

APPENDIX 1 : 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 15 mm x 15 mm (or 10mm x 10mm). 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 or more was assessed by measuring 7 x 7 x 7 points at least. 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) 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

1. GSM850 Head

KMP7N4AC1-3A_GSM850 (GSM)_836.6MHz_Left Cheek

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 (interpolated): $f = 836.6$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 42.081$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.02, 10.02, 10.02); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Left-Hand-Side HSL/Touch Position - Mid/Area Scan (91x141x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (interpolated) = 0.385 mW/g

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

Reference Value = 8.095 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.399 W/kg

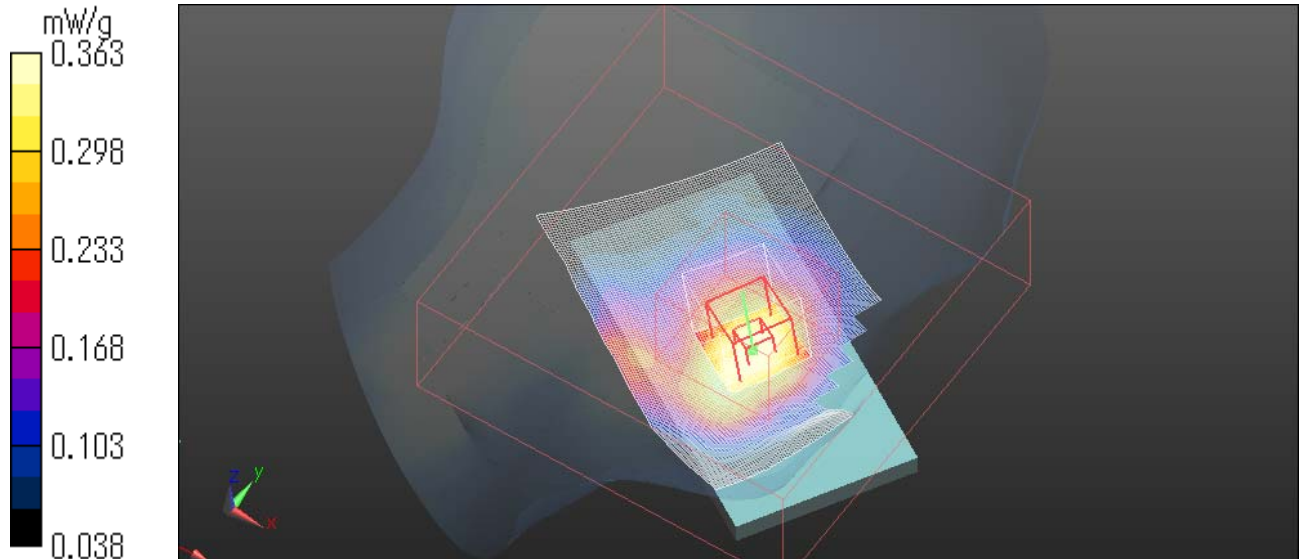
SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.218 mW/g

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

Maximum value of SAR (measured) = 0.363 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_GSM850 (GSM)_836.6MHz_Left tilt

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 (interpolated): $f = 836.6$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 42.081$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.02, 10.02, 10.02); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Left-Hand-Side HSL/Tilt Position - Mid/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (interpolated) = 0.348 mW/g

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

Reference Value = 14.642 V/m; Power Drift = -0.10dB

Peak SAR (extrapolated) = 0.374 W/kg

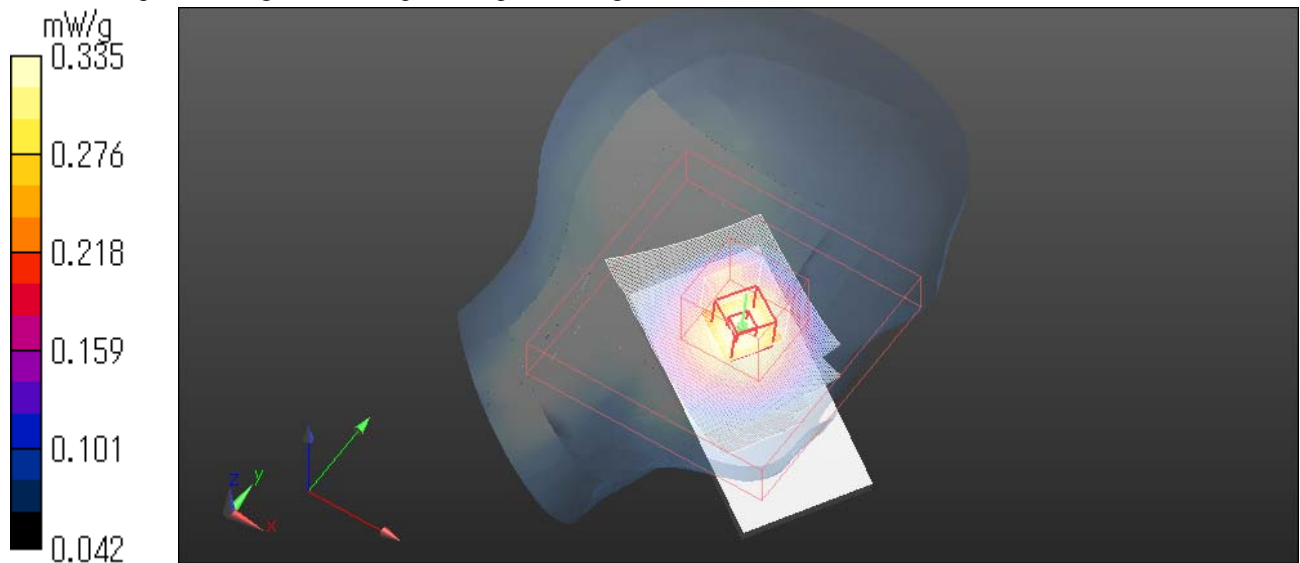
SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.205 mW/g

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

Maximum value of SAR (measured) = 0.335 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_GSM850 (GSM)_836.6MHz_Right Cheek

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 (interpolated): $f = 836.6$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 42.081$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.02, 10.02, 10.02); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Right-Hand-Side HSL/Touch Position - Mid/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (interpolated) = 0.532 mW/g

Right-Hand-Side HSL/Touch Position - Mid/Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.959 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.539 W/kg

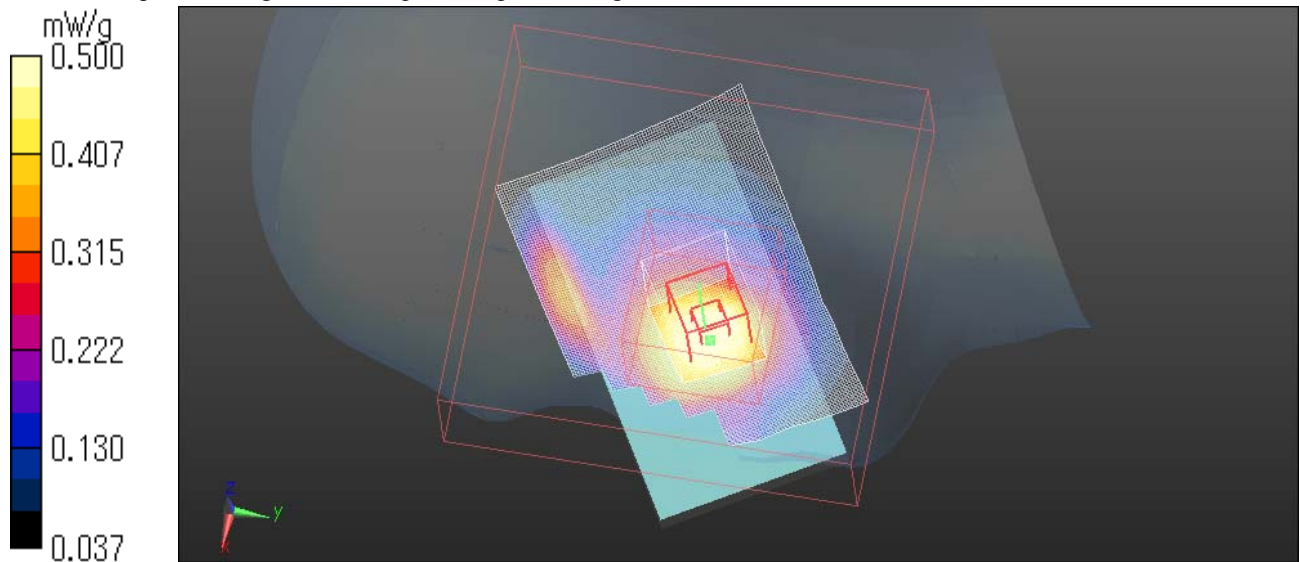
SAR(1 g) = 0.436 mW/g; SAR(10 g) = 0.318 mW/g

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

Maximum value of SAR (measured) = 0.500 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



Z Scan at maximum SAR position in GSM850 Head**KMP7N4AC1-3A_GSM850 (GSM)_836.6MHz_Right Cheek**

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 (interpolated): $f = 836.6$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 42.081$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.02, 10.02, 10.02); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

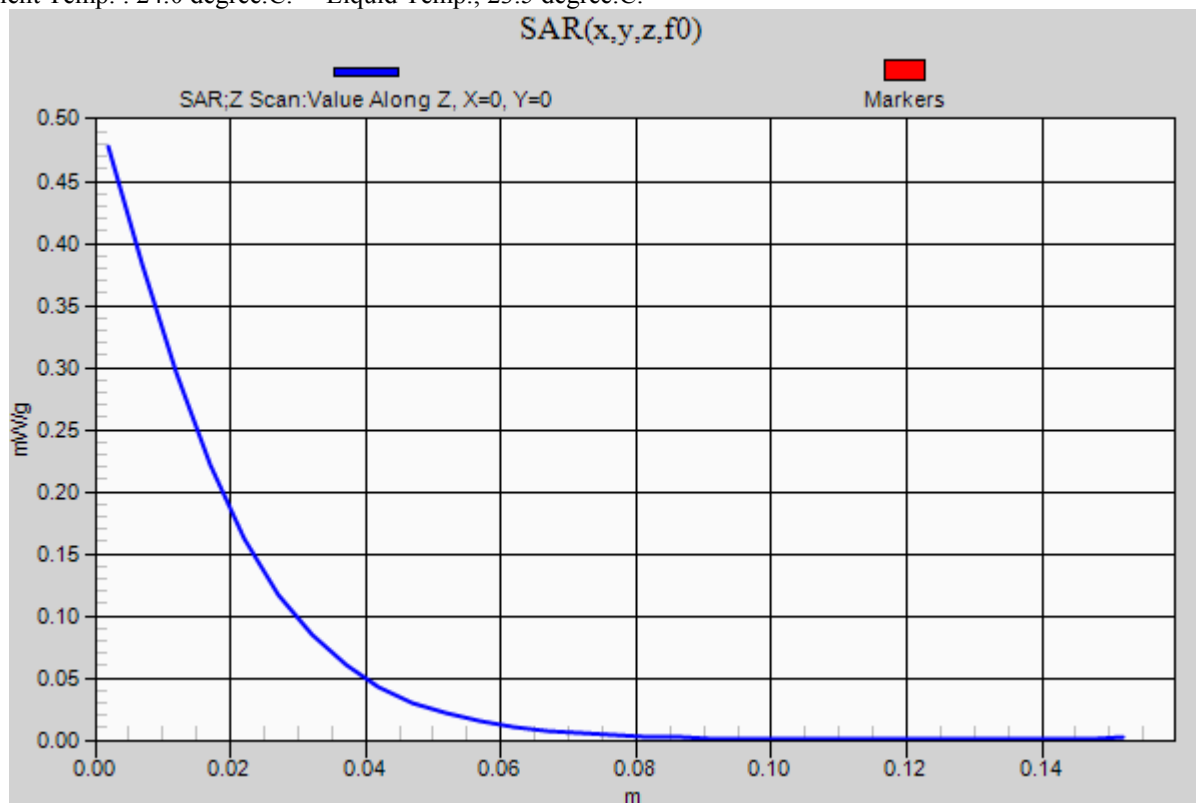
Right-Hand-Side HSL/Touch Position - Mid/Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

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

Maximum value of SAR (measured) = 0.478 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_GSM850 (GSM)_836.6MHz_Right Tilt

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 (interpolated): $f = 836.6$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 42.081$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.02, 10.02, 10.02); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Right-Hand-Side HSL/Tilt Position - Mid/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm

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

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

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

Reference Value = 15.727 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.402 W/kg

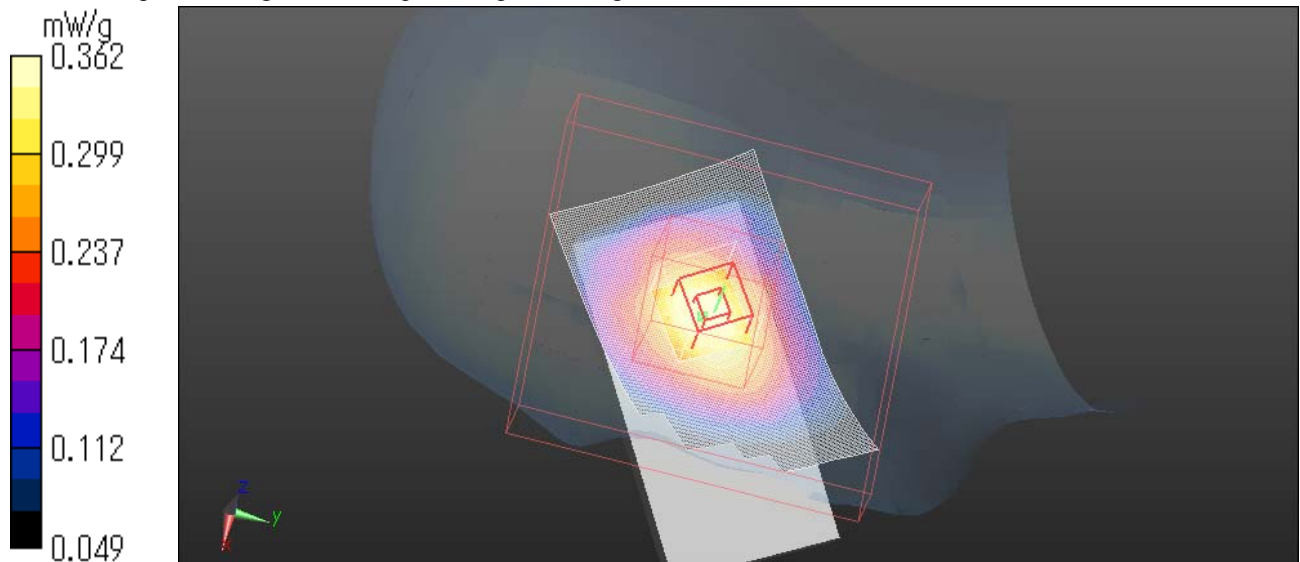
SAR(1 g) = 0.305 mW/g; SAR(10 g) = 0.222 mW/g

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

Maximum value of SAR (measured) = 0.362 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



UL Japan, Inc.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

KMP7N4AC1-3A_GSM850 (GPRS 1slot)_836.6MHz_Right cheek

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 (interpolated): $f = 836.6$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 42.081$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.02, 10.02, 10.02); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Right-Hand-Side HSL/Touch Position - GPRS Mid/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (interpolated) = 0.485 mW/g

Right-Hand-Side HSL/Touch Position - GPRS Mid/Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.977 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.505 W/kg

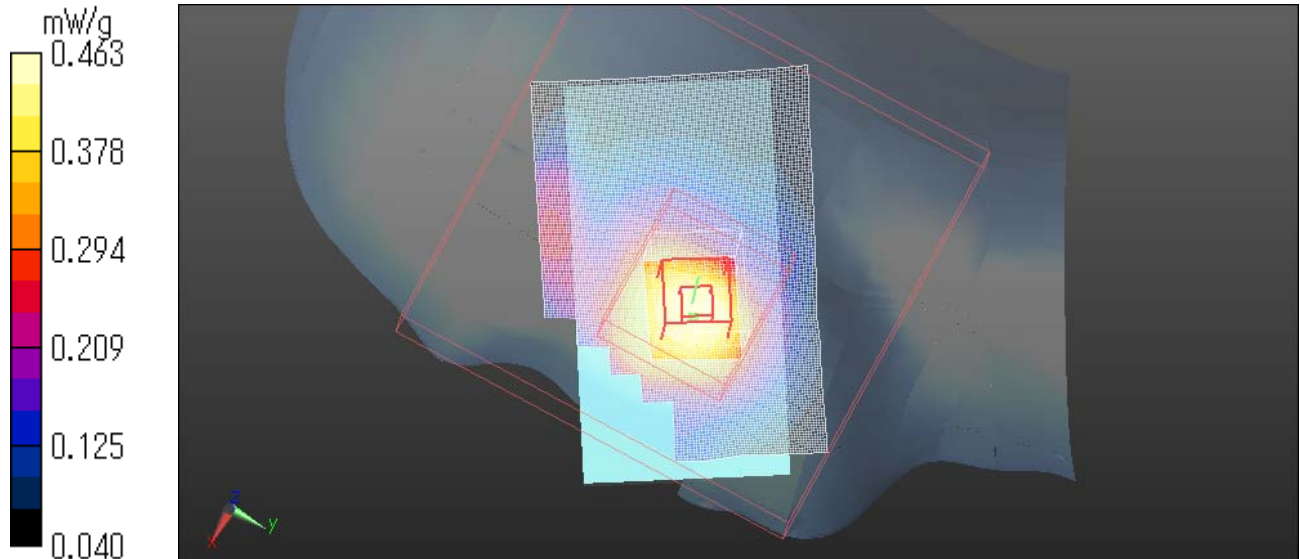
SAR(1 g) = 0.402 mW/g; SAR(10 g) = 0.293 mW/g

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

Maximum value of SAR (measured) = 0.463 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



2. GSM850 Body

KMP7N4AC1-3A_GSM850(GPRS)_Body_1slot_836.6MHz_Front_10mm

Communication System: GSM850; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 53.335$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.29, 10.29, 10.29); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Configuration/Flat - Mid/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 24.987 V/m; Power Drift = -0.20 dB

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

Maximum value of SAR (interpolated) = 0.631 mW/g

Configuration/Flat - Mid/Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.987 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.6770

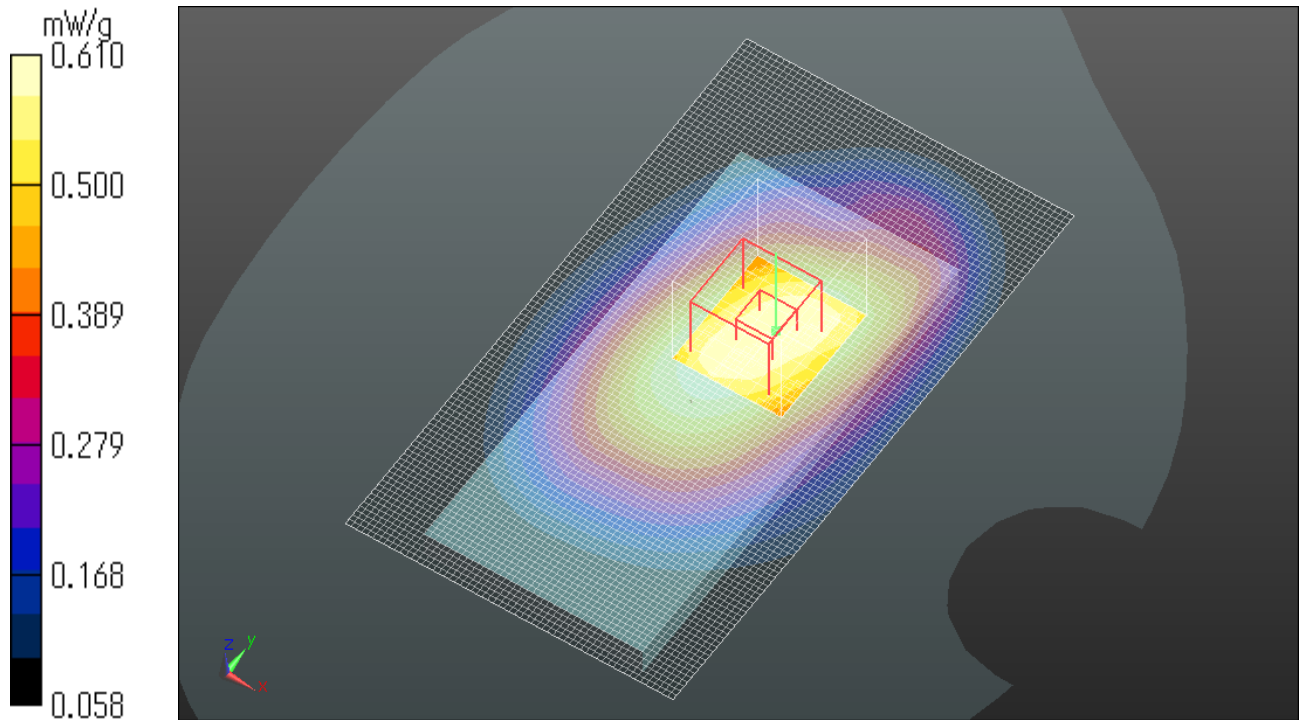
SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.398 mW/g

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

Maximum value of SAR (measured) = 0.610 mW/g

Date: 2011/12/19

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_GSM850(GPRS)_Body_1slot_836.6MHz_Rear_10mm

Communication System: GSM850; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 53.335$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.29, 10.29, 10.29); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Configuration/Flat - Mid/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 29.917 V/m; Power Drift = -0.52 dB

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

Maximum value of SAR (interpolated) = 0.891 mW/g

Configuration/Flat - Mid/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.917 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.9230

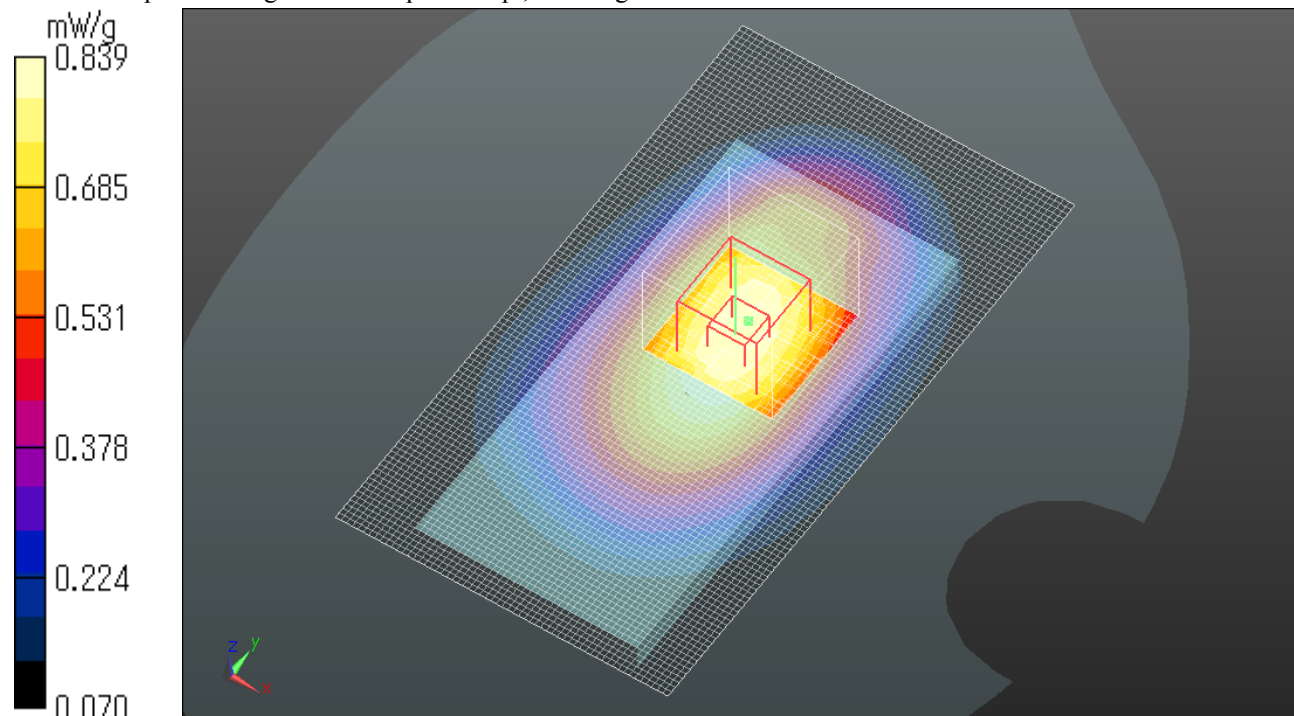
SAR(1 g) = 0.720 mW/g; SAR(10 g) = 0.535 mW/g

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

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

Date: 2011/12/19

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



Z Scan at maximum SAR position in GSM850 Body**KMP7N4AC1-3A_GSM850(GPRS)_Body_1slot_836.6MHz_Rear_10mm**

Communication System: GSM850; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 53.335$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.29, 10.29, 10.29); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

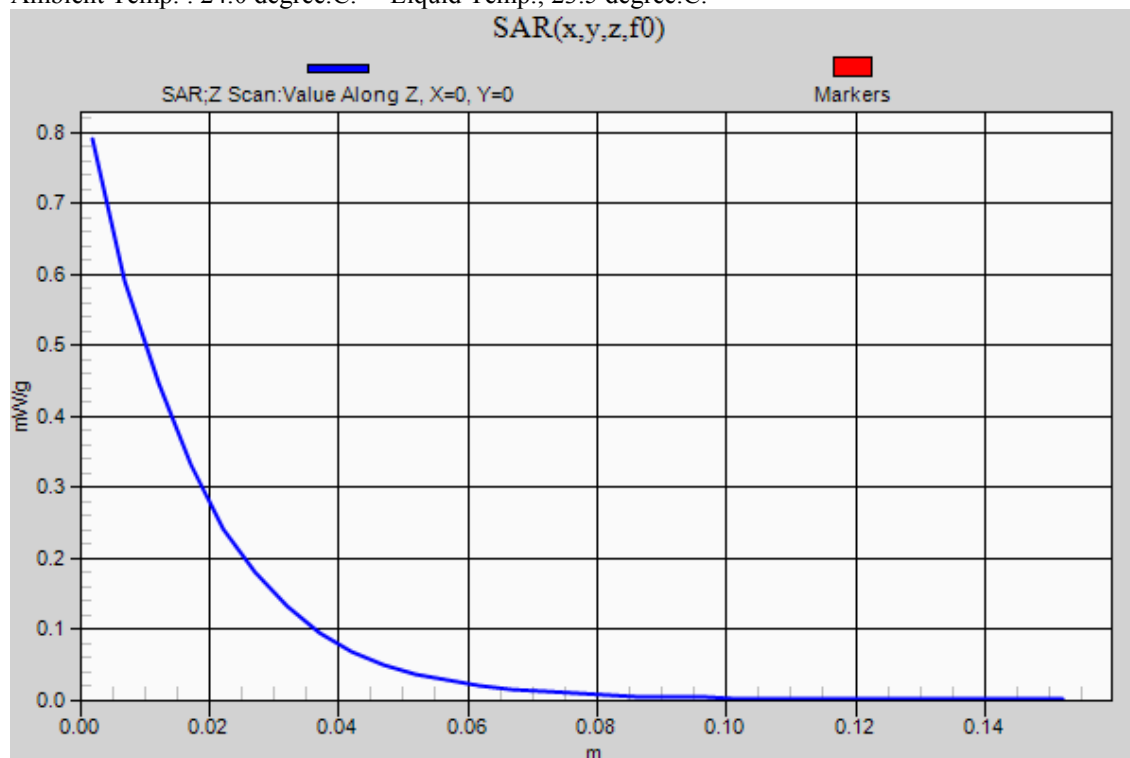
Configuration/Flat - Mid/Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

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

Maximum value of SAR (measured) = 0.791 mW/g

Date: 2011/12/19

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



UL Japan, Inc.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

KMP7N4AC1-3A_GSM850(GPRS)_Body_1slot_836.6MHz_Left edge_10mm

Communication System: GSM850; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 53.335$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.29, 10.29, 10.29); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Configuration/Flat - Mid Left/Area Scan (41x111x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.392 mW/g

Configuration/Flat - Mid Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.821 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 0.4440

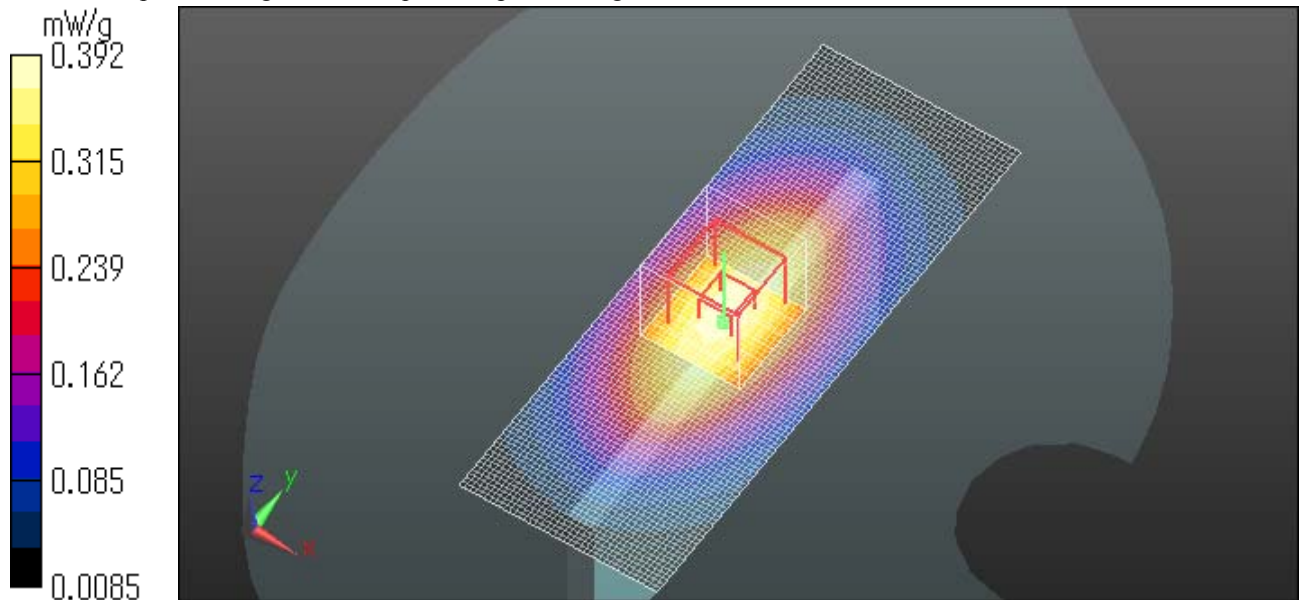
SAR(1 g) = 0.316 mW/g; SAR(10 g) = 0.223 mW/g

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

Maximum value of SAR (measured) = 0.385 mW/g

Date: 2011/12/19

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_GSM850(GPRS)_Body_1slot_836.6MHz_Right edge_10mm

Communication System: GSM850; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 53.335$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.29, 10.29, 10.29); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Configuration/Flat - Mid /Area Scan (41x111x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.385 mW/g

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

Reference Value = 20.081 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.4350

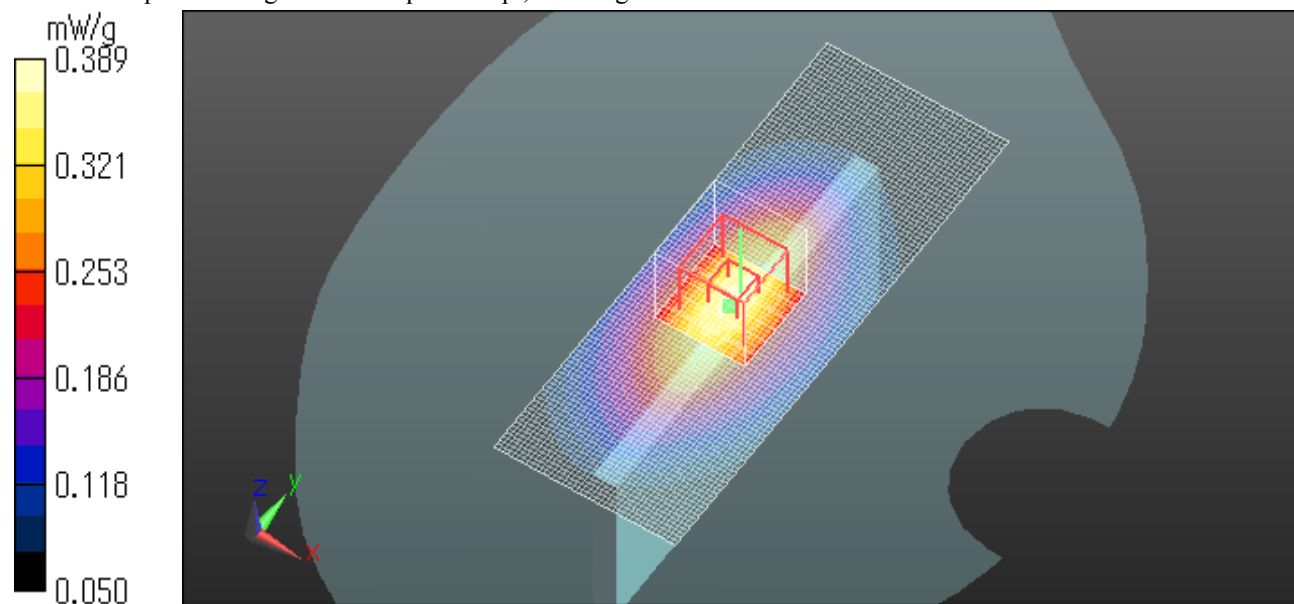
SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.224 mW/g

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

Maximum value of SAR (measured) = 0.389 mW/g

Date: 2011/12/19

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_GSM850(GPRS)_Body_1slot_836.6MHz_Bottom edge_10mm

Communication System: GSM850; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 53.335$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.29, 10.29, 10.29); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Configuration/Flat - Mid/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.096 mW/g

Configuration/Flat - Mid/Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.329 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.1380

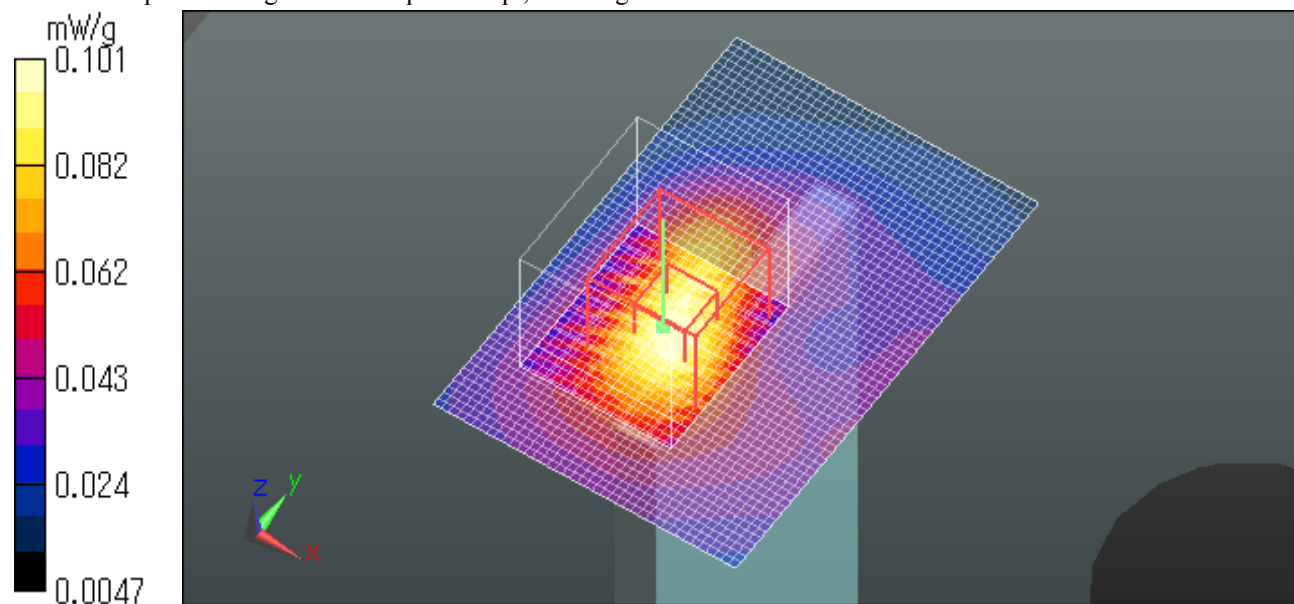
SAR(1 g) = 0.074 mW/g; SAR(10 g) = 0.042 mW/g

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

Maximum value of SAR (measured) = 0.101 mW/g

Date: 2011/12/19

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



3. PCS1900 Head

KMP7N4AC1-3A_PCS1900(GSM)_1880.0MHz_Left_Cheek

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; $\sigma = 1.456$ mho/m; $\epsilon_r = 39.229$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(8.65, 8.65, 8.65); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Left-Hand-Side HSL/Touch Position - Mid/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 9.898 V/m; Power Drift = -0.08 dB

Maximum value of SAR (interpolated) = 0.957 mW/g

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

Reference Value = 9.898 V/m; Power Drift = -0.08 dB

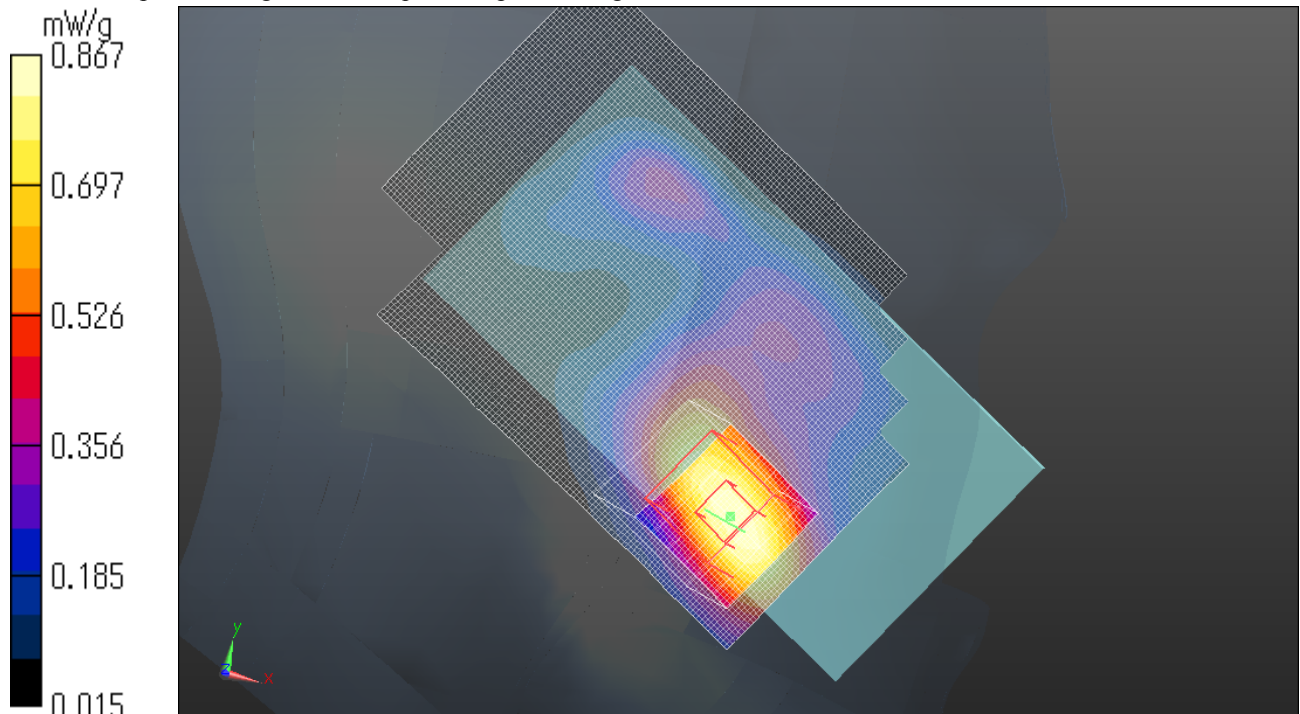
Peak SAR (extrapolated) = 1.0440

SAR(1 g) = 0.661 mW/g; SAR(10 g) = 0.391 mW/g

Maximum value of SAR (measured) = 0.867 mW/g

Date: 2011/12/16

Ambient Temp. : 23.5 degree.C. Liquid Temp.; 23.0 degree.C.



ZScan at Maximum SAR location in PCS1900 Head**KMP7N4AC1-3A_PCS1900(GSM)_1880.0MHz_Left_Cheek**

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; $\sigma = 1.456$ mho/m; $\epsilon_r = 39.229$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(8.65, 8.65, 8.65); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

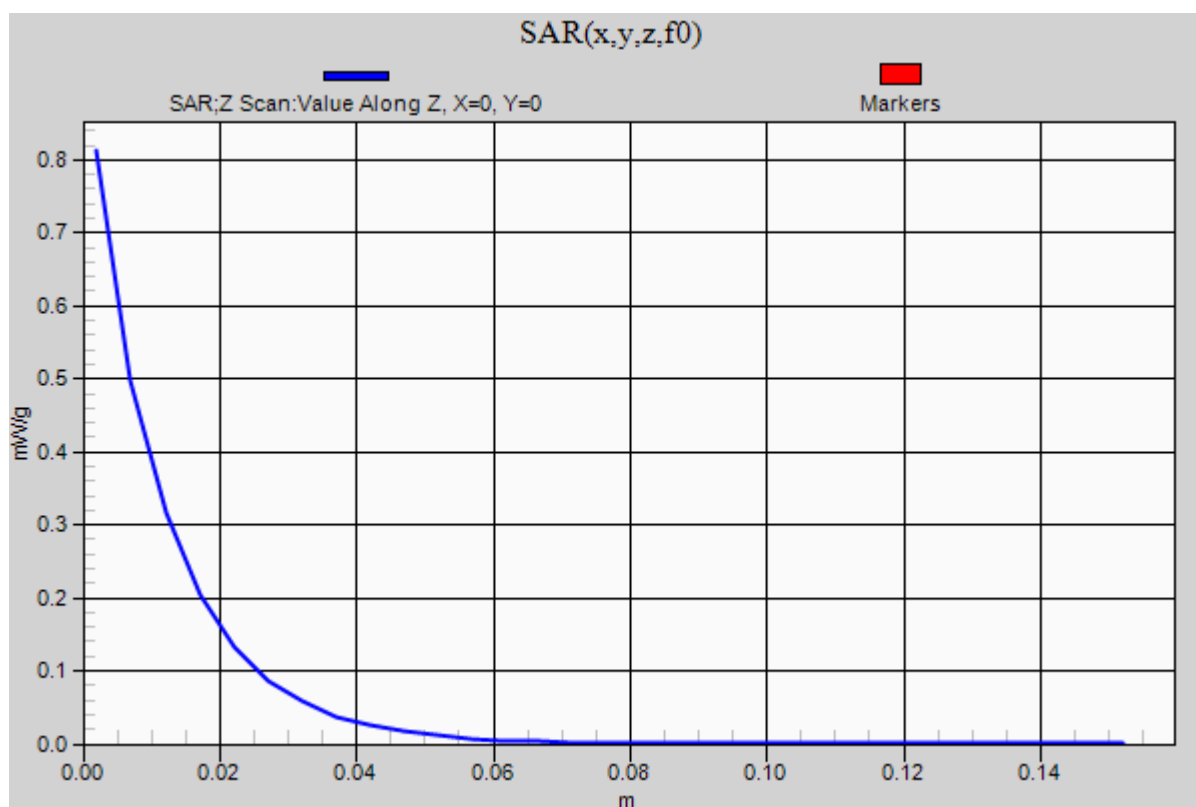
Measurement SW: DASY52, Version 52.8 (0);

Left-Hand-Side HSL/Touch Position - Mid/Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

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

Date: 2011/12/16

Ambient Temp. : 23.5 degree.C. Liquid Temp.; 23.0 degree.C.



KMP7N4AC1-3A_PCS1900(GSM)_1880.0MHz_Left_Tilt

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; $\sigma = 1.456$ mho/m; $\epsilon_r = 39.229$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(8.65, 8.65, 8.65); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Left-Hand-Side HSL/Tilt Position - Mid/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 10.750 V/m; Power Drift = -0.18 dB

Maximum value of SAR (interpolated) = 0.218 mW/g

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

Reference Value = 10.750 V/m; Power Drift = -0.18 dB

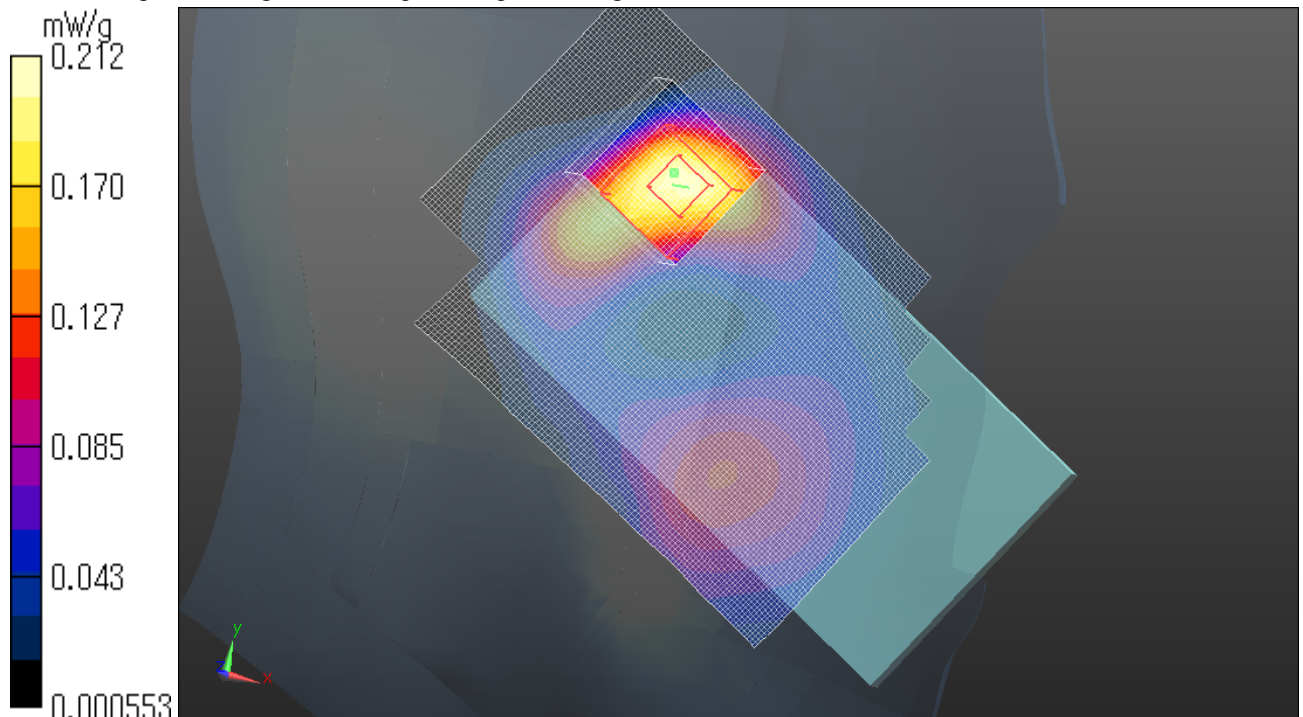
Peak SAR (extrapolated) = 0.2490

SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.094 mW/g

Maximum value of SAR (measured) = 0.212 mW/g

Date: 2011/12/16

Ambient Temp. : 23.5 degree.C. Liquid Temp.; 23.0 degree.C.



KMP7N4AC1-3A_PCS1900(GSM)_1880.0MHz_Right_Cheek

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; $\sigma = 1.456$ mho/m; $\epsilon_r = 39.229$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(8.65, 8.65, 8.65); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Right-Hand-Side HSL/Touch Position - Mid/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 8.741 V/m; Power Drift = -0.17 dB

Maximum value of SAR (interpolated) = 0.567 mW/g

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

Reference Value = 8.741 V/m; Power Drift = -0.17 dB

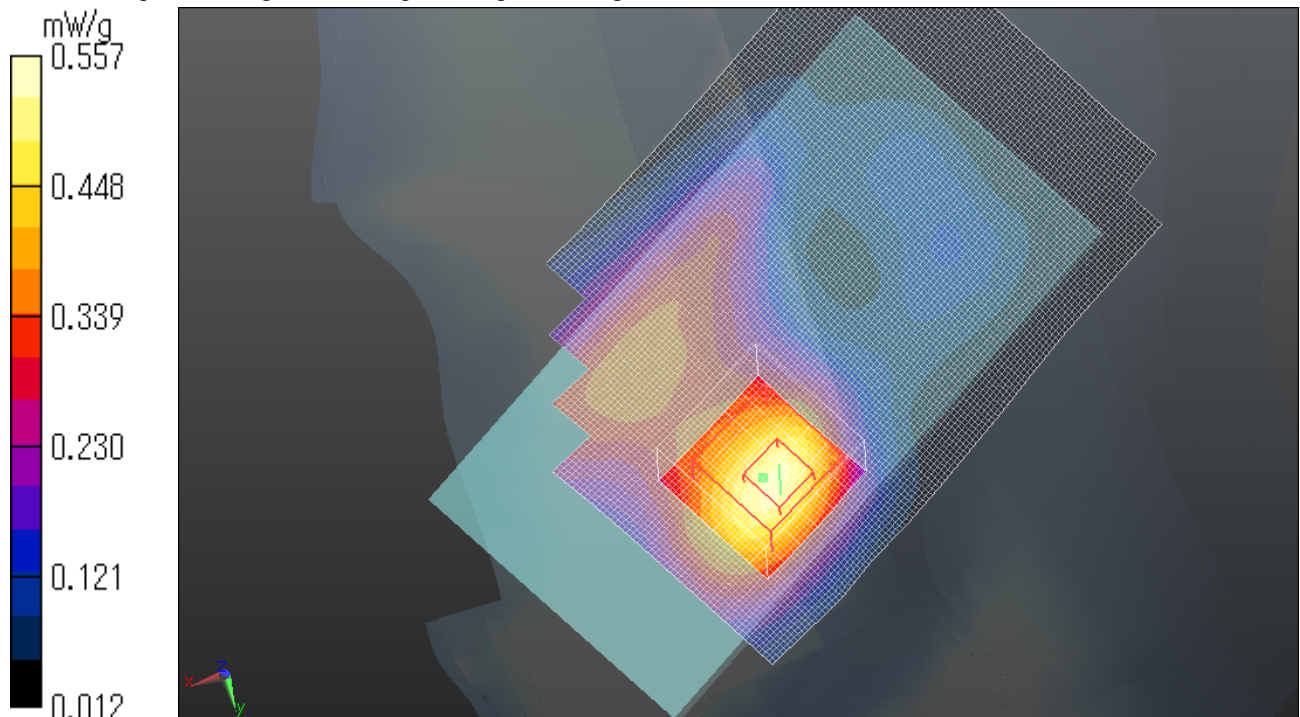
Peak SAR (extrapolated) = 0.6690

SAR(1 g) = 0.430 mW/g; SAR(10 g) = 0.261 mW/g

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

Date: 2011/12/16

Ambient Temp. : 23.5 degree.C. Liquid Temp.; 23.0 degree.C.



KMP7N4AC1-3A_PCS1900(GSM)_1880.0MHz_Right_Tilt

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; $\sigma = 1.456$ mho/m; $\epsilon_r = 39.229$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(8.65, 8.65, 8.65); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Right-Hand-Side HSL/Tilt Position - Mid/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 11.168 V/m; Power Drift = -0.05 dB

Maximum value of SAR (interpolated) = 0.203 mW/g

Right-Hand-Side HSL/Tilt Position - Mid/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.168 V/m; Power Drift = -0.05 dB

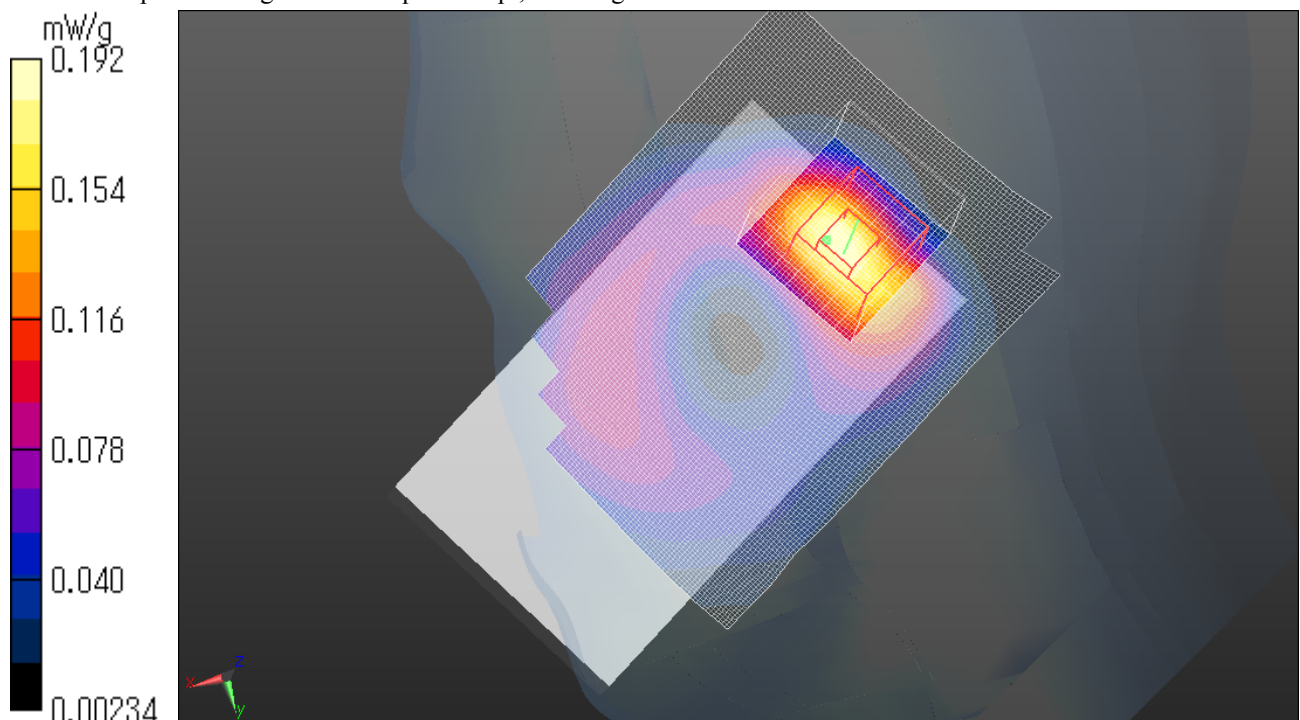
Peak SAR (extrapolated) = 0.2430

SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.083 mW/g

Maximum value of SAR (measured) = 0.192 mW/g

Date: 2011/12/16

Ambient Temp. : 23.5 degree.C. Liquid Temp.; 23.0 degree.C.



KMP7N4AC1-3A_PCS1900(GPRS)_1880.0MHz_Left_Cheek

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; $\sigma = 1.456$ mho/m; $\epsilon_r = 39.229$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(8.65, 8.65, 8.65); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Left-Hand-Side HSL/Touch Position - Mid/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 8.786 V/m; Power Drift = -0.10 dB

Maximum value of SAR (interpolated) = 0.776 mW/g

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

Reference Value = 8.786 V/m; Power Drift = -0.10 dB

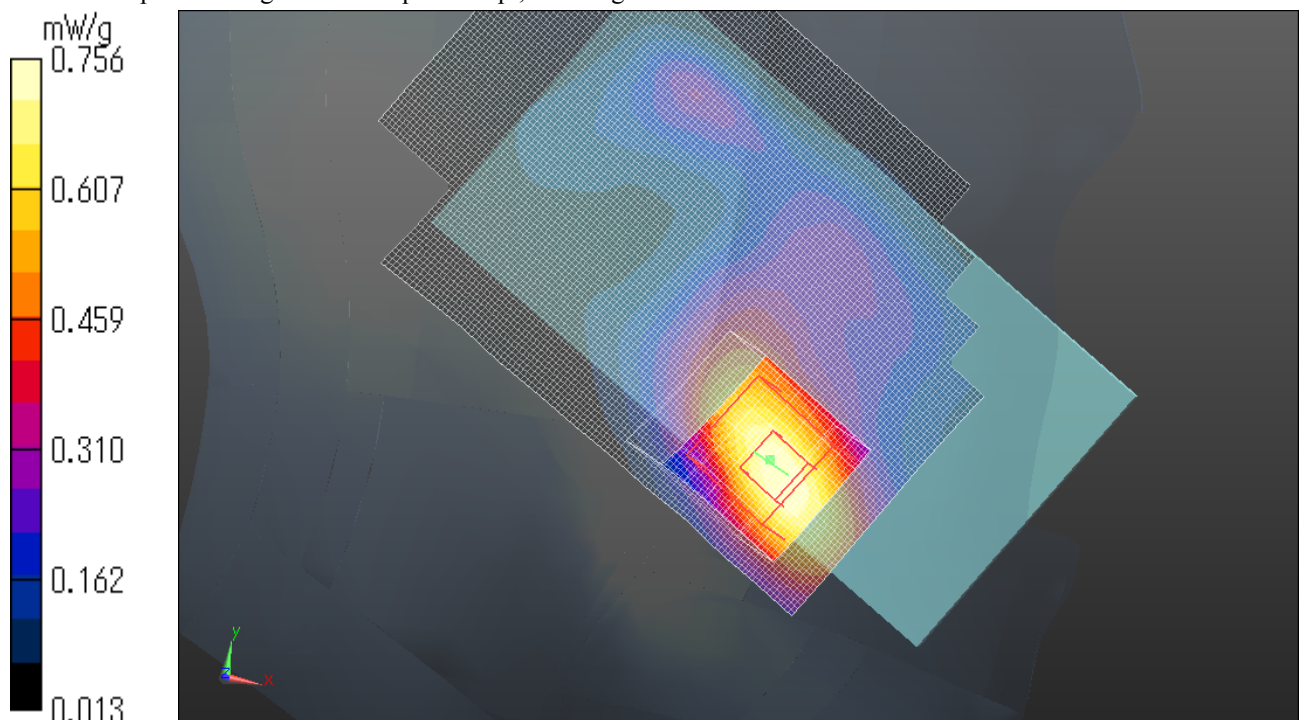
Peak SAR (extrapolated) = 0.9210

SAR(1 g) = 0.581 mW/g; SAR(10 g) = 0.341 mW/g

Maximum value of SAR (measured) = 0.756 mW/g

Date: 2011/12/16

Ambient Temp. : 23.5 degree.C. Liquid Temp.; 23.0 degree.C.



4. PCS1900 Body

KMP7N4AC1-3A_PCS1900(GPRS)_Body_1slot_1880.0MHz_Front_10mm

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; $\sigma = 1.557$ mho/m; $\epsilon_r = 51.087$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.95, 7.95, 7.95); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Configuration/Flat - Mid/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.846 V/m; Power Drift = -0.10 dB

Maximum value of SAR (interpolated) = 1.063 mW/g

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

Reference Value = 9.846 V/m; Power Drift = -0.10 dB

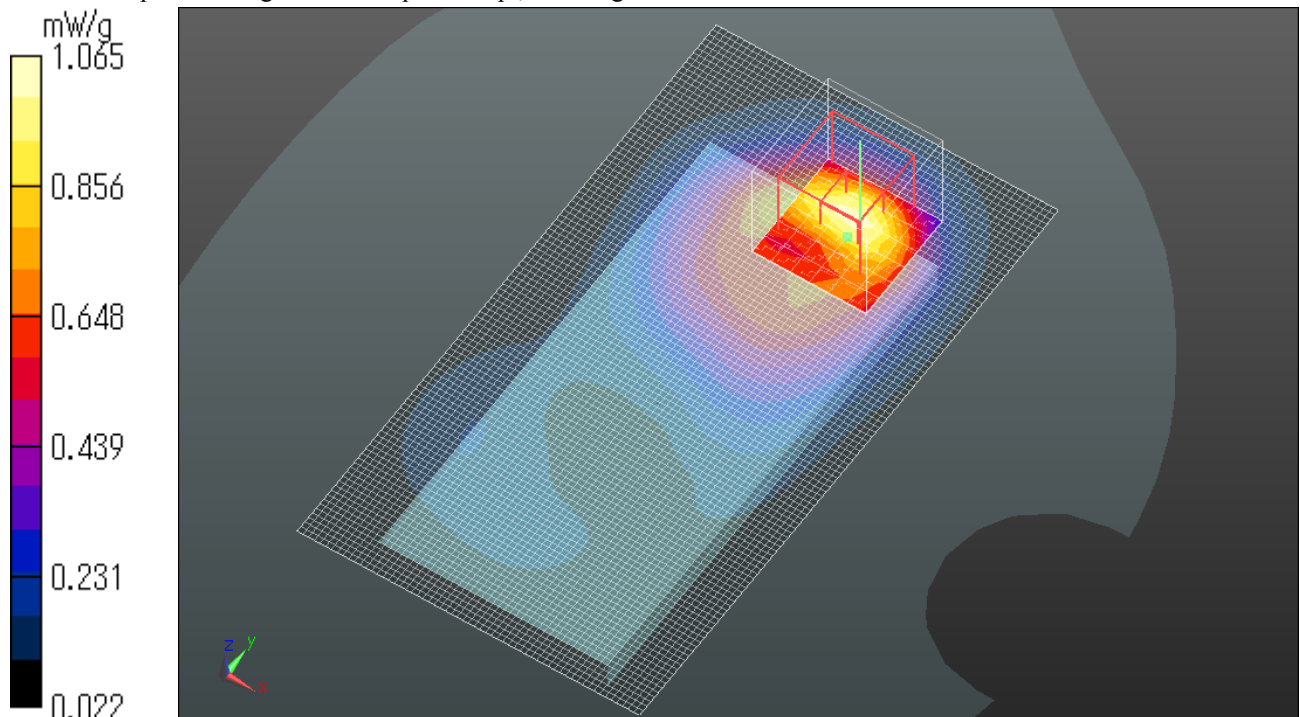
Peak SAR (extrapolated) = 1.3290

SAR(1 g) = 0.766 mW/g; SAR(10 g) = 0.424 mW/g

Maximum value of SAR (measured) = 1.065 mW/g

Date: 2011/12/18

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.0 degree.C.



KMP7N4AC1-3A_PCS1900(GPRS)_Body_1slot_1880.0MHz_Rear_10mm

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; $\sigma = 1.557$ mho/m; $\epsilon_r = 51.087$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.95, 7.95, 7.95); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Configuration/Flat - Mid/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.329 V/m; Power Drift = -0.21 dB

Maximum value of SAR (interpolated) = 1.503 mW/g

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

Reference Value = 10.329 V/m; Power Drift = -0.21 dB

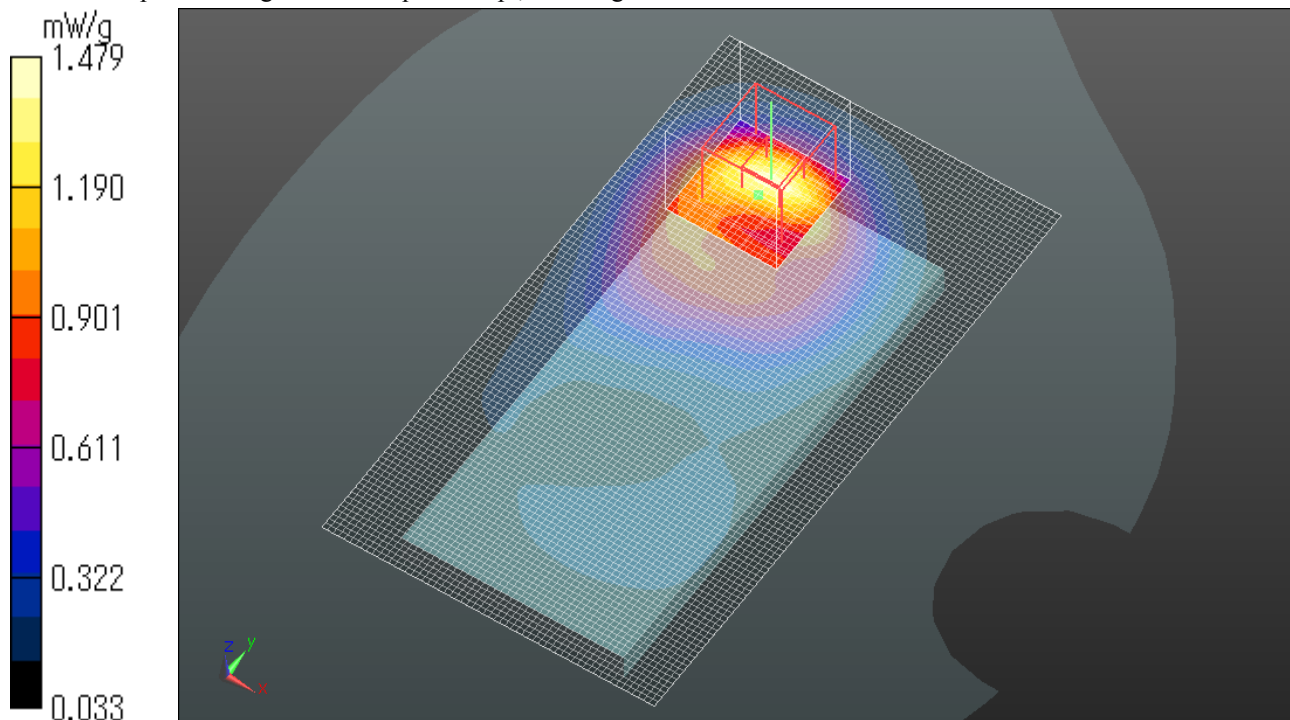
Peak SAR (extrapolated) = 1.8460

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.573 mW/g

Maximum value of SAR (measured) = 1.479 mW/g

Date: 2011/12/18

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.0 degree.C.



KMP7N4AC1-3A_PCS1900(GPRS)_Body_1slot_1880.0MHz_Left edge_10mm

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; $\sigma = 1.557$ mho/m; $\epsilon_r = 51.087$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.95, 7.95, 7.95); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Configuration/Flat - Mid/Area Scan (41x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.542 V/m; Power Drift = -0.15 dB

Maximum value of SAR (interpolated) = 0.111 mW/g

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

Reference Value = 6.542 V/m; Power Drift = -0.15 dB

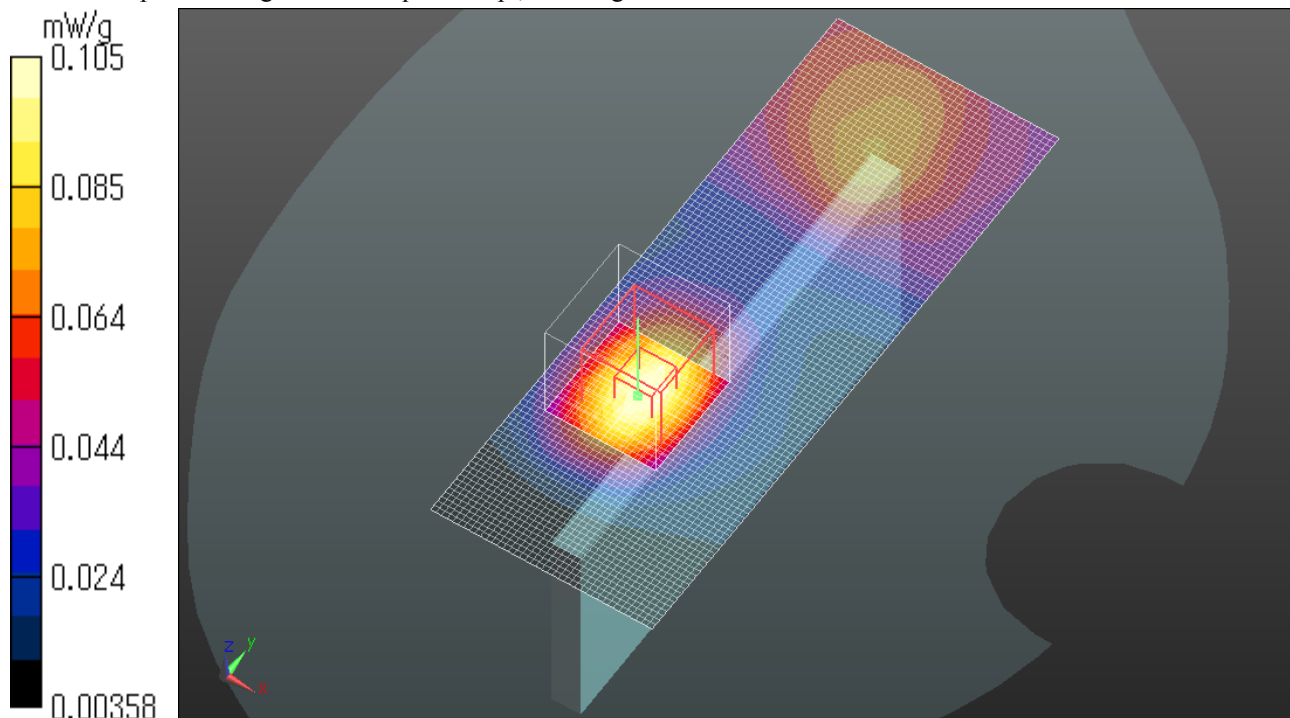
Peak SAR (extrapolated) = 0.1320

SAR(1 g) = 0.079 mW/g; SAR(10 g) = 0.047 mW/g

Maximum value of SAR (measured) = 0.105 mW/g

Date: 2011/12/18

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.0 degree.C.



KMP7N4AC1-3A_PCS1900(GPRS)_Body_1slot_1880.0MHz_Right edge_10mm

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; $\sigma = 1.557$ mho/m; $\epsilon_r = 51.087$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.95, 7.95, 7.95); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Configuration/Flat - Mid/Area Scan (41x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 8.360 V/m; Power Drift = -0.06 dB

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

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

Reference Value = 8.360 V/m; Power Drift = -0.06 dB

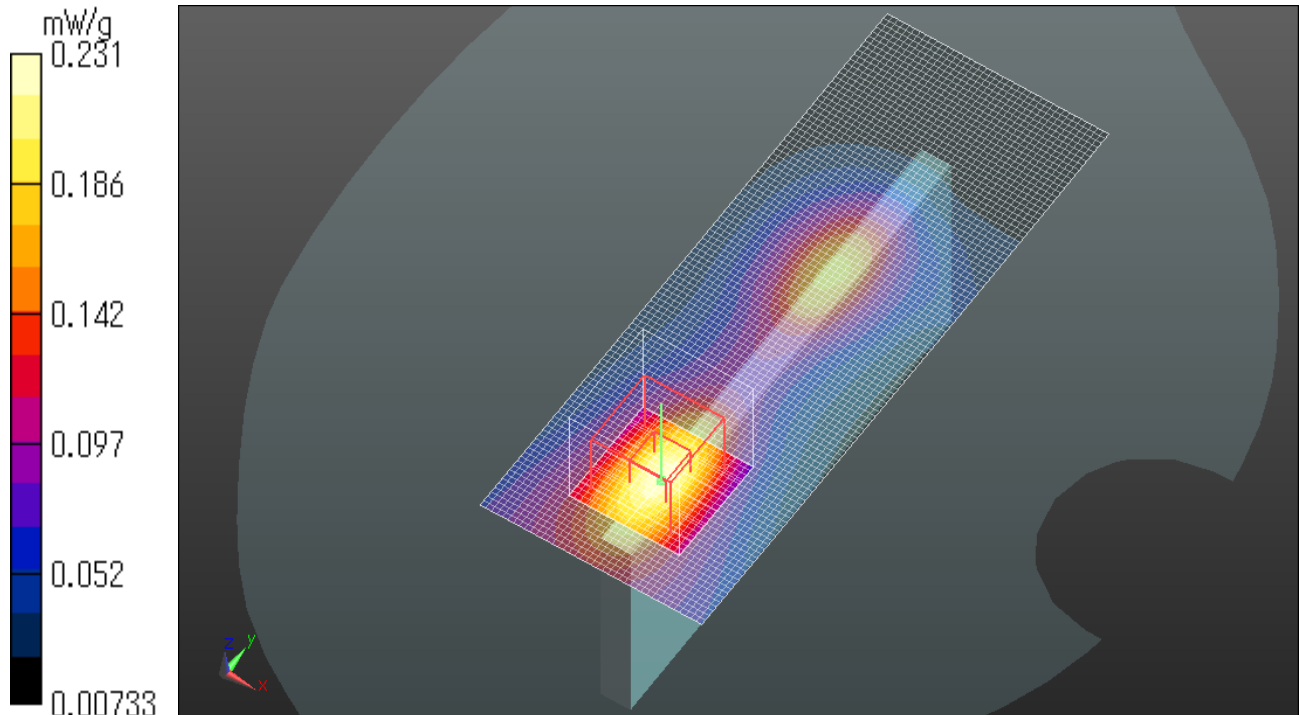
Peak SAR (extrapolated) = 0.2850

SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.097 mW/g

Maximum value of SAR (measured) = 0.231 mW/g

Date: 2011/12/18

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.0 degree.C.



KMP7N4AC1-3A_PCS1900(GPRS)_Body_1slot_1880.0MHz_Bottom edge_10mm

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; $\sigma = 1.557$ mho/m; $\epsilon_r = 51.087$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.95, 7.95, 7.95); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Configuration/Flat - Mid/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 24.643 V/m; Power Drift = -0.18 dB

Maximum value of SAR (interpolated) = 1.219 mW/g

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

Reference Value = 24.643 V/m; Power Drift = -0.18 dB

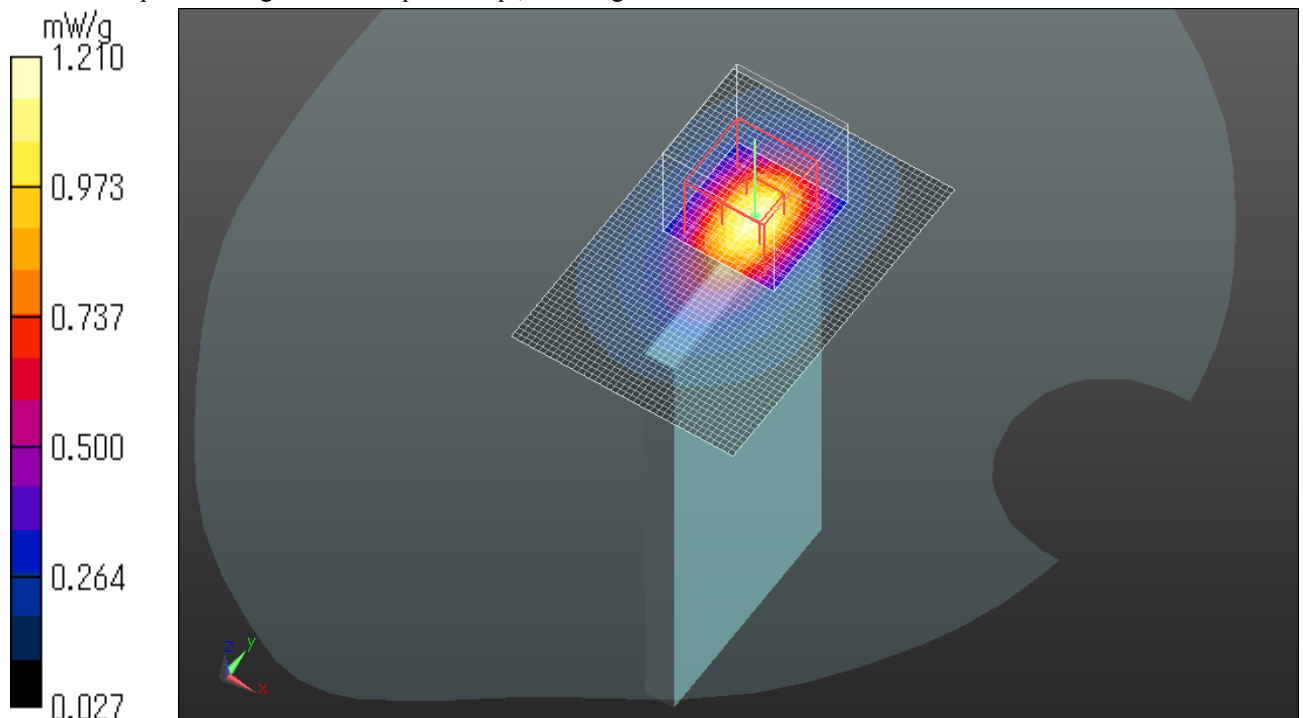
Peak SAR (extrapolated) = 1.5190

SAR(1 g) = 0.858 mW/g; SAR(10 g) = 0.458 mW/g

Maximum value of SAR (measured) = 1.210 mW/g

Date: 2011/12/18

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.0 degree.C.



KMP7N4AC1-3A_PCS1900(GPRS)_Body_1slot_1850.2MHz_Rear_10mm

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 (interpolated): $f = 1850.2$ MHz; $\sigma = 1.527$ mho/m; $\epsilon_r = 51.208$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.95, 7.95, 7.95); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Configuration/Flat - Low/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.202 V/m; Power Drift = -0.21 dB

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

Maximum value of SAR (interpolated) = 1.397 mW/g

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

Reference Value = 10.202 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 1.7680

SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.571 mW/g

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

Maximum value of SAR (measured) = 1.434 mW/g

Configuration/Flat - Low/Zoom Scan 2 (8x12x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.202 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 1.8250

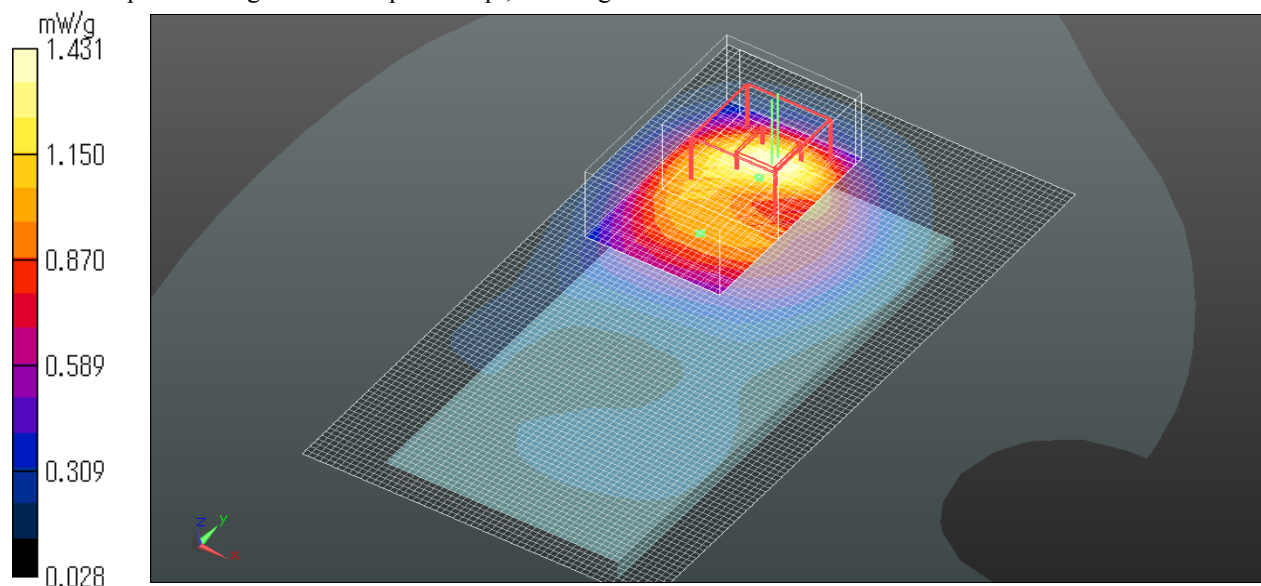
SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.598 mW/g

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

Maximum value of SAR (measured) = 1.431 mW/g

Date: 2011/12/18

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.0 degree.C.



KMP7N4AC1-3A_PCS1900(GPRS)_Body_1slot_1850.2MHz_Rear_10mm

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 (interpolated): $f = 1850.2$ MHz; $\sigma = 1.527$ mho/m; $\epsilon_r = 51.208$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.95, 7.95, 7.95); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

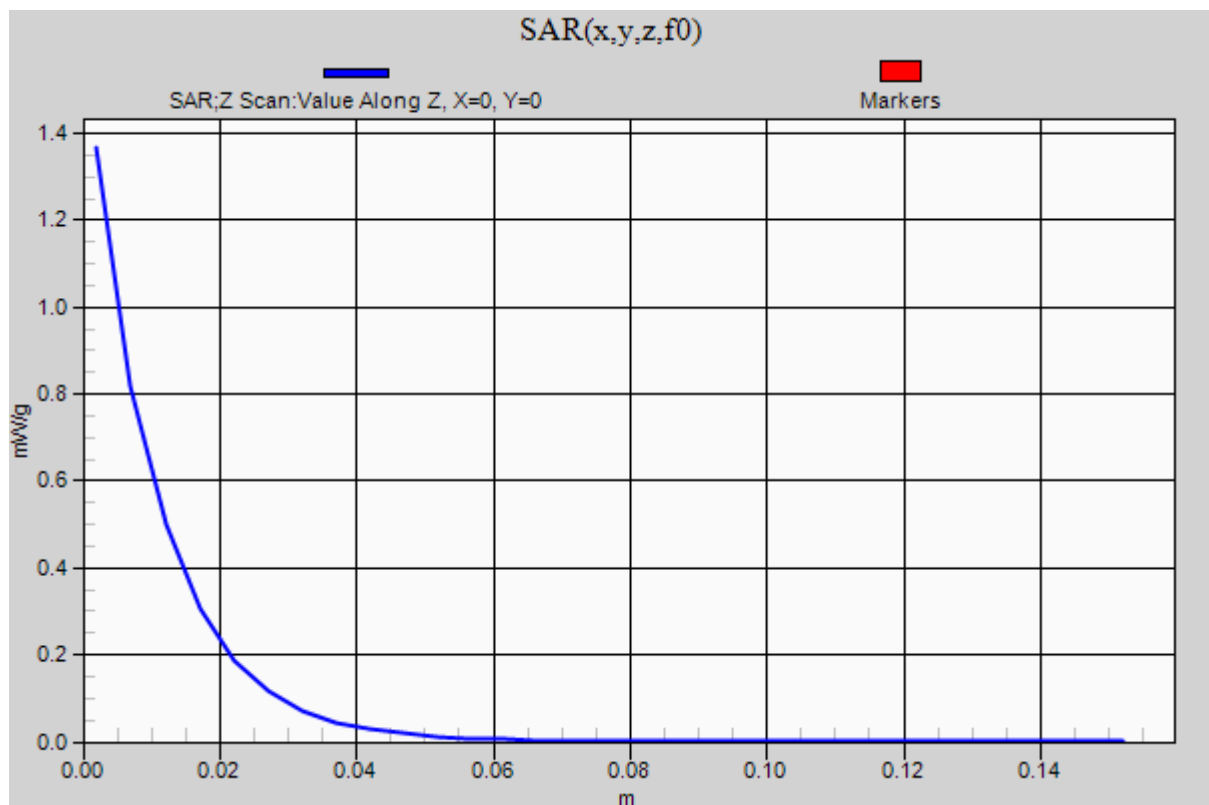
Configuration/Flat - Low/Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

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

Maximum value of SAR (measured) = 1.367 mW/g

Date: 2011/12/18

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.0 degree.C.



KMP7N4AC1-3A_PCS1900(GPRS)_Body_1slot_1850.2MHz_Bottom edge_10mm

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 (interpolated): $f = 1850.2$ MHz; $\sigma = 1.527$ mho/m; $\epsilon_r = 51.208$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.95, 7.95, 7.95); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Configuration/Flat - Low/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 24.023 V/m; Power Drift = -0.17 dB

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

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

Configuration/Flat - LowZoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.023 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.4060

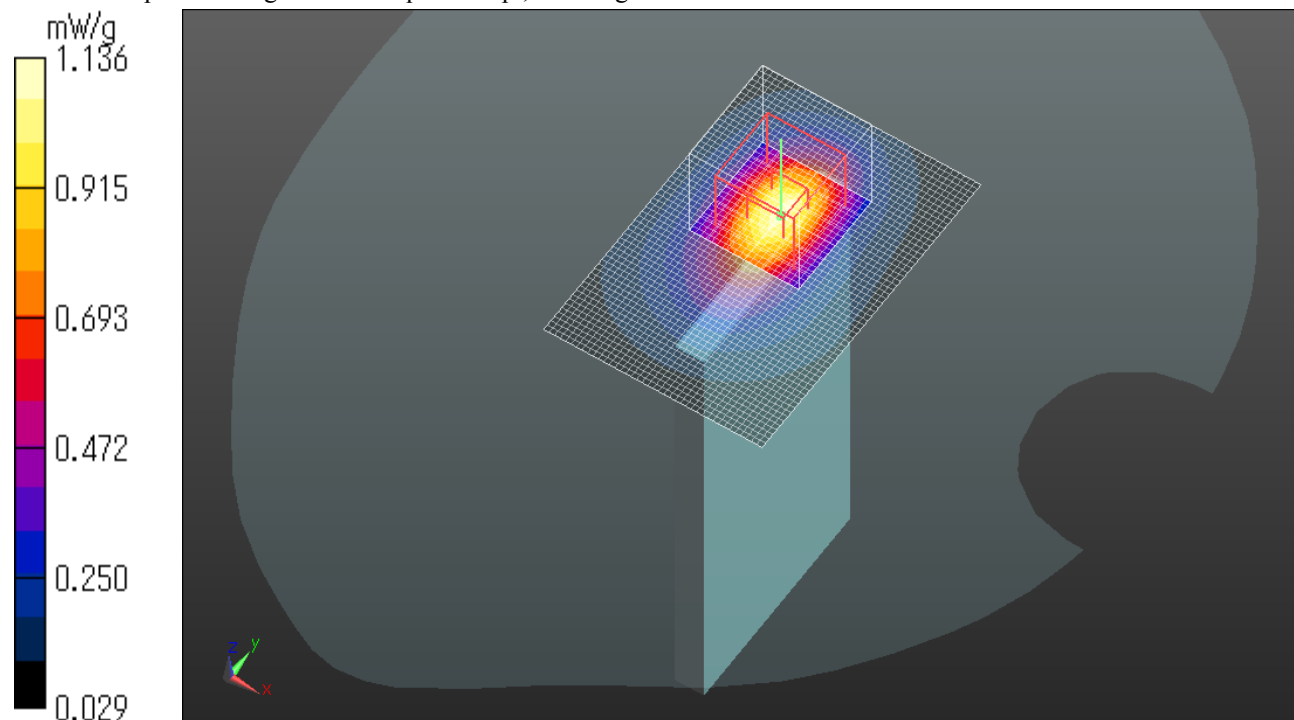
SAR(1 g) = 0.818 mW/g; SAR(10 g) = 0.444 mW/g

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

Maximum value of SAR (measured) = 1.136 mW/g

Date: 2011/12/18

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.0 degree.C.



KMP7N4AC1-3A_PCS1900(GPRS)_Body_1slot_1909.8MHz_Rear_10mm

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: $f = 1909.8$ MHz; $\sigma = 1.591$ mho/m; $\epsilon_r = 51.029$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.95, 7.95, 7.95); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Configuration/Flat - Hi/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 11.029 V/m; Power Drift = -0.18 dB

Maximum value of SAR (interpolated) = 1.539 mW/g

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

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

Reference Value = 11.029 V/m; Power Drift = -0.18 dB

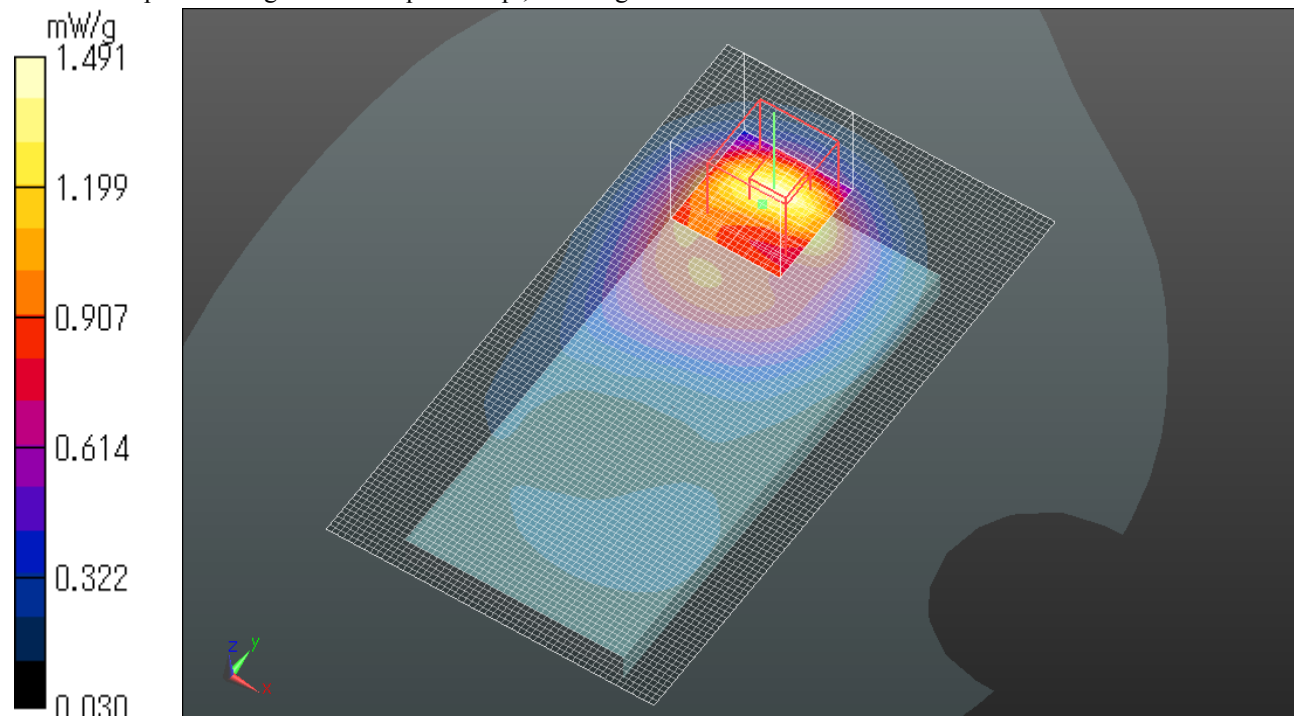
Peak SAR (extrapolated) = 1.8610

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.577 mW/g

Maximum value of SAR (measured) = 1.491 mW/g

Date: 2011/12/18

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.0 degree.C.



KMP7N4AC1-3A_PCS1900(GPRS)_Body_1slot_1909.8MHz_Bottom edge_10mm

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: $f = 1909.8$ MHz; $\sigma = 1.591$ mho/m; $\epsilon_r = 51.029$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.95, 7.95, 7.95); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.8 (0);

Configuration/Flat - Hi/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 22.790 V/m; Power Drift = -0.20 dB

Maximum value of SAR (interpolated) = 1.104 mW/g

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

Reference Value = 22.790 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 1.3400

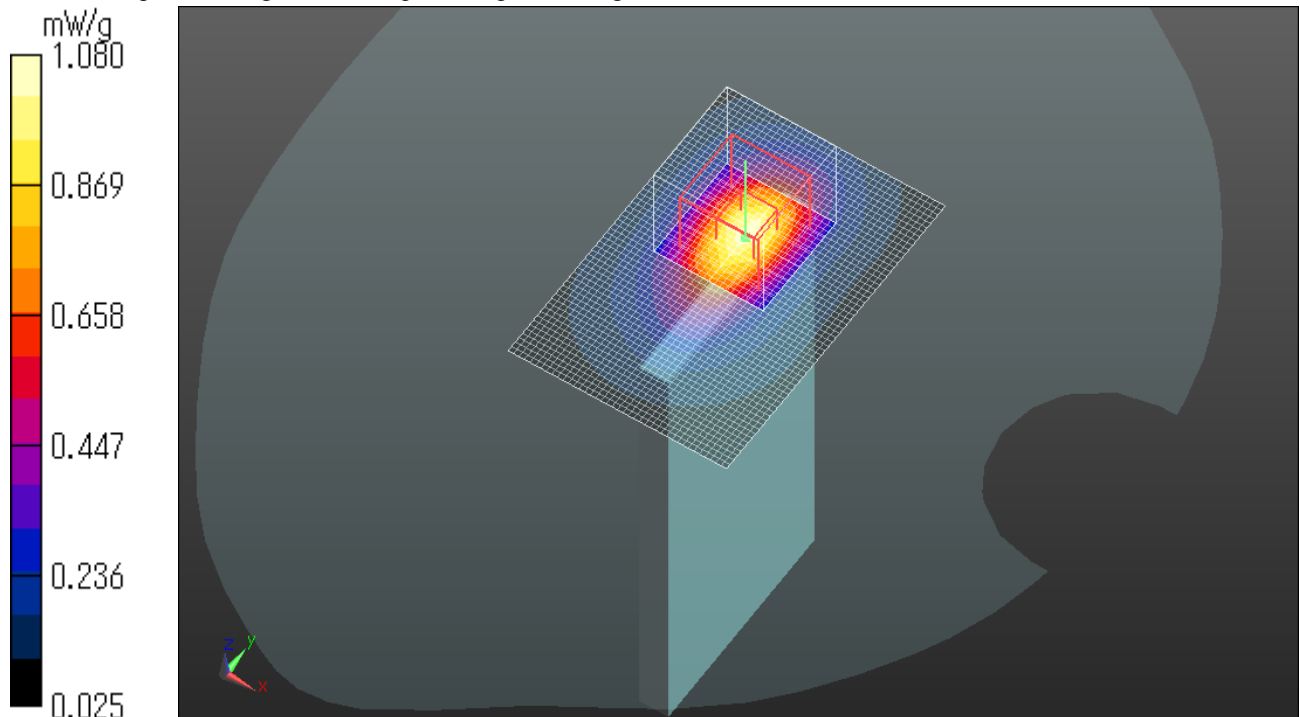
SAR(1 g) = 0.771 mW/g; SAR(10 g) = 0.413 mW/g

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

Maximum value of SAR (measured) = 1.080 mW/g

Date: 2011/12/18

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.0 degree.C.



5. WCDMA band V Head

KMP7N4AC1-3A_W-CDMA band V(12.2KRMCM)_836.6MHz_Left_Cheek

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 42.081$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.02, 10.02, 10.02); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Left-Hand-Side HSL/Touch Position - Mid/Area Scan (91x141x1): Measurement grid: dx=10mm, dy=10mm

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

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

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

Reference Value = 9.106 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.494 W/kg

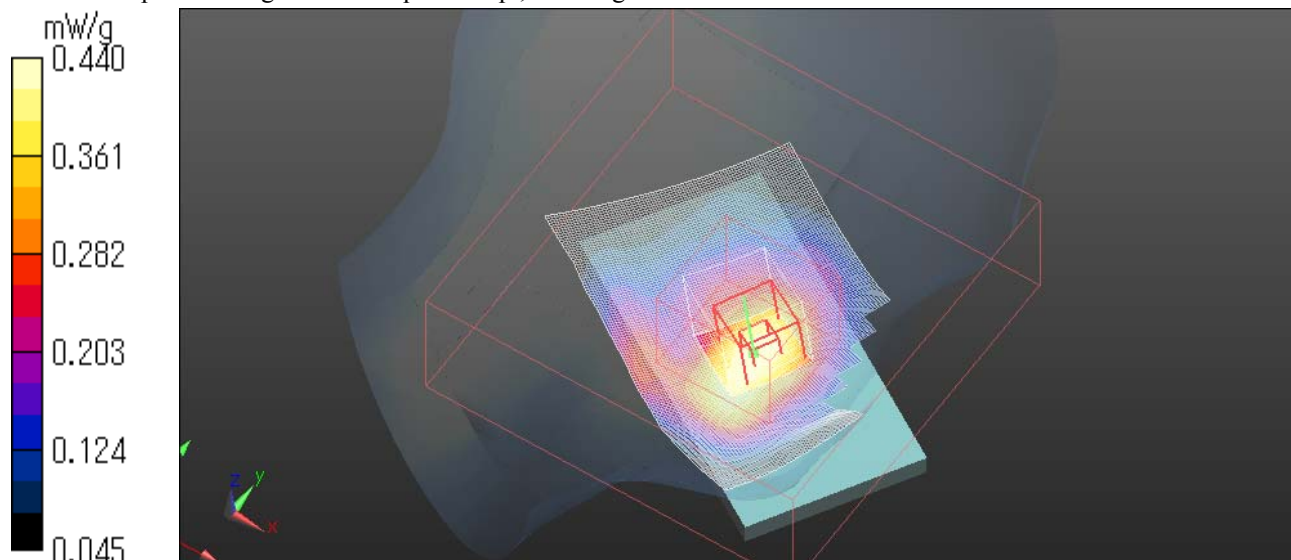
SAR(1 g) = 0.372 mW/g; SAR(10 g) = 0.262 mW/g

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

Maximum value of SAR (measured) = 0.440 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_W-CDMA band V(12.2KRCM)_836.6MHz_Left_Tilt

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 42.081$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.02, 10.02, 10.02); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Left-Hand-Side HSL/Tilt Position - Mid/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm

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

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

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

Reference Value = 13.023 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.371 W/kg

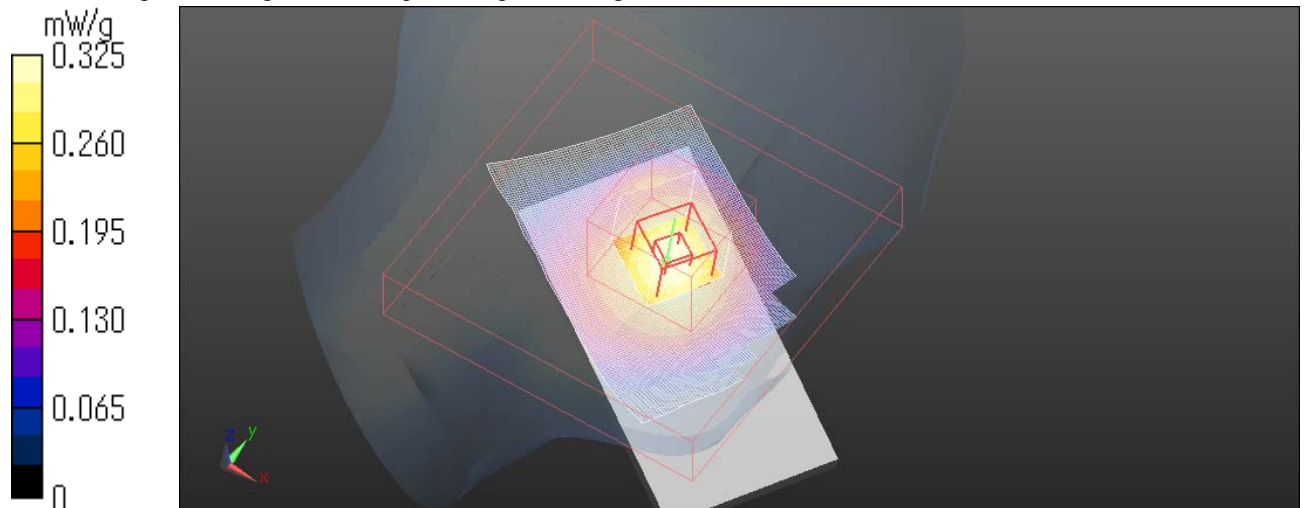
SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.203 mW/g

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

Maximum value of SAR (measured) = 0.332 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_W-CDMA band V(12.2KRCM)_836.6MHz_Right Cheek

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 42.081$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.02, 10.02, 10.02); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Right-Hand-Side HSL/Touch Position - Mid/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (interpolated) = 0.543 mW/g

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

Reference Value = 9.759 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.578 W/kg

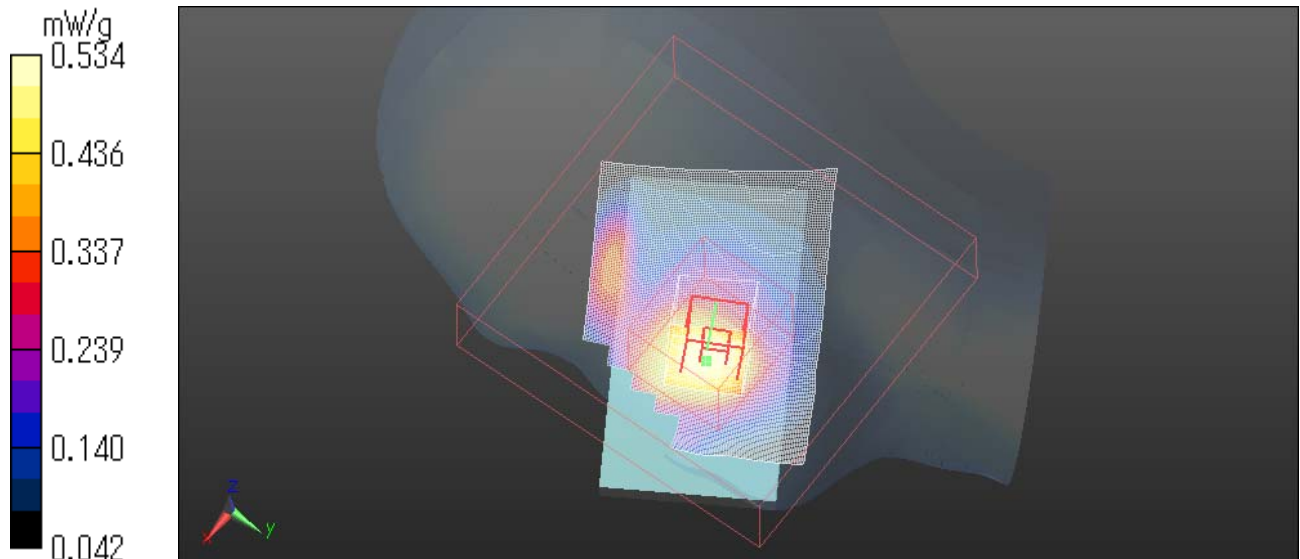
SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.339 mW/g

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

Maximum value of SAR (measured) = 0.534 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



Z scan at maximum SAR location WCDMA band V Head**KMP7N4AC1-3A_W-CDMA band V(12.2KRCM)_836.6MHz_Right Cheek**

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 42.081$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.02, 10.02, 10.02); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

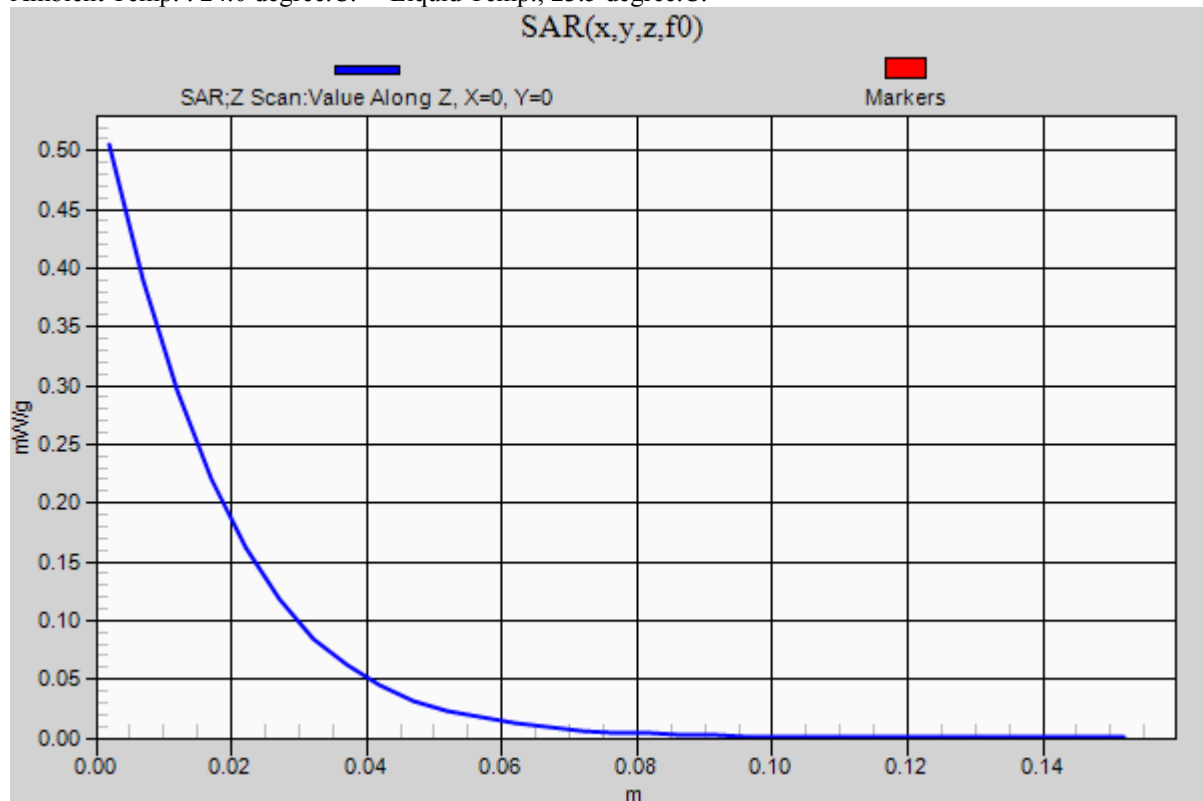
Right-Hand-Side HSL/Touch Position - Mid/Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

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

Maximum value of SAR (measured) = 0.505 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_W-CDMA band V(12.2KRCM)_836.6MHz_Right Tilt

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 42.081$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.02, 10.02, 10.02); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Right-Hand-Side HSL/Tilt Position - Mid/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm

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

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

Right-Hand-Side HSL/Tilt Position - Mid/Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.456 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.415 W/kg

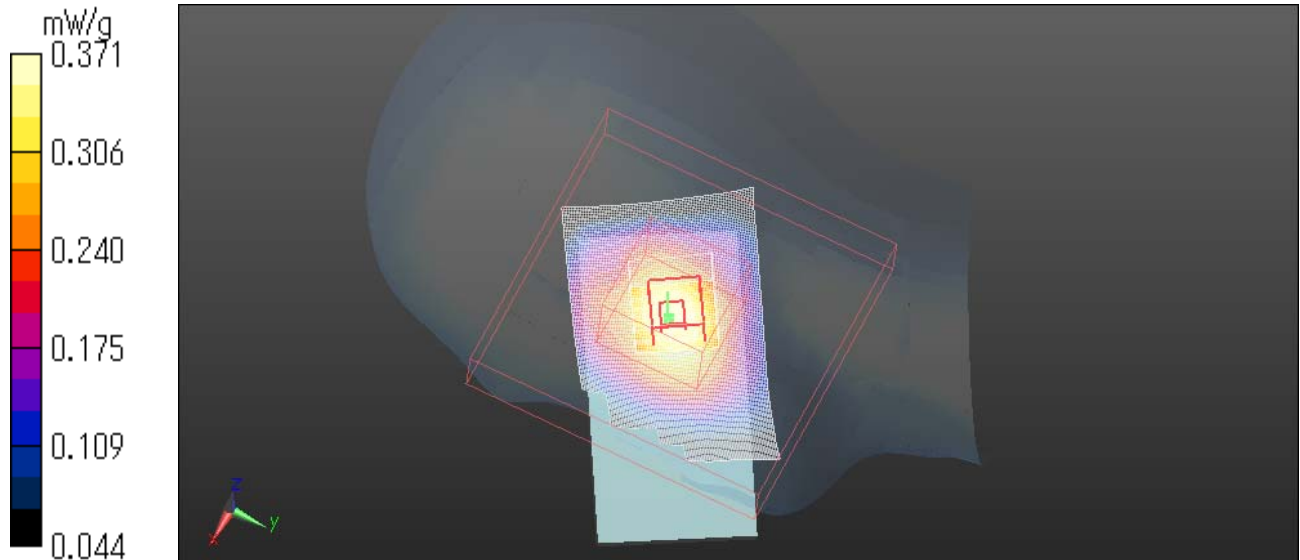
SAR(1 g) = 0.312 mW/g; SAR(10 g) = 0.228 mW/g

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

Maximum value of SAR (measured) = 0.371 mW/g

Date: 2011/12/20

Ambient Temp. : 24.5 degree.C. Liquid Temp.; 23.5 degree.C.



6. WCDMA band V Body

KMP7N4AC1-3A_WCDMA band V_12.2kRMC_Body_836.6MHz_Front_10mm

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.991$ mho/m; $\epsilon_r = 52.992$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.29, 10.29, 10.29); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Configuration/Flat Front - Mid/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.695 mW/g

Configuration/Flat Front - Mid/Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.323 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.756 W/kg

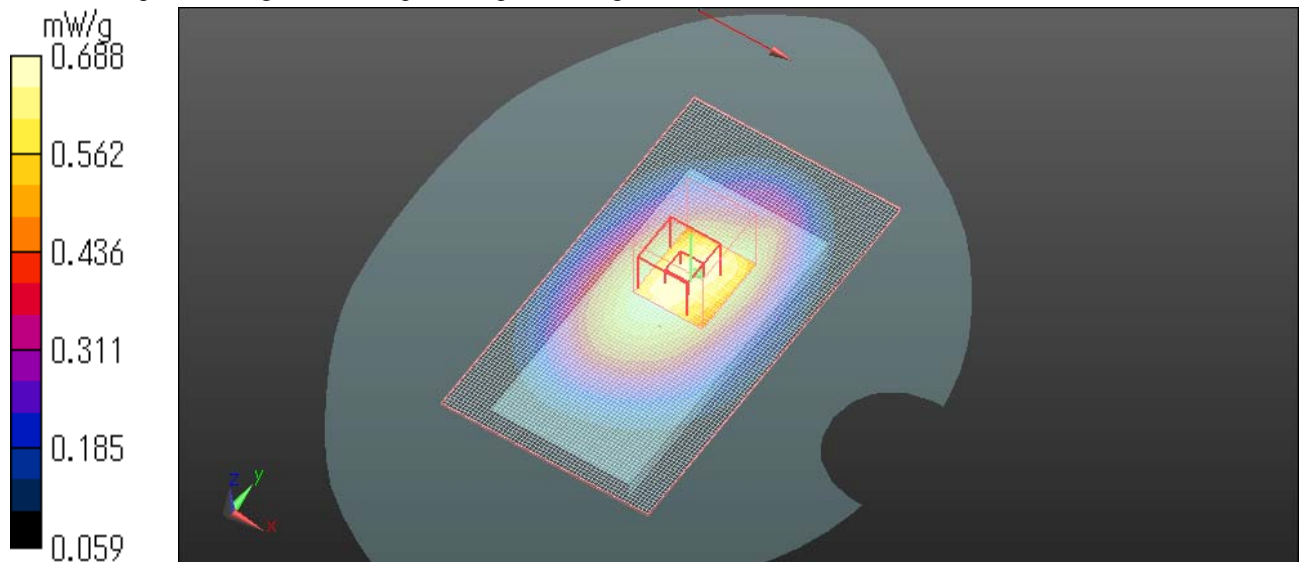
SAR(1 g) = 0.593 mW/g; SAR(10 g) = 0.442 mW/g

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

Maximum value of SAR (measured) = 0.688 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_WCDMA band V_12.2kRMC_Body_836.6MHz_Rear_10mm

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.991$ mho/m; $\epsilon_r = 52.992$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.29, 10.29, 10.29); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Fix Surface)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Configuration/Flat Rear - Mid/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.955 mW/g

Configuration/Flat Rear - Mid/Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.941 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.005 W/kg

SAR(1 g) = 0.781 mW/g; SAR(10 g) = 0.579 mW/g

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

Maximum value of SAR (measured) = 0.907 mW/g

Configuration/Flat Rear - Mid/Zoom Scan 2 (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.941 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.034 W/kg

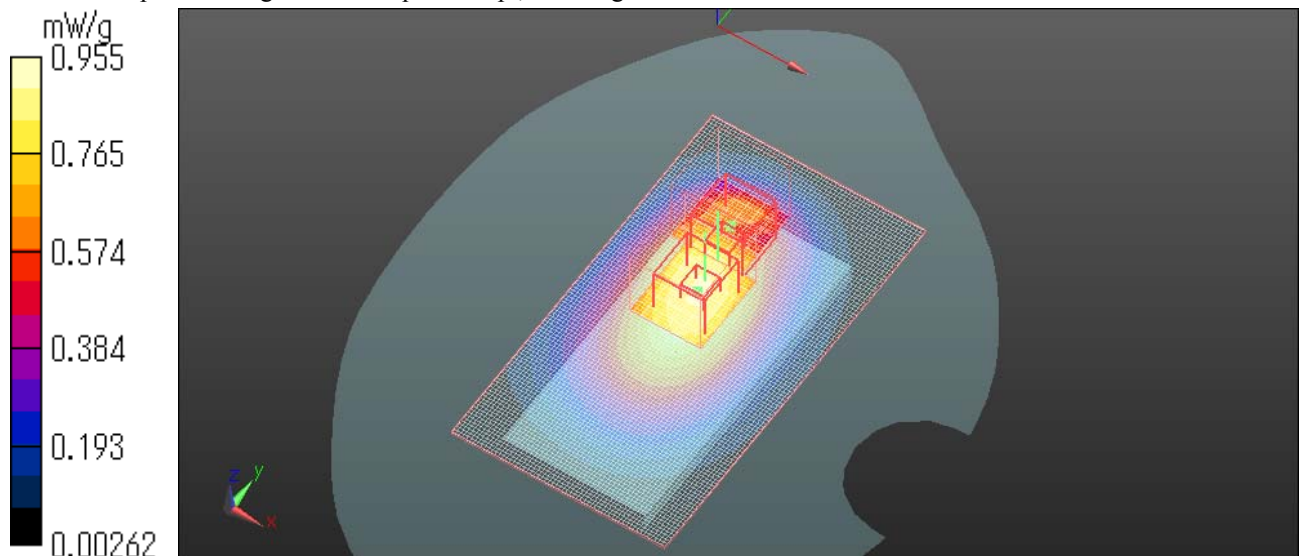
SAR(1 g) = 0.610 mW/g; SAR(10 g) = 0.370 mW/g

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

Maximum value of SAR (measured) = 0.868 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



UL Japan, Inc.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

KMP7N4AC1-3A_WCDMA band V_12.2kRMC _Body_836.6MHz_Rear_10mm

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.991$ mho/m; $\epsilon_r = 52.992$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.29, 10.29, 10.29); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

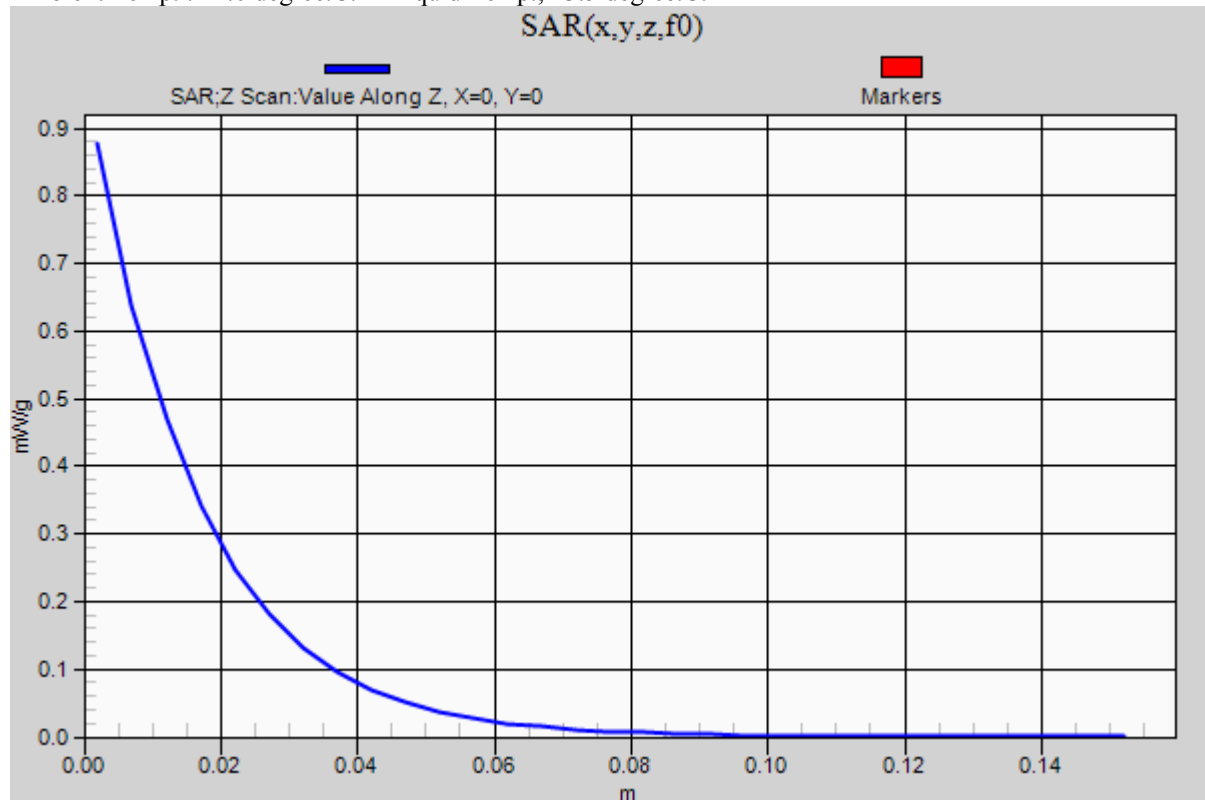
Configuration/Flat Rear - Mid/Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

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

Maximum value of SAR (measured) = 0.877 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_WCDMA band V_12.2kRMC _Body_836.6MHz_Left edge_10mm

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.991$ mho/m; $\epsilon_r = 52.992$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.29, 10.29, 10.29); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Configuration/Flat - Mid/Area Scan (41x111x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.477 mW/g

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

Reference Value = 22.101 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.534 W/kg

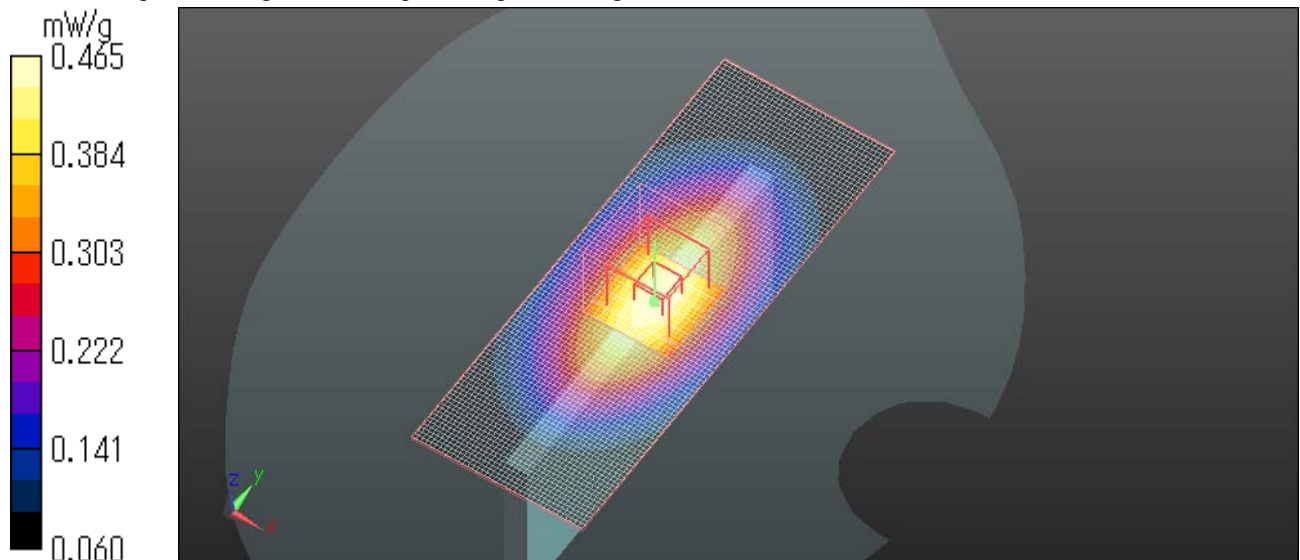
SAR(1 g) = 0.383 mW/g; SAR(10 g) = 0.271 mW/g

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

Maximum value of SAR (measured) = 0.465 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_WCDMA band V_12.2kRMC_Body_836.6MHz_Right edge_10mm

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.991$ mho/m; $\epsilon_r = 52.992$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.29, 10.29, 10.29); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Configuration/Flat - Mid/Area Scan (41x111x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.425 mW/g

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

Reference Value = 20.907 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.477 W/kg

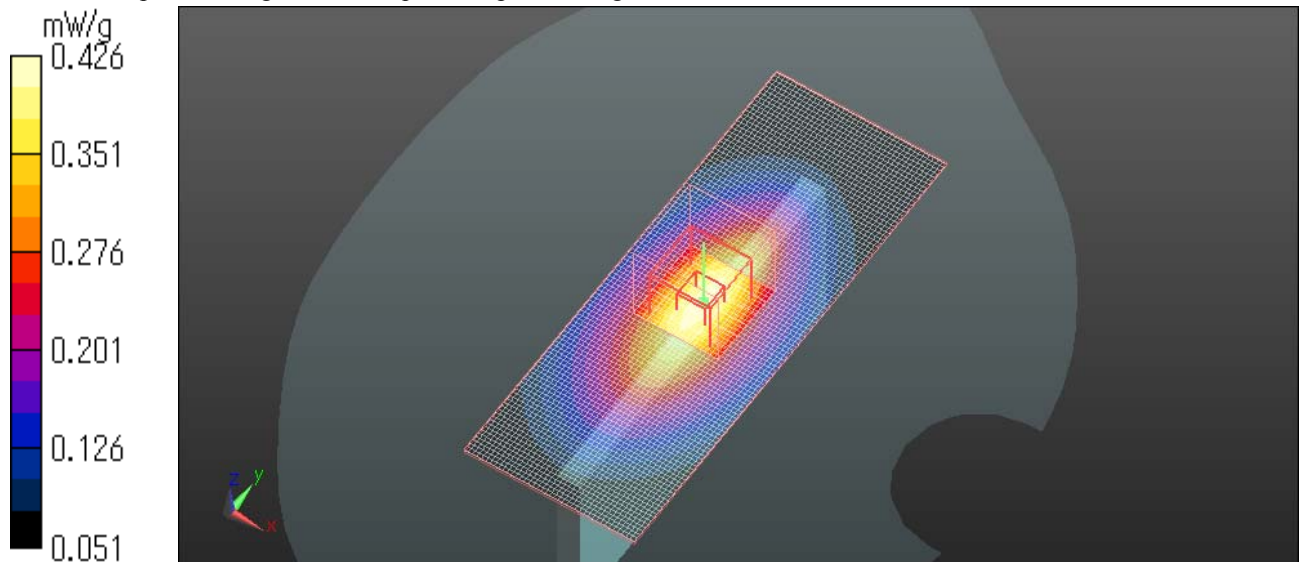
SAR(1 g) = 0.353 mW/g; SAR(10 g) = 0.248 mW/g

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

Maximum value of SAR (measured) = 0.426 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_WCDMA band V_12.2kRMC_Body_836.6MHz_Bottom edge_10mm

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.991$ mho/m; $\epsilon_r = 52.992$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(10.29, 10.29, 10.29); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Configuration/Flat - Mid/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.124 mW/g

Configuration/Flat - Mid/Zoom Scan (7x9x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.596 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.183 W/kg

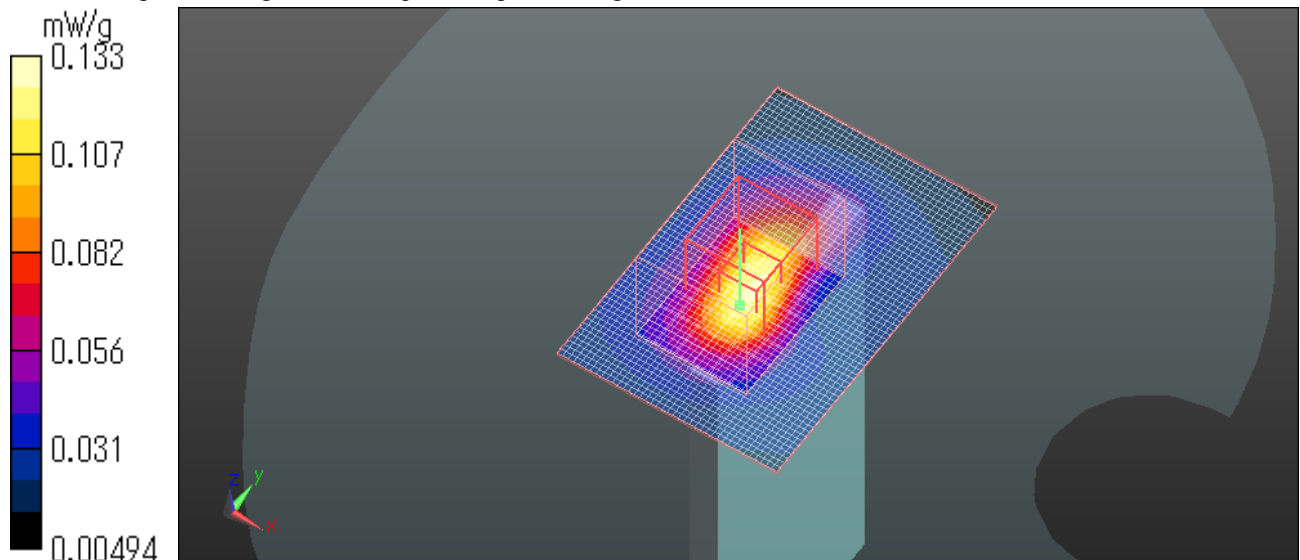
SAR(1 g) = 0.093 mW/g; SAR(10 g) = 0.051 mW/g

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

Maximum value of SAR (measured) = 0.133 mW/g

Date: 2011/12/20

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



7. WLAN Head

KMP7N4AC1-3A_WLAN 11b (1Mbps)2412MHz_Left Cheek

Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n; Frequency: 2412 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.823$ mho/m; $\epsilon_r = 38.514$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.65, 7.65, 7.65); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Left-Hand-Side HSL/Touch Position - Low/Area Scan (91x141x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (interpolated) = 0.097 mW/g

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

Reference Value = 3.201 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.139 W/kg

SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.029 mW/g

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

Maximum value of SAR (measured) = 0.093 mW/g

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

Reference Value = 3.201 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.115 W/kg

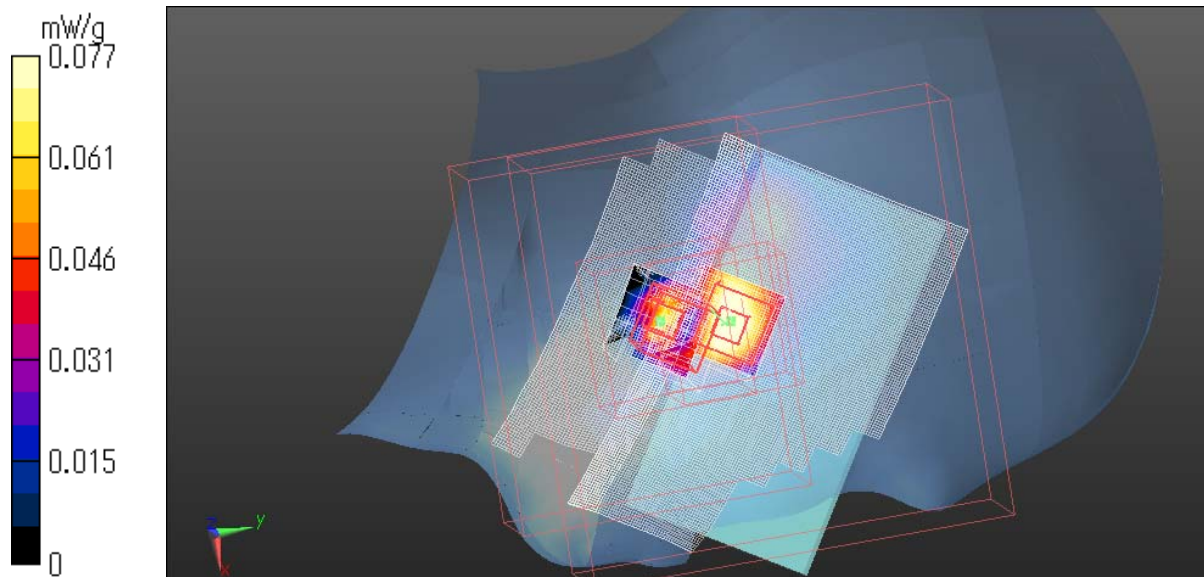
SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.016 mW/g

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

Maximum value of SAR (measured) = 0.073 mW/g

Date: 2011/12/21

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



UL Japan, Inc.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

KMP7N4AC1-3A_WLAN 11b (1Mbps)2412MHz_Left Tilt

Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n; Frequency: 2412 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.823$ mho/m; $\epsilon_r = 38.514$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.65, 7.65, 7.65); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Left-Hand-Side HSL/Tilt Position - Low/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm

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

Maximum value of SAR (interpolated) = 0.021 mW/g

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

Reference Value = 2.414 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.035 W/kg

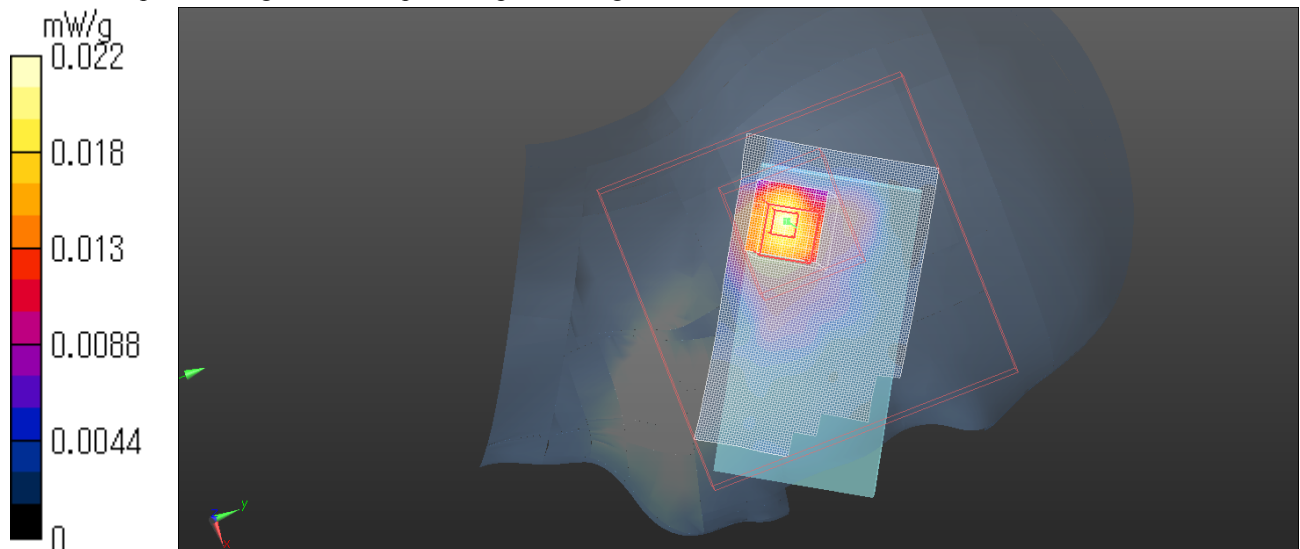
SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.00692 mW/g

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

Maximum value of SAR (measured) = 0.022 mW/g

Date: 2011/12/21

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_WLAN 11b (1Mbps)2412MHz_Right cheek

Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.823 \text{ mho/m}$; $\epsilon_r = 38.514$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.65, 7.65, 7.65); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Right-Hand-Side HSL/Touch Position -Low/Area Scan (91x131x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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

Maximum value of SAR (interpolated) = 0.216 mW/g

Right-Hand-Side HSL/Touch Position -Low/Zoom Scan (9x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.643 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.274 W/kg

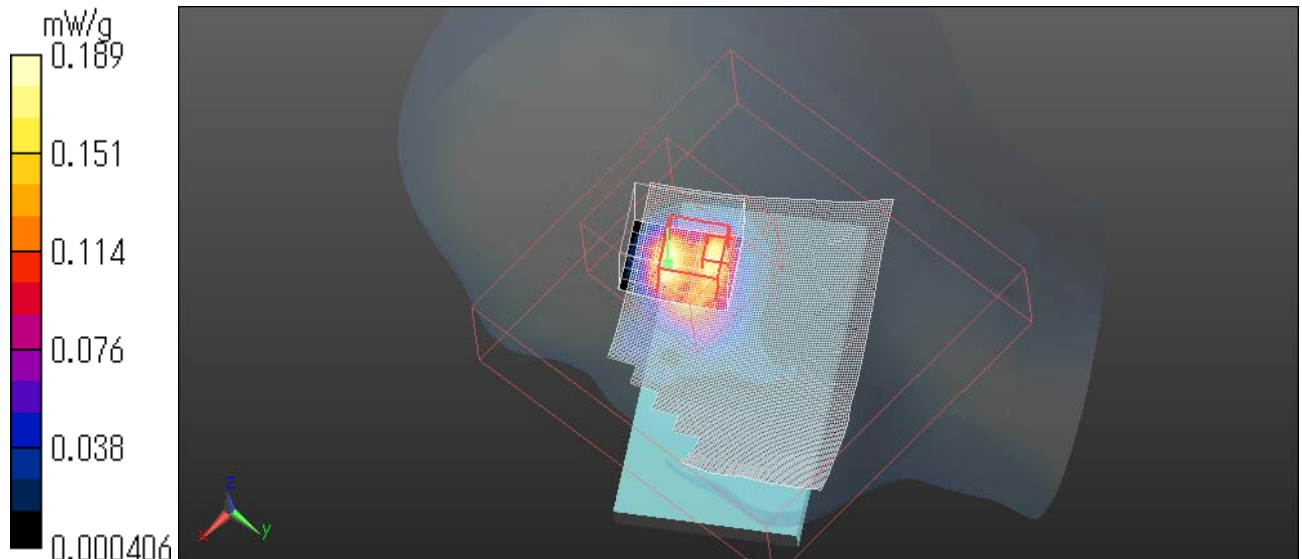
SAR(1 g) = 0.111 mW/g; SAR(10 g) = 0.054 mW/g

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

Maximum value of SAR (measured) = 0.189 mW/g

Date: 2011/12/21

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



ZScan at maximum SAR location in WLAN 11b Head**KMP7N4AC1-3A_WLAN 11b (1Mbps) 2412MHz_Right cheek**

Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.823$ mho/m; $\epsilon_r = 38.514$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.65, 7.65, 7.65); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

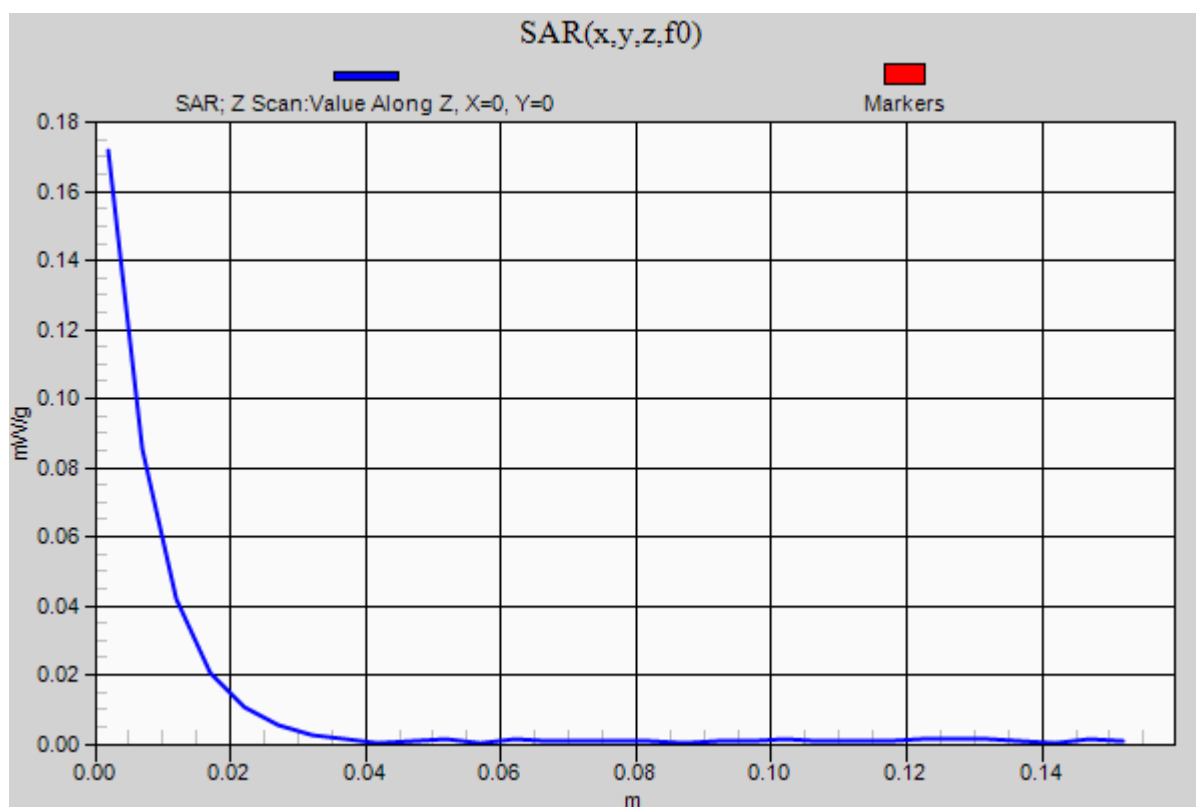
Right-Hand-Side HSL/Touch Position -Low/Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

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

Maximum value of SAR (measured) = 0.172 mW/g

Date: 2011/12/21

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_WLAN 11b (1Mbps)2412MHz_Right tilt

Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.823 \text{ mho/m}$; $\epsilon_r = 38.514$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.65, 7.65, 7.65); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Right-Hand-Side HSL/Tilt Position - Low/Area Scan (81x131x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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

Maximum value of SAR (interpolated) = 0.078 mW/g

Right-Hand-Side HSL/Tilt Position - Low/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.737 V/m ; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.110 W/kg

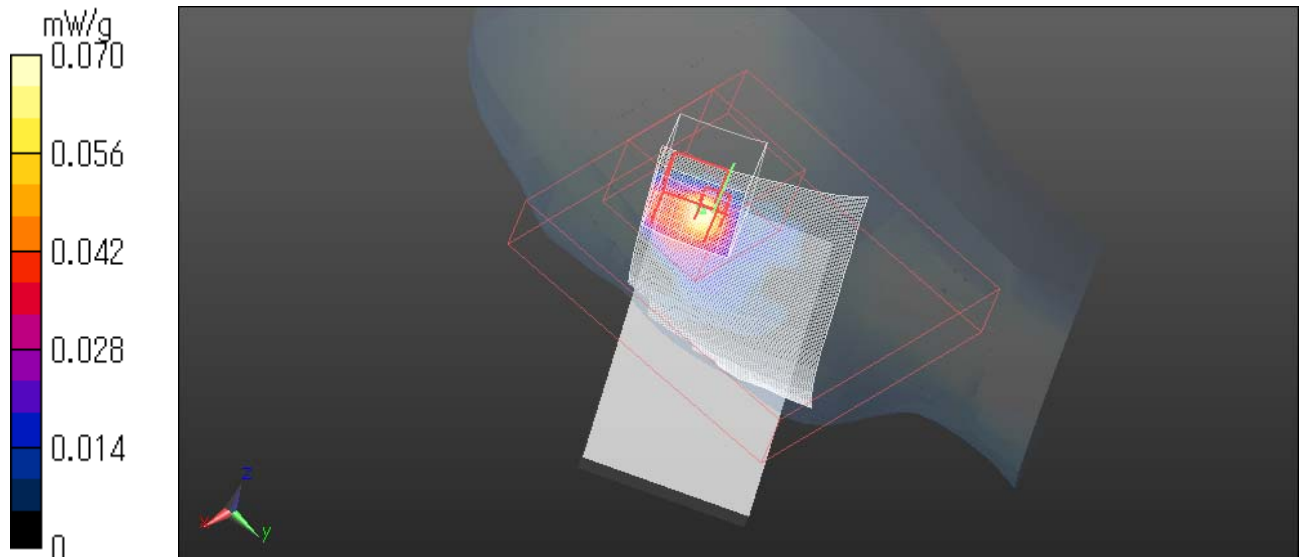
SAR(1 g) = 0.044 mW/g ; SAR(10 g) = 0.019 mW/g

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

Maximum value of SAR (measured) = 0.070 mW/g

Date: 2011/12/21

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



8. WLAN Body

KMP7N4AC1-3A_WLAN 11b (1Mbps)Body_2412MHz_Front_10mm

Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n; Frequency: 2412 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.999$ mho/m; $\epsilon_r = 50.926$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.64, 7.64, 7.64); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Configuration/Flat - Low/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.022 mW/g

Configuration/Flat - Low/Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.834 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.034 W/kg

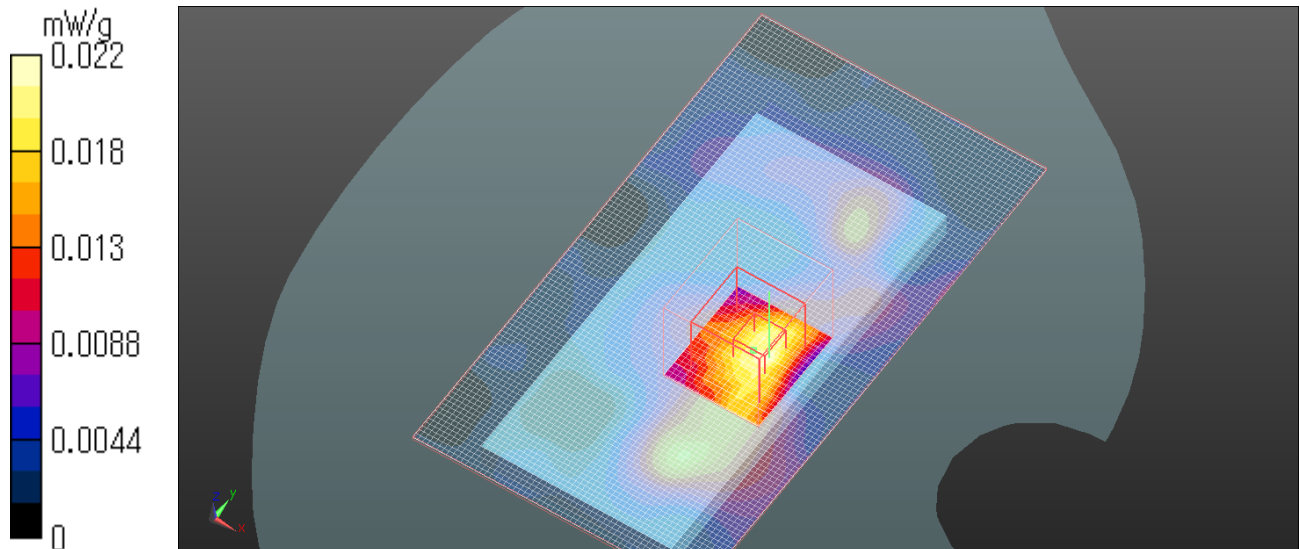
SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00743 mW/g

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

Maximum value of SAR (measured) = 0.022 mW/g

Date: 2011/12/21

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



ZScan at maximum SAR location in WLAN 11b body

KMP7N4AC1-3A_WLAN 11b (1Mbps)Body_2412MHz_Front_10mm

Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n; Frequency: 2412 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.999$ mho/m; $\epsilon_r = 50.926$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.64, 7.64, 7.64); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

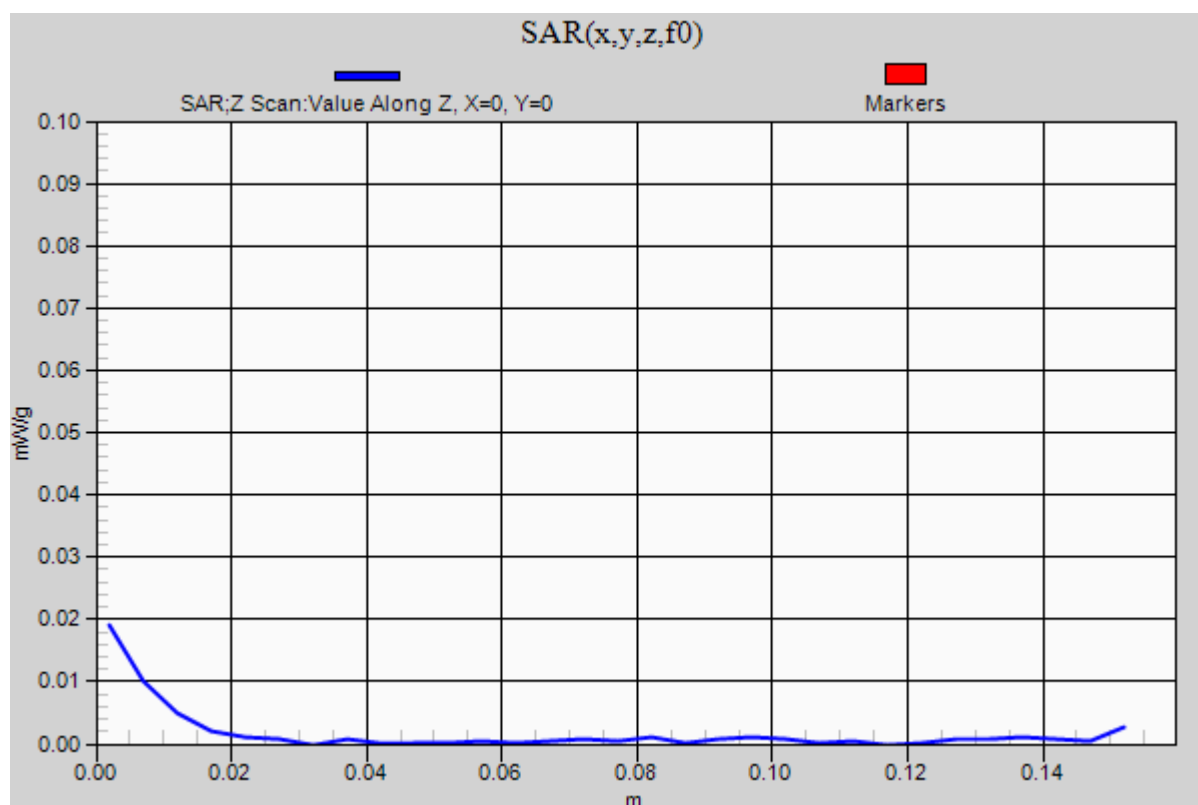
Configuration/Flat - Low/Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

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

Maximum value of SAR (measured) = 0.019 mW/g

Date: 2011/12/21

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



UL Japan, Inc.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

KMP7N4AC1-3A_WLAN 11b (1Mbps)Body_2412MHz_Rear_10mm

Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n; Frequency: 2412 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.999$ mho/m; $\epsilon_r = 50.926$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.64, 7.64, 7.64); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Configuration/Flat - Low/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.024 mW/g

Configuration/Flat - Low/Zoom Scan (7x9x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.929 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.030 W/kg

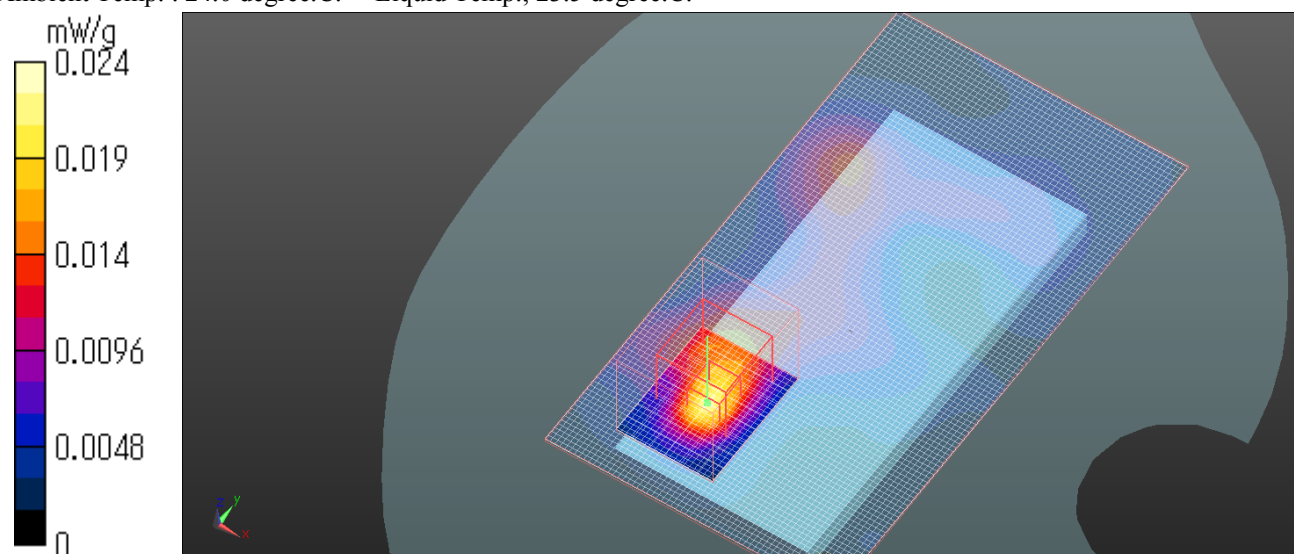
SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.00471 mW/g

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

Maximum value of SAR (measured) = 0.022 mW/g

Date: 2011/12/21

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_WLAN 11b (1Mbps)Body_2412MHz_Right edge_10mm

Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.999 \text{ mho/m}$; $\epsilon_r = 50.926$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.64, 7.64, 7.64); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

Configuration/Flat - Low/Area Scan (61x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.020 mW/g

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

Reference Value = 1.619 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.028 W/kg

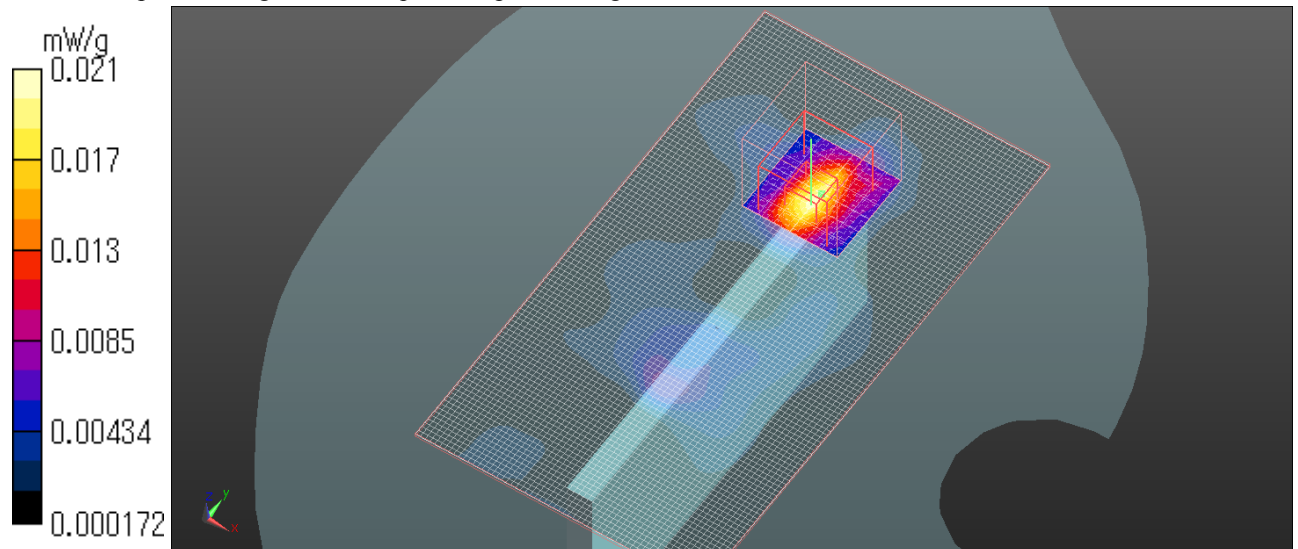
SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00414 mW/g

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

Maximum value of SAR (measured) = 0.021 mW/g

Date: 2011/12/21

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



KMP7N4AC1-3A_WLAN 11b (1Mbps)Body_2412MHz_Top edge_10mm

Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.999 \text{ mho/m}$; $\epsilon_r = 50.926$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3540; ConvF(7.64, 7.64, 7.64); Calibrated: 2011/07/21

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2011/07/20

Phantom: SAM with CRP; Type: SAM;

Measurement SW: DASY52, Version 52.6 (2);

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

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

Maximum value of SAR (interpolated) = 0.00605 mW/g

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

Reference Value = 0.894 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.012 W/kg

SAR(1 g) = 0.00214 mW/g; SAR(10 g) = 0.000952 mW/g

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

Maximum value of SAR (measured) = 0.00455 mW/g

Date: 2011/12/22

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.

