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 28mm x 28mm x 22.5mm was assessed by measuring 8 x 8 x 10 points for IEEE802.11a(5G) and a volume of 30mm x 30mm x 30mm was assessed by measuring 7 x 7 x 7 points for IEEE802.11b (2.4G) 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 1mm. Therefore minimum distance of probe sensor from surface was set to the 2mm.
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.

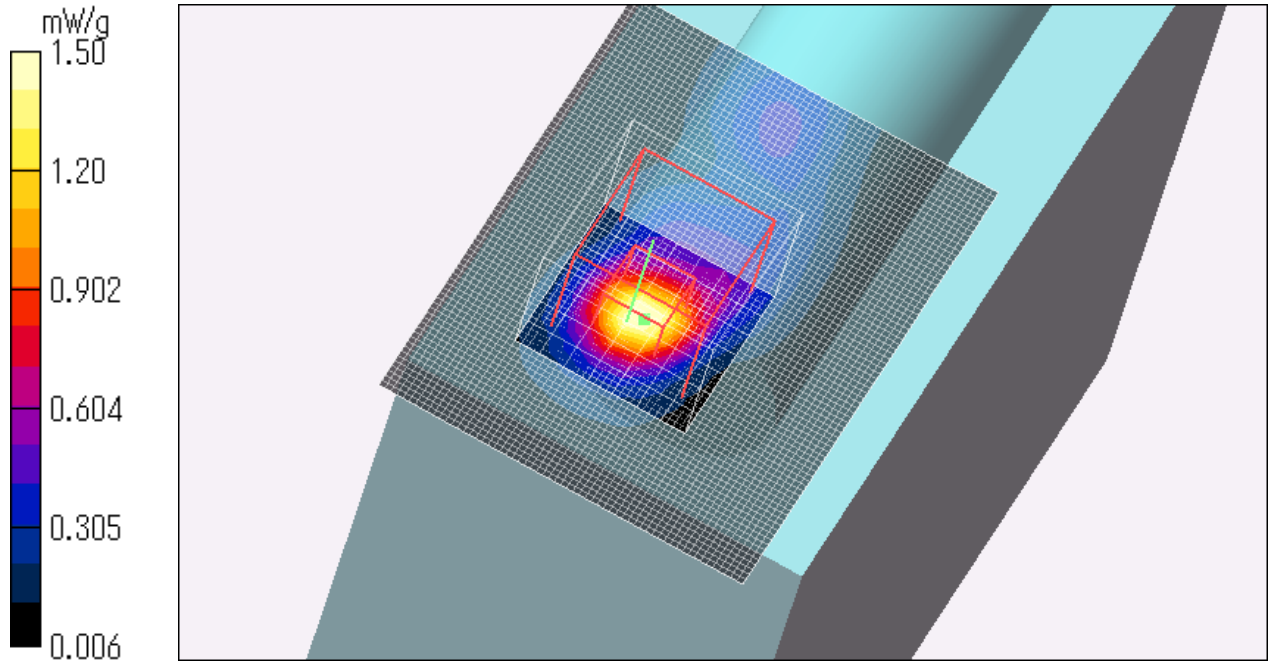
(3). All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

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

2. Measurement data (Body SAR 5180-5320MHz band)
CH9-1161/Body/Side/11a BPSK6Mbps/5240MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5200 MHz; σ = 5.38 mho/m; ε_r = 48.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.63 mW/g

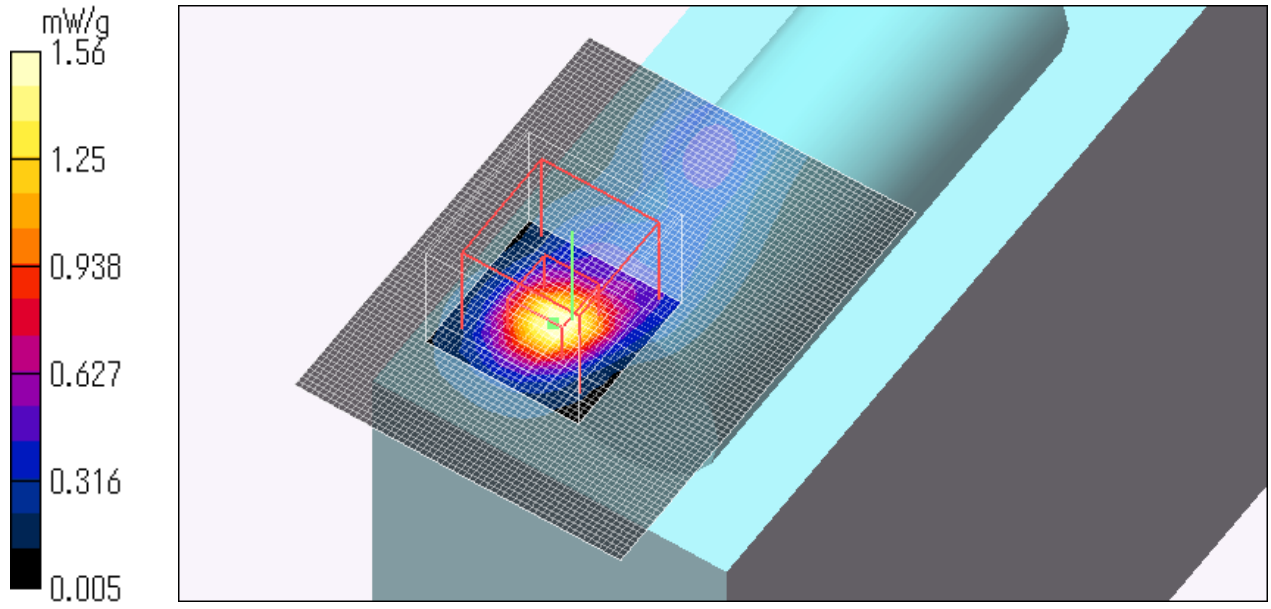
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 12.6 V/m; Power Drift = -0.089 dB
Peak SAR (extrapolated) = 2.96 W/kg
SAR(1 g) = 0.762 mW/g; SAR(10 g) = 0.218 mW/g
Maximum value of SAR (measured) = 1.50 mW/g
Test Date = 11/09/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



CH9-1161/Body/Side/11a QPSK18Mbps/5240MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5200 MHz; σ = 5.38 mho/m; ε_r = 48.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.63 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 12.9 V/m; Power Drift = -0.184 dB
Peak SAR (extrapolated) = 3.14 W/kg
SAR(1 g) = 0.794 mW/g; SAR(10 g) = 0.223 mW/g
Maximum value of SAR (measured) = 1.56 mW/g
Test Date = 11/09/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C

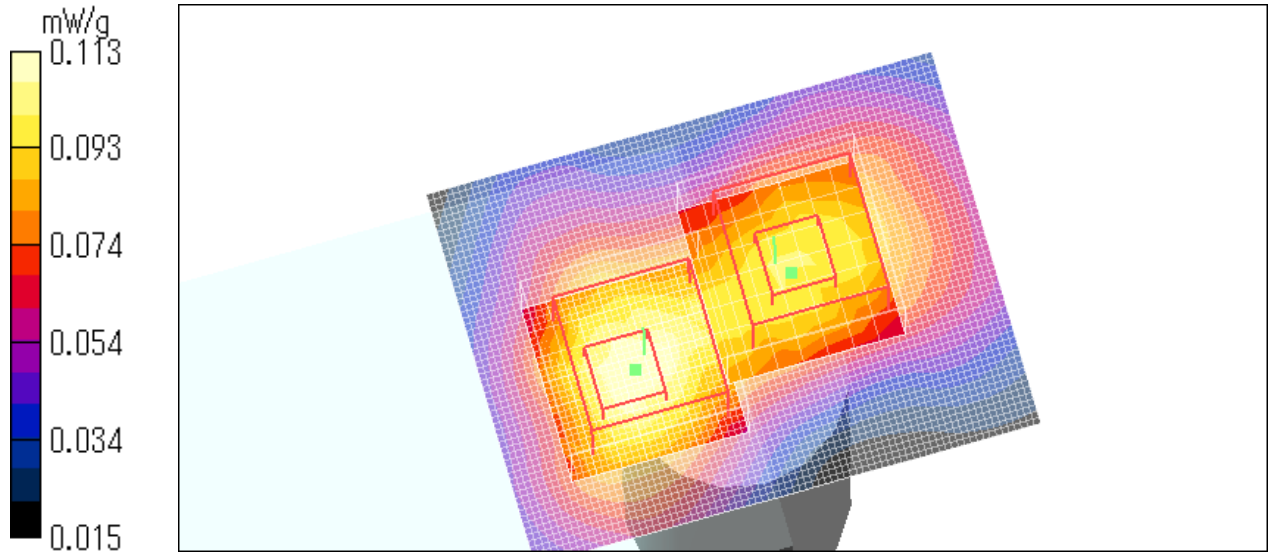


CH9-1161/Body/Top/11a QPSK18Mbps/5240MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5200 MHz; σ = 5.38 mho/m; ε_r = 48.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.113 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 4.71 V/m; Power Drift = -0.074 dB
Peak SAR (extrapolated) = 0.191 W/kg
SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.034 mW/g
Maximum value of SAR (measured) = 0.113 mW/g

Zoom Scan (8x8x10)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 4.71 V/m; Power Drift = -0.074 dB
Peak SAR (extrapolated) = 0.176 W/kg
SAR(1 g) = 0.061 mW/g; SAR(10 g) = 0.032 mW/g
Maximum value of SAR (measured) = 0.102 mW/g
Test Date = 11/09/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C

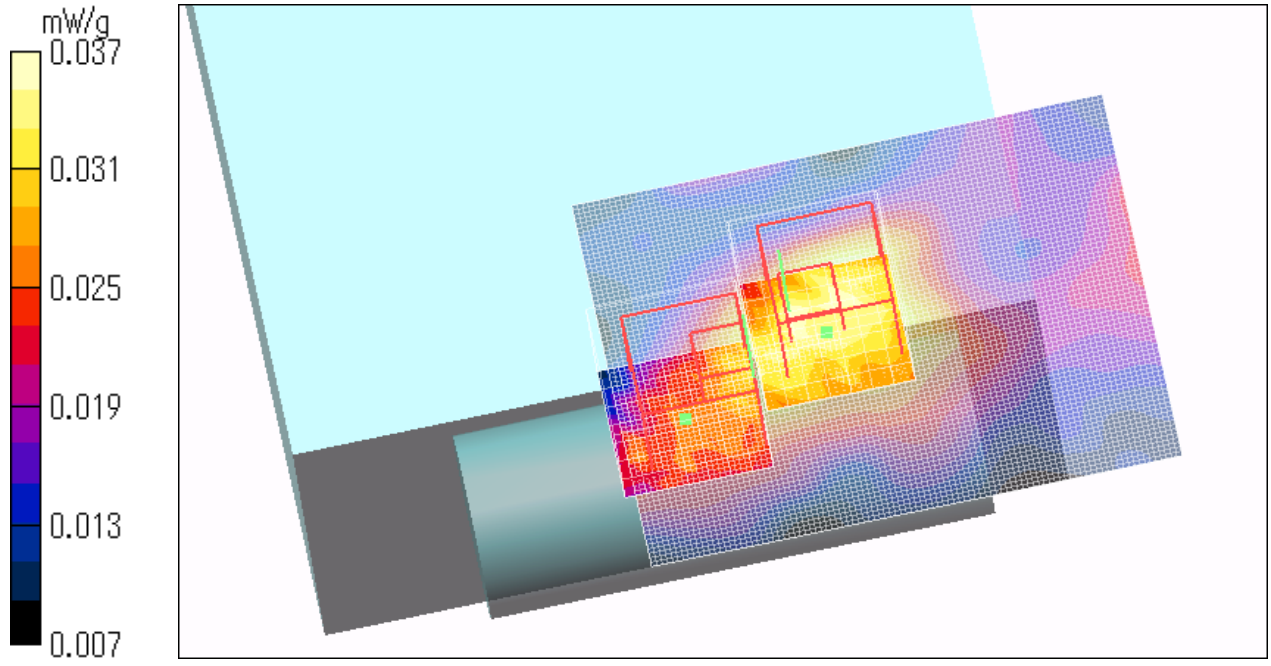


CH9-1161/Body/Front/11a QPSK18Mbps/5240MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5200 MHz; σ = 5.38 mho/m; ε_r = 48.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.037 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.67 V/m; Power Drift = 0.098 dB
Peak SAR (extrapolated) = 0.090 W/kg
SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.016 mW/g
Maximum value of SAR (measured) = 0.037 mW/g

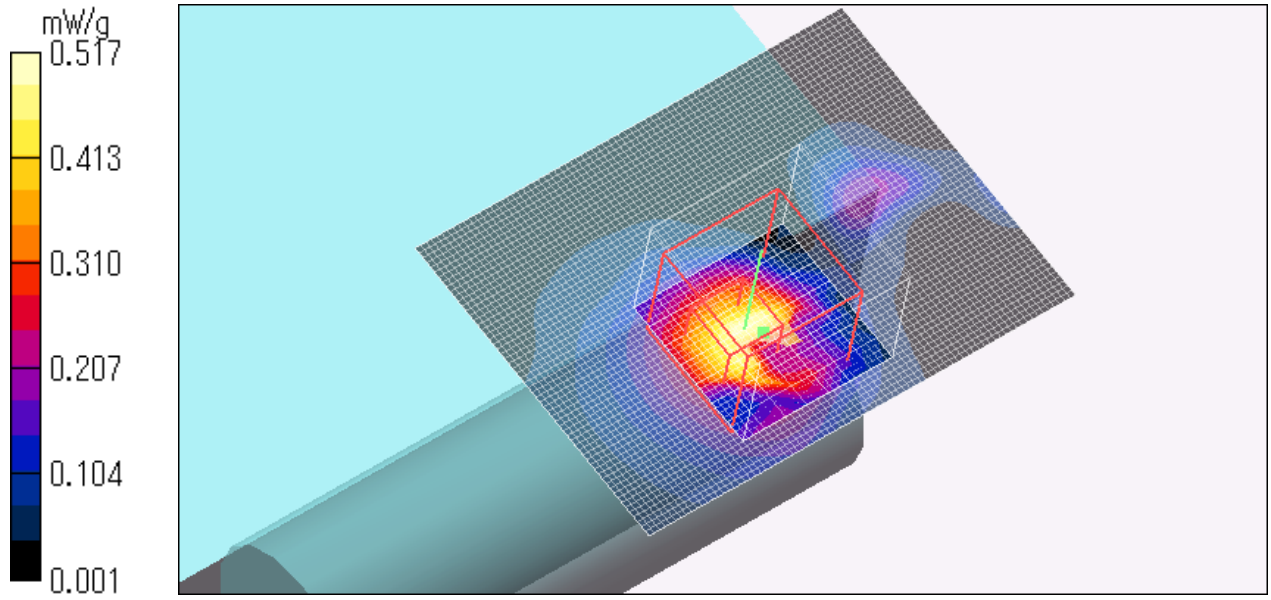
Zoom Scan (8x8x10)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.67 V/m; Power Drift = 0.098 dB
Peak SAR (extrapolated) = 0.072 W/kg
SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.013 mW/g
Maximum value of SAR (measured) = 0.033 mW/g
Test Date = 11/09/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



CH9-1161/Body/Rear/11a QPSK18Mbps/5240MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5200 MHz; σ = 5.38 mho/m; ε_r = 48.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.551 mW/g

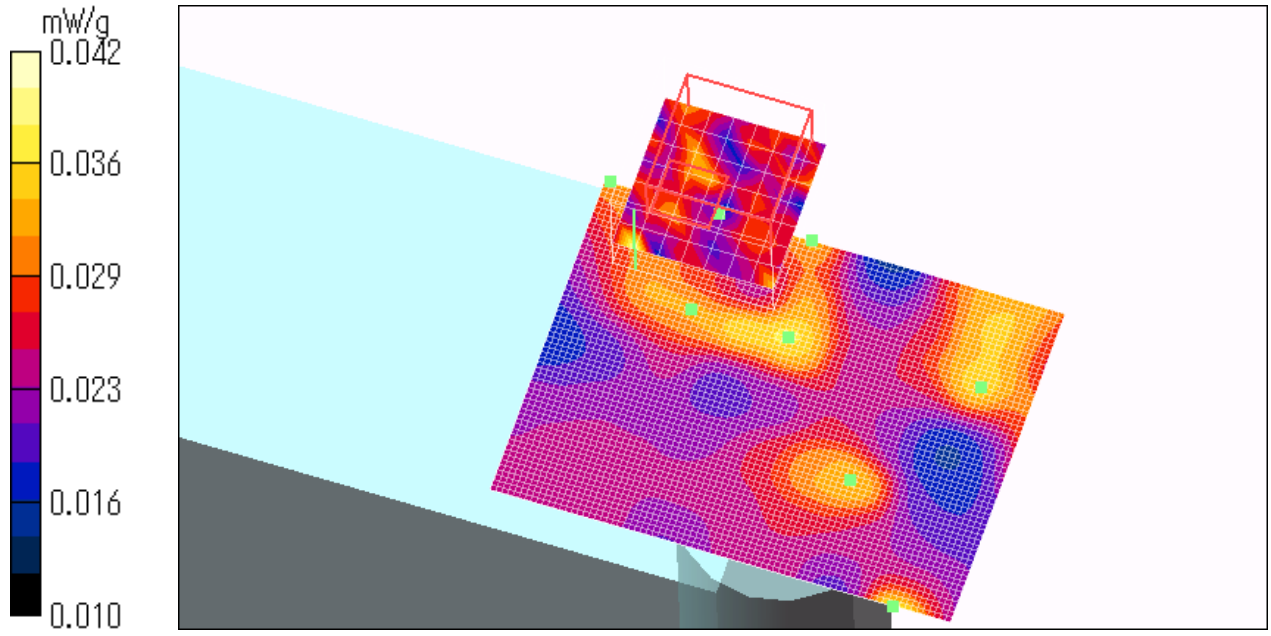
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.25 V/m; Power Drift = -0.144 dB
Peak SAR (extrapolated) = 2.55 W/kg
SAR(1 g) = 0.244 mW/g; SAR(10 g) = 0.076 mW/g
Maximum value of SAR (measured) = 0.517 mW/g
Test Date = 11/09/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



CH9-1161/Body/Bottom/11a QPSK18Mbps/5240MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5200 MHz; σ = 5.38 mho/m; ε_r = 48.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.042 mW/g

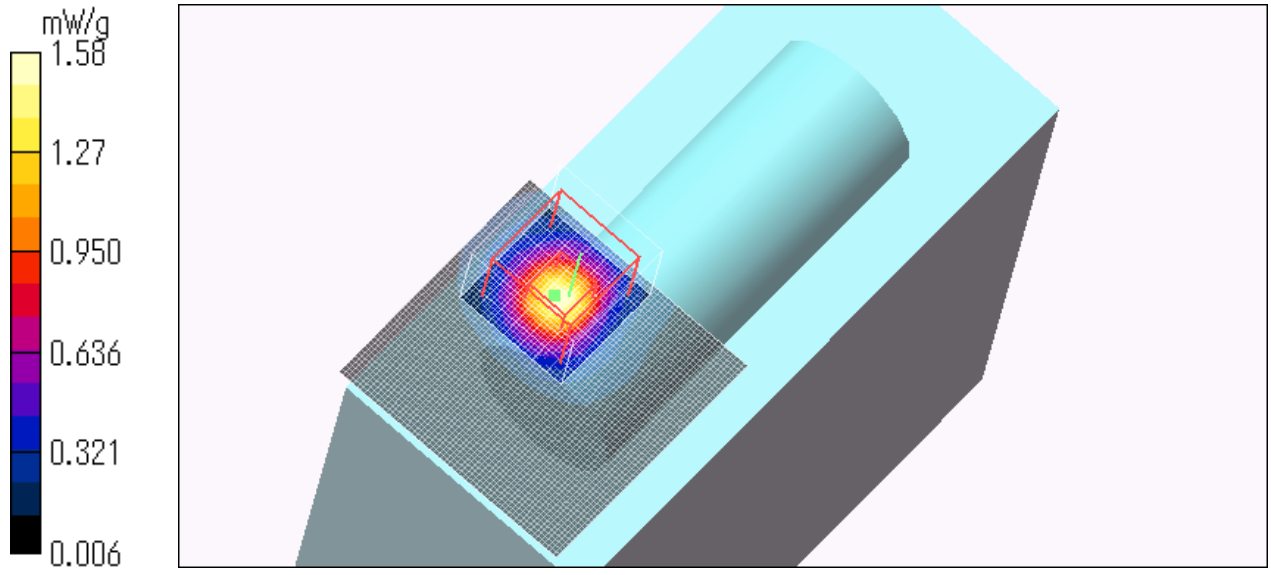
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.47 V/m; Power Drift = -0.176 dB
Peak SAR (extrapolated) = 0.046 W/kg
SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.025 mW/g
Maximum value of SAR (measured) = 0.042 mW/g
Test Date = 11/09/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



CH9-1161/Body/Side/11a QPSK18Mbps/5180MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5200 MHz; σ = 5.38 mho/m; ε_r = 48.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x61x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.52 mW/g

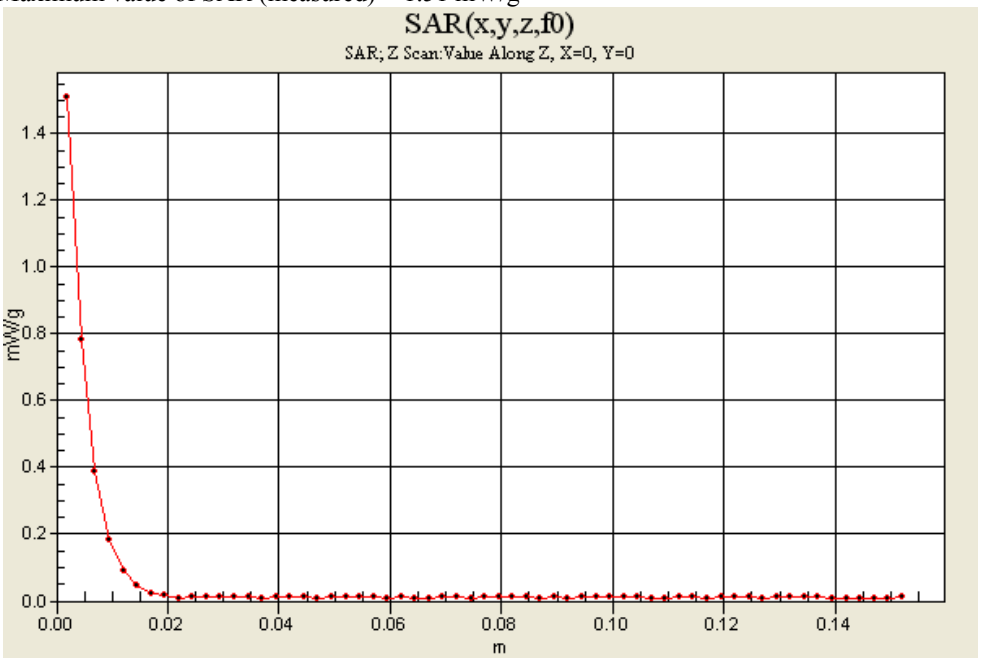
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 8.21 V/m; Power Drift = -0.180 dB
Peak SAR (extrapolated) = 2.90 W/kg
SAR(1 g) = 0.824 mW/g; SAR(10 g) = 0.257 mW/g
Maximum value of SAR (measured) = 1.58 mW/g
Test Date = 11/09/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



Z-axis scan at max SAR location
CH9-1161/Body/Side/11a QPSK18Mbps/5180MHz

Crest factor:1
Medium: M5800 Medium parameters used: f = 5200 MHz; σ = 5.38 mho/m; ε_r = 48.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.58, 4.58, 4.58); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

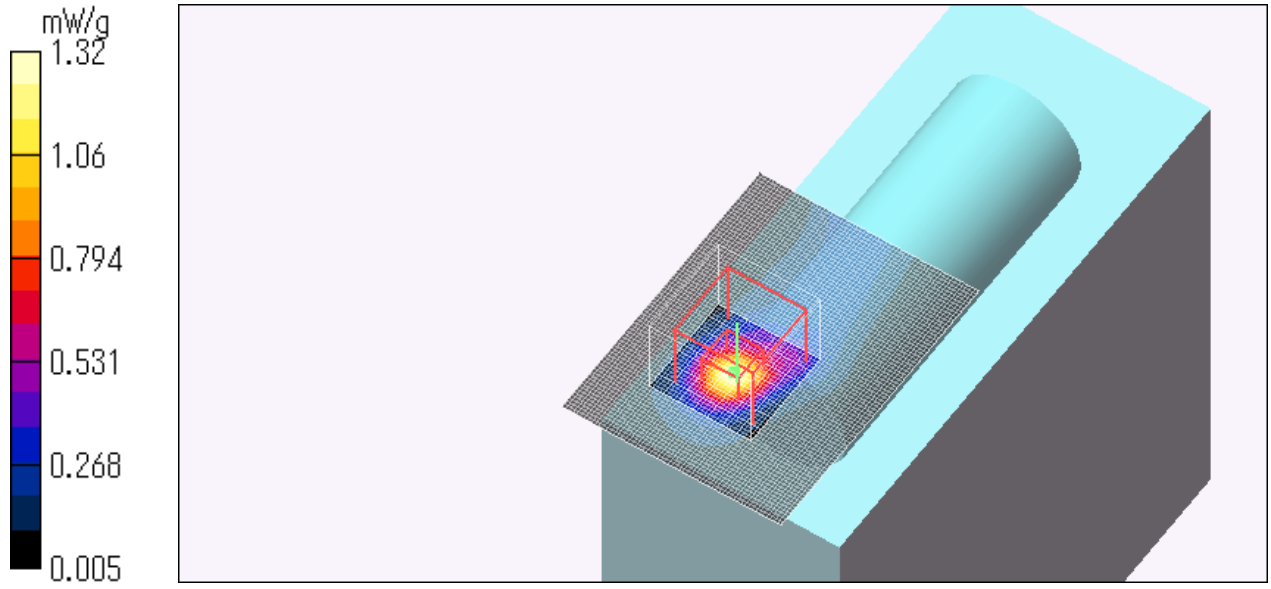
Z Scan (1x1x61): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm
Maximum value of SAR (measured) = 1.51 mW/g



CH9-1161/Body/Side/11a QPSK18Mbps/5280MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5300 MHz; σ = 5.54 mho/m; ε_r = 47.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.38, 4.38, 4.38); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.38 mW/g

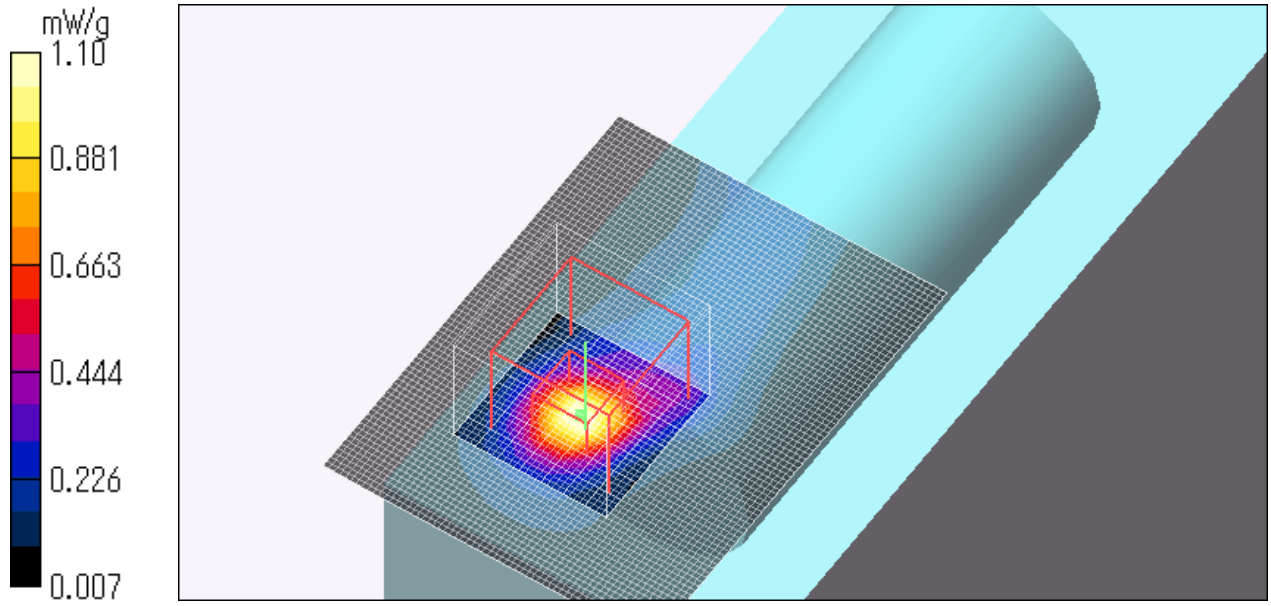
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 10.6 V/m; Power Drift = -0.170 dB
Peak SAR (extrapolated) = 2.60 W/kg
SAR(1 g) = 0.663 mW/g; SAR(10 g) = 0.193 mW/g
Maximum value of SAR (measured) = 1.32 mW/g
Test Date = 11/09/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C



CH9-1161/Body/Side/11a QPSK18Mbps/5320MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5300 MHz; σ = 5.54 mho/m; ε_r = 47.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.38, 4.38, 4.38); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.18 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 9.37 V/m; Power Drift = -0.207 dB
Peak SAR (extrapolated) = 2.18 W/kg
SAR(1 g) = 0.557 mW/g; SAR(10 g) = 0.163 mW/g
Maximum value of SAR (measured) = 1.10 mW/g
Test Date = 11/09/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 23.5degree.C , After 23.5 degree.C

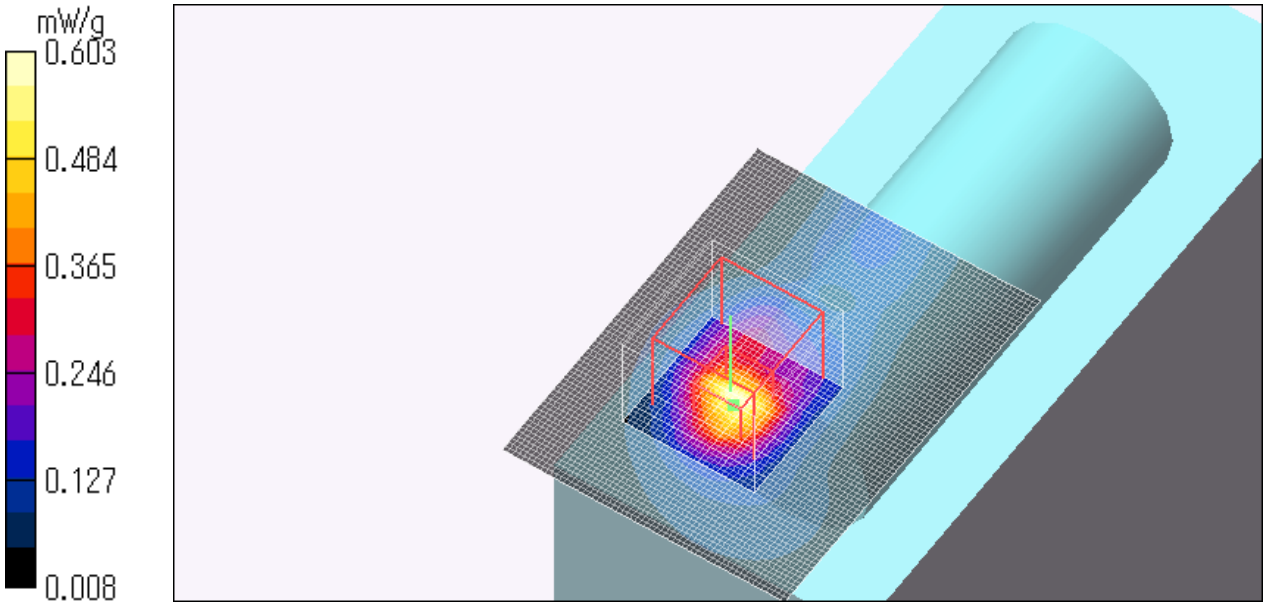


3. Measurement data (Body SAR 5500-5700MHz band)

CH9-1161/Body/Side/11a BPSK6Mbps/5600MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5600 MHz; σ = 5.92 mho/m; ε_r = 46.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.76, 3.76, 3.76); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.572 mW/g

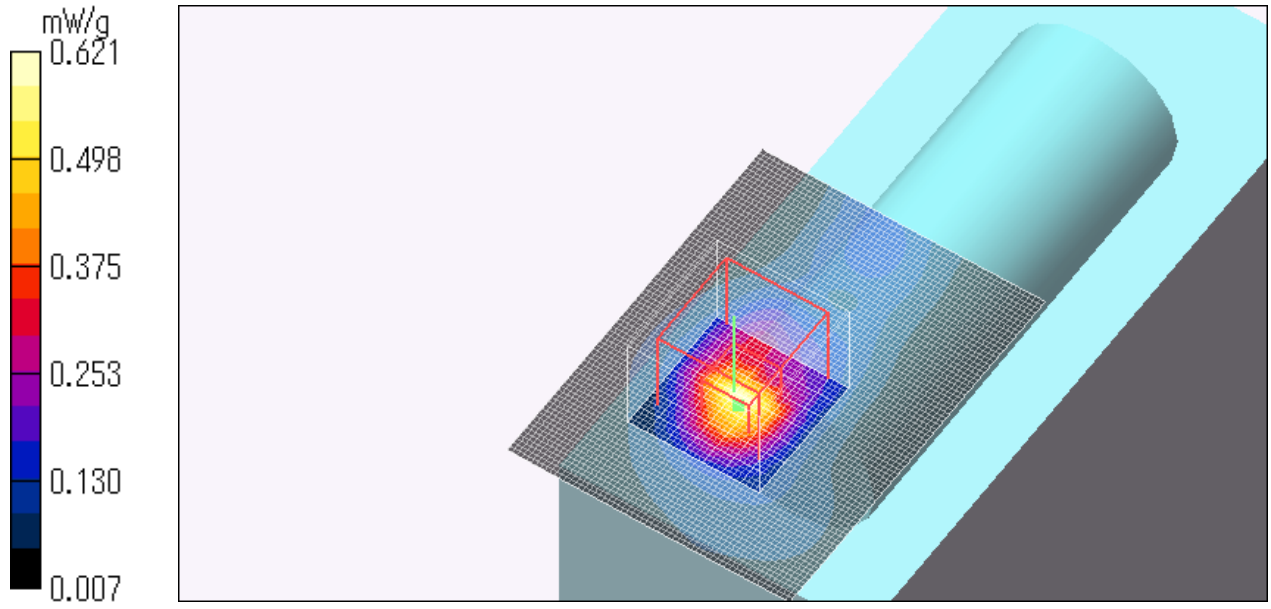
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.40 V/m; Power Drift = -0.035 dB
Peak SAR (extrapolated) = 1.20 W/kg
SAR(1 g) = 0.298 mW/g; SAR(10 g) = 0.103 mW/g
Maximum value of SAR (measured) = 0.603 mW/g
Test Date = 11/10/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 23.9degree.C , After 23.9 degree.C



CH9-1161/Body/Side/11a QPSK18Mbps/5600MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5600 MHz; σ = 5.92 mho/m; ε_r = 46.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.76, 3.76, 3.76); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.587 mW/g

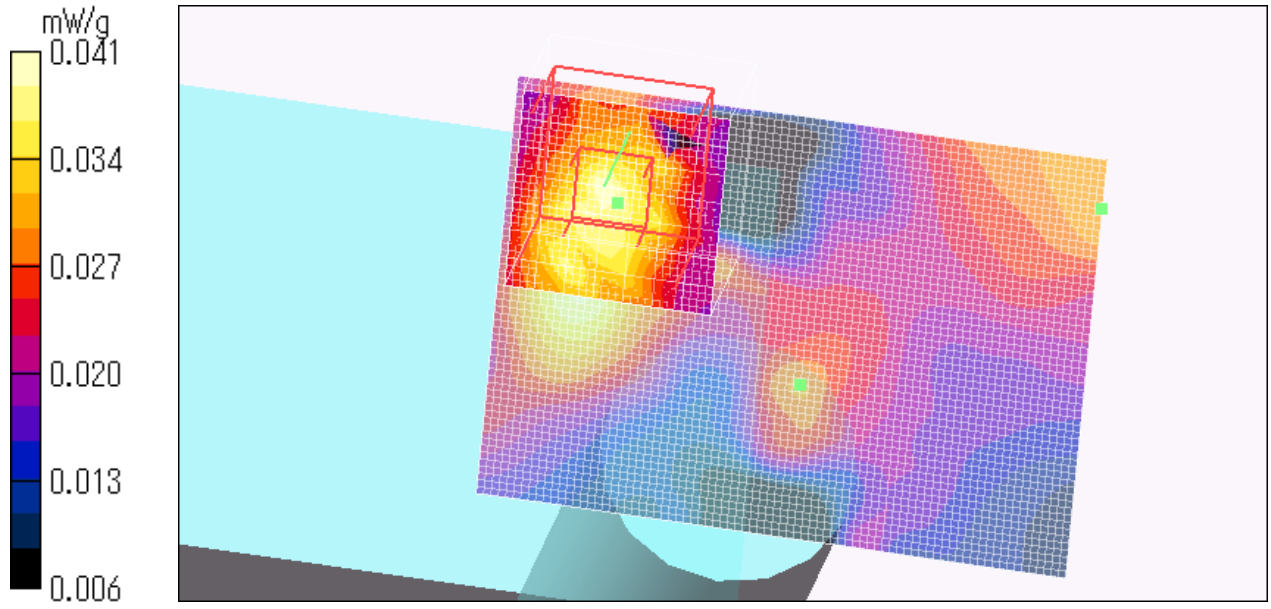
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.44 V/m; Power Drift = -0.183 dB
Peak SAR (extrapolated) = 1.19 W/kg
SAR(1 g) = 0.303 mW/g; SAR(10 g) = 0.105 mW/g
Maximum value of SAR (measured) = 0.621 mW/g
Test Date = 11/10/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C



CH9-1161/Body/Top/11a QPSK18Mbps/5600MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5600 MHz; σ = 5.92 mho/m; ε_r = 46.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.76, 3.76, 3.76); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.047 mW/g

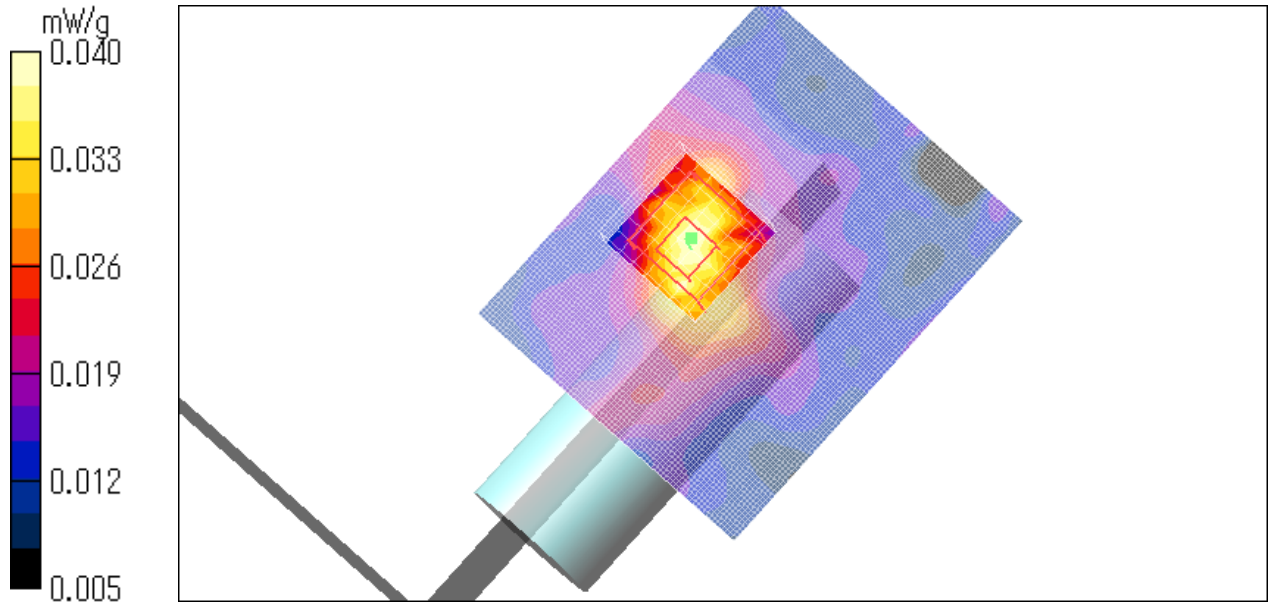
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.24 V/m; Power Drift = -0.101 dB
Peak SAR (extrapolated) = 0.106 W/kg
SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.016 mW/g
Maximum value of SAR (measured) = 0.041 mW/g
Test Date = 11/10/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C



CH9-1161/Body/Front/11a QPSK18Mbps/5600MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5600 MHz; σ = 5.92 mho/m; ε_r = 46.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.76, 3.76, 3.76); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.039 mW/g

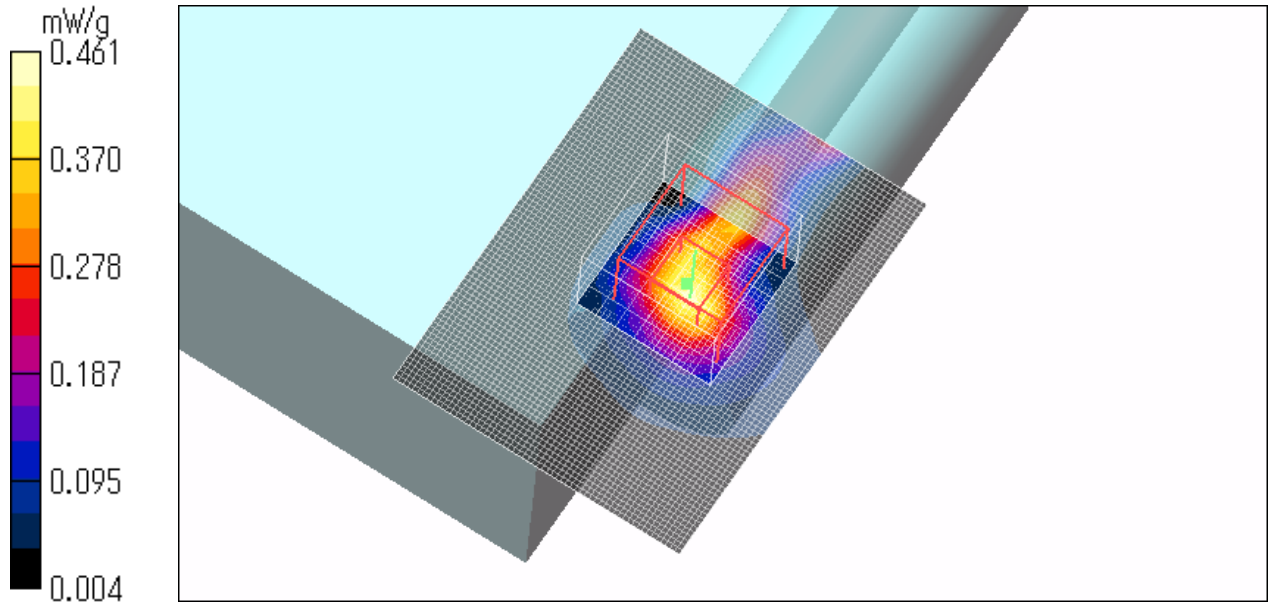
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.13 V/m; Power Drift = 0.175 dB
Peak SAR (extrapolated) = 0.108 W/kg
SAR(1 g) = 0.026 mW/g; SAR(10 g) = 0.017 mW/g
Maximum value of SAR (measured) = 0.040 mW/g
Test Date = 11/10/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.1 degree.C



CH9-1161/Body/Rear/11a QPSK18Mbps/5600MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5600 MHz; σ = 5.92 mho/m; ε_r = 46.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.76, 3.76, 3.76); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.442 mW/g

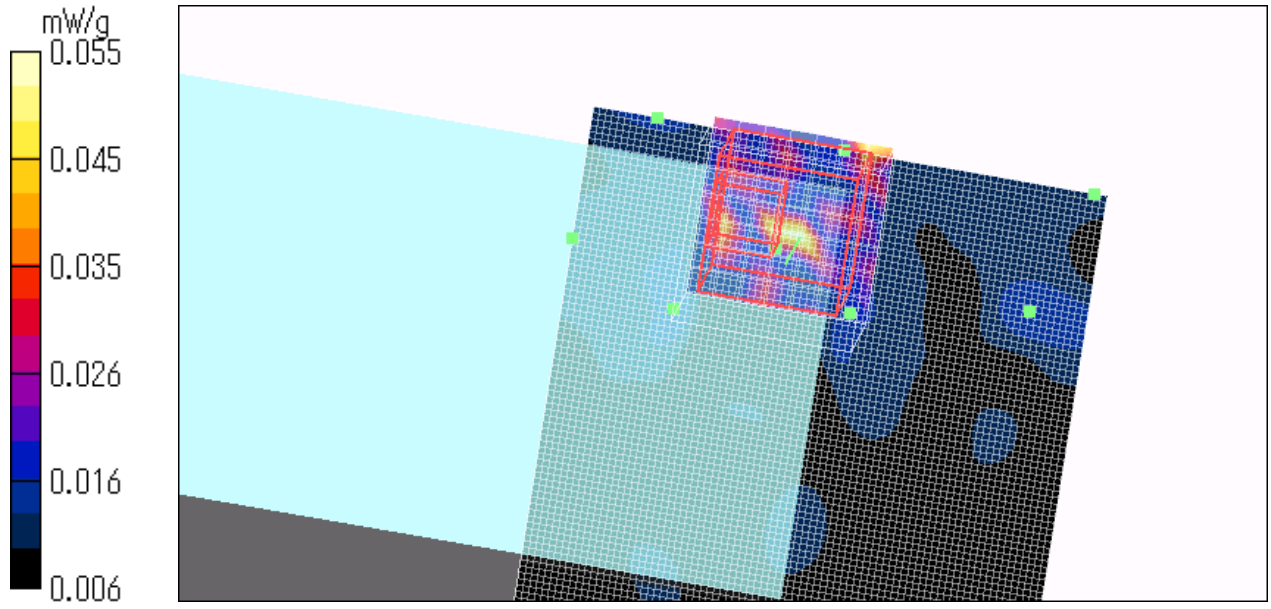
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 8.00 V/m; Power Drift = -0.146 dB
Peak SAR (extrapolated) = 0.881 W/kg
SAR(1 g) = 0.227 mW/g; SAR(10 g) = 0.082 mW/g
Maximum value of SAR (measured) = 0.461 mW/g
Test Date = 11/10/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.2degree.C , After 24.2 degree.C



CH9-1161/Body/bottom/11a QPSK18Mbps/5600MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5500 MHz; σ = 5.92 mho/m; ε_r = 46.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.76, 3.76, 3.76); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (81x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.017 mW/g

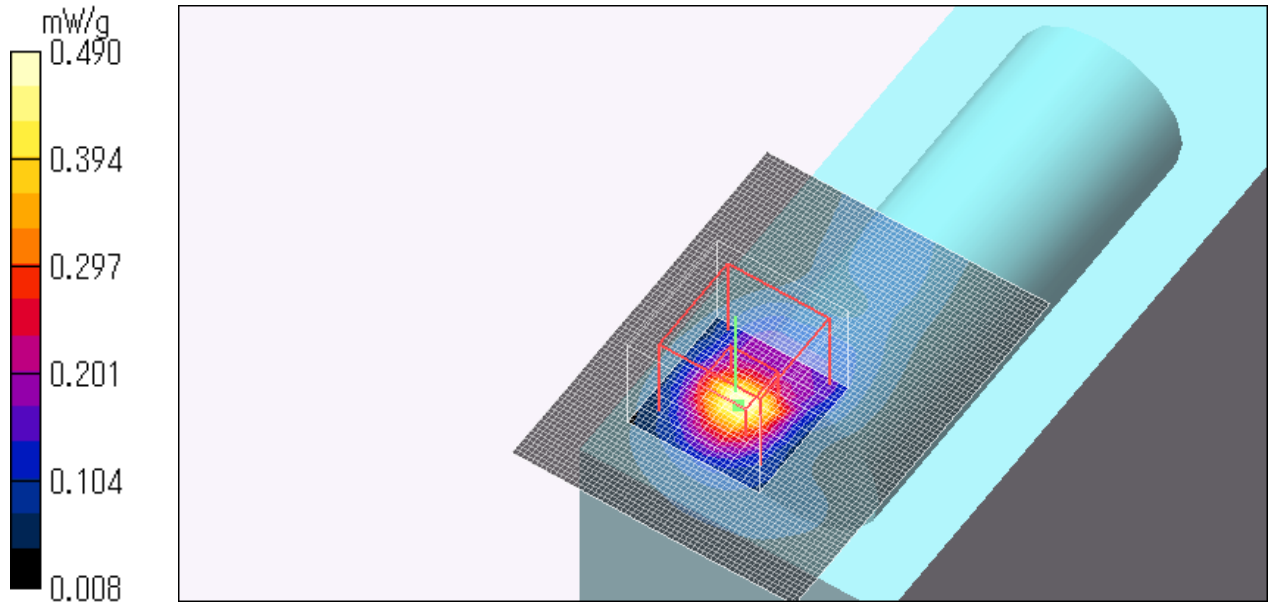
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 1.46 V/m; Power Drift = 0.138 dB
Peak SAR (extrapolated) = 0.066 W/kg
SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.016 mW/g
Maximum value of SAR (measured) = 0.055 mW/g
Test Date = 11/10/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C



CH9-1161/Body/Side/11a QPSK18Mbps/5500MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5500 MHz; σ = 5.78 mho/m; ε_r = 46.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.06, 4.06, 4.06); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.446 mW/g

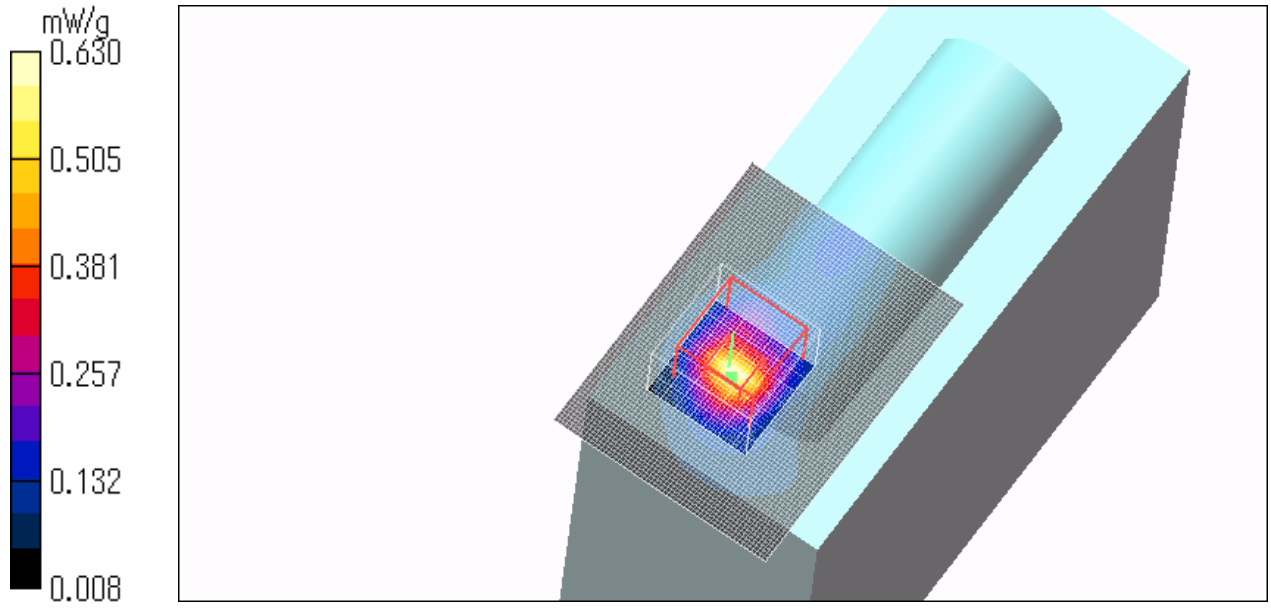
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 6.11 V/m; Power Drift = 0.140 dB
Peak SAR (extrapolated) = 0.947W/kg
SAR(1 g) = 0.227 mW/g; SAR(10 g) = 0.073 mW/g
Maximum value of SAR (measured) = 0.490 mW/g
Test Date = 11/10/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C



CH9-1161/Body/Side/11a QPSK18Mbps/5580MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5600 MHz; σ = 5.92 mho/m; ε_r = 46.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.76, 3.76, 3.76); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.482 mW/g

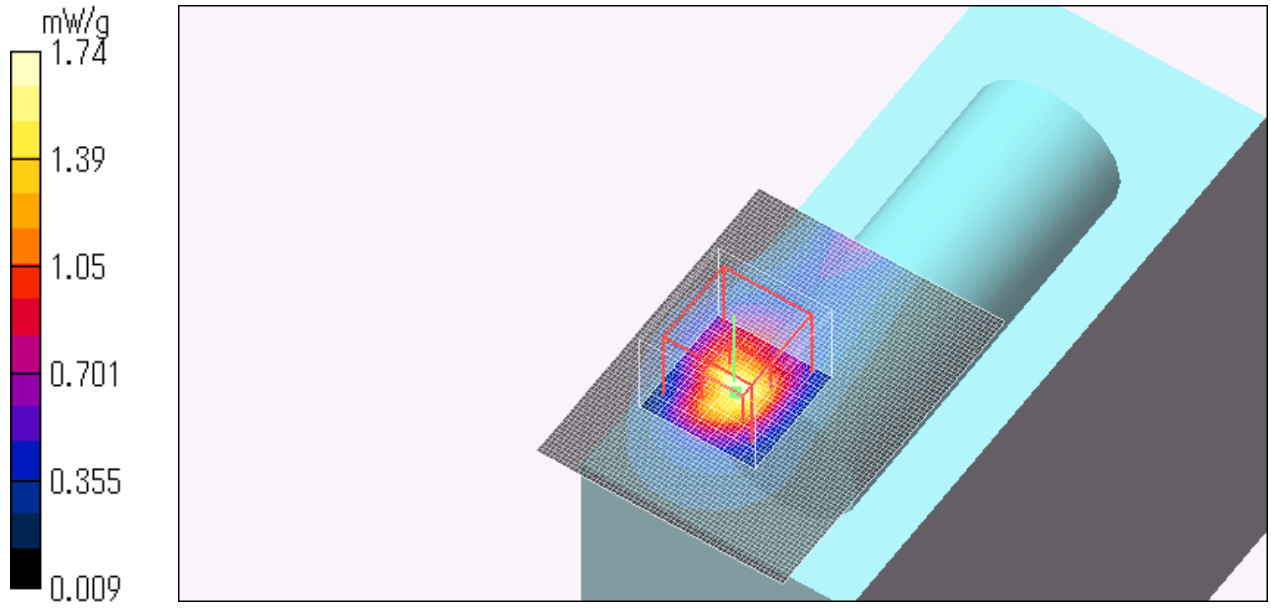
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.70 V/m; Power Drift = 0.098 dB
Peak SAR (extrapolated) = 1.24 W/kg
SAR(1 g) = 0.299 mW/g; SAR(10 g) = 0.100 mW/g
Maximum value of SAR (measured) = 0.630 mW/g
Test Date = 11/10/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.2degree.C , After 24.2 degree.C



CH9-1161/Body/Side/11a QPSK18Mbps/5700MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5600 MHz; σ = 5.92 mho/m; ε_r = 46.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.76, 3.76, 3.76); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.74 mW/g

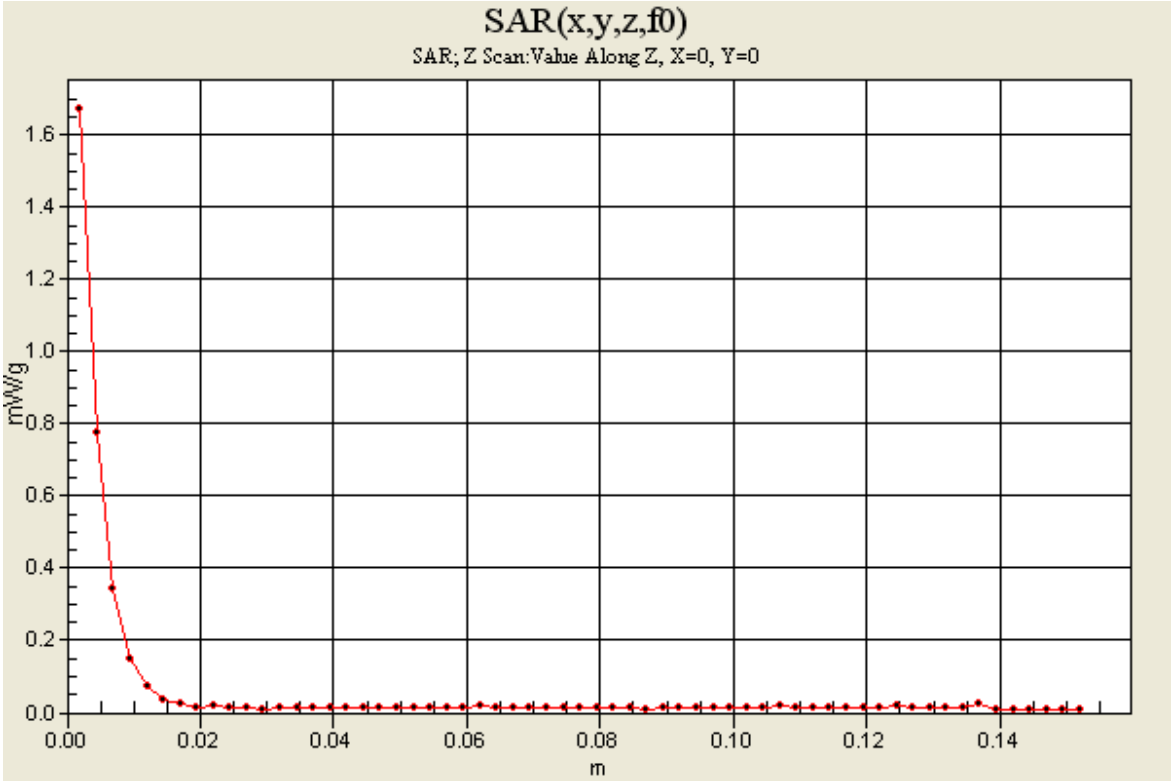
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 14.6 V/m; Power Drift = 0.093 dB
Peak SAR (extrapolated) = 3.32 W/kg
SAR(1 g) = 0.855 mW/g; SAR(10 g) = 0.300 mW/g
Maximum value of SAR (measured) = 1.74 mW/g
Test Date = 11/10/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C



Z-axis scan at max SAR location
CH9-1161/Body/Side/11a QPSK18Mbps/5700MHz

Crest factor:1
Medium: M5800 Medium parameters used: f = 5600 MHz; σ = 5.92 mho/m; ε_r = 46.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.76, 3.76, 3.76); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Z Scan (1x1x61): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm
Maximum value of SAR (measured) = 1.67 mW/g



CH9-1161/Body/Side 5mm/11a QPSK18Mbps/5700MHz

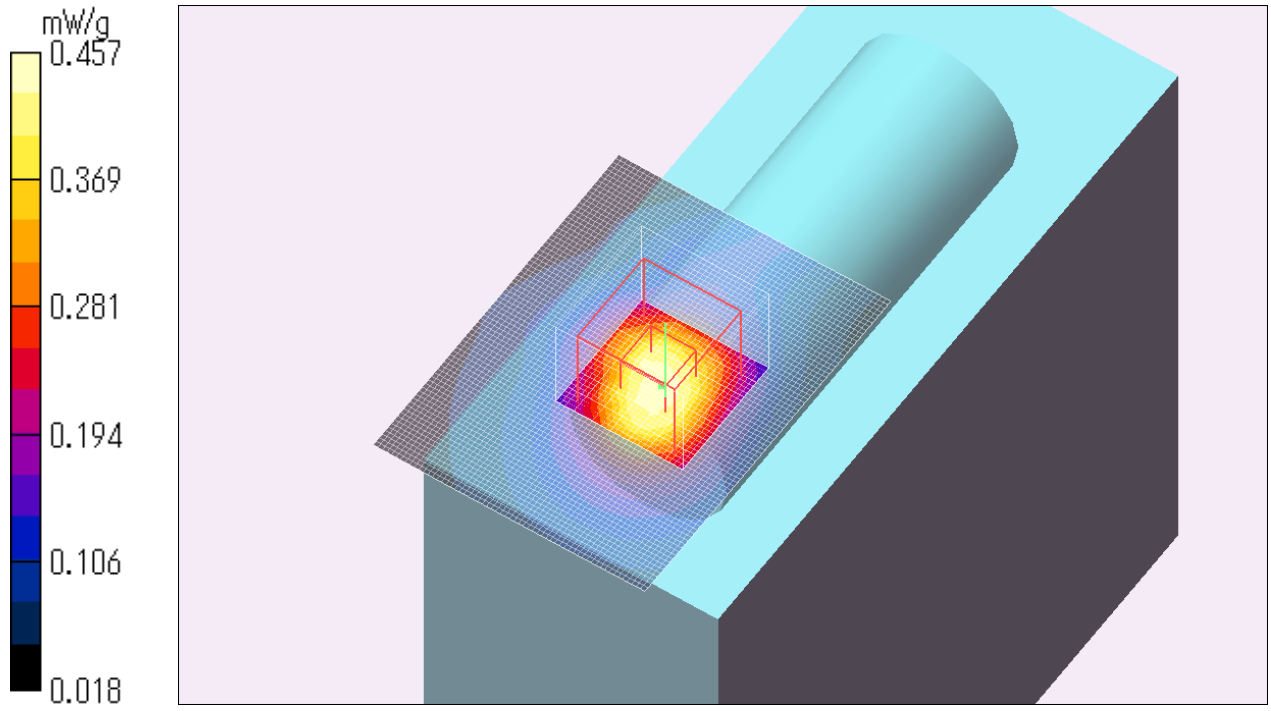
Crest factor: 1
Medium: M5800 Medium parameters used: f = 5600 MHz; σ = 5.92 mho/m; ε_r = 46.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.76, 3.76, 3.76); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.493 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 8.93 V/m; Power Drift = -0.144 dB
Peak SAR (extrapolated) = 0.860 W/kg

SAR(1 g) = 0.260 mW/g; SAR(10 g) = 0.119 mW/g
Maximum value of SAR (measured) = 0.457 mW/g

Test Date = 11/10/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C



CH9-1161/Body/Side 10mm/11a QPSK18Mbps/5700MHz

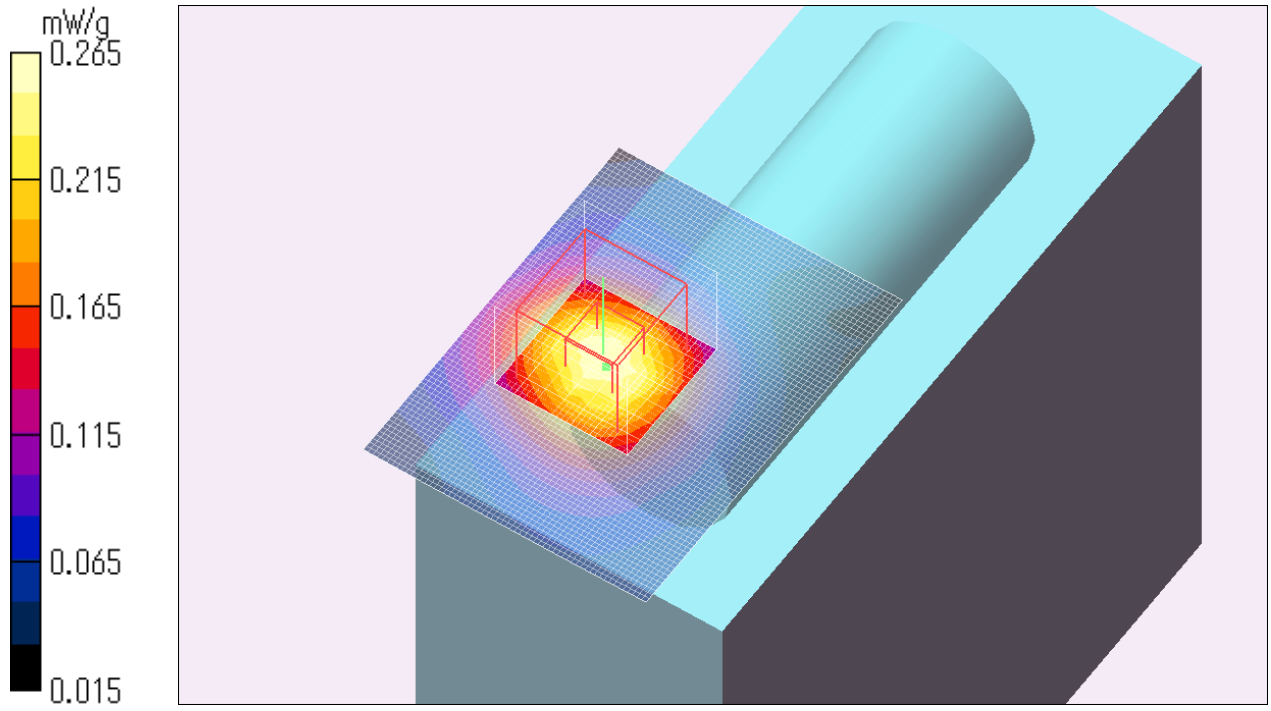
Crest factor: 1
Medium: M5800 Medium parameters used: f = 5600 MHz; σ = 5.92 mho/m; ε_r = 46.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.76, 3.76, 3.76); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.307 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.86 V/m; Power Drift = -0.146 dB
Peak SAR (extrapolated) = 0.501 W/kg

SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.077 mW/g
Maximum value of SAR (measured) = 0.265 mW/g

Test Date = 11/10/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C

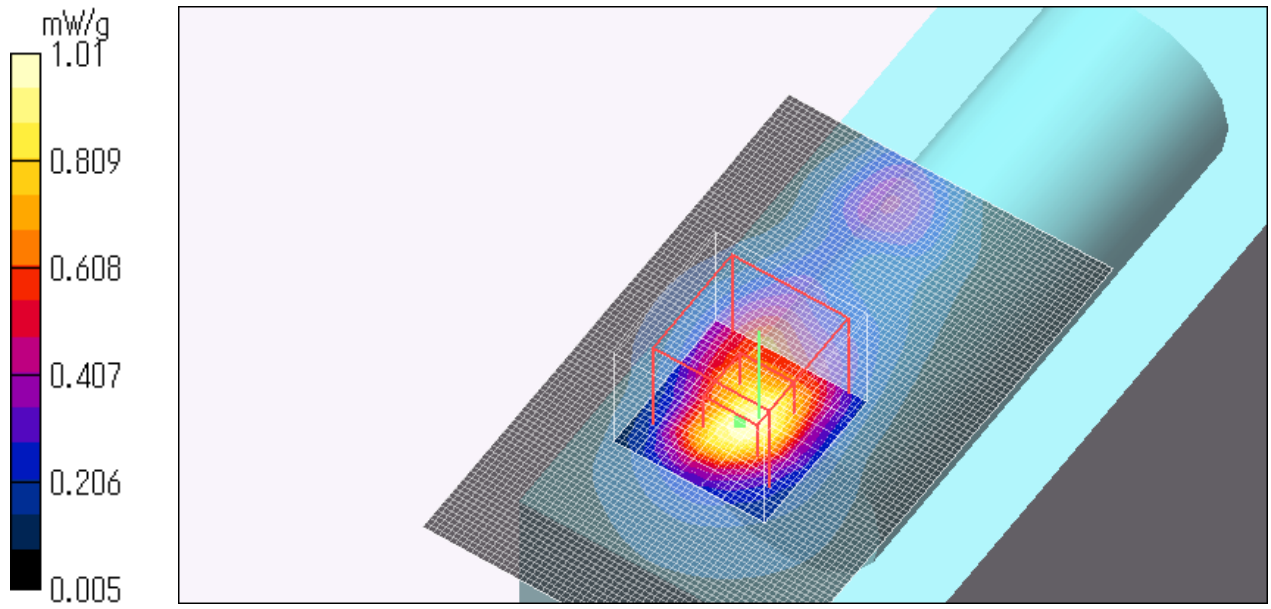


4. Measurement data (Body SAR 5740-5825MHz band)

CH9-1161/Body/Side/11a BPSK6Mbps/5785MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5800 MHz; σ = 6.13 mho/m; ε_r = 45.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.88, 3.88, 3.88); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.11 mW/g

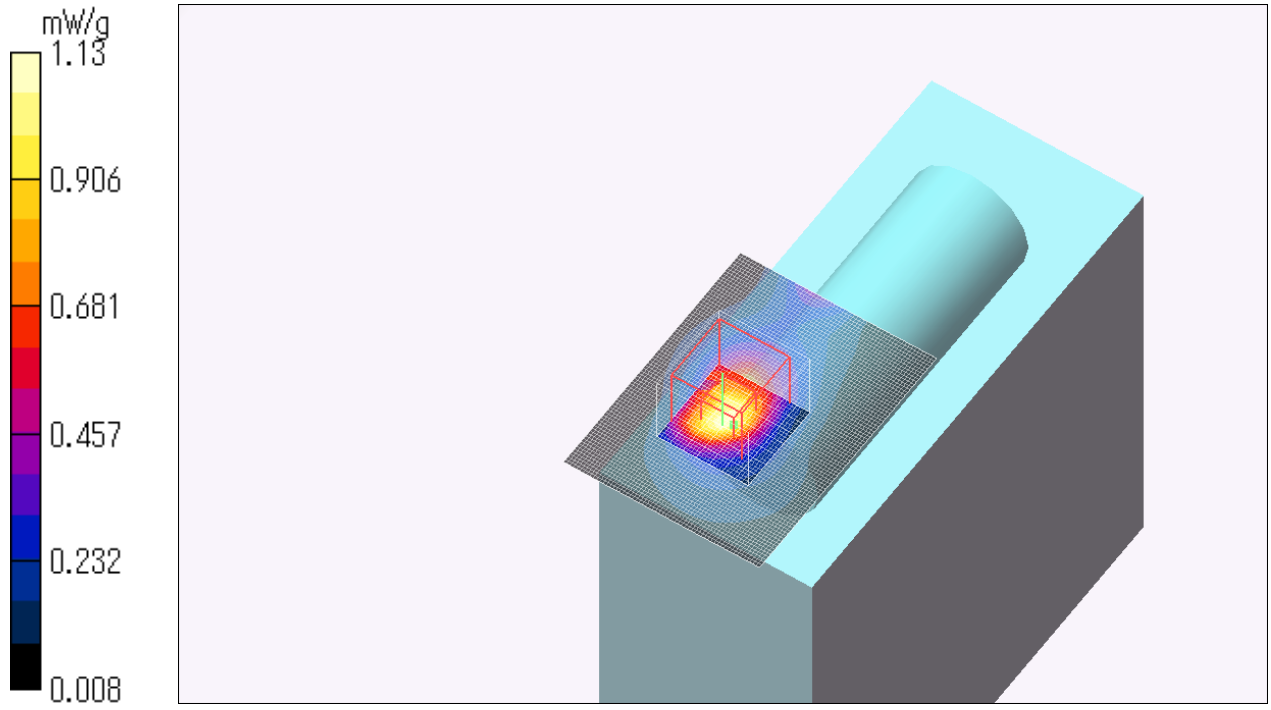
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 13.3 V/m; Power Drift = -0.202 dB
Peak SAR (extrapolated) = 2.09 W/kg
SAR(1 g) = 0.525 mW/g; SAR(10 g) = 0.189 mW/g
Maximum value of SAR (measured) = 1.01 mW/g
Test Date = 11/11/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C



CH9-1161/Body/Side/11a QPSK18Mbps/5785MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5800 MHz; σ = 6.13 mho/m; ε_r = 45.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.88, 3.88, 3.88); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.22 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 14.1 V/m; Power Drift = -0.200 dB
Peak SAR (extrapolated) = 2.36 W/kg
SAR(1 g) = 0.584 mW/g; SAR(10 g) = 0.213 mW/g
Maximum value of SAR (measured) = 1.13 mW/g
Test Date = 11/11/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C

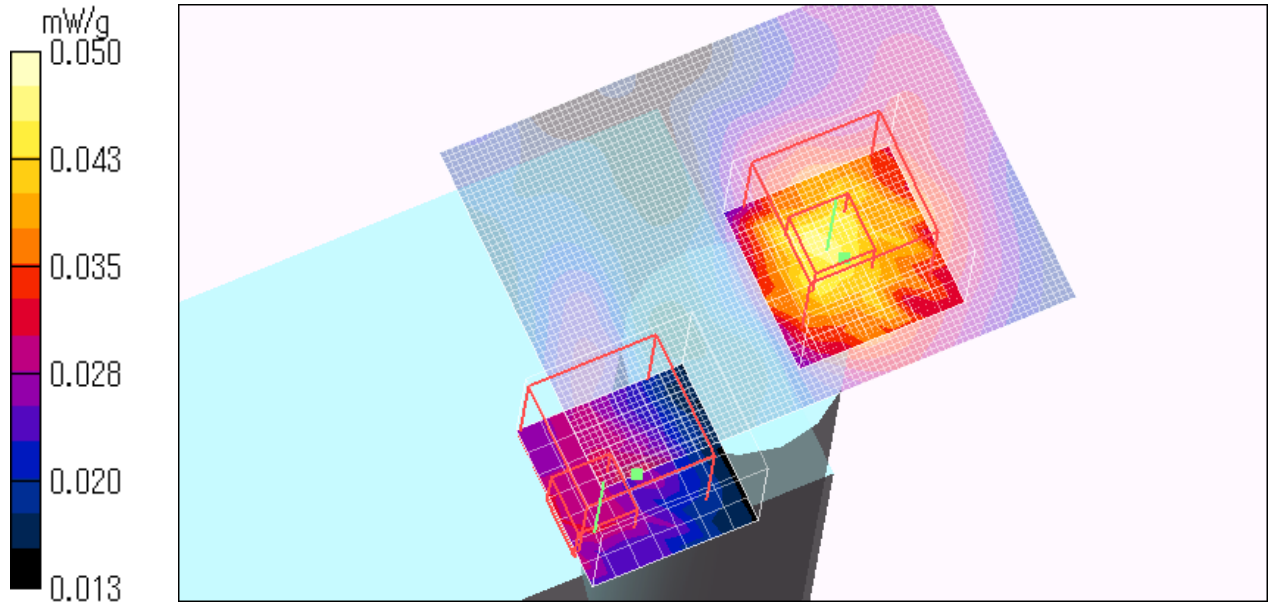


CH9-1161/Body/Top/11a QPSK18Mbps/5785MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5800 MHz; σ = 6.13 mho/m; ε_r = 45.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.88, 3.88, 3.88); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.050 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.68 V/m; Power Drift = -0.189 dB
Peak SAR (extrapolated) = 0.087 W/kg
SAR(1 g) = 0.032 mW/g; SAR(10 g) = 0.020 mW/g
Maximum value of SAR (measured) = 0.047 mW/g

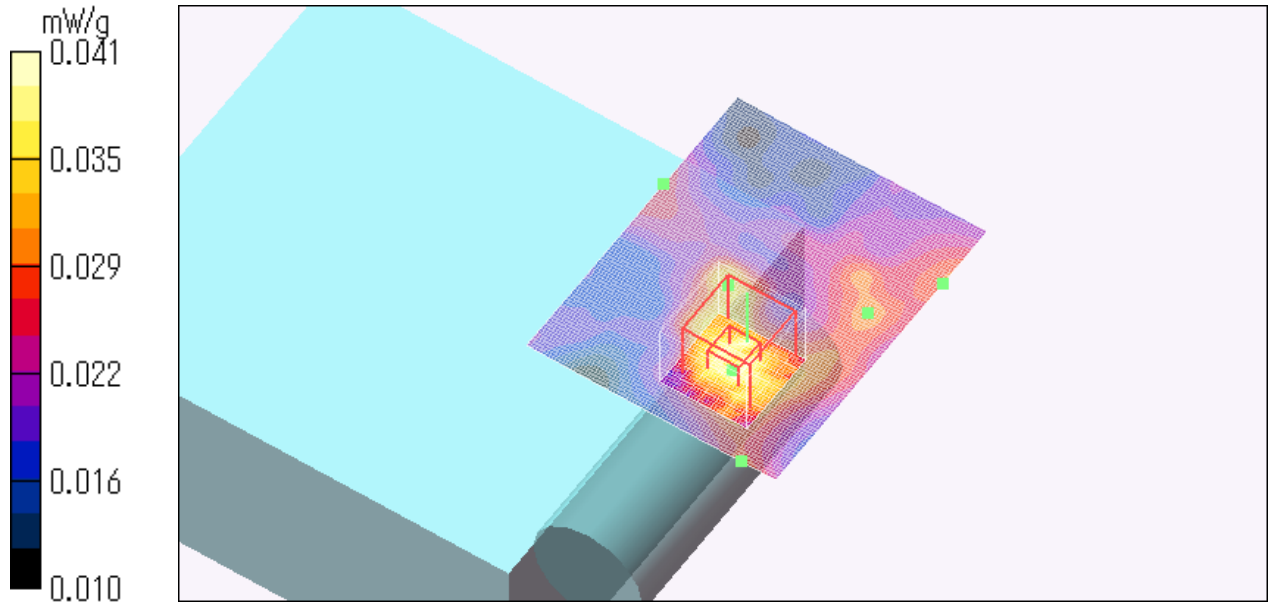
Zoom Scan (8x8x10)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.68 V/m; Power Drift = -0.189 dB
Peak SAR (extrapolated) = 0.046 W/kg
SAR(1 g) = 0.022 mW/g; SAR(10 g) = 0.016 mW/g
Maximum value of SAR (measured) = 0.031 mW/g
Test Date = 11/11/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C



CH9-1161/Body/Front/11a QPSK18Mbps/5785MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5800 MHz; σ = 6.13 mho/m; ε_r = 45.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.88, 3.88, 3.88); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.041 mW/g

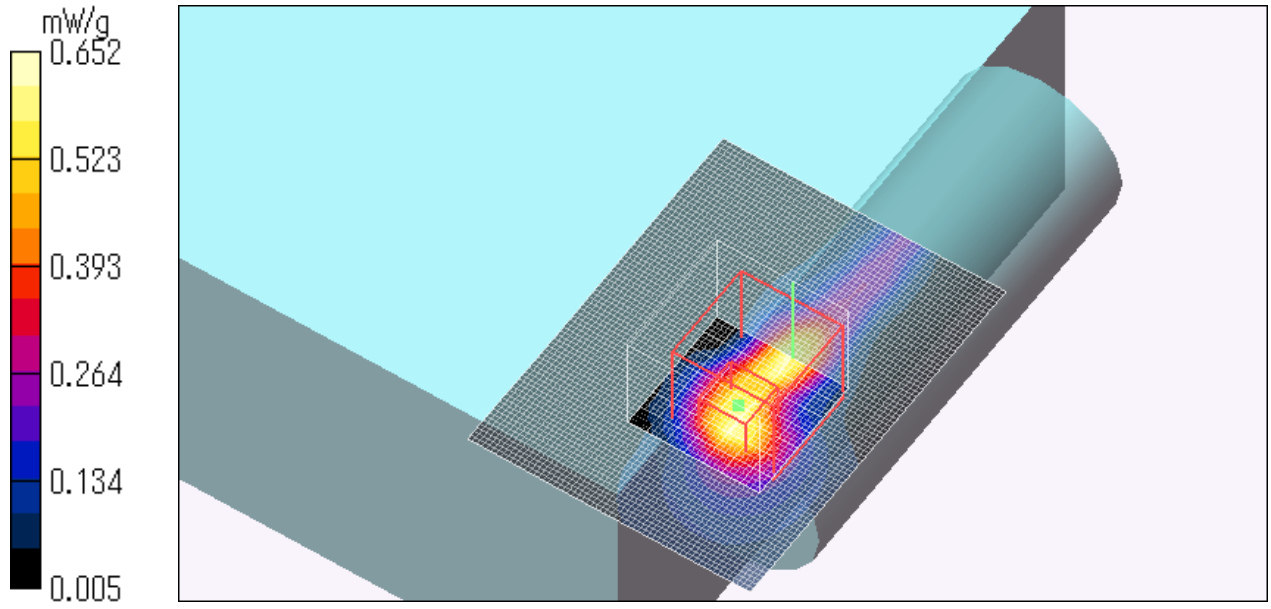
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.36 V/m; Power Drift = -0.161 dB
Peak SAR (extrapolated) = 0.090 W/kg
SAR(1 g) = 0.026 mW/g; SAR(10 g) = 0.018 mW/g
Maximum value of SAR (measured) = 0.041 mW/g
Test Date = 11/11/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C



CH9-1161/Body/Rear/11a QPSK18Mbps/5785MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5800 MHz; σ = 6.25 mho/m; ε_r = 45.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.88, 3.88, 3.88); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.743 mW/g

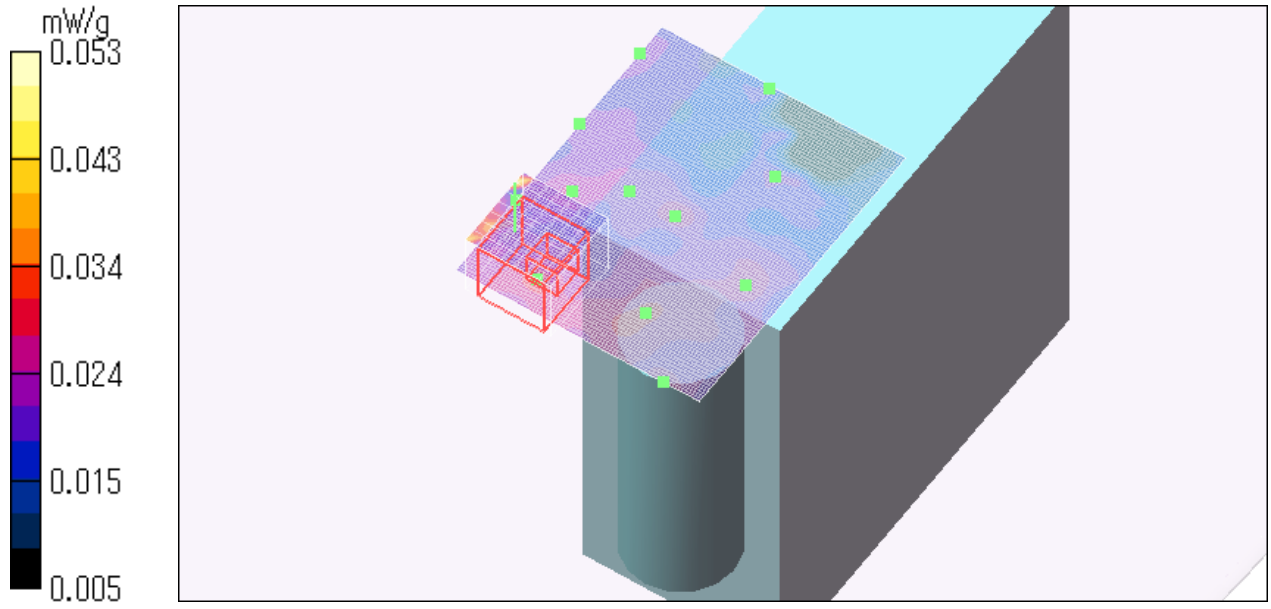
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 8.05 V/m; Power Drift = 0.100 dB
Peak SAR (extrapolated) = 1.43 W/kg
SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.114 mW/g
Maximum value of SAR (measured) = 0.652 mW/g
Test Date = 11/11/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C



CH9-1161/Body/Bottom/11a QPSK18Mbps/5785MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5800 MHz; σ = 6.13 mho/m; ε_r = 45.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.88, 3.88, 3.88); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.029 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.08 V/m; Power Drift = -0.179 dB
Peak SAR (extrapolated) = 0.060 W/kg
SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.018 mW/g
Maximum value of SAR (measured) = 0.053 mW/g
Test Date = 11/11/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C

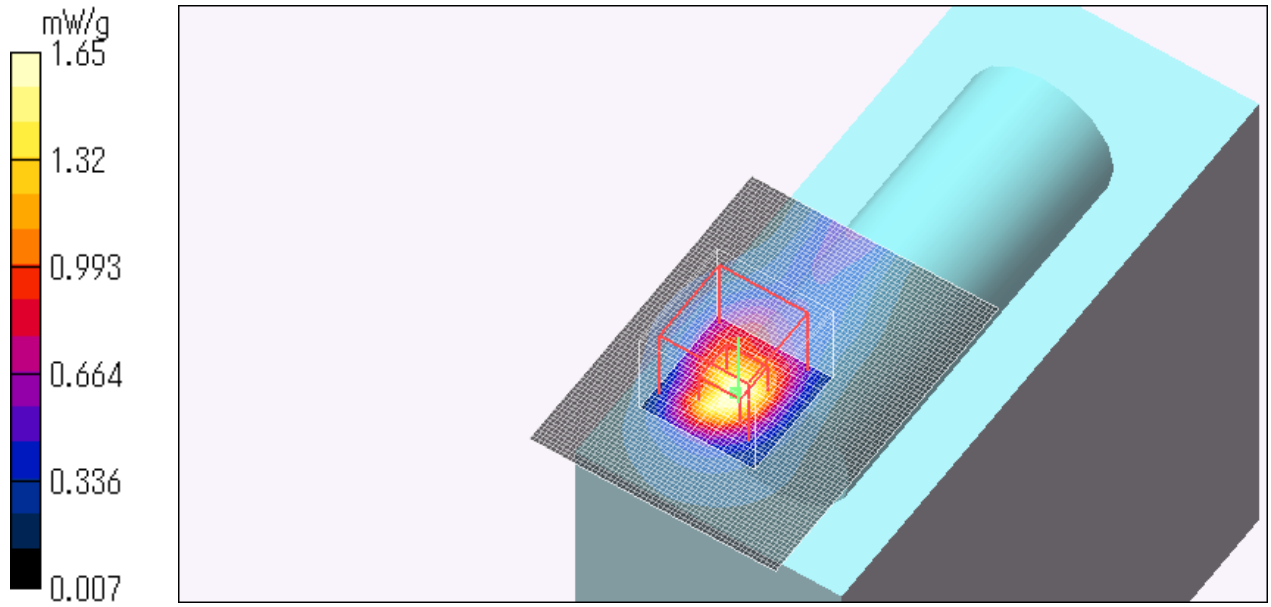


CH9-1161/Body/Side/11a QPSK18Mbps/5745MHz

Crest factor:1
Medium: M5800 Medium parameters used: f = 5800 MHz; σ = 6.13 mho/m; ε_r = 45.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.88, 3.88, 3.88); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.78 mW/g

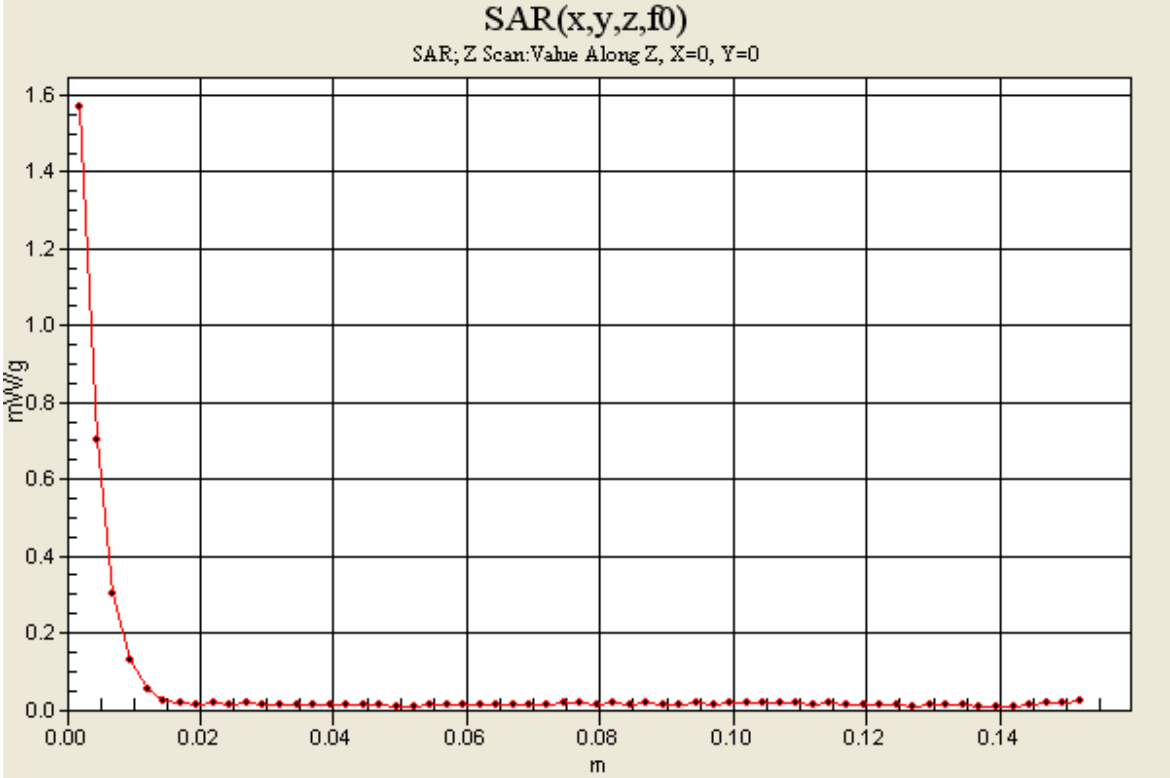
Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 14.9 V/m; Power Drift = -0.128 dB
Peak SAR (extrapolated) = 3.42 W/kg
SAR(1 g) = 0.853 mW/g; SAR(10 g) = 0.297 mW/g
Maximum value of SAR (measured) = 1.65 mW/g
Test Date = 11/11/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C



Z-axis scan at max SAR location
CH9-1161/Body/Side/11a QPSK18Mbps/5745MHz

Crest factor:1
Medium: M5800 Medium parameters used: f = 5800 MHz; σ = 6.13 mho/m; ε_r = 45.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.88, 3.88, 3.88); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Z Scan (1x1x61): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm
Maximum value of SAR (measured) = 1.57 mW/g



CH9-1161/Body/Side/11a QPSK18Mbps/5825MHz
Crest factor:1
Medium: M5800 Medium parameters used: f = 5800 MHz; σ = 6.13 mho/m; ε_r = 45.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(3.88, 3.88, 3.88); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.716 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 9.77 V/m; Power Drift = -0.136 dB
Peak SAR (extrapolated) = 1.30 W/kg
SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.113 mW/g
Maximum value of SAR (measured) = 0.629 mW/g
Test Date = 11/11/09
Ambient Temperature = 24.5 degree.c
Liquid Temperature = Before 24.0degree.C , After 24.0 degree.C