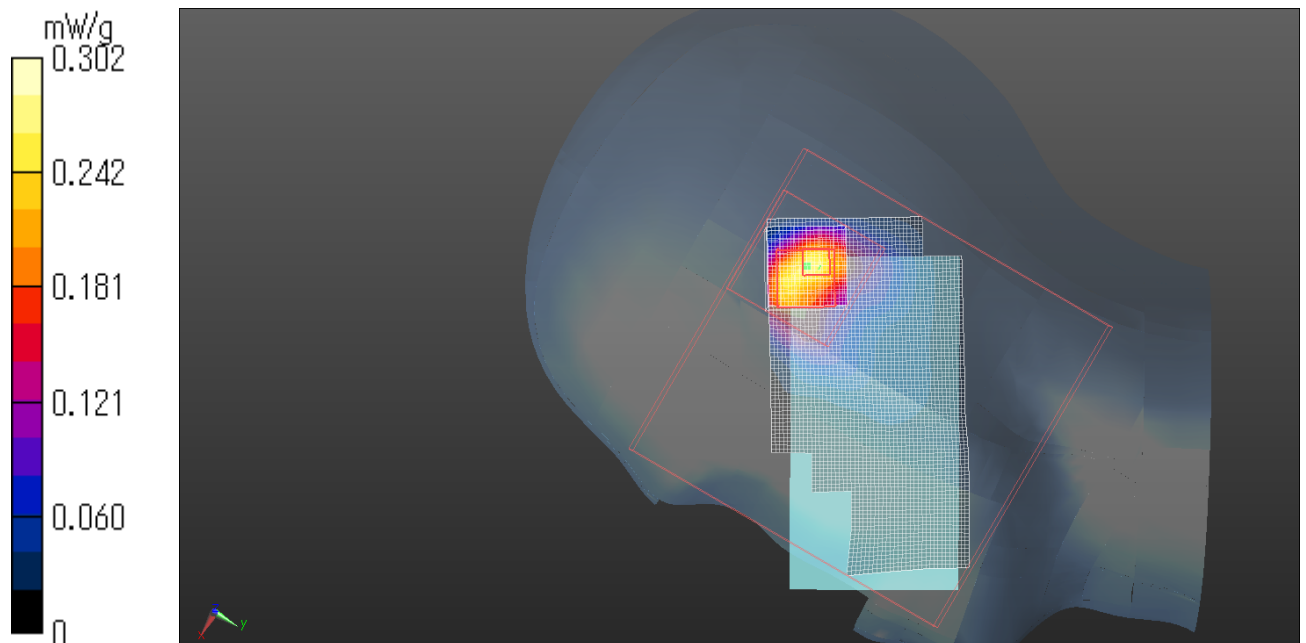
SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.122 mW/g

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

Test Date = 02/01/2011

Ambient Temperature = 24.0 degree.C.

Liquid Temperature = Before 23.2degree.C. , After 23.2 degree.C.



KMP7N4Y1-2A Head Right Tilt WLAN 11b 5.5Mbps 2437MHz

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2437MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.0$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(4.68, 4.68, 4.68); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Tilt Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.224 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 0.445 W/kg

SAR(1 g) = 0.184 mW/g; SAR(10 g) = 0.088 mW/g

Maximum value of SAR (measured) = 0.204 mW/g

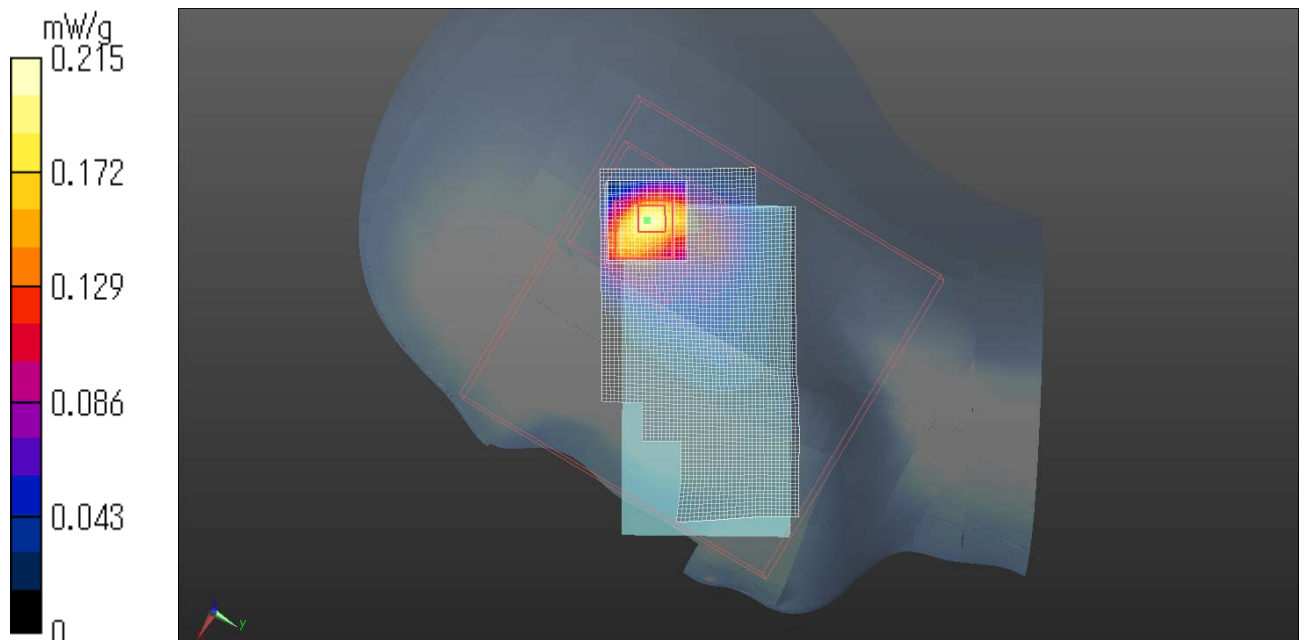
Right-Hand-Side HSL/Tilt Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.215 mW/g

Test Date = 02/01/2011

Ambient Temperature = 24.0 degree.C.

Liquid Temperature = Before 23.2degree.C. , After 23.2 degree.C.



KMP7N4Y1-2A Head Right Touch WLAN 11b 1Mbps 2437MHz

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.0$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(4.68, 4.68, 4.68); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASYS2, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Touch Position - Mid/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.346 mW/g

Right-Hand-Side HSL/Touch Position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.109 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.578 W/kg

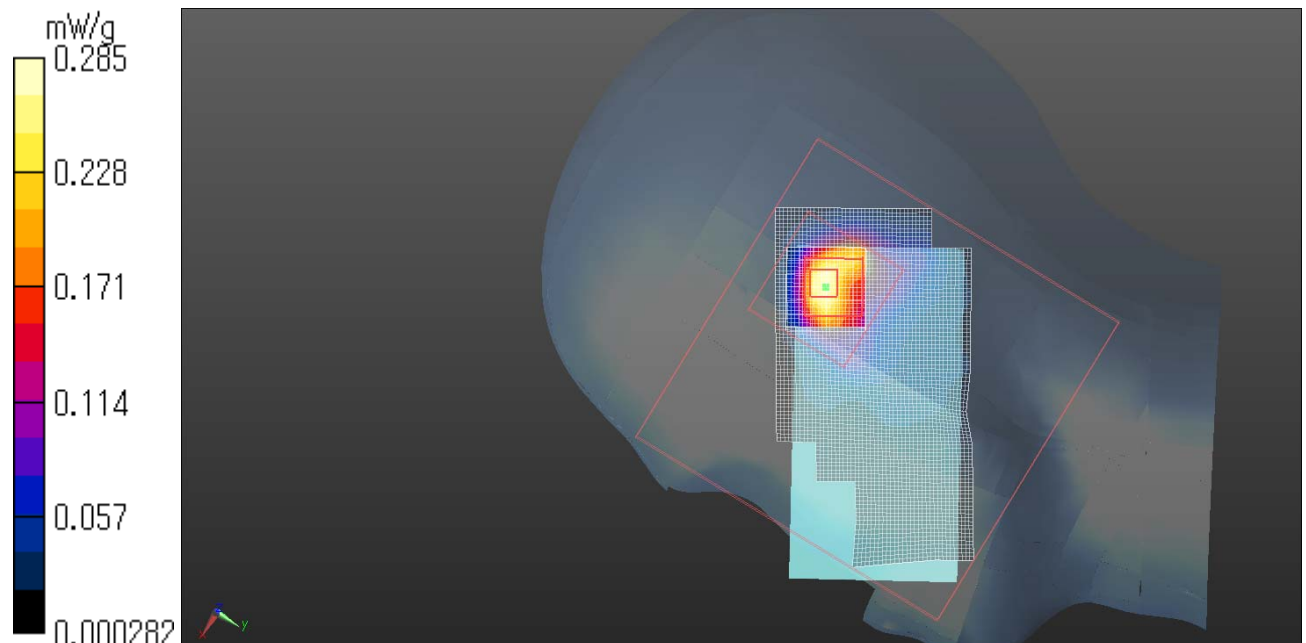
SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.119 mW/g

Maximum value of SAR (measured) = 0.285 mW/g

Test Date = 02/01/2011

Ambient Temperature = 24.0 degree.C.

Liquid Temperature = Before 23.2degree.C. , After 23.2 degree.C.



KMP7N4Y1-2A Head Right Touch WLAN 11b 1Mbps 2412MHz

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.0$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(4.68, 4.68, 4.68); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASYS2, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Touch Position - Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.278 mW/g

Right-Hand-Side HSL/Touch Position - Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.851 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.599 W/kg

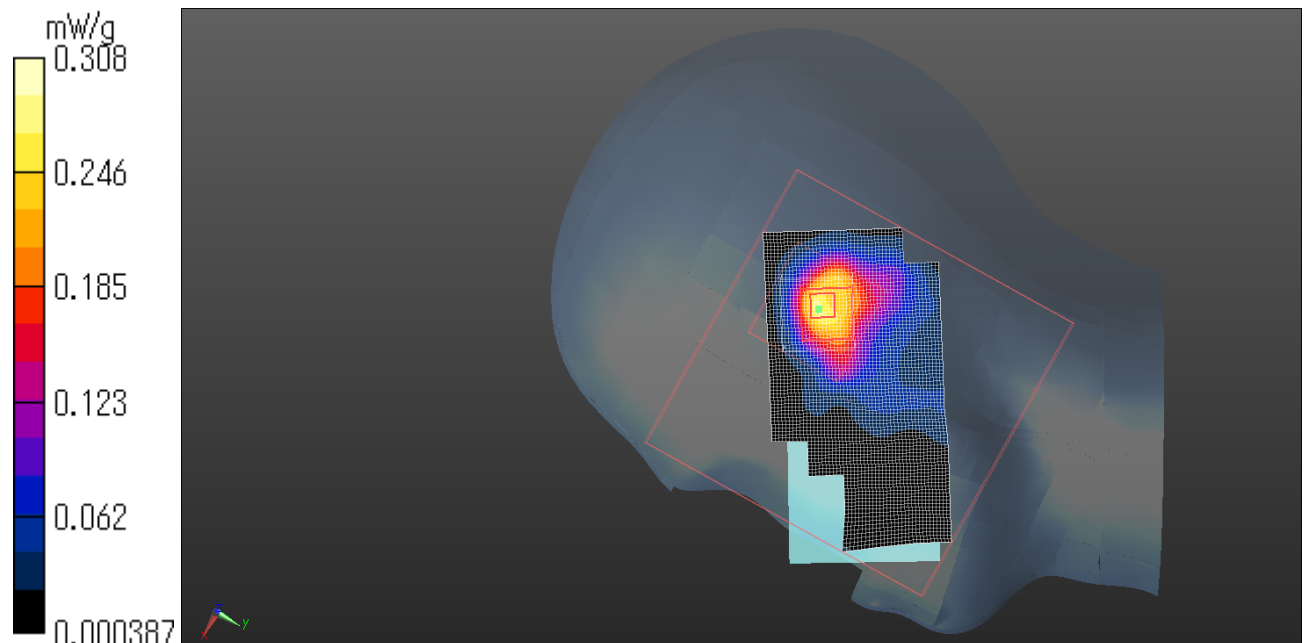
SAR(1 g) = 0.271 mW/g; SAR(10 g) = 0.131 mW/g

Maximum value of SAR (measured) = 0.308 mW/g

Test Date = 02/01/2011

Ambient Temperature = 24.0 degree.C.

Liquid Temperature = Before 23.2degree.C. , After 23.2 degree.C.



KMP7N4Y1-2A Head Right Touch WLAN 11b 1Mbps 2462MHz

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.0$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(4.68, 4.68, 4.68); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASYS2, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Right-Hand-Side HSL/Touch Position -High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.372 mW/g

Right-Hand-Side HSL/Touch Position - High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.218 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.811 W/kg

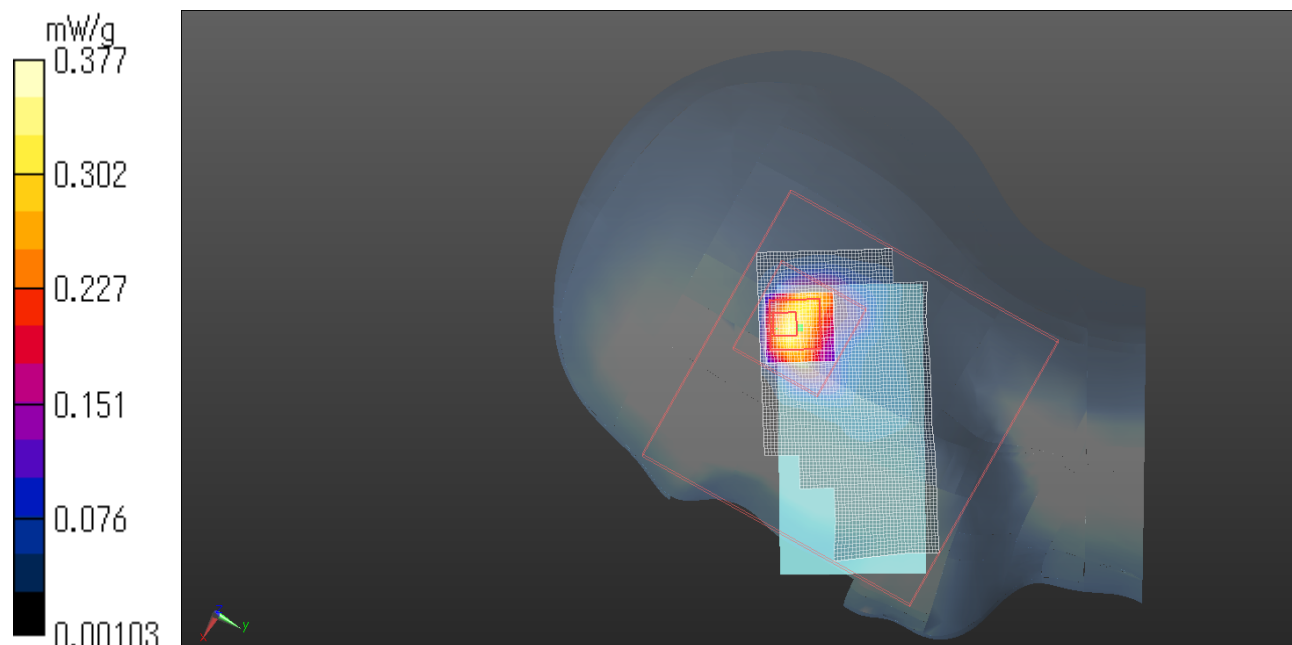
SAR(1 g) = 0.343 mW/g; SAR(10 g) = 0.166 mW/g

Maximum value of SAR (measured) = 0.377 mW/g

Test Date = 02/01/2011

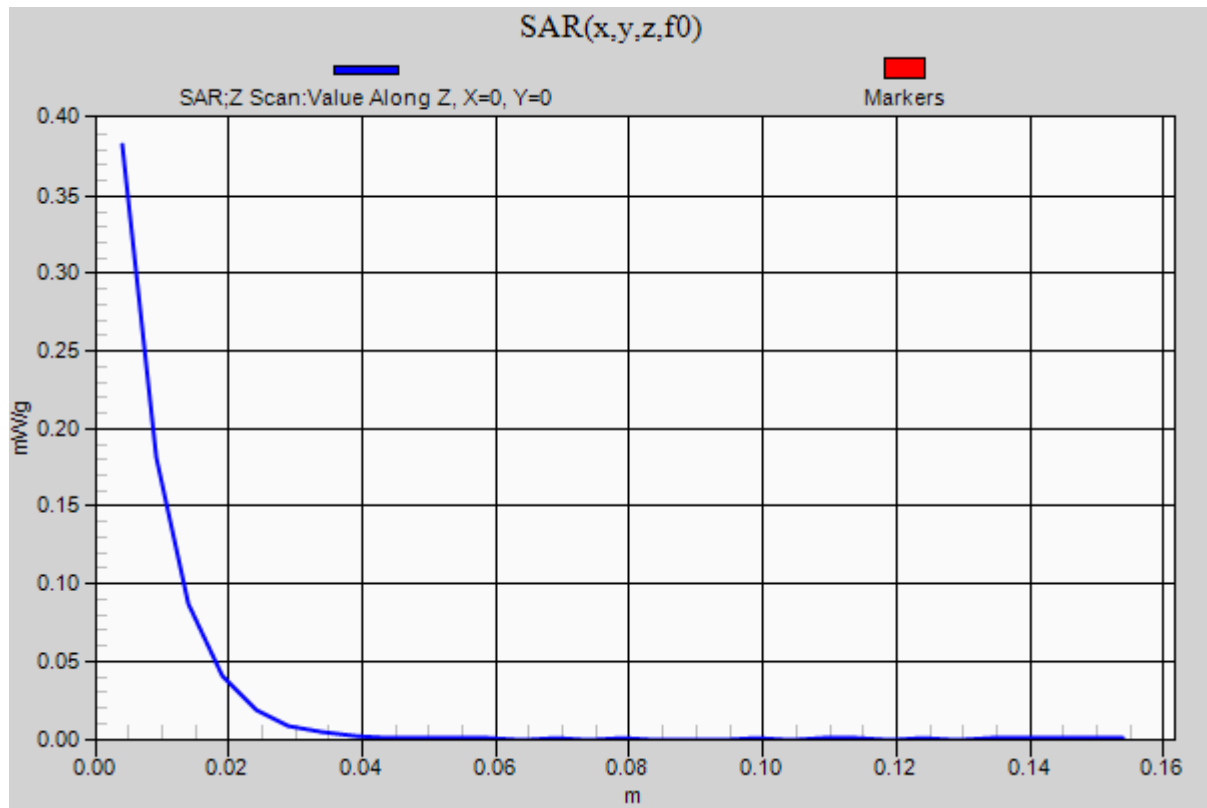
Ambient Temperature = 24.0 degree.C.

Liquid Temperature = Before 23.2degree.C. , After 23.2 degree.C.



Z-axis scan at max SAR location

KMP7N4Y1-2A Head Right Touch WLAN 11b 1Mbps 2462MHz



3. Measurement data (BODY DATA)

i)GSM850

KMP7N4Y1-2A Body Back 15mm GSM GSM850 836.6MHz

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 836.6 MHz;Duty Cycle: 1:8.3

Medium parameters used: $f = 835$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 52.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.29, 10.29, 10.29); Calibrated: 2010/02/19
- Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASYS2, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Flat-Section MSL/Flat Section 15mm/Area Scan 2 (51x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.510 mW/g

Flat-Section MSL/Flat Section 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.675 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.549 W/kg

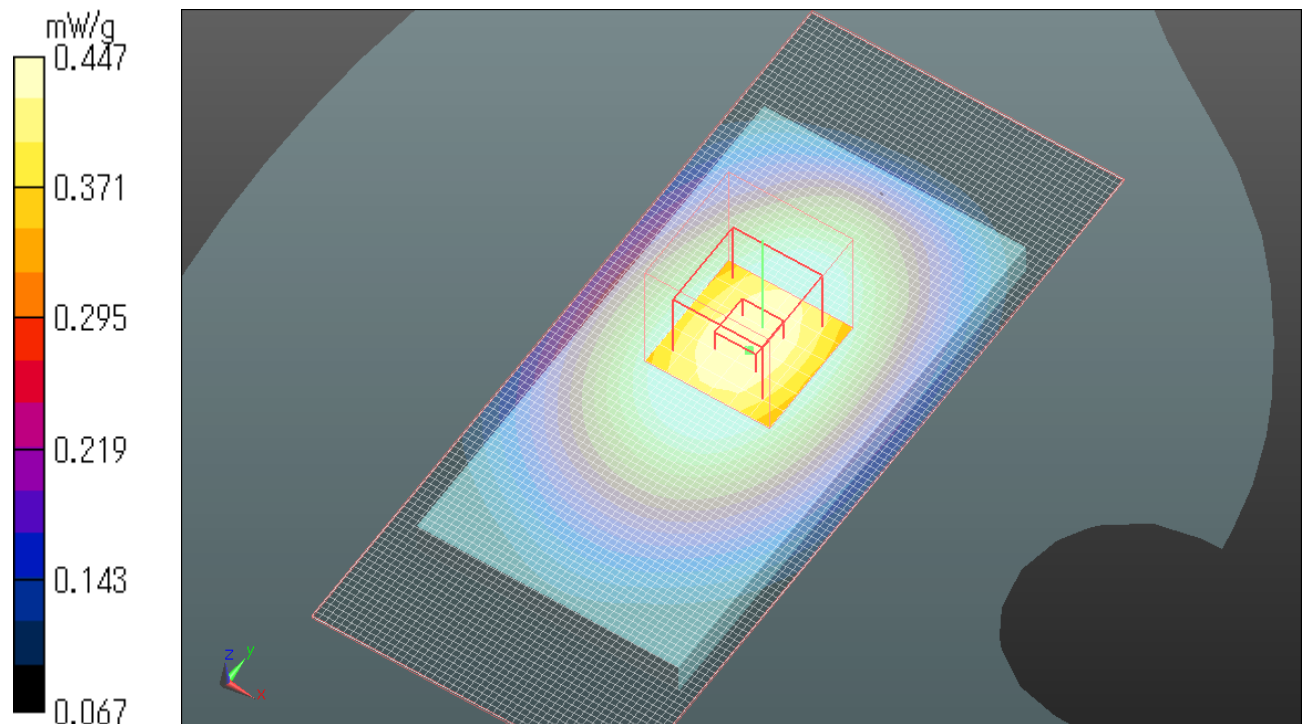
SAR(1 g) = 0.425 mW/g; SAR(10 g) = 0.319 mW/g

Maximum value of SAR (measured) = 0.447 mW/g

Test Date = 01/26/2011

Ambient Temperature = 24.0 degree.c

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



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KMP7N4Y1-2A Body Back 15mm GSM GSM850 824.2MHz

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 835$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 52.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.29, 10.29, 10.29); Calibrated: 2010/02/19
- Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Flat-Section MSL/Flat Section 15mm/Area Scan 2 (51x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.956 mW/g

Flat-Section MSL/Flat Section 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.343 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 1.019 W/kg

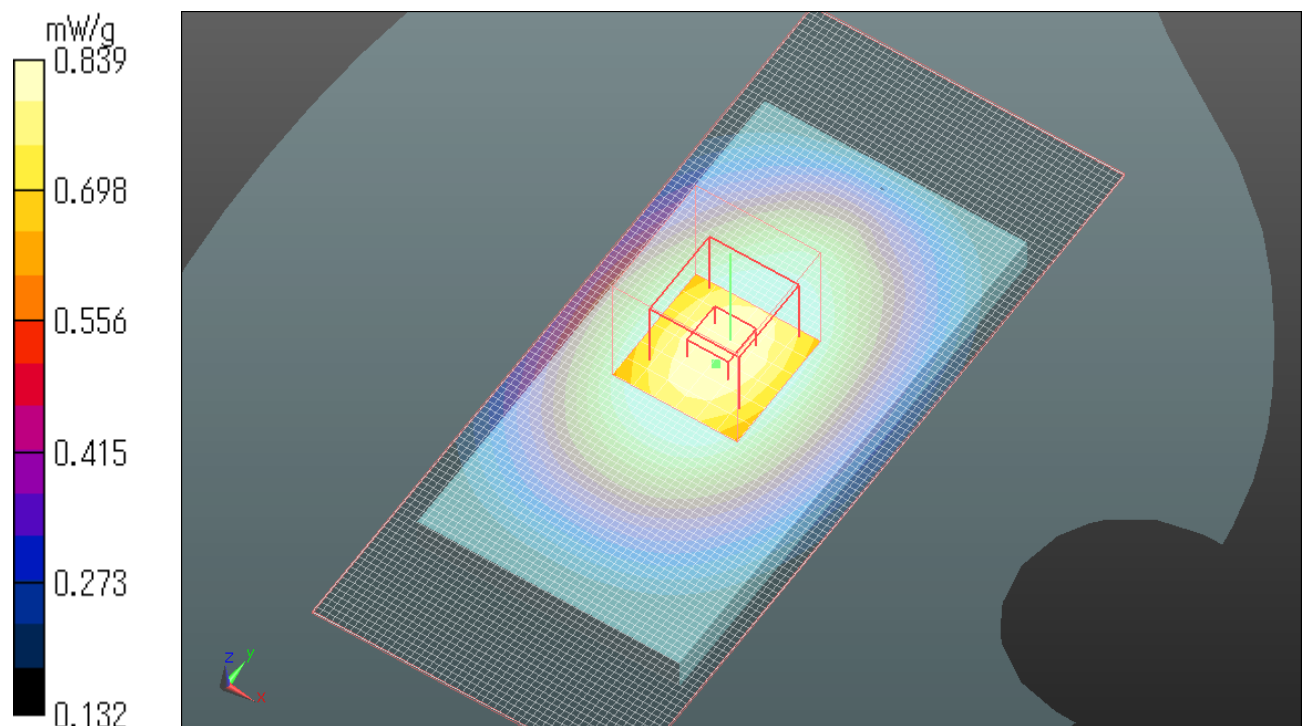
SAR(1 g) = 0.799 mW/g; SAR(10 g) = 0.600 mW/g

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

Test Date = 01/26/2011

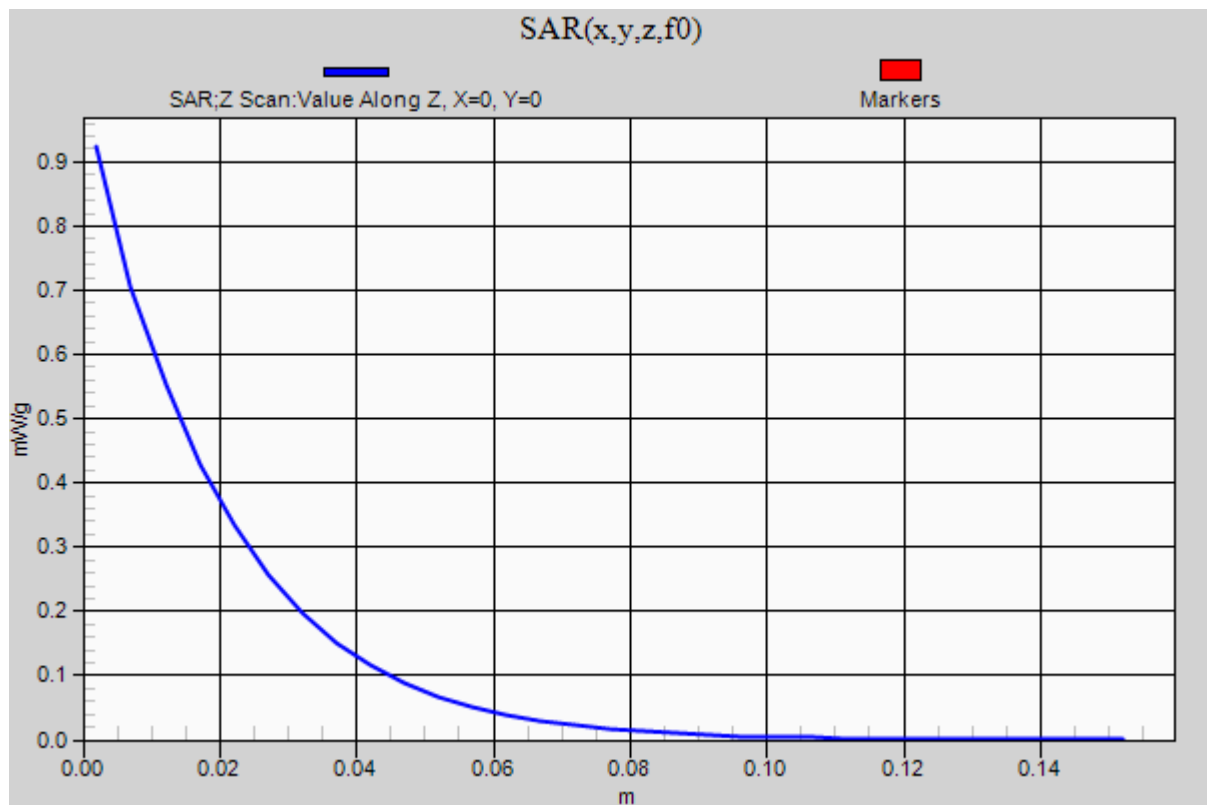
Ambient Temperature = 24.0 degree.c

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



Z-axis scan at max SAR location

KMP7N4Y1-2A Body Back 15mm GSM GSM850 824.2MHz



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KMP7N4Y1-2A Body Back 15mm GSM GSM850 848.8MHz

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 835$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 52.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.29, 10.29, 10.29); Calibrated: 2010/02/19
- Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASYS2, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Flat-Section MSL/Flat Section 15mm/Area Scan 2 (51x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.965 mW/g

Flat-Section MSL/Flat Section 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.168 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.041 W/kg

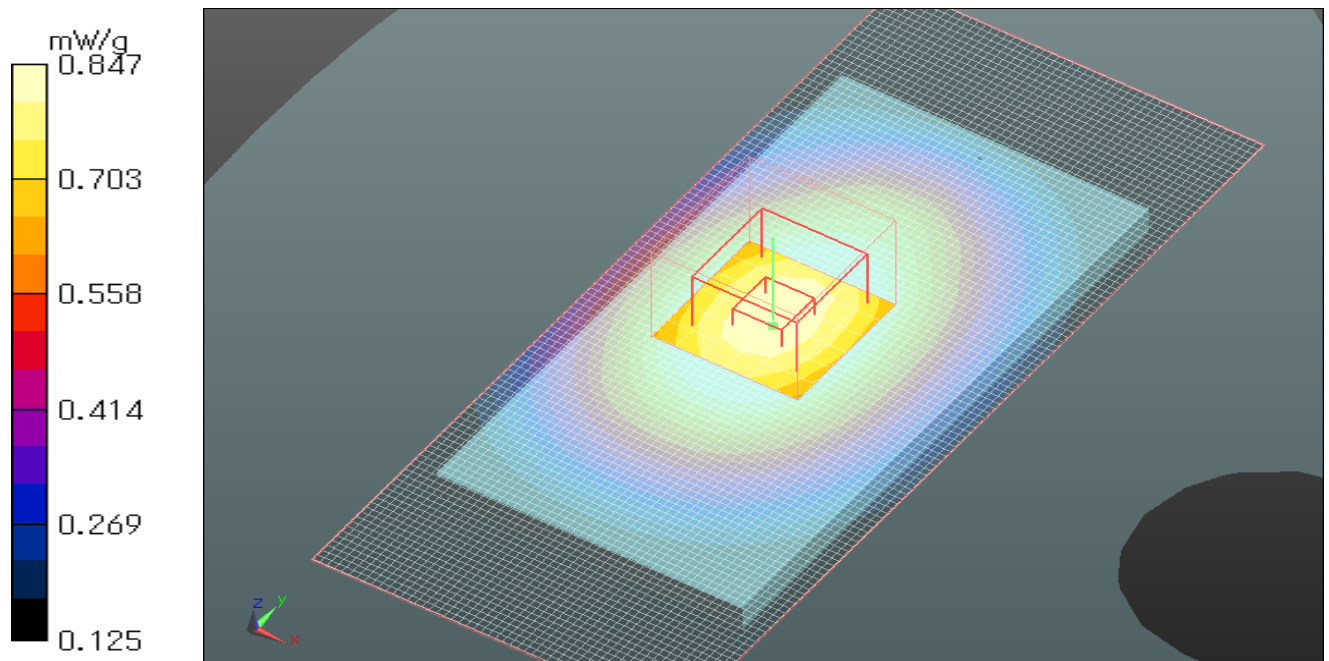
SAR(1 g) = 0.798 mW/g; SAR(10 g) = 0.592 mW/g

Maximum value of SAR (measured) = 0.847 mW/g

Test Date = 01/26/2011

Ambient Temperature = 24.0 degree.c

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



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ii)PCS1900

KMP7N4Y1-2A Body Back 15mm PCS1900 1880MHz

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.47, 8.47, 8.47); Calibrated: 2010/02/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Flat-Section MSL/Flat Section 15mm/Area Scan 2 (51x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.594 mW/g

Flat-Section MSL/Flat Section 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.335 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.686 W/kg

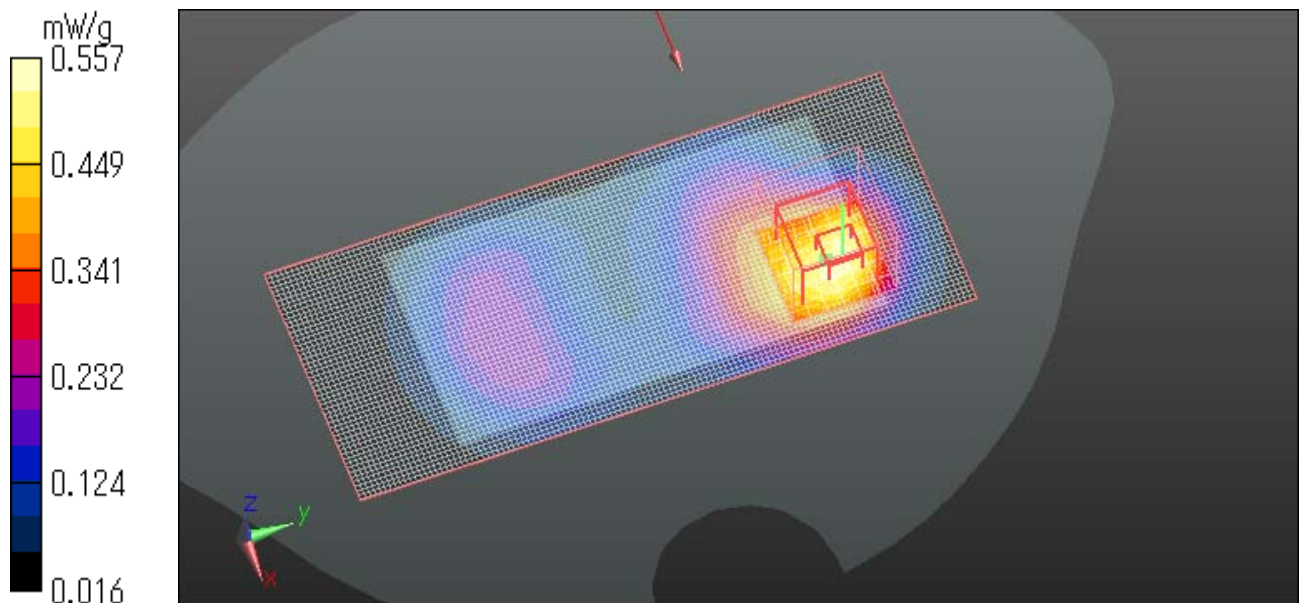
SAR(1 g) = 0.417 mW/g; SAR(10 g) = 0.251 mW/g

Maximum value of SAR (measured) = 0.557 mW/g

Test Date = 01/26/2011

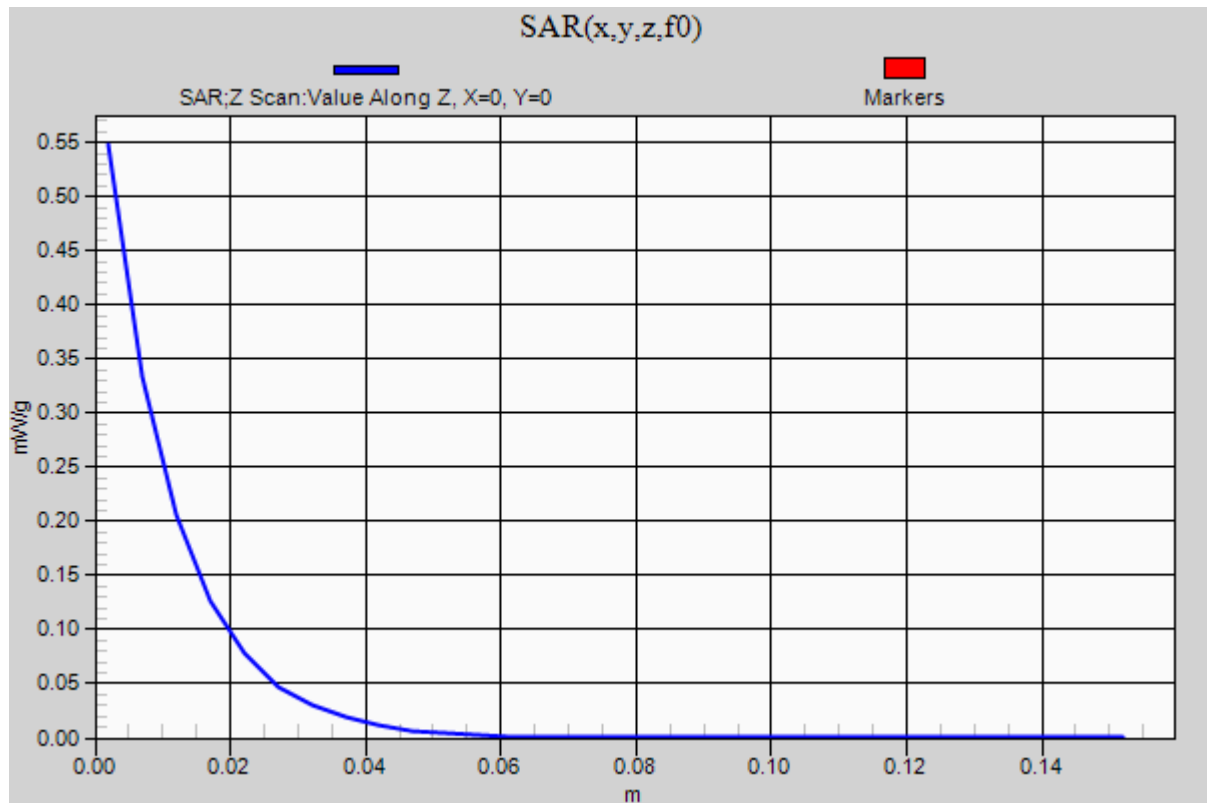
Ambient Temperature = 24.0 degree.c

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



Z-axis scan at max SAR location

KMP7N4Y1-2A Body Back 15mm PCS1900 1880MHz



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KMP7N4Y1-2A Body Back 15mm PCS1900 1850.2MHz

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.47, 8.47, 8.47); Calibrated: 2010/02/19
- Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Flat-Section MSL/Flat Section 15mm/Area Scan 2 (51x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.589 mW/g

Flat-Section MSL/Flat Section 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.142 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.686 W/kg

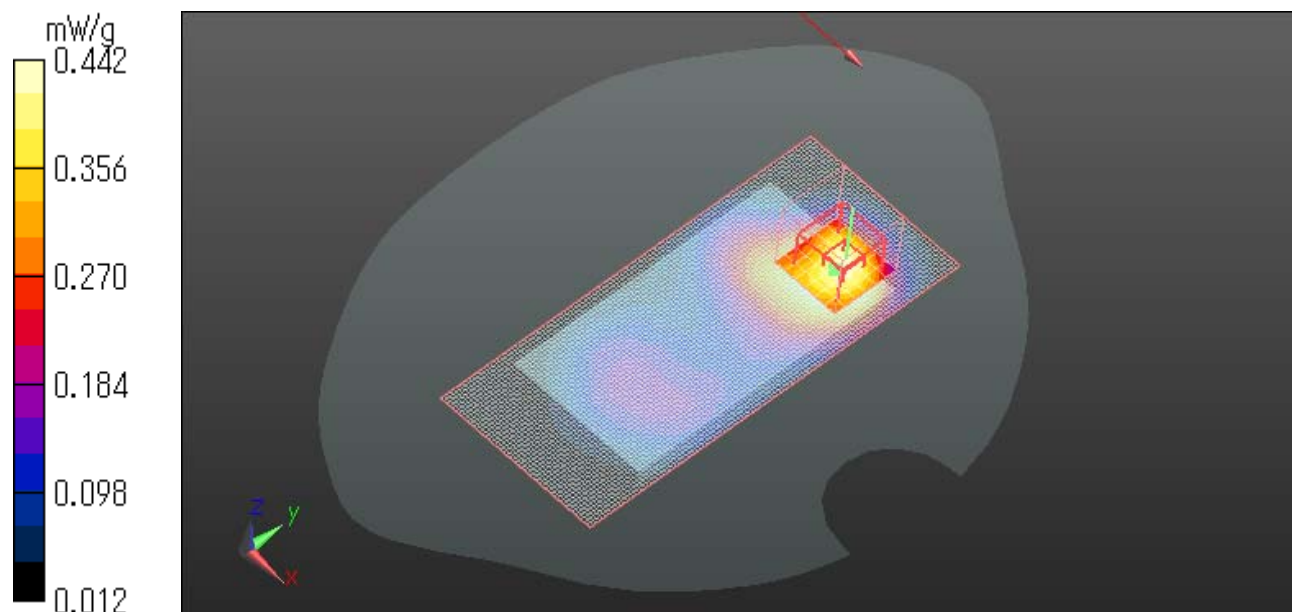
SAR(1 g) = 0.407 mW/g; SAR(10 g) = 0.240 mW/g

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

Test Date = 01/26/2011

Ambient Temperature = 24.0 degree.c

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



KMP7N4Y1-2A Body Back 15mm PCS1900 1909.8MHz

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 51.14$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(8.47, 8.47, 8.47); Calibrated: 2010/02/19
- Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Flat-Section MSL/Flat Section 15mm/Area Scan 2 (51x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.576 mW/g

Flat-Section MSL/Flat Section 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.184 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.839 W/kg

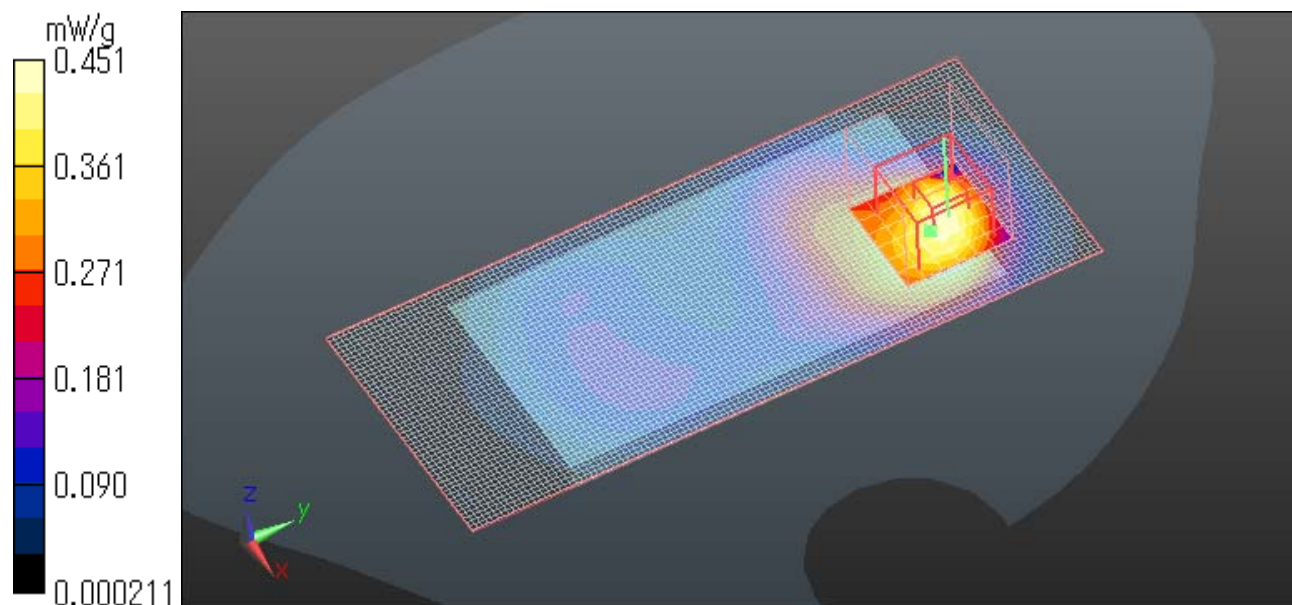
SAR(1 g) = 0.409 mW/g; SAR(10 g) = 0.240 mW/g

Maximum value of SAR (measured) = 0.451 mW/g

Test Date = 01/26/2011

Ambient Temperature = 24.0 degree.c

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



iii)WCDMA V

KMP7N4Y1-2A Body Back 15mm 12.2k RMC WCDMA V 836.6MHz

Communication System: WCDMA V 835M; Communication System Band: WCDMA V band; Frequency: 836.6 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 835\text{MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.29, 10.29, 10.29); Calibrated: 2010/02/19
- Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Flat-Section MSL/Flat Section 15mm/Area Scan 2 (51x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.646 mW/g

Flat-Section MSL/Flat Section 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.688 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.705 W/kg

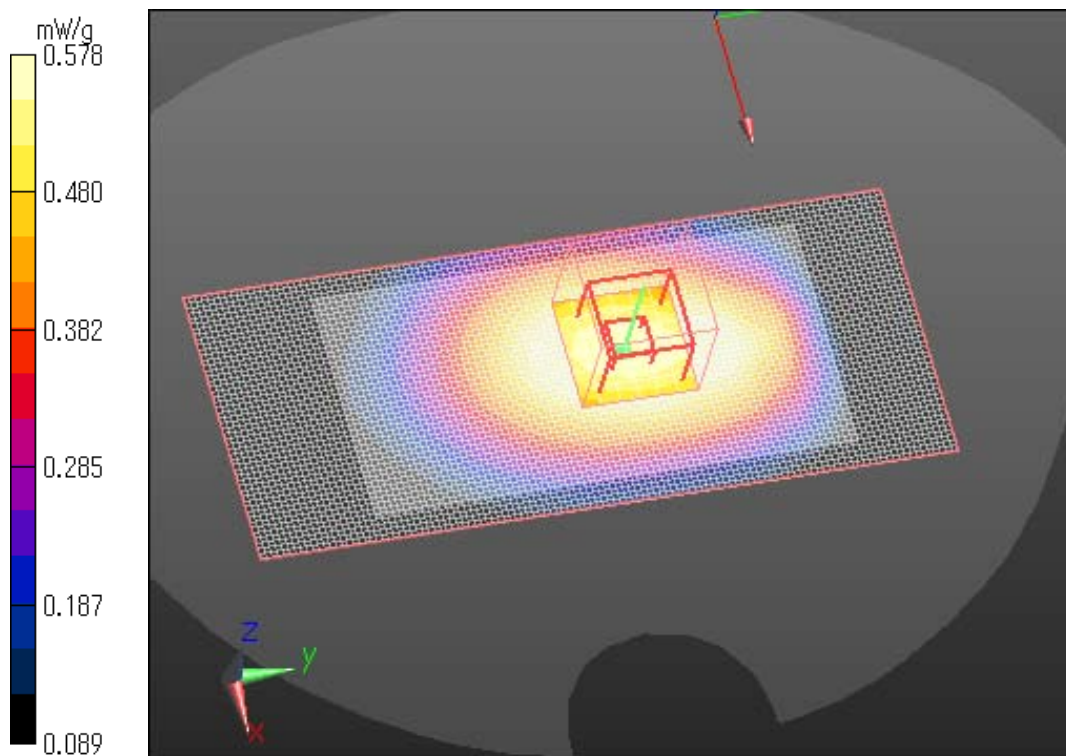
SAR(1 g) = 0.549 mW/g; SAR(10 g) = 0.414 mW/g

Maximum value of SAR (measured) = 0.578 mW/g

Test Date = 01/27/2011

Ambient Temperature = 24.0 degree.c

Liquid Temperature = Before 21.8degree.C , After 21.8 degree.C



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KMP7N4Y1-2A Body Back 15mm 12.2k RMC WCDMA V 826.4MHz

Communication System: WCDMA V 835M; Communication System Band: WCDMA V band; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.29, 10.29, 10.29); Calibrated: 2010/02/19
- Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Flat-Section MSL/Flat Section 15mm/Area Scan 2 (51x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.652 mW/g

Flat-Section MSL/Flat Section 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.615 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.727 W/kg

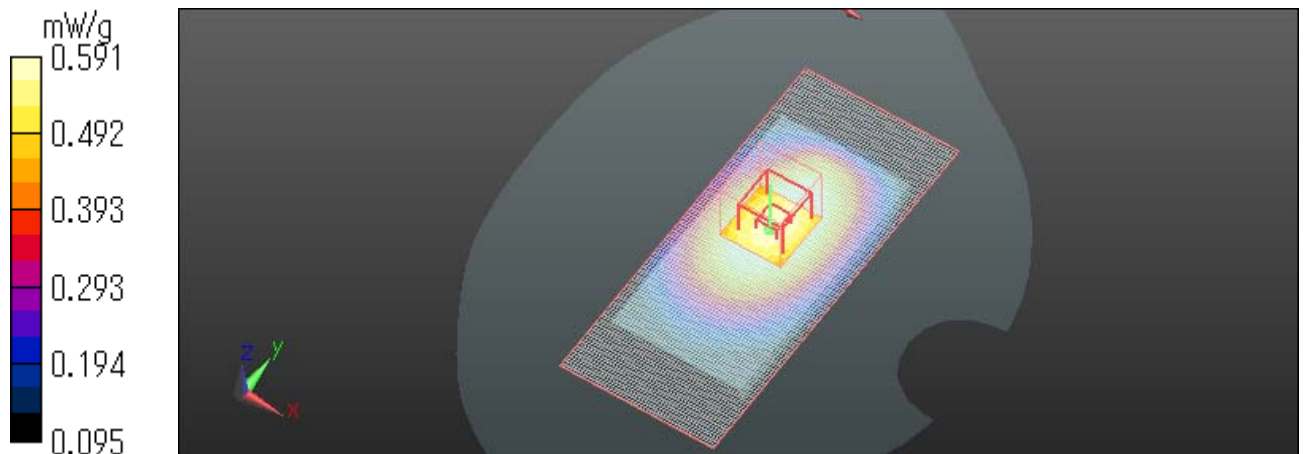
SAR(1 g) = 0.559 mW/g; SAR(10 g) = 0.422 mW/g

Maximum value of SAR (measured) = 0.591 mW/g

Test Date = 01/27/2011

Ambient Temperature = 24.0 degree.c

Liquid Temperature = Before 21.8degree.C , After 21.8 degree.C



KMP7N4Y1-2A Body Back 15mm 12.2k RMC WCDMA V 846.6MHz

Communication System: WCDMA V 835M; Communication System Band: WCDMA V band; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(10.29, 10.29, 10.29); Calibrated: 2010/02/19
- Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Flat-Section MSL/Flat Section 15mm/Area Scan 2 (51x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.669 mW/g

Flat-Section MSL/Flat Section 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.576 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.743 W/kg

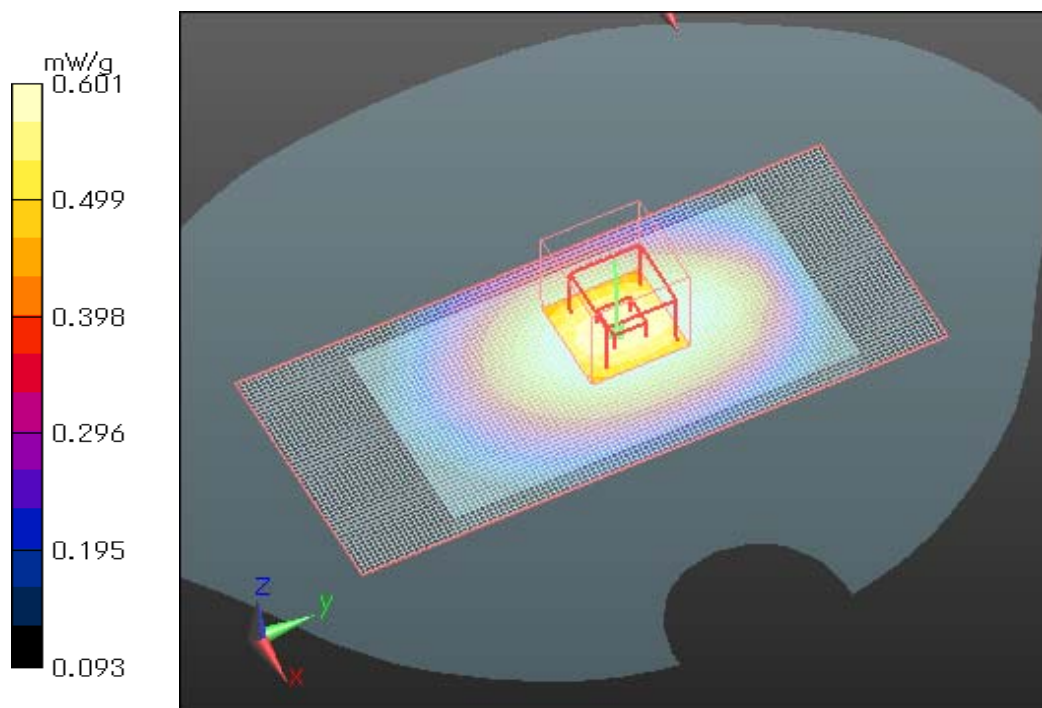
SAR(1 g) = 0.574 mW/g; SAR(10 g) = 0.428 mW/g

Maximum value of SAR (measured) = 0.601 mW/g

Test Date = 01/27/2011

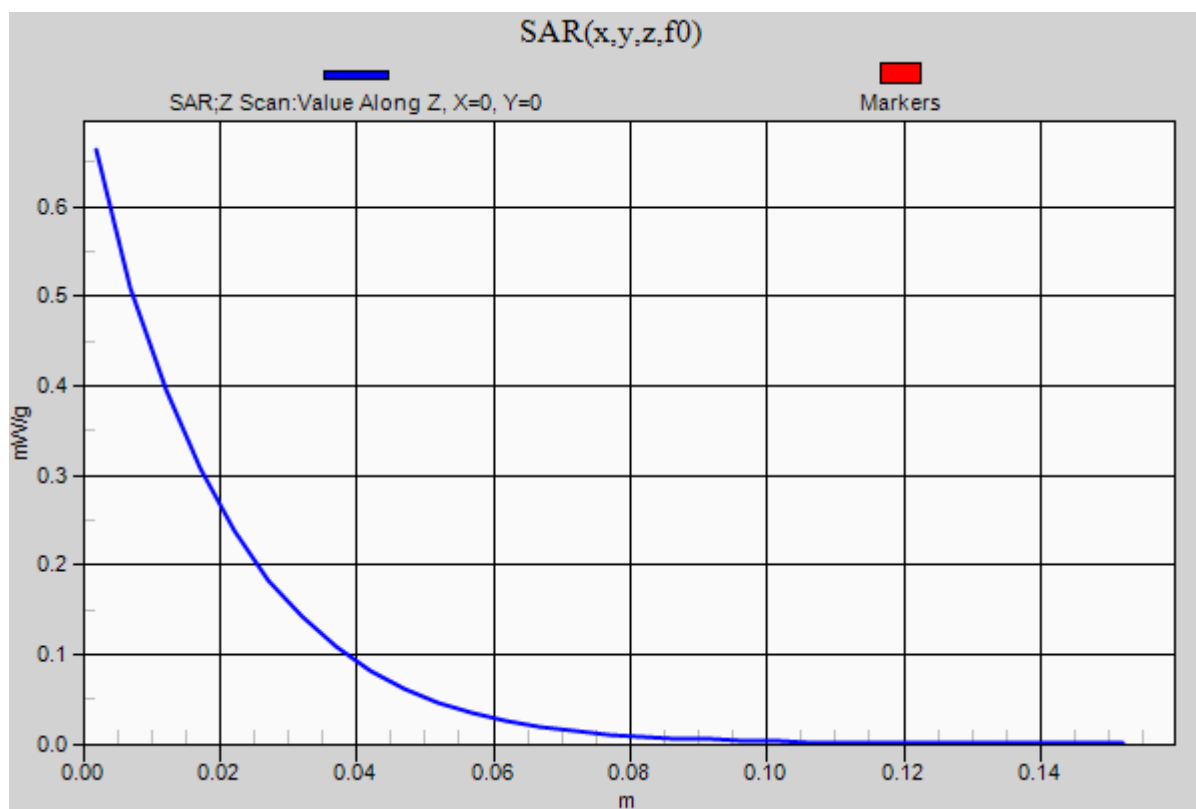
Ambient Temperature = 24.0 degree.c

Liquid Temperature = Before 21.8degree.C , After 21.8 degree.C



Z-axis scan at max SAR location

KMP7N4Y1-2A Body Back 15mm 12.2k RMC WCDMA V 846.6MHz



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iv)WLAN

KMP7N4Y1-2A Body Rear 15mm WLAN 11b 5.5Mbps 2437MHz

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(3.96, 3.96, 3.96); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Flat-Section MSL/Flat Section 15mm/Area Scan 2 (51x121x1): Measurement grid: dx=15mm, dy=15mm

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

Flat-Section MSL/Flat Section 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.802 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.299 W/kg

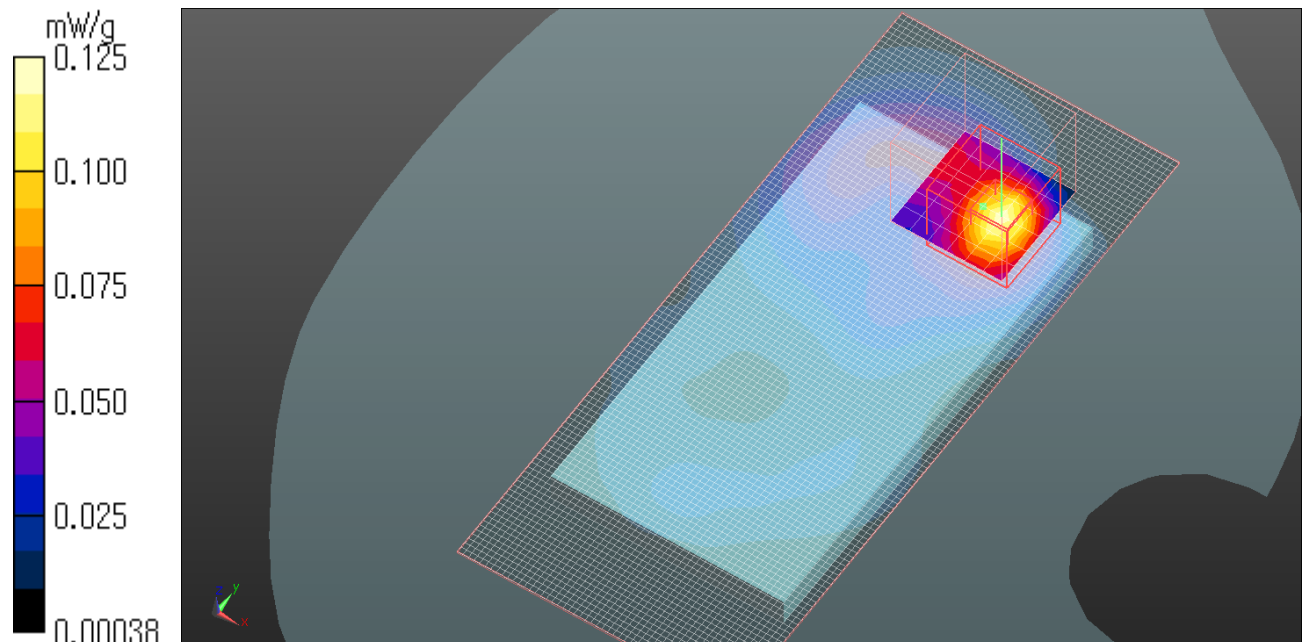
SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.047 mW/g

Maximum value of SAR (measured) = 0.125 mW/g

Test Date = 02/02/2011

Ambient Temperature = 24.0 degree.C.

Liquid Temperature = Before 23.4degree.C. , After 23.4 degree.C.



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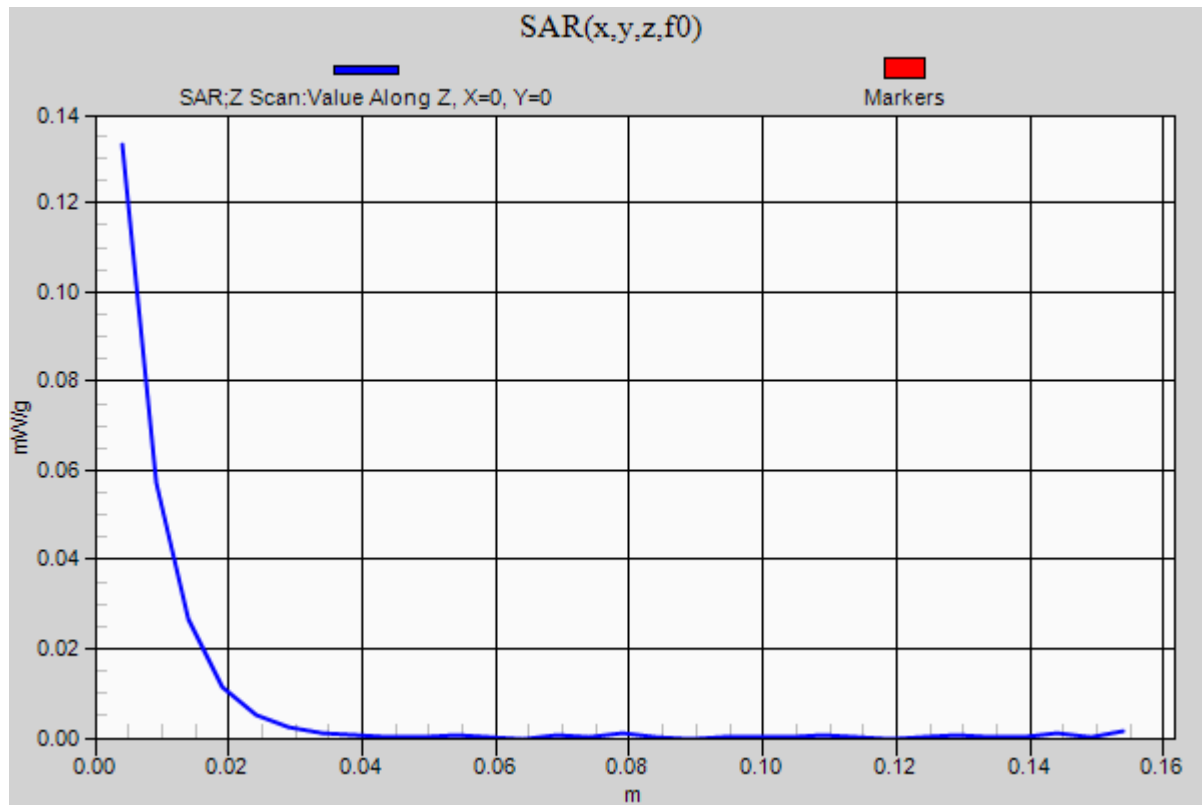
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Z-axis scan at max SAR location

KMP7N4Y1-2A Body Rear 15mm WLAN 11b 5.5Mbps 2437MHz



KMP7N4Y1-2A Body Rear 15mm WLAN 11b 1Mbps 2437MHz

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(3.96, 3.96, 3.96); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Flat-Section MSL/Flat Section 15mm/Area Scan 2 (51x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.092 mW/g

Flat-Section MSL/Flat Section 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.537 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.223 W/kg

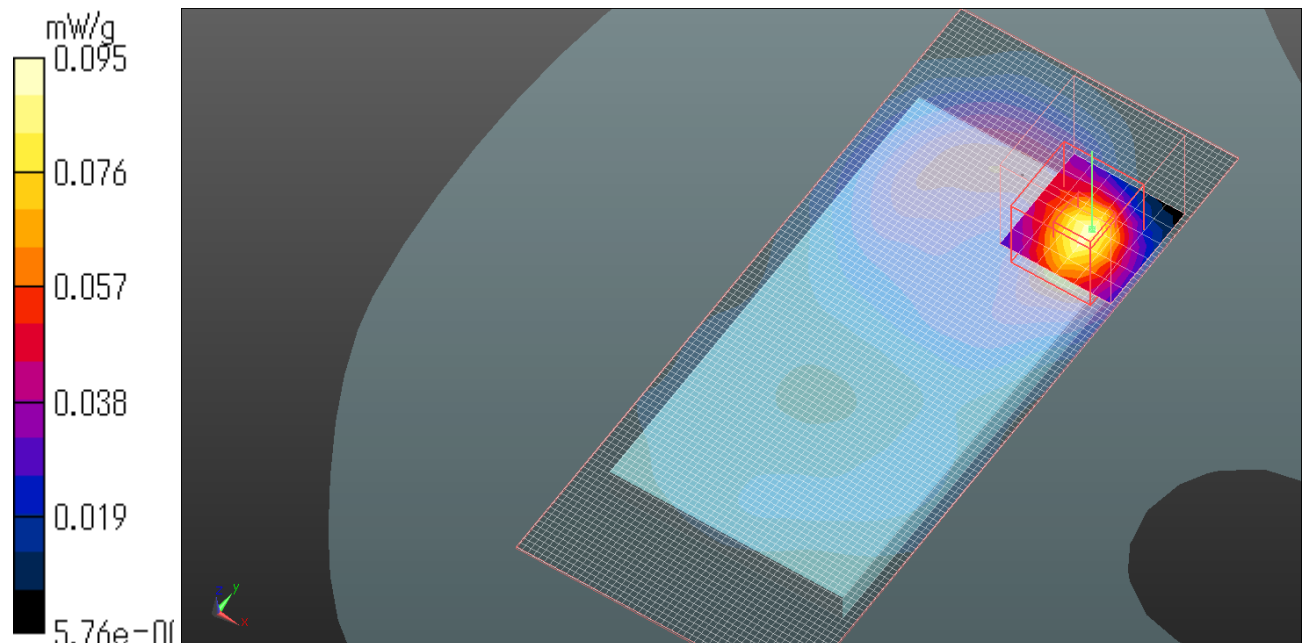
SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.095 mW/g

Test Date = 02/02/2011

Ambient Temperature = 24.0 degree.C.

Liquid Temperature = Before 23.4degree.C. , After 23.4 degree.C.



KMP7N4Y1-2A Body Rear 15mm WLAN 11b 5.5Mbps 2412MHz

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(3.96, 3.96, 3.96); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Flat-Section MSL/Flat Section 15mm/Area Scan 2 (51x121x1): Measurement grid: dx=15mm, dy=15mm

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

Flat-Section MSL/Flat Section 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.234 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.149 W/kg

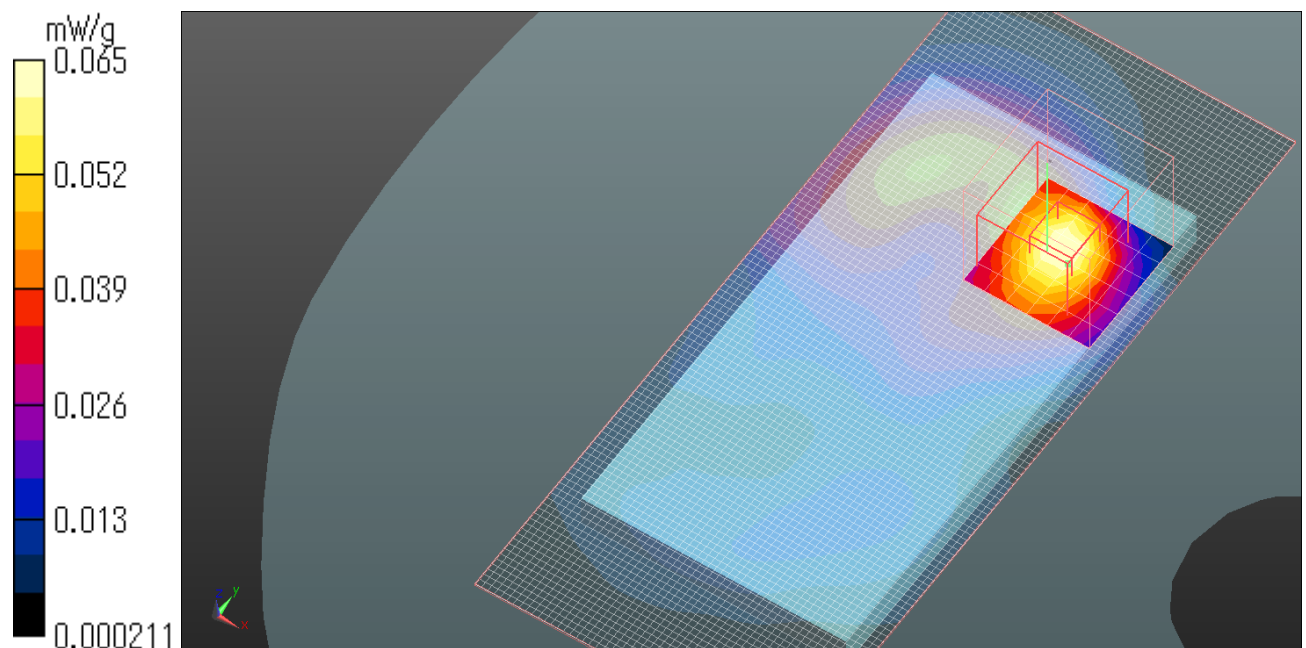
SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.029 mW/g

Maximum value of SAR (measured) = 0.065 mW/g

Test Date = 02/02/2011

Ambient Temperature = 24.0 degree.C.

Liquid Temperature = Before 23.4degree.C. , After 23.4 degree.C.



KMP7N4Y1-2A Body Rear 15mm WLAN 11b 5.5Mbps 2462MHz

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: ET3DV6 - SN1740; ConvF(3.96, 3.96, 3.96); Calibrated: 2010/12/14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn509; Calibrated: 2010/07/07
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASYS2, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Flat-Section MSL/Flat Section 15mm/Area Scan 2 (51x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.095 mW/g

Flat-Section MSL/Flat Section 15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.934 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.205 W/kg

SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.038 mW/g

Maximum value of SAR (measured) = 0.092 mW/g

Test Date = 02/02/2011

Ambient Temperature = 24.0 degree.C.

Liquid Temperature = Before 23.4degree.C. , After 23.4 degree.C.

