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 15 mm x 15 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 (level more than ambient noise ($\geq$0.012 W/kg)) and not with this Step3 (Zoom scan) is repeated. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

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

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

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

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

2. Measurement data (Body SAR 2450MHz)
CH91108/ Body / Left side / 11b CCK (11Mbps) / 2437MHz

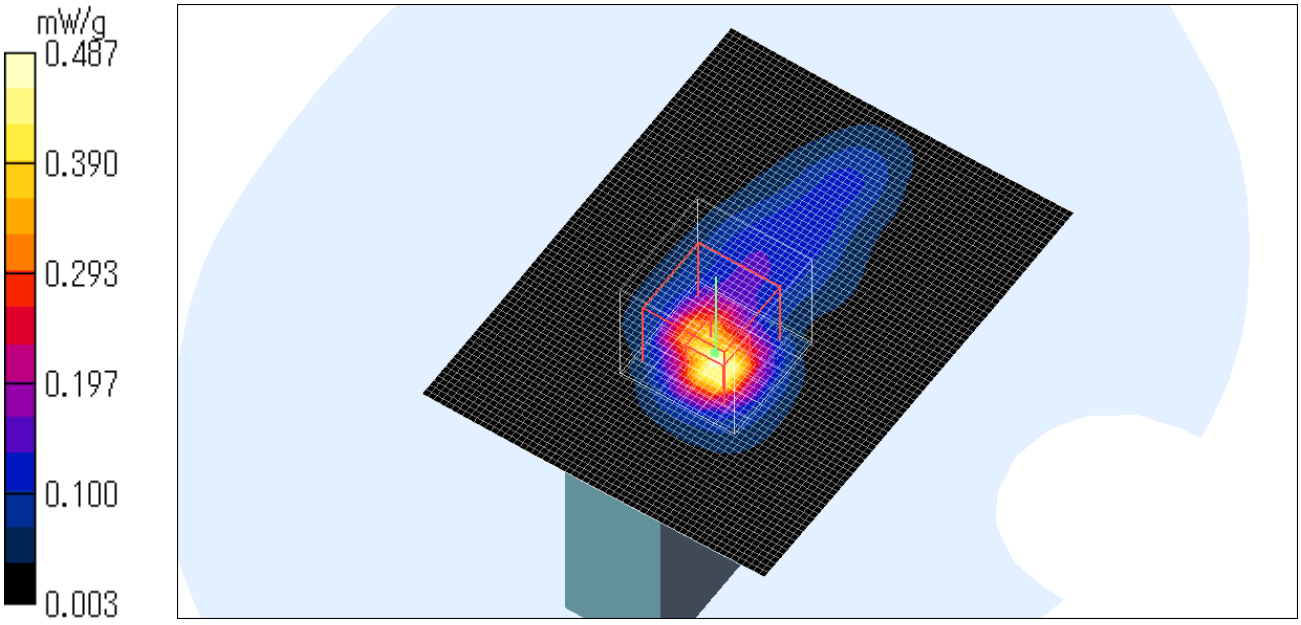
Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 2 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.24, 8.24, 8.24); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.452 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.80 V/m; Power Drift = -0.209 dB
Peak SAR (extrapolated) = 0.855 W/kg
SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.121 mW/g
Maximum value of SAR (measured) = 0.487 mW/g

Test Date = 10/23/06
Ambient Temperature = 24.5 degree C.
Liquid Temperature = Before 24.0 degree C. , After 24.0 degree C.



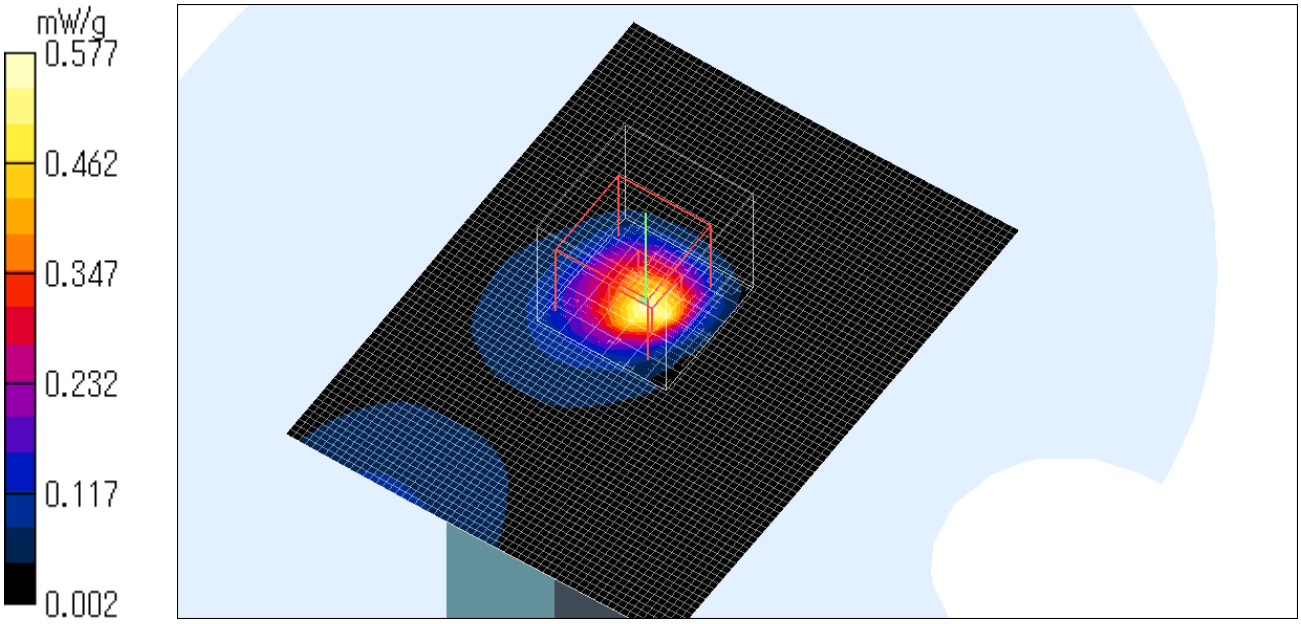
CH91108/ Body / Top / 11b CCK (11Mbps) / 2437MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 2 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.24, 8.24, 8.24); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.531 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.0 V/m; Power Drift = -0.182 dB
Peak SAR (extrapolated) = 0.955 W/kg
SAR(1 g) = 0.336 mW/g; SAR(10 g) = 0.134 mW/g
Maximum value of SAR (measured) = 0.577 mW/g
Test Date = 10/23/06
Ambient Temperature = 24.5 degree C.
Liquid Temperature = Before 24.0 degree C. , After 24.0 degree C.



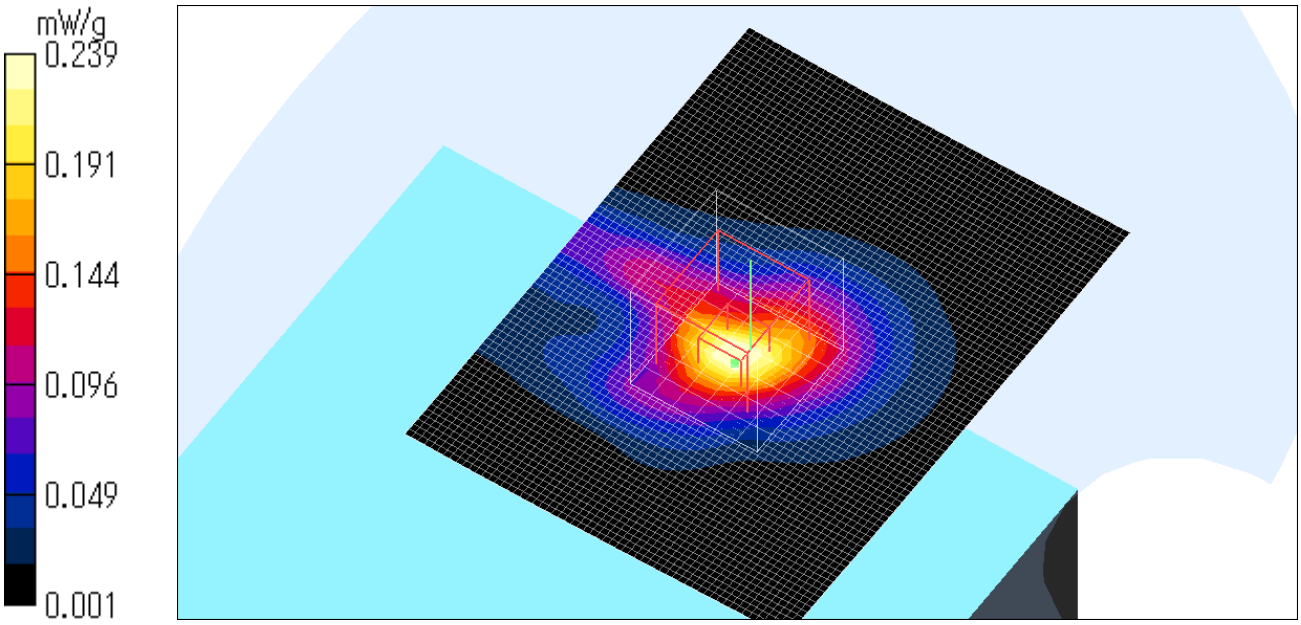
CH91108/ Body / Rear / 11b CCK (11Mbps) / 2437MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 2 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.24, 8.24, 8.24); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.199 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.40 V/m; Power Drift = 0.125 dB
Peak SAR (extrapolated) = 0.326 W/kg
SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.081 mW/g
Maximum value of SAR (measured) = 0.239 mW/g
Test Date = 10/23/06
Ambient Temperature = 24.5degree C.
Liquid Temperature = Before 24.0 degree C. , After 24.0 degree C.



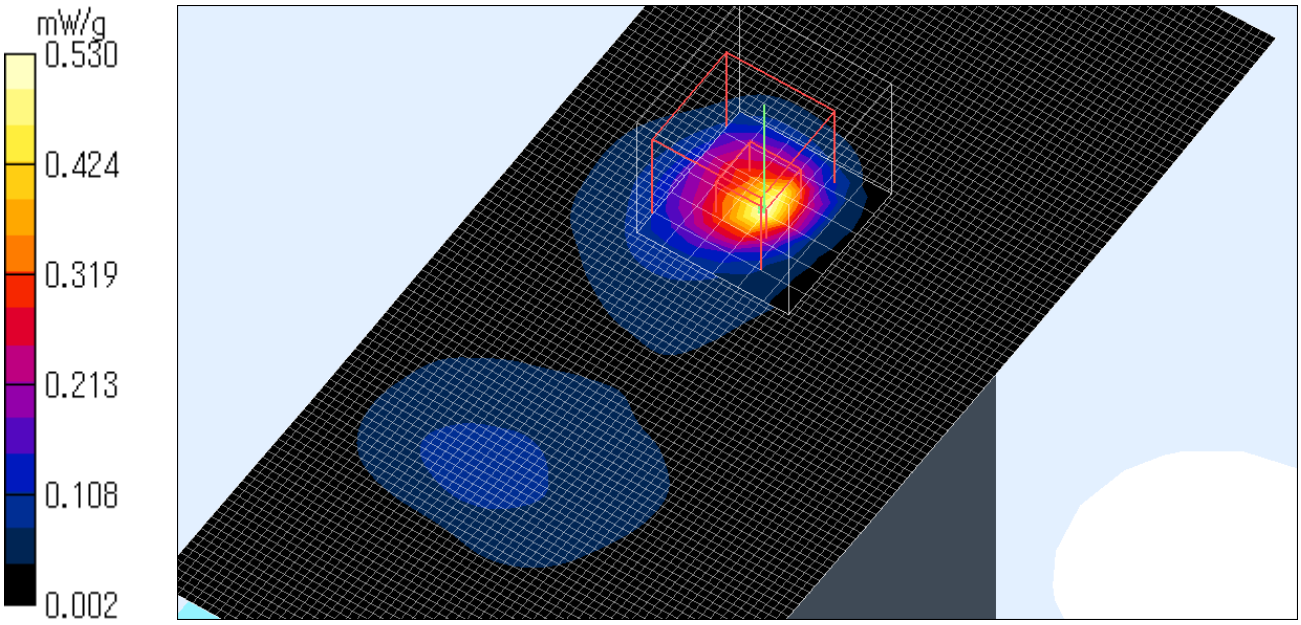
CH91108/ Body / Top / 11b CCK (11Mbps) / 2412MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 2 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.24, 8.24, 8.24); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x131x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.392 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.59 V/m; Power Drift = -0.131 dB
Peak SAR (extrapolated) = 0.857 W/kg
SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.112 mW/g
Maximum value of SAR (measured) = 0.530 mW/g
Test Date = 10/23/06
Ambient Temperature = 24.5 degree C.
Liquid Temperature = Before 24.0 degree C. , After 24.0 degree C.



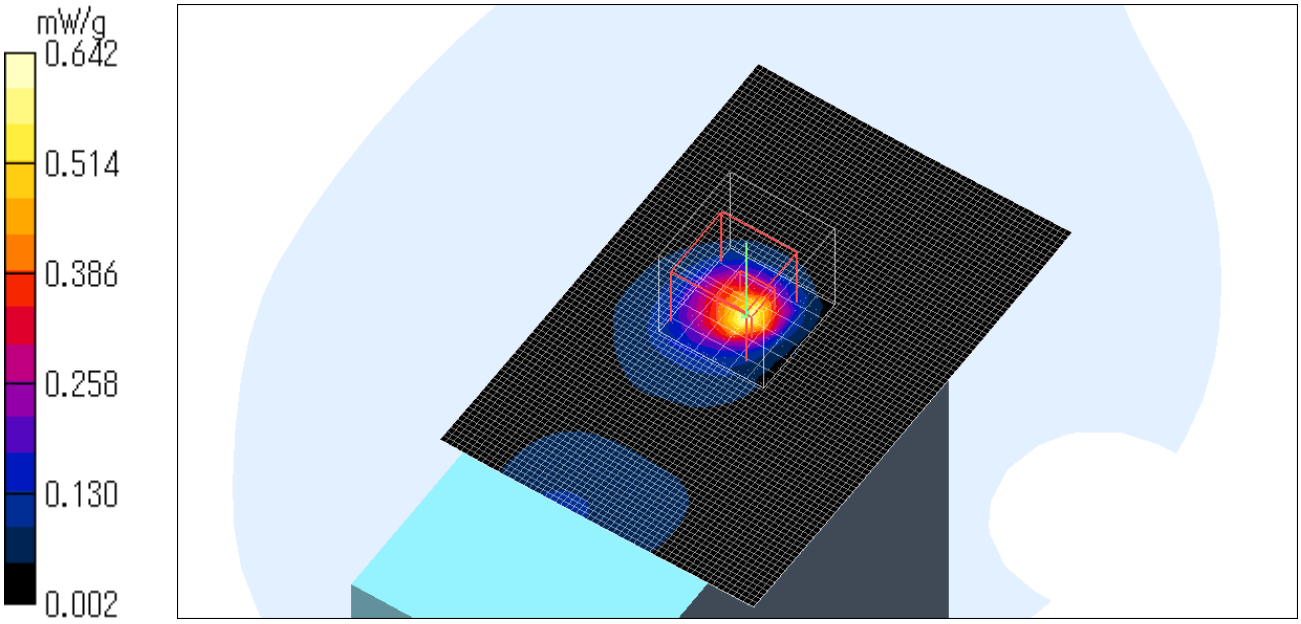
CH91108/ Body / Left side / 11b CCK (11Mbps) / 2462MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 2 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.24, 8.24, 8.24); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.586 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.8 V/m; Power Drift = -0.130 dB
Peak SAR (extrapolated) = 0.998 W/kg
SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.140 mW/g
Maximum value of SAR (measured) = 0.642 mW/g
Test Date = 10/23/06
Ambient Temperature = 24.5 degree C.
Liquid Temperature = Before 24.0 degree C. , After 24.0 degree C.



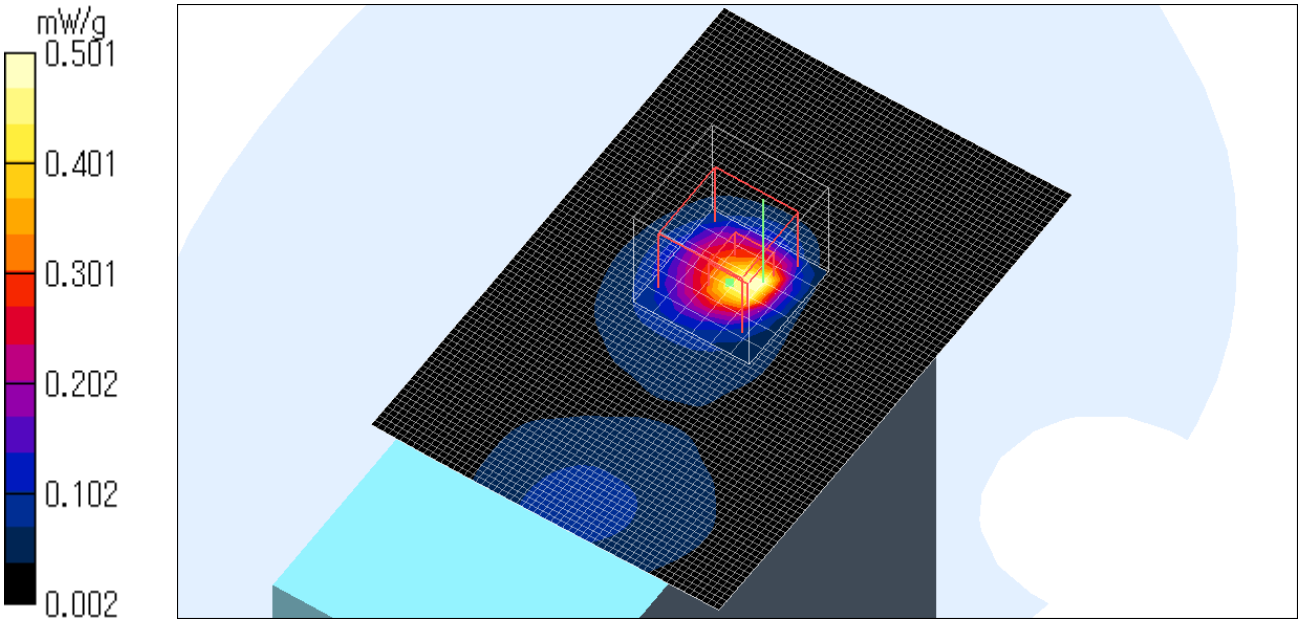
CH91108/ Body / Top / 11g BPSK (9Mbps) / 2437MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.95 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.24, 8.24, 8.24); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.564 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.0 V/m; Power Drift = -0.203 dB
Peak SAR (extrapolated) = 0.872 W/kg
SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.118 mW/g
Maximum value of SAR (measured) = 0.501 mW/g
Test Date = 10/24/06
Ambient Temperature = 25.0degree C.
Liquid Temperature = Before 24.8 degree C. , After 24.8 degree C.



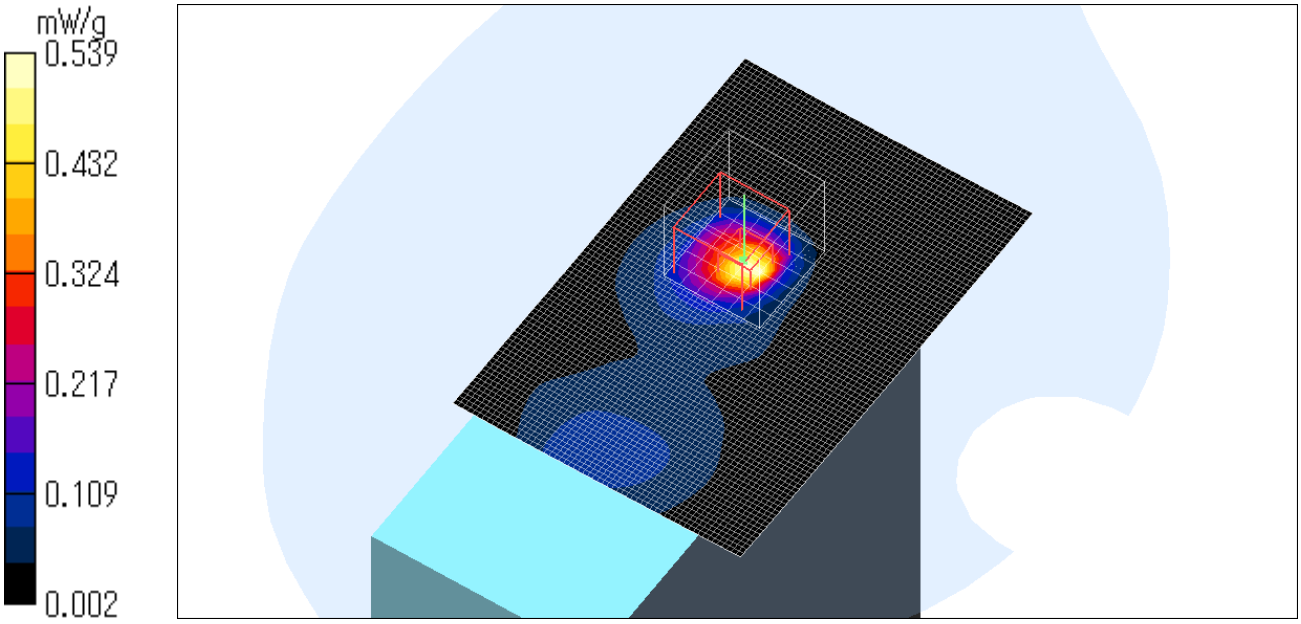
CH91108/ Body / Top / 11g QPSK (12Mbps) / 2437MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.95 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.24, 8.24, 8.24); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.410 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.2 V/m; Power Drift = -0.114 dB
Peak SAR (extrapolated) = 0.962 W/kg
SAR(1 g) = 0.325 mW/g; SAR(10 g) = 0.131 mW/g
Maximum value of SAR (measured) = 0.539 mW/g
Test Date = 10/24/06
Ambient Temperature = 25.0degree C.
Liquid Temperature = Before 24.8 degree C. , After 24.8 degree C.



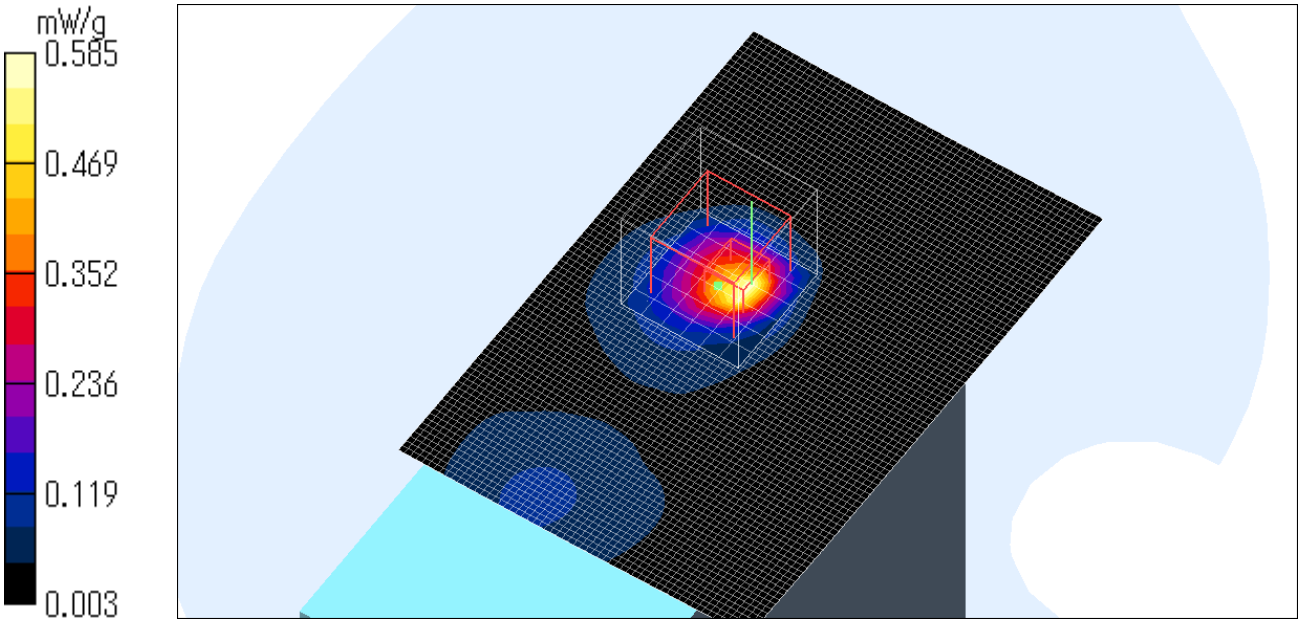
CH91108/ Body / Top / 11g 16QAM (36Mbps) / 2437MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.95 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.24, 8.24, 8.24); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.385 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.2 V/m; Power Drift = -0.206 dB
Peak SAR (extrapolated) = 0.952 W/kg
SAR(1 g) = 0.329 mW/g; SAR(10 g) = 0.133 mW/g
Maximum value of SAR (measured) = 0.585 mW/g
Test Date = 10/24/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.8 degree C. , After 24.8 degree C.



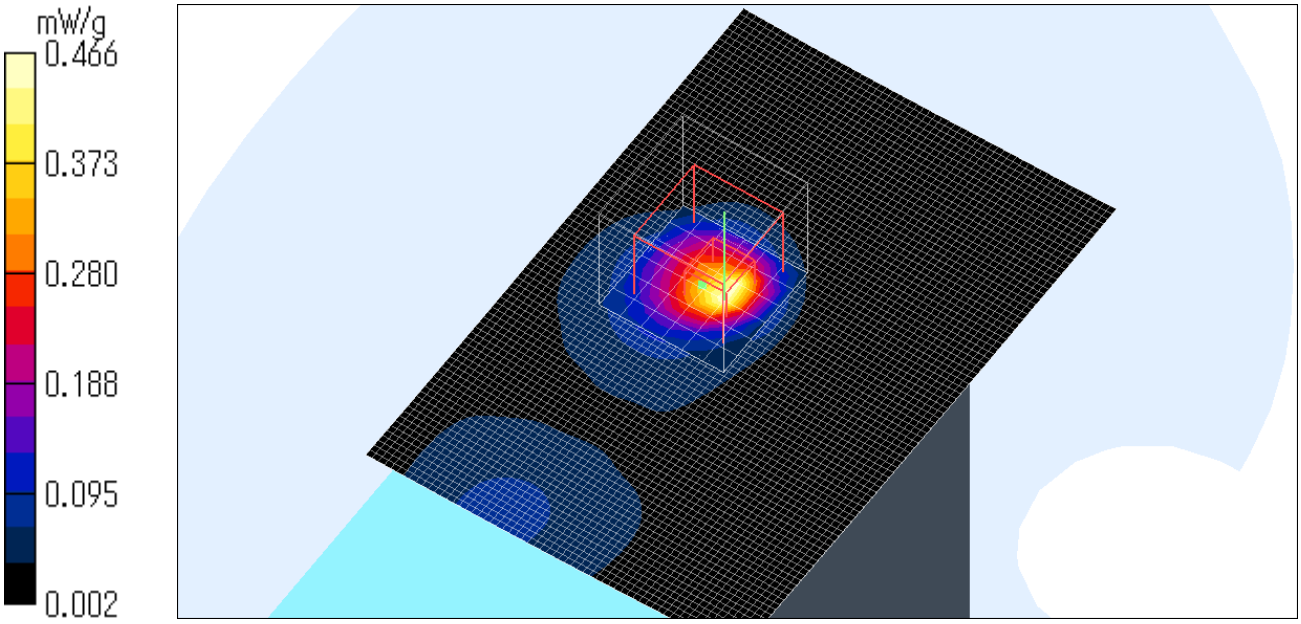
CH91108/ Body / Top / 11g 64QAM (54Mbps) / 2437MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.95 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.24, 8.24, 8.24); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.316 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.9 V/m; Power Drift = -0.146 dB
Peak SAR (extrapolated) = 0.768 W/kg
SAR(1 g) = 0.266 mW/g; SAR(10 g) = 0.108 mW/g
Maximum value of SAR (measured) = 0.466 mW/g
Test Date = 10/24/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.8 degree C. , After 24.8 degree C.



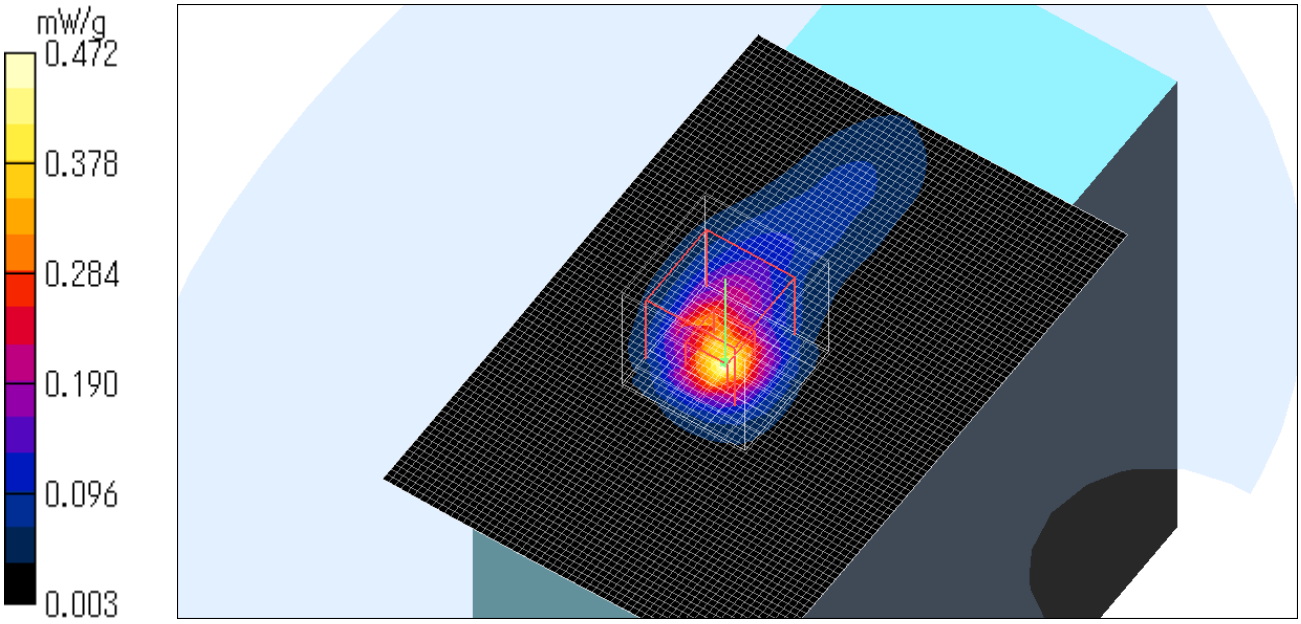
CH91108/ Body / Left side / 11g 16QAM (36Mbps) / 2437MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.95 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.24, 8.24, 8.24); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.403 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.8 V/m; Power Drift = 0.060 dB
Peak SAR (extrapolated) = 0.750 W/kg
SAR(1 g) = 0.247 mW/g; SAR(10 g) = 0.105 mW/g
Maximum value of SAR (measured) = 0.472 mW/g
Test Date = 10/24/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.8 degree C. , After 24.9 degree C.



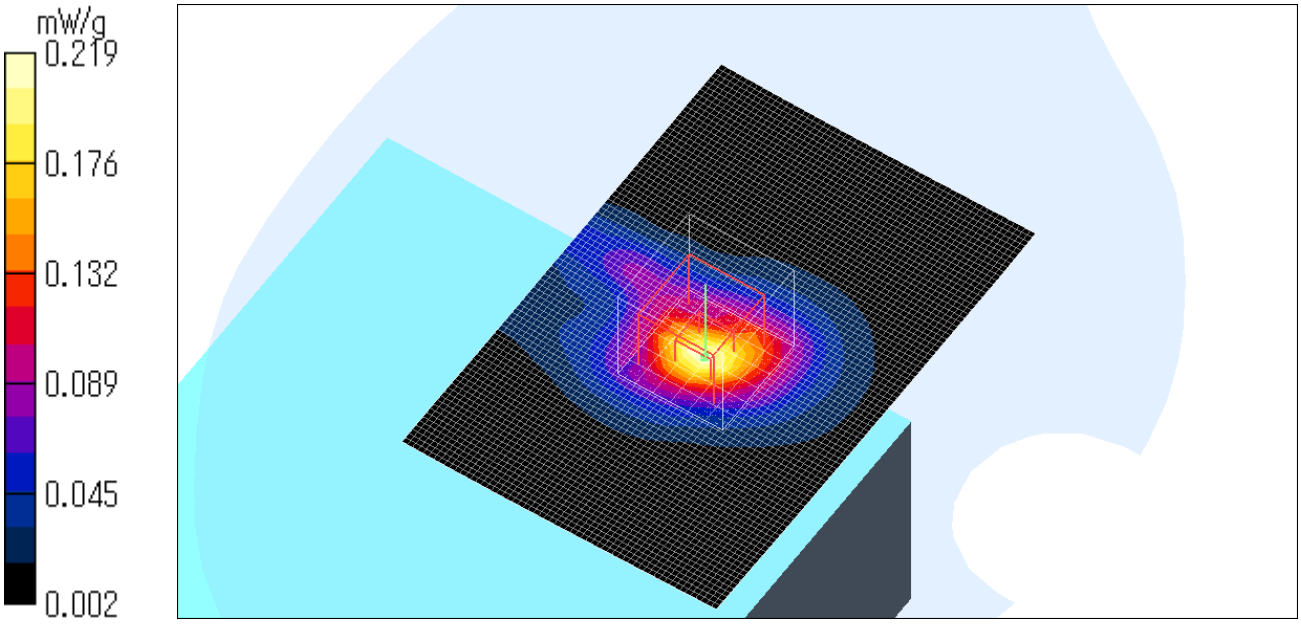
CH91108/ Body / Rear / 11g 16QAM (36Mbps) / 2437MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.95 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.24, 8.24, 8.24); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.225 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.55 V/m; Power Drift = 0.106 dB
Peak SAR (extrapolated) = 0.286 W/kg
SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.072 mW/g
Maximum value of SAR (measured) = 0.219 mW/g
Test Date = 10/24/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.9 degree C. , After 24.9 degree C.



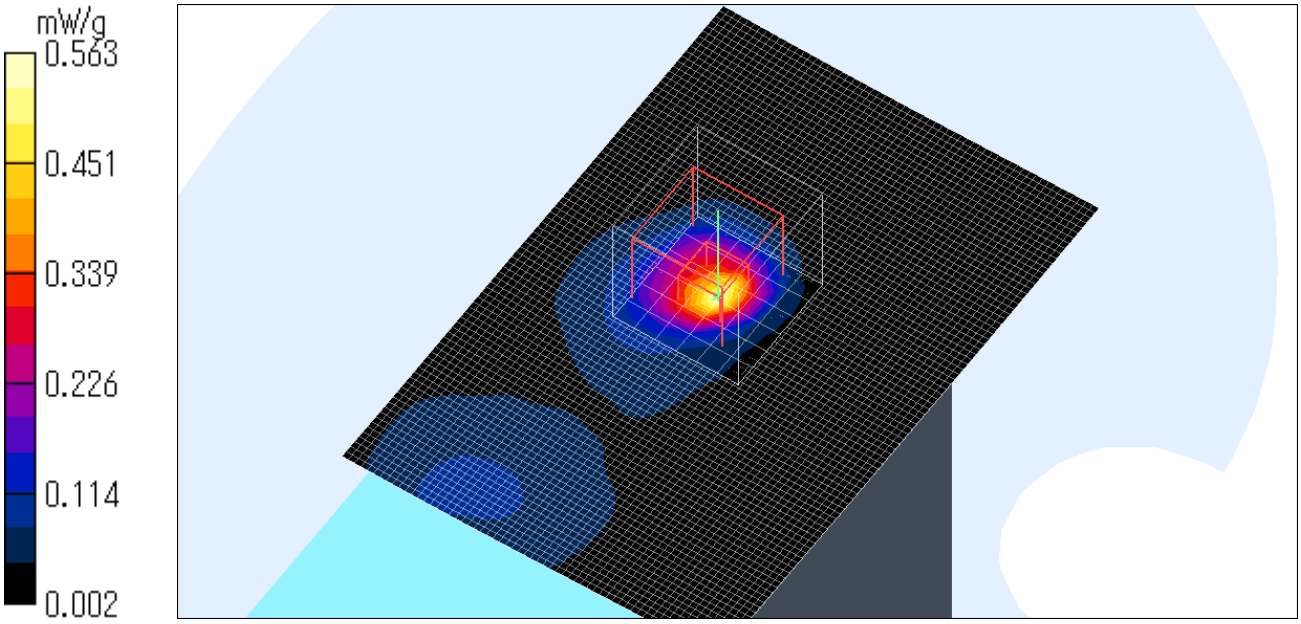
CH91108/ Body / Top / 11g 16QAM (36Mbps) / 2412MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.95 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.24, 8.24, 8.24); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.429 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.7 V/m; Power Drift = -0.105 dB
Peak SAR (extrapolated) = 0.897 W/kg
SAR(1 g) = 0.297 mW/g; SAR(10 g) = 0.117 mW/g
Maximum value of SAR (measured) = 0.563 mW/g
Test Date = 10/24/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.9 degree C. , After 24.9 degree C.



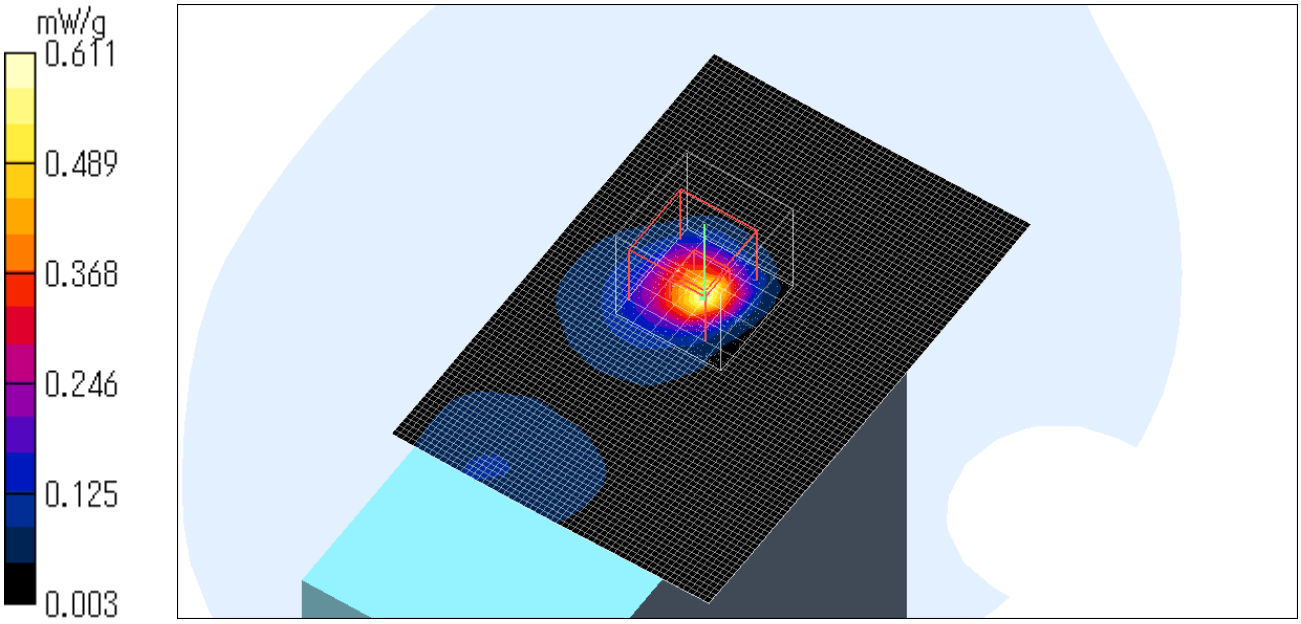
CH91108/ Body / Top / 11g 16QAM (36Mbps) / 2462MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.95 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.24, 8.24, 8.24); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.431 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.2 V/m; Power Drift = -0.211 dB
Peak SAR (extrapolated) = 0.944 W/kg
SAR(1 g) = 0.340 mW/g; SAR(10 g) = 0.139 mW/g
Maximum value of SAR (measured) = 0.611 mW/g
Test Date = 10/24/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.9 degree C. , After 24.9 degree C.



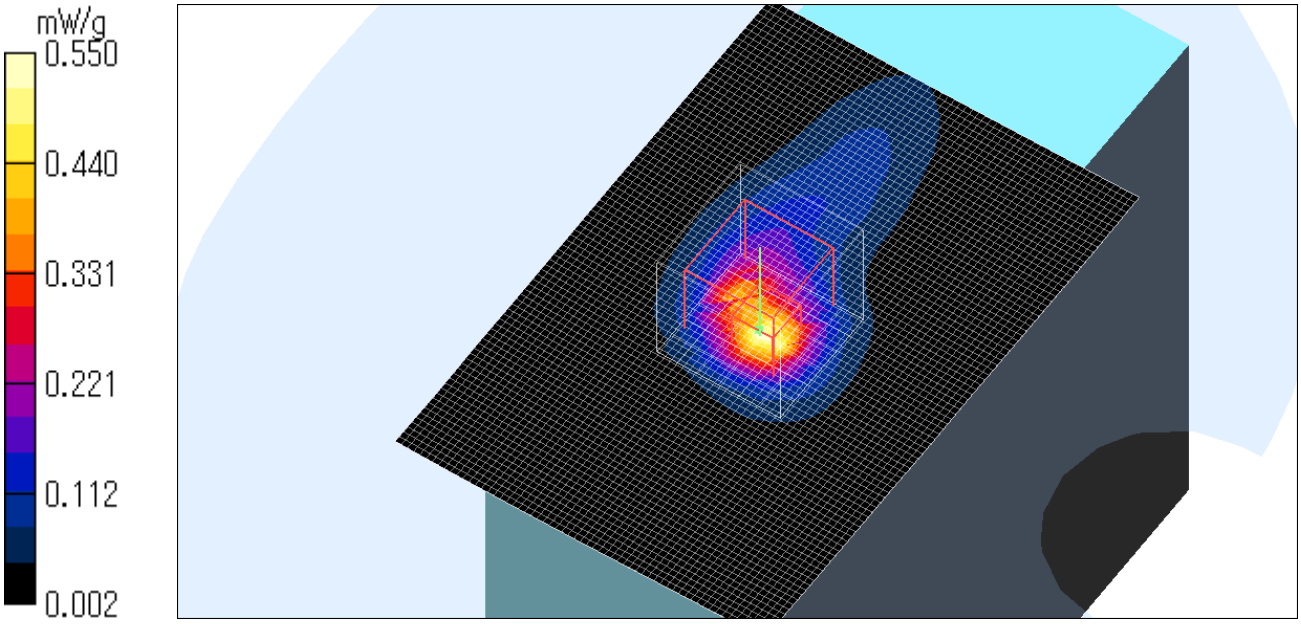
3.Measurement data (Head SAR 2450MHz)
CH91108/ Head / Left side / 11b CCK (11Mbps) / 2437MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.485 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.9 V/m; Power Drift = -0.159 dB
Peak SAR (extrapolated) = 0.957 W/kg
SAR(1 g) = 0.295 mW/g; SAR(10 g) = 0.124 mW/g
Maximum value of SAR (measured) = 0.550 mW/g
Test Date = 10/24/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.5 degree C. , After 24.5 degree C.



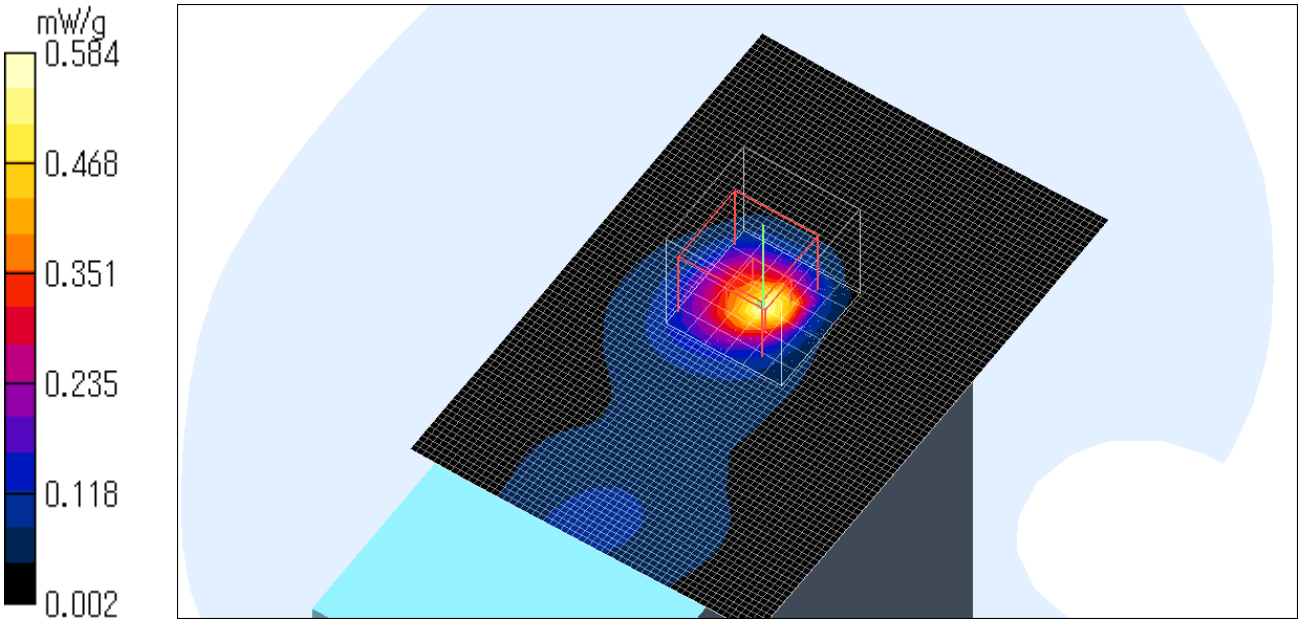
CH91108/ Head / Top / 11b CCK (11Mbps) / 2437MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.669 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.5 V/m; Power Drift = -0.196 dB
Peak SAR (extrapolated) = 0.952 W/kg
SAR(1 g) = 0.325 mW/g; SAR(10 g) = 0.131 mW/g
Maximum value of SAR (measured) = 0.584 mW/g
Test Date = 10/24/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.5 degree C. , After 24.5 degree C.



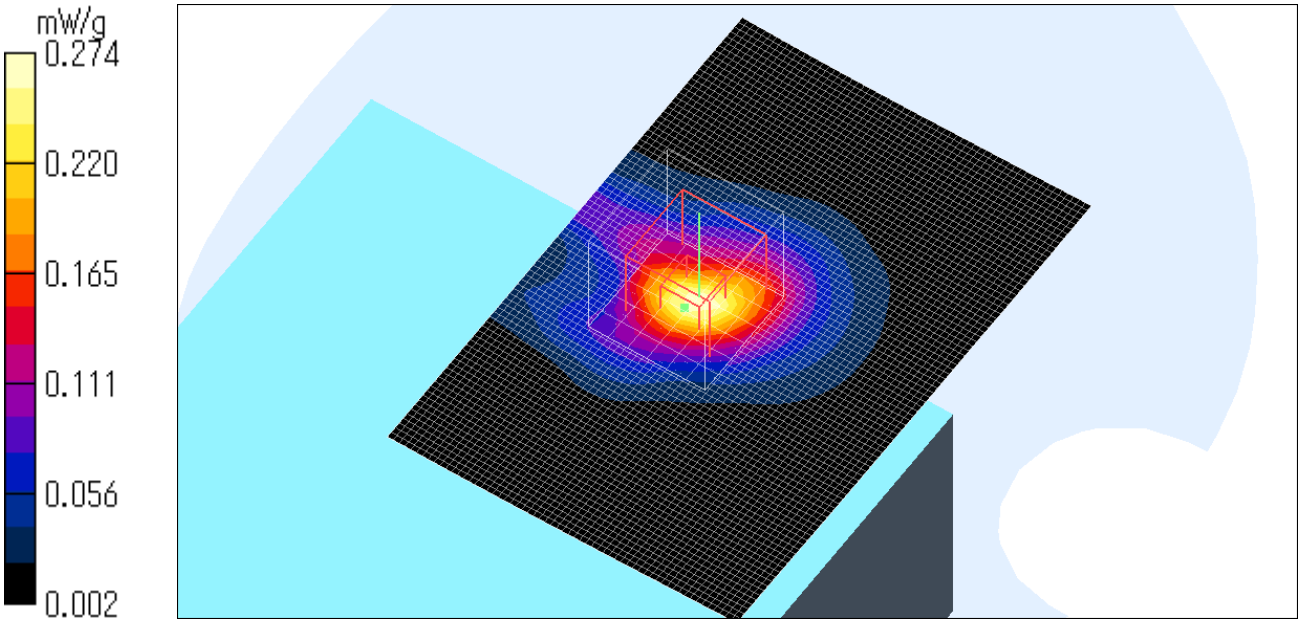
CH91108/ Head / Rear / 11b CCK (11Mbps) / 2437MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.224 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.9 V/m; Power Drift = -0.134 dB
Peak SAR (extrapolated) = 0.371 W/kg
SAR(1 g) = 0.182 mW/g; SAR(10 g) = 0.087 mW/g
Maximum value of SAR (measured) = 0.274 mW/g
Test Date = 10/24/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.5 degree C. , After 24.5 degree C.



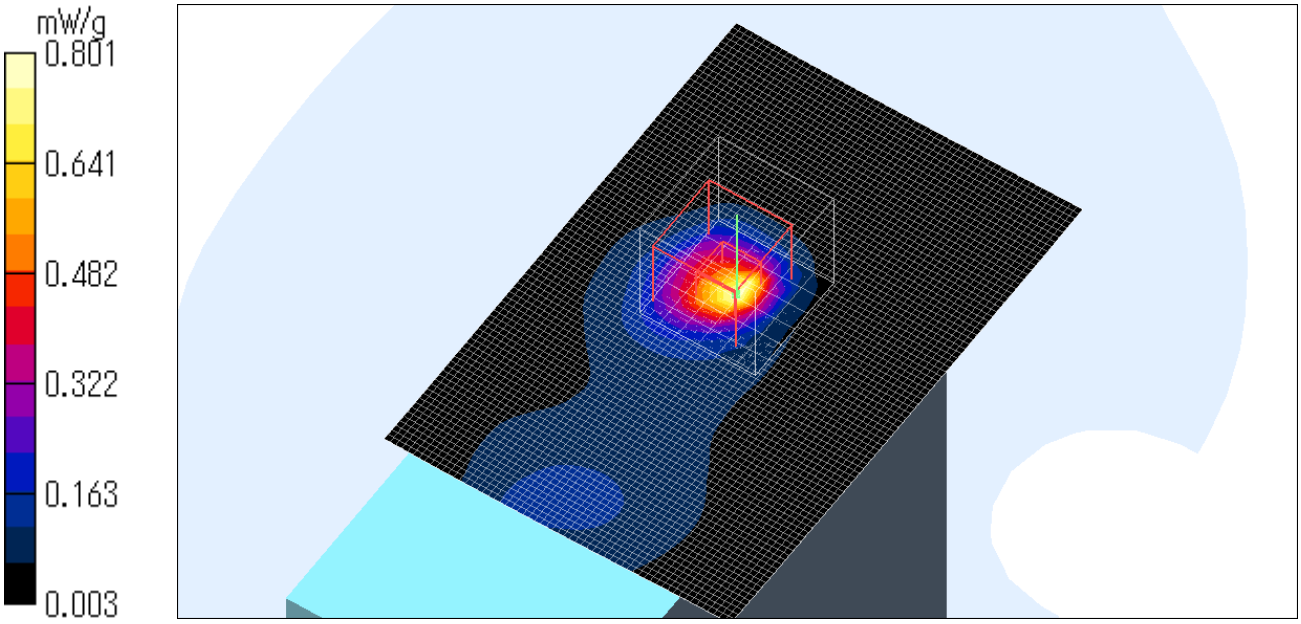
CH91108/ Head / Top / 11b CCK (11Mbps) / 2412MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.714 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.7 V/m; Power Drift = -0.166 dB
Peak SAR (extrapolated) = 1.39 W/kg
SAR(1 g) = 0.433 mW/g; SAR(10 g) = 0.168 mW/g
Maximum value of SAR (measured) = 0.801 mW/g
Test Date = 10/24/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.5 degree C. , After 24.5 degree C.

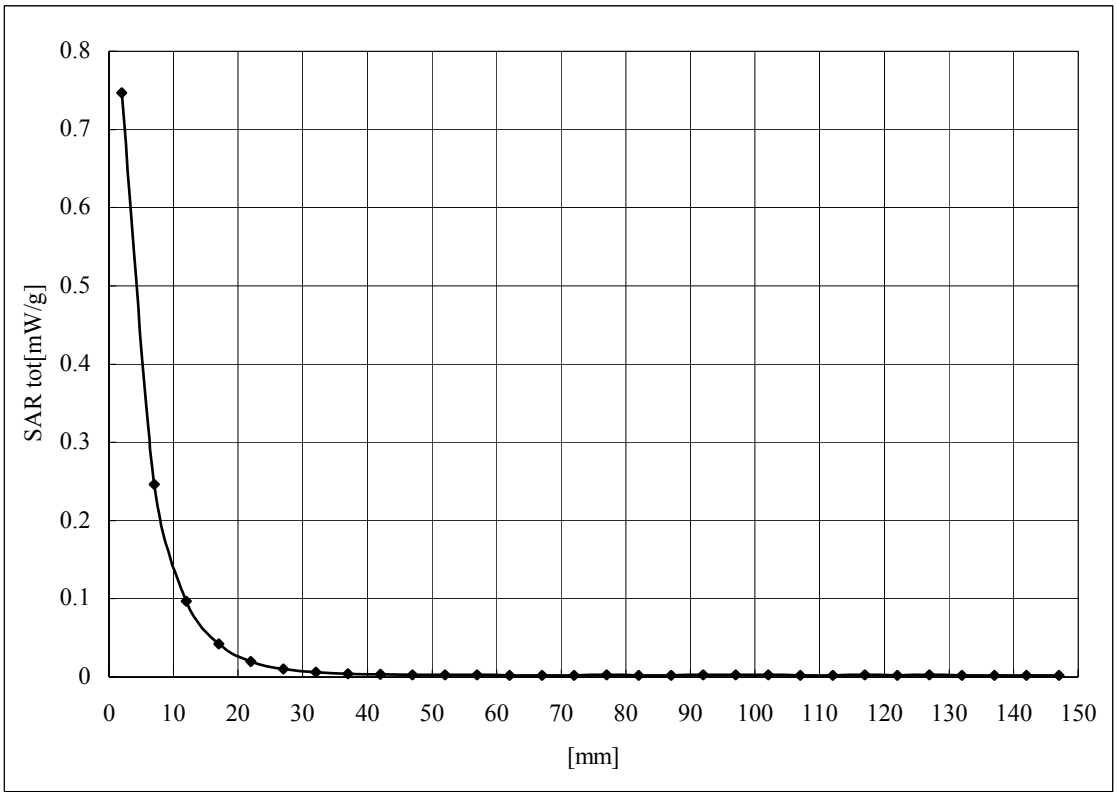


Z-axis scan at max SAR location

CH91108/ Head / Top / 11b CCK (11Mbps) / 2412MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160



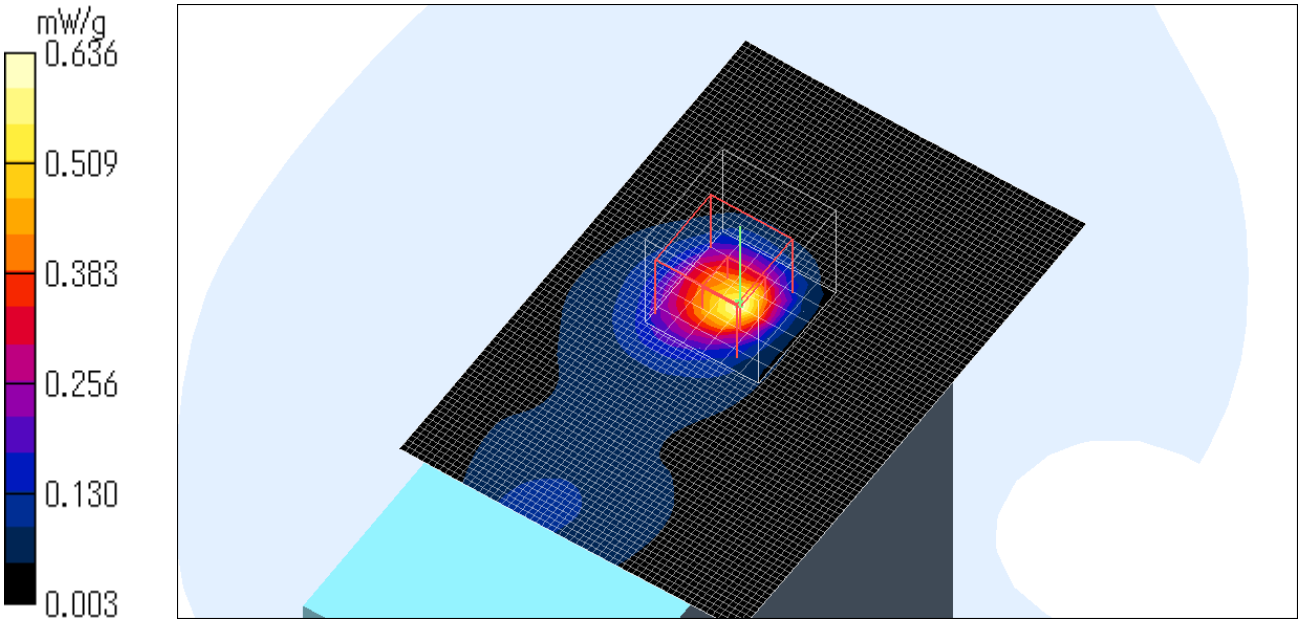
CH91108/ Head / Top / 11b CCK (11Mbps) / 2462MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.577 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.5 V/m; Power Drift = -0.178 dB
Peak SAR (extrapolated) = 0.989 W/kg
SAR(1 g) = 0.361 mW/g; SAR(10 g) = 0.151 mW/g
Maximum value of SAR (measured) = 0.636 mW/g
Test Date = 10/24/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.5 degree C. , After 24.5 degree C.



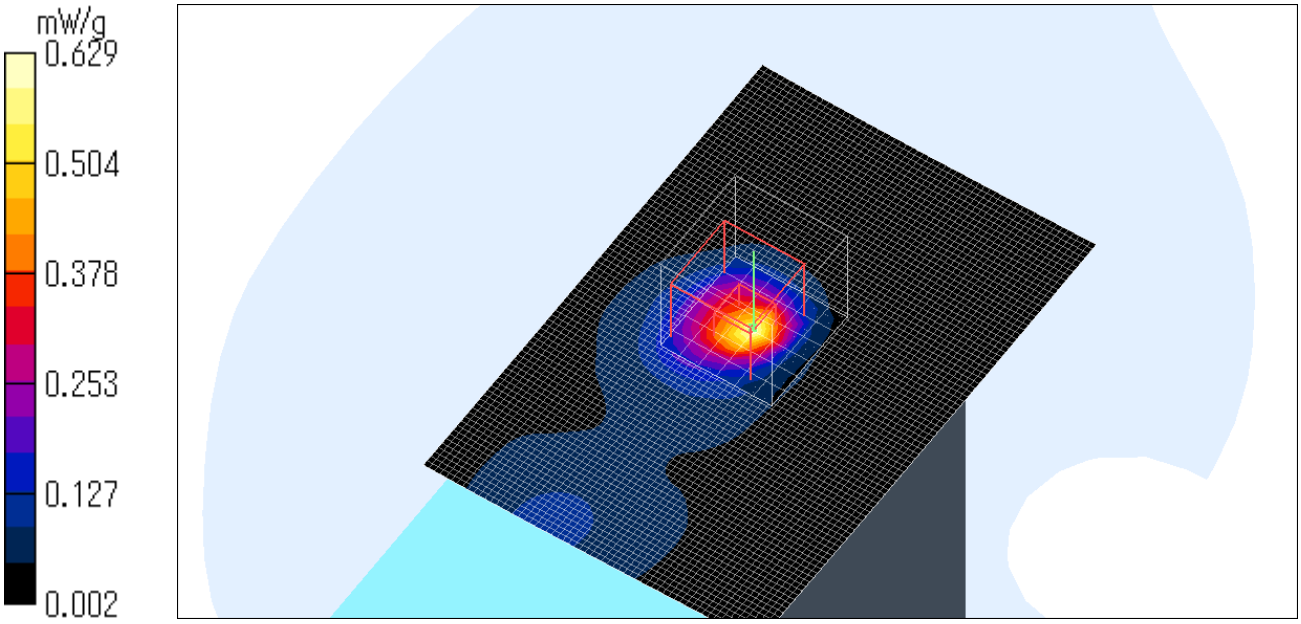
CH91108/ Head / Top / 11g BPSK (9Mbps) / 2437MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.557 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.9 V/m; Power Drift = -0.177 dB
Peak SAR (extrapolated) = 1.03 W/kg
SAR(1 g) = 0.330 mW/g; SAR(10 g) = 0.130 mW/g
Maximum value of SAR (measured) = 0.629 mW/g
Test Date = 10/25/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 23.8 degree C. , After 23.8 degree C.



CH91108/ Head / Top / 11g QPSK (12Mbps) / 2437MHz

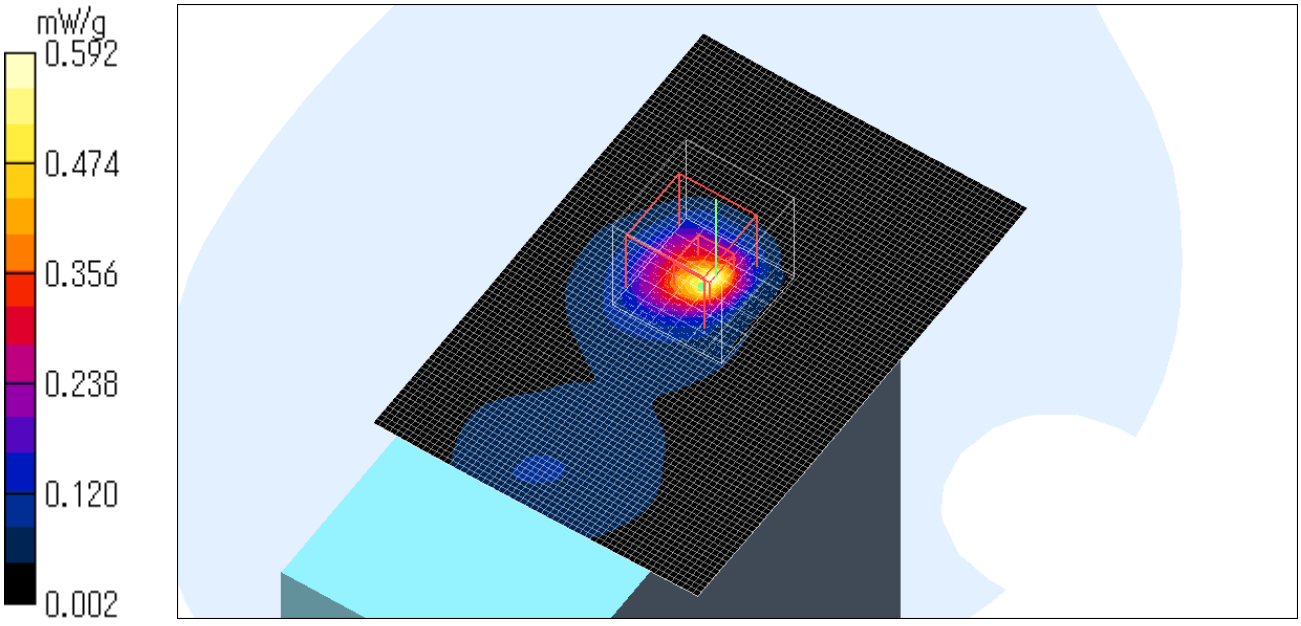
Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.512 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.7 V/m; Power Drift = -0.148 dB
Peak SAR (extrapolated) = 1.03 W/kg
SAR(1 g) = 0.311 mW/g; SAR(10 g) = 0.121 mW/g
Maximum value of SAR (measured) = 0.592 mW/g

Test Date = 10/25/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 23.8 degree C. , After 23.8 degree C.



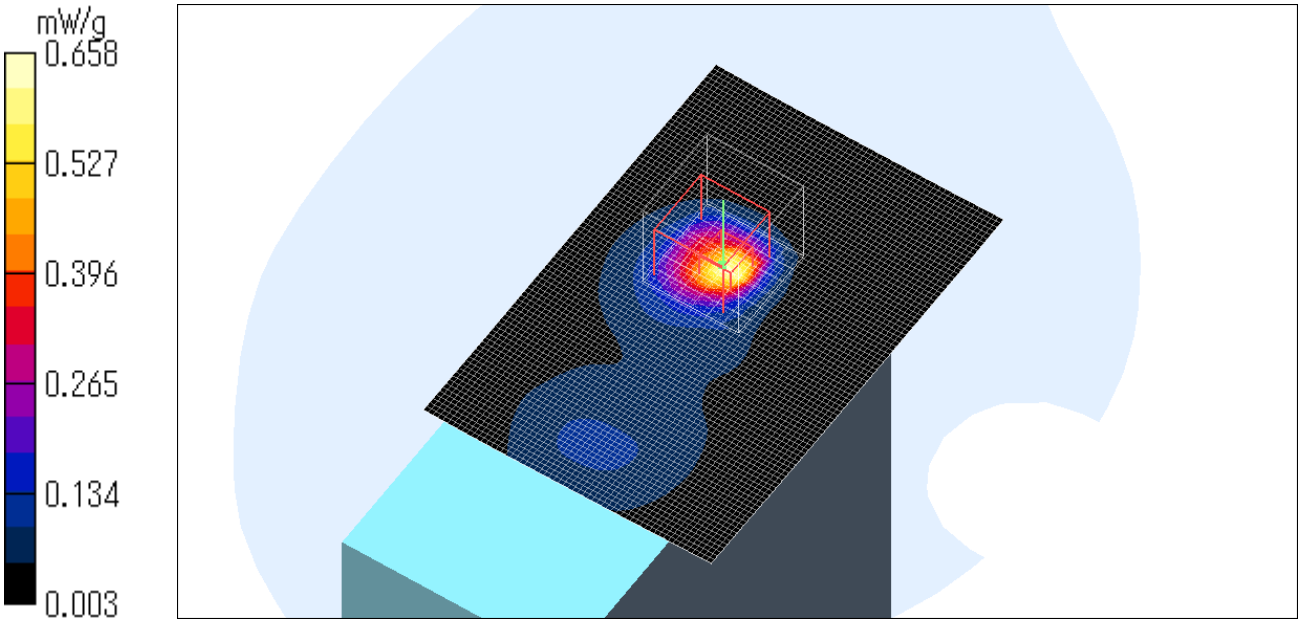
CH91108/ Head / Top / 11g 16QAM (36Mbps) / 2437MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.561 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.5 V/m; Power Drift = -0.135 dB
Peak SAR (extrapolated) = 1.19 W/kg
SAR(1 g) = 0.376 mW/g; SAR(10 g) = 0.149 mW/g
Maximum value of SAR (measured) = 0.658 mW/g
Test Date = 10/25/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 23.8 degree C. , After 23.8 degree C.



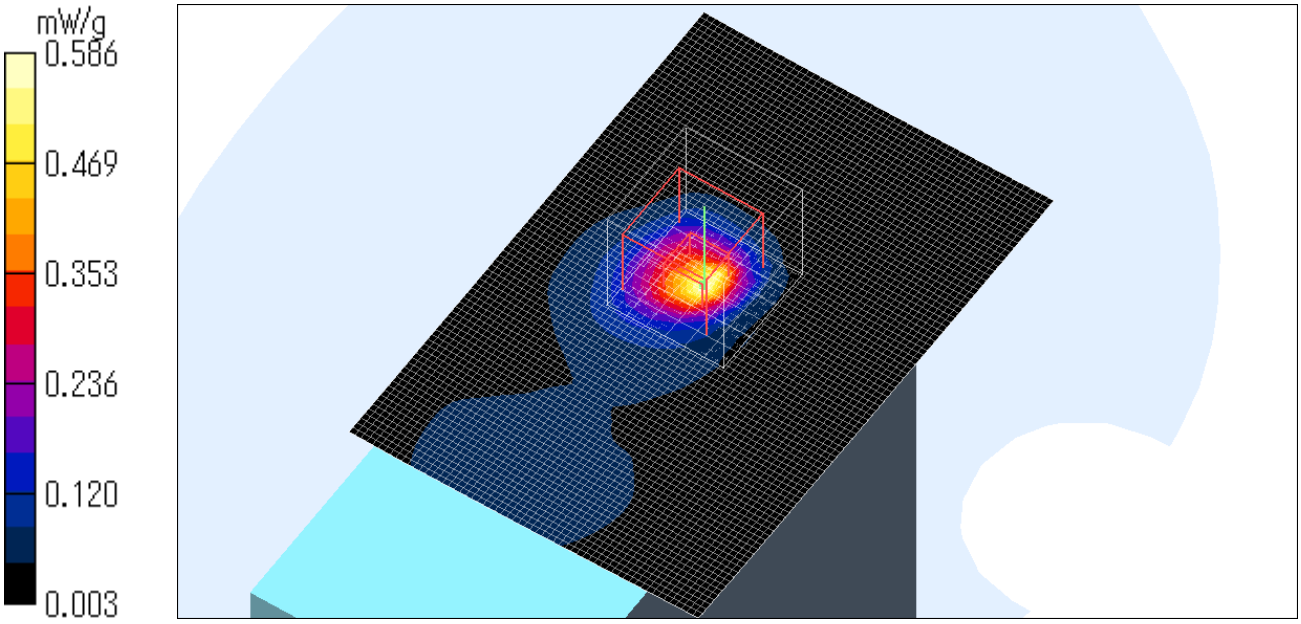
CH91108/ Head / Top / 11g 64QAM (54Mbps) / 2437MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.518 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.0 V/m; Power Drift = -0.185 dB
Peak SAR (extrapolated) = 1.00 W/kg
SAR(1 g) = 0.309 mW/g; SAR(10 g) = 0.119 mW/g
Maximum value of SAR (measured) = 0.586 mW/g
Test Date = 10/25/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 23.8 degree C. , After 23.9 degree C.



CH91108/ Head / Left side / 11g 16QAM (36Mbps) / 2437MHz

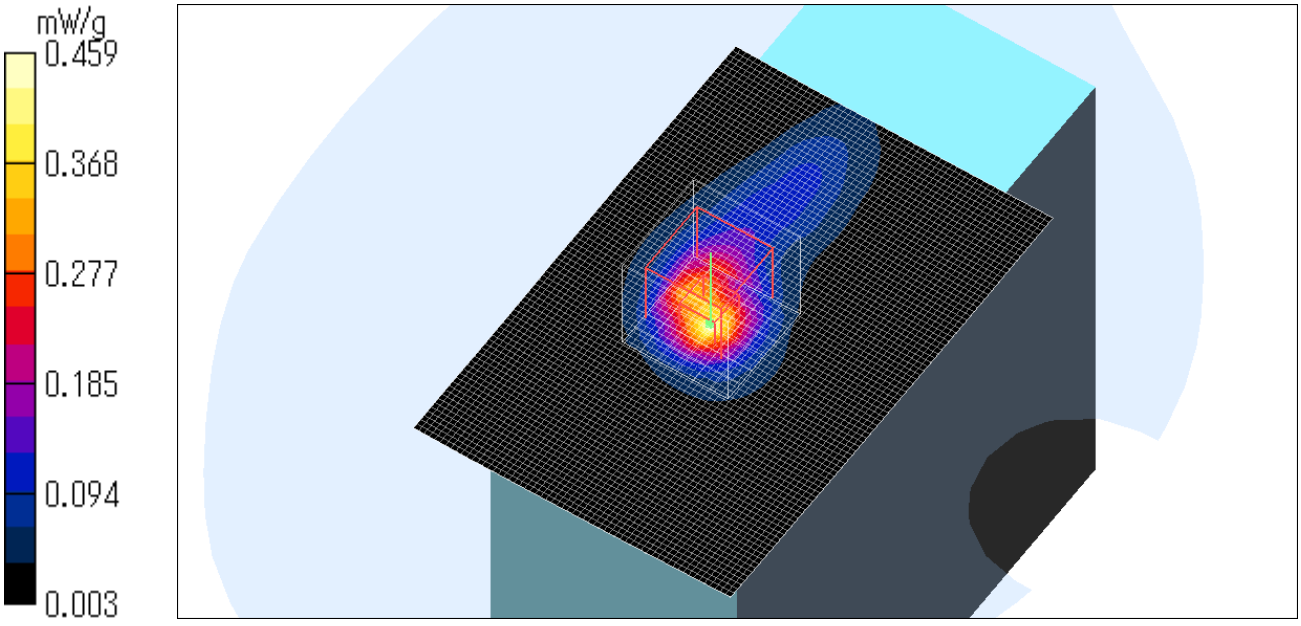
Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.434 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.5 V/m; Power Drift = -0.194 dB
Peak SAR (extrapolated) = 0.786 W/kg
SAR(1 g) = 0.236 mW/g; SAR(10 g) = 0.103 mW/g
Maximum value of SAR (measured) = 0.459 mW/g

Test Date = 10/25/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 23.9 degree C. , After 23.9 degree C.



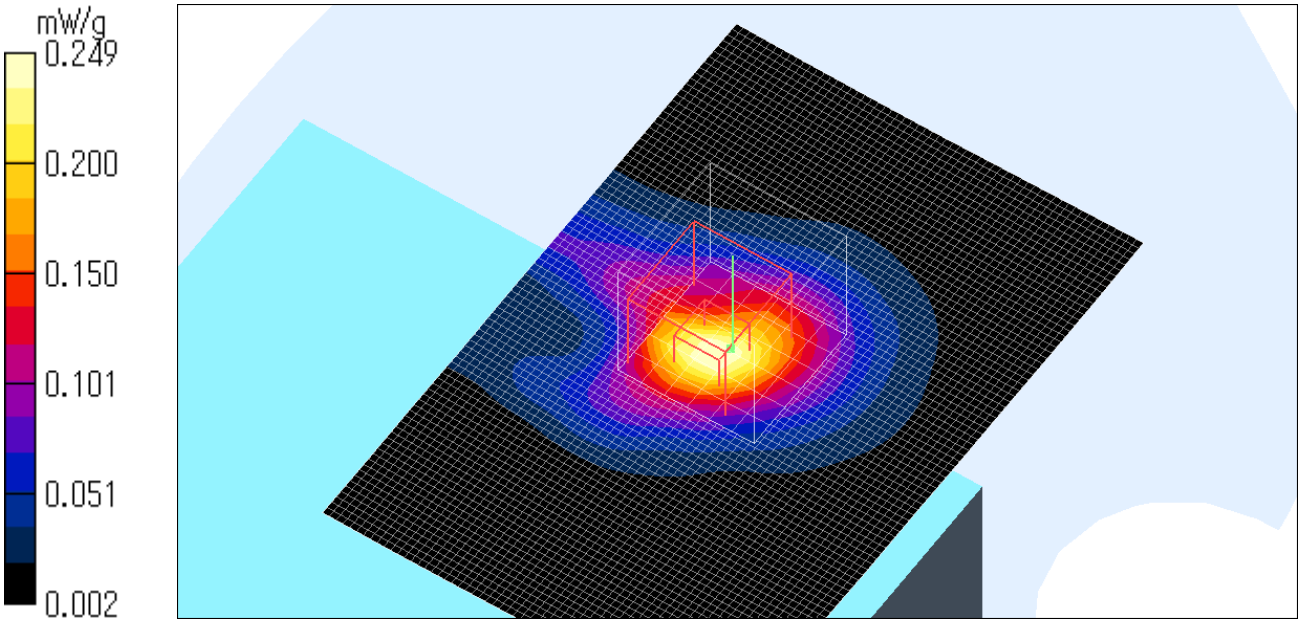
CH91108/ Head / Rear / 11g 16QAM (36Mbps) / 2437MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.232 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.2 V/m; Power Drift = -0.138 dB
Peak SAR (extrapolated) = 0.343 W/kg
SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.081 mW/g
Maximum value of SAR (measured) = 0.249 mW/g
Test Date = 10/25/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 23.9 degree C. , After 24.0 degree C.



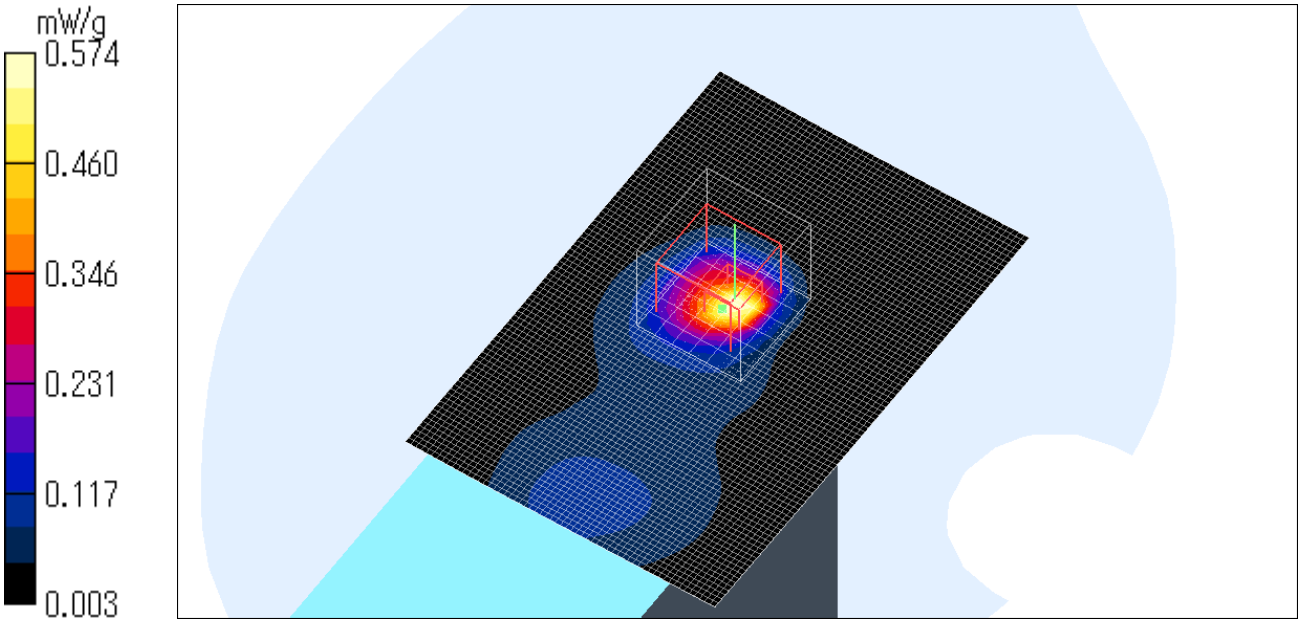
CH91108/ Head / Top / 11g 16QAM (36Mbps) / 2412MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.591 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.0 V/m; Power Drift = -0.205 dB
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.338 mW/g; SAR(10 g) = 0.134 mW/g
Maximum value of SAR (measured) = 0.574 mW/g
Test Date = 10/25/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.0 degree C. , After 24.2degree C.



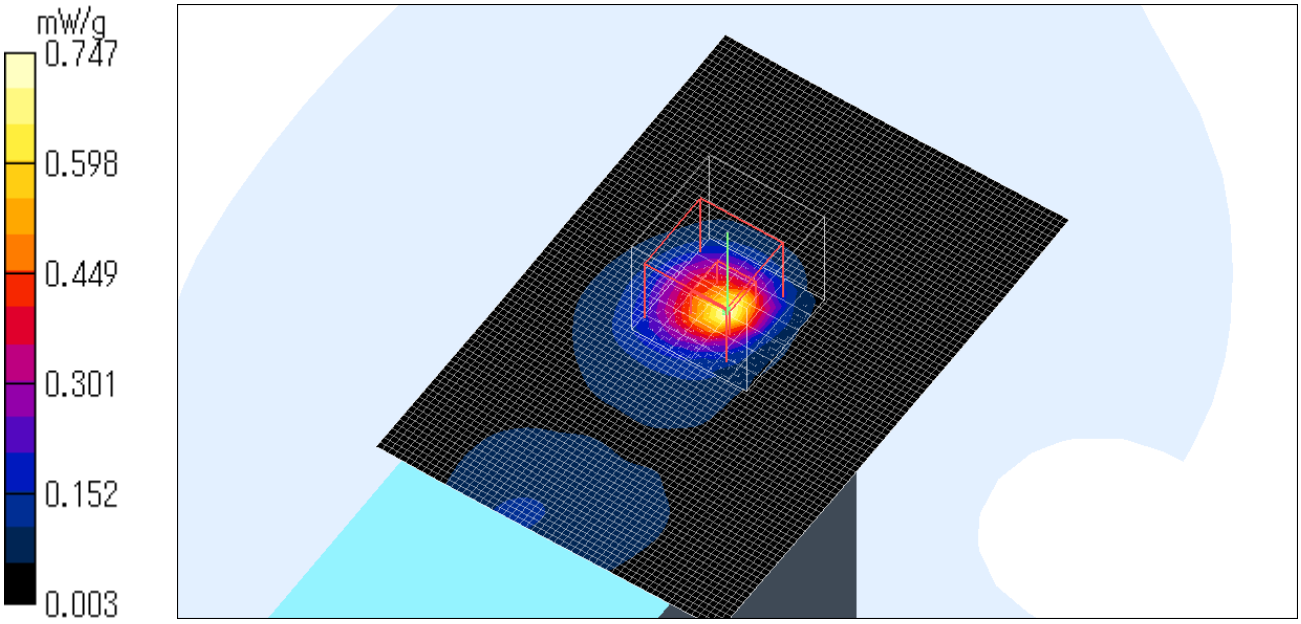
CH91108/ Head / Top / 11g 16QAM (36Mbps) / 2462MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.836 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.1 V/m; Power Drift = -0.209 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.400 mW/g; SAR(10 g) = 0.159 mW/g
Maximum value of SAR (measured) = 0.747 mW/g
Test Date = 10/25/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.2 degree C. , After 24.2 degree C.

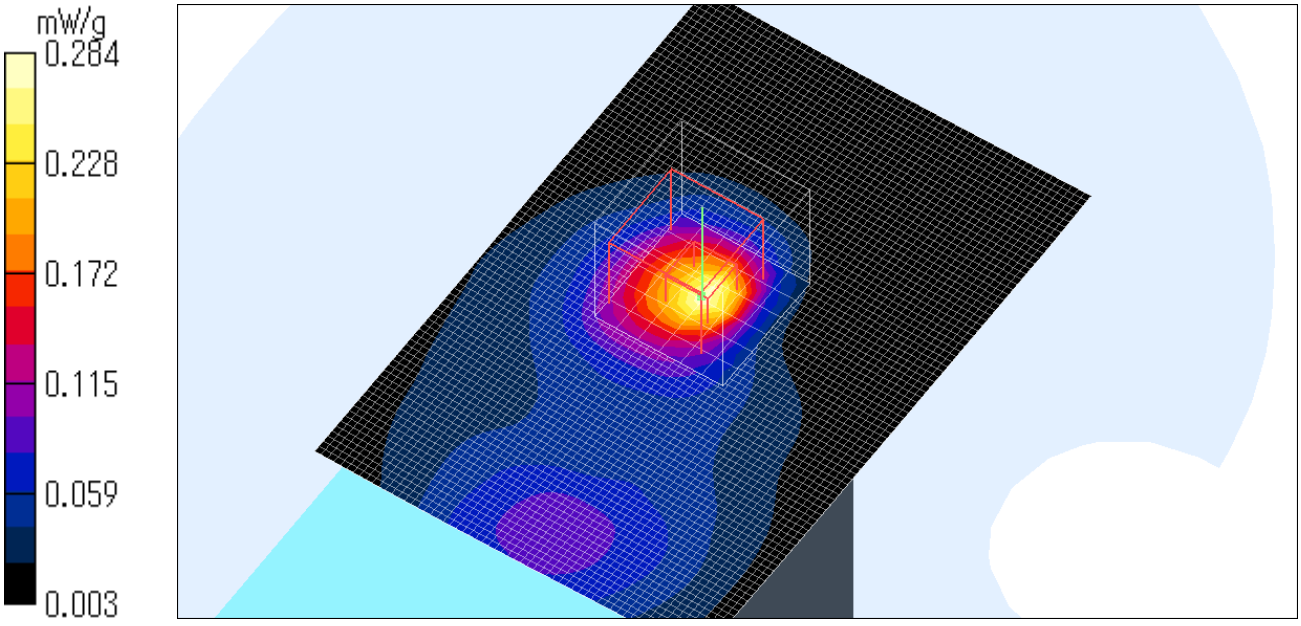


CH91108/ Head / Top 5mm / 11b CCK (11Mbps) / 2412MHz
Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.312 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.2 V/m; Power Drift = -0.158 dB
Peak SAR (extrapolated) = 0.421 W/kg
SAR(1 g) = 0.173 mW/g; SAR(10 g) = 0.079 mW/g
Maximum value of SAR (measured) = 0.284 mW/g
Test Date = 10/25/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.1 degree C. , After 24.1 degree C.



CH91108/ Head / Top 10mm / 11b CCK (11Mbps) / 2412MHz

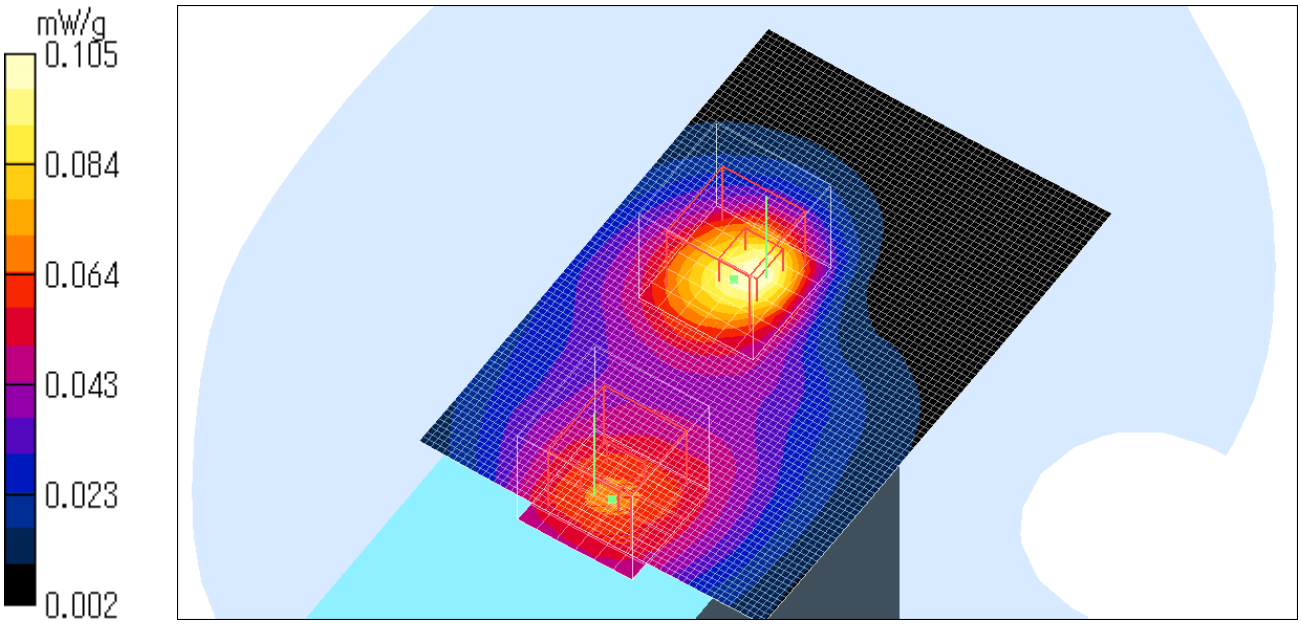
Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.097 mW/g

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.80 V/m; Power Drift = -0.147 dB
Peak SAR (extrapolated) = 0.084 W/kg
SAR(1 g) = 0.047 mW/g; SAR(10 g) = 0.028 mW/g
Maximum value of SAR (measured) = 0.065 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.80 V/m; Power Drift = -0.147 dB
Peak SAR (extrapolated) = 0.144 W/kg
SAR(1 g) = 0.073 mW/g; SAR(10 g) = 0.038 mW/g
Maximum value of SAR (measured) = 0.105 mW/g
Test Date = 10/25/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.1 degree C. , After 24.1 degree C.



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CH91108/ Head / Top 15mm / 11b CCK (11Mbps) / 2412MHz

Crest Factor: 1
Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ε_r = 37.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)
DASY4 Configuration:
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE3 Sn509; Calibrated: 2006/06/15
Phantom: SAM 1196
Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.056 mW/g

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.09 V/m; Power Drift = -0.208 dB
Peak SAR (extrapolated) = 0.058 W/kg
SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.021 mW/g
Maximum value of SAR (measured) = 0.045 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.09 V/m; Power Drift = -0.208 dB
Peak SAR (extrapolated) = 0.073 W/kg
SAR(1 g) = 0.041 mW/g; SAR(10 g) = 0.023 mW/g
Maximum value of SAR (measured) = 0.056 mW/g

Test Date = 10/25/06
Ambient Temperature = 25.0 degree C.
Liquid Temperature = Before 24.2 degree C. , After 24.2 degree C.