

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 (≥ 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.

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2. Reference Measurement data (Head SAR 5180-5320MHz band)

CH9-1161 / HEAD / Side / 11a BPSK 6Mbps / 5240MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.56$ mho/m; $\epsilon_r = 36.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.89, 4.89, 4.89); 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 (61x121x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.370 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

Reference Value = 6.58 V/m; Power Drift = -0.198 dB

Peak SAR (extrapolated) = 0.644 W/kg

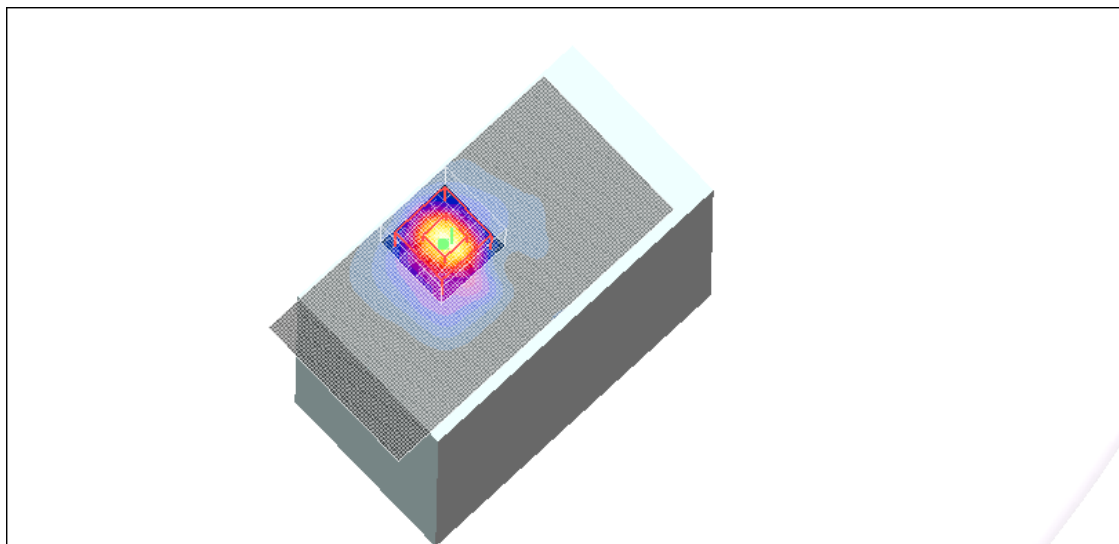
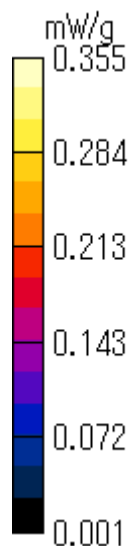
SAR(1 g) = 0.186 mW/g; SAR(10 g) = 0.064 mW/g

Maximum value of SAR (measured) = 0.355 mW/g

Test Date = 04/06/09

Ambient Temperature = 23.5 degree.c

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



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CH9-1161 / HEAD / Side / 11a QPSK 18Mbps / 5240MHz

Crest factor:1

Medium: HSL 5800 Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.56 \text{ mho/m}$; $\epsilon_r = 36.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.89, 4.89, 4.89); 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 (61x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 7.06 V/m; Power Drift = -0.140 dB

Peak SAR (extrapolated) = 0.716 W/kg

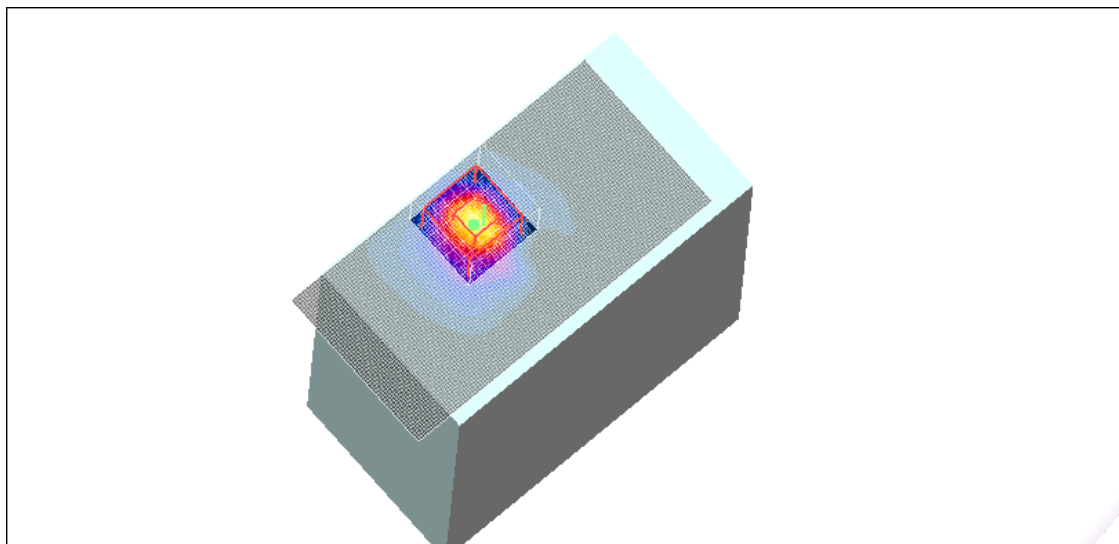
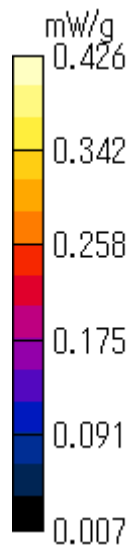
SAR(1 g) = 0.215 mW/g; SAR(10 g) = 0.076 mW/g

Maximum value of SAR (measured) = 0.398 mW/g

Test Date = 04/06/09

Ambient Temperature = 23.5 degree.c

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



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CH9-1161 / HEAD / Side / 11a 16QAM 24Mbps / 5240MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.56 \text{ mho/m}$; $\epsilon_r = 36.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.89, 4.89, 4.89); 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 (61x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.383 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 6.91 V/m ; Power Drift = -0.149 dB

Peak SAR (extrapolated) = 0.685 W/kg

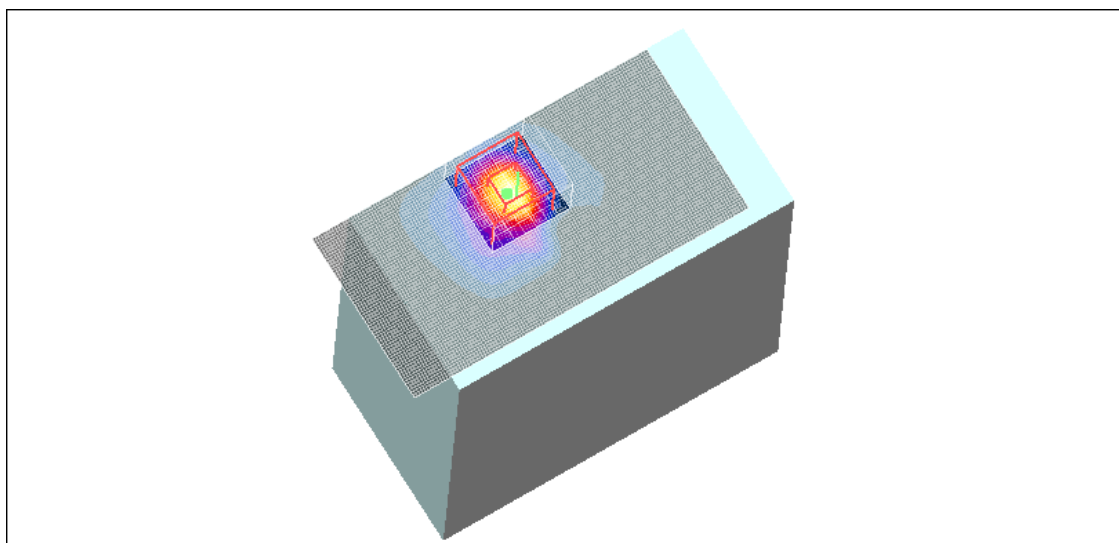
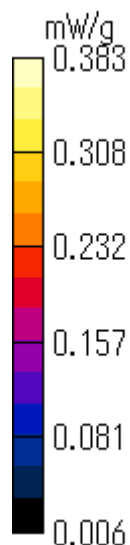
SAR(1 g) = 0.203 mW/g ; SAR(10 g) = 0.071 mW/g

Maximum value of SAR (measured) = 0.374 mW/g

Test Date = 04/06/09

Ambient Temperature = 23.5 degree.C

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



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CH9-1161 / HEAD / Side / 11a 64QAM 48Mbps / 5240MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.56 \text{ mho/m}$; $\epsilon_r = 36.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.89, 4.89, 4.89); 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 (61x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.329 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 6.31 V/m ; Power Drift = -0.175 dB

Peak SAR (extrapolated) = 0.554 W/kg

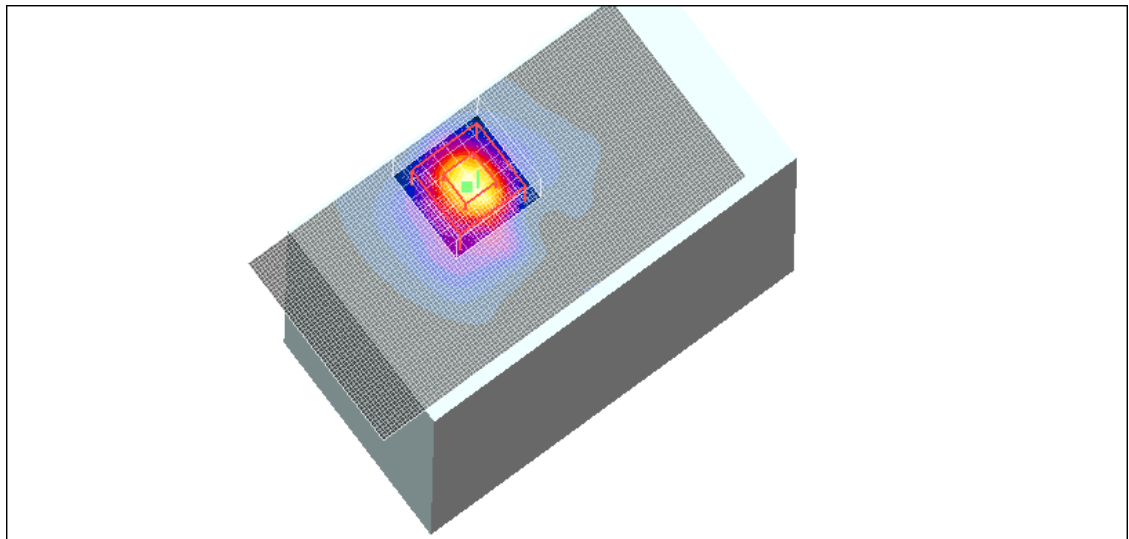
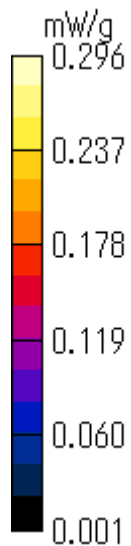
SAR(1 g) = 0.160 mW/g ; SAR(10 g) = 0.056 mW/g

Maximum value of SAR (measured) = 0.296 mW/g

Test Date = 04/06/09

Ambient Temperature = 23.5 degree.C

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



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CH9-1161 / HEAD / Front / 11a QPSK 18Mbps / 5240MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.56$ mho/m; $\epsilon_r = 36.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.89, 4.89, 4.89); 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 (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.228 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.34 V/m; Power Drift = -0.164 dB

Peak SAR (extrapolated) = 0.453 W/kg

SAR(1 g) = 0.134 mW/g; SAR(10 g) = 0.057 mW/g

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

Zoom Scan (8x8x10)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.34 V/m; Power Drift = -0.164 dB

Peak SAR (extrapolated) = 0.409 W/kg

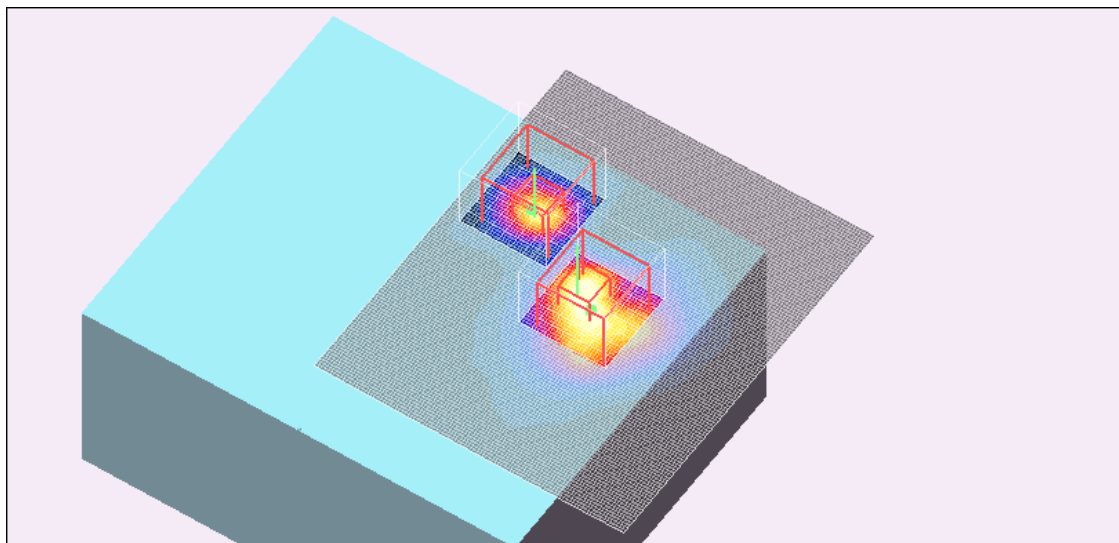
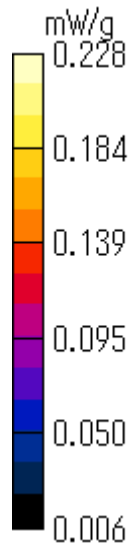
SAR(1 g) = 0.107 mW/g; SAR(10 g) = 0.037 mW/g

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

Test Date = 04/06/09

Ambient Temperature = 23.5 degree.c

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



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CH9-1161 / HEAD / Rear / 11a Rear 18Mbps / 5240MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.56$ mho/m; $\epsilon_r = 36.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.89, 4.89, 4.89); 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 (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.058 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.71 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 0.181 W/kg

SAR(1 g) = 0.038 mW/g; SAR(10 g) = 0.015 mW/g

Maximum value of SAR (measured) = 0.076 mW/g

Zoom Scan (8x8x10)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.71 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 0.084 W/kg

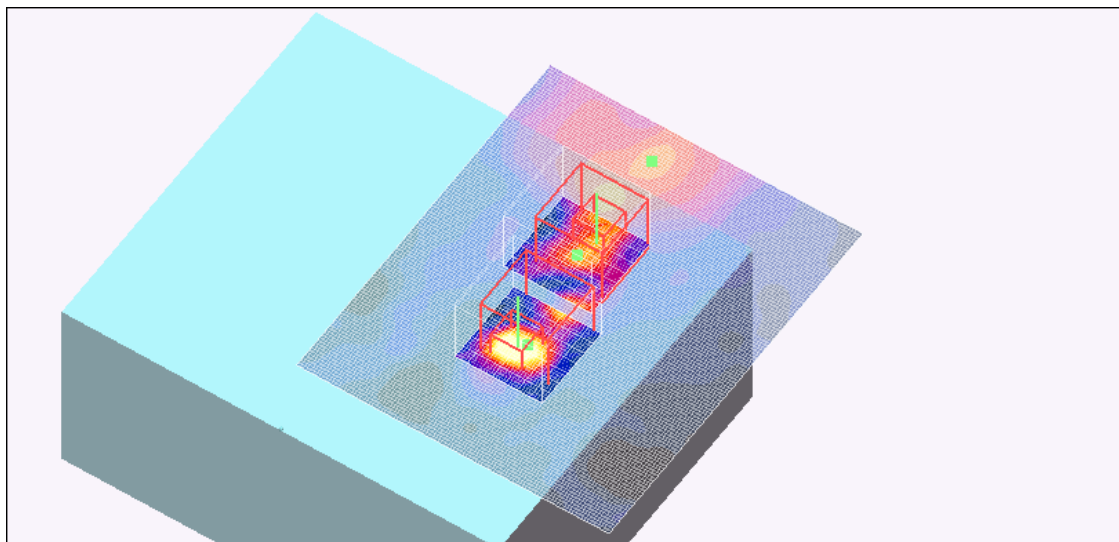
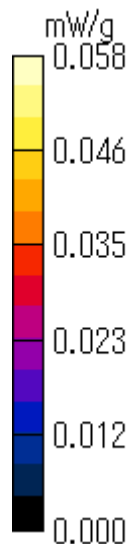
SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.014 mW/g

Maximum value of SAR (measured) = 0.042 mW/g

Test Date = 04/06/09

Ambient Temperature = 23.5 degree.c

Liquid Temperature = Before 21.1 degree.C , After 21.3 degree.C



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CH9-1161 / HEAD / Bottom / 11a QPSK 18Mbps / 5240MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.56 \text{ mho/m}$; $\epsilon_r = 36.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.89, 4.89, 4.89); 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

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 1.13 V/m; Power Drift = 0.133 dB

Peak SAR (extrapolated) = 0.189 W/kg

SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.021 mW/g

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

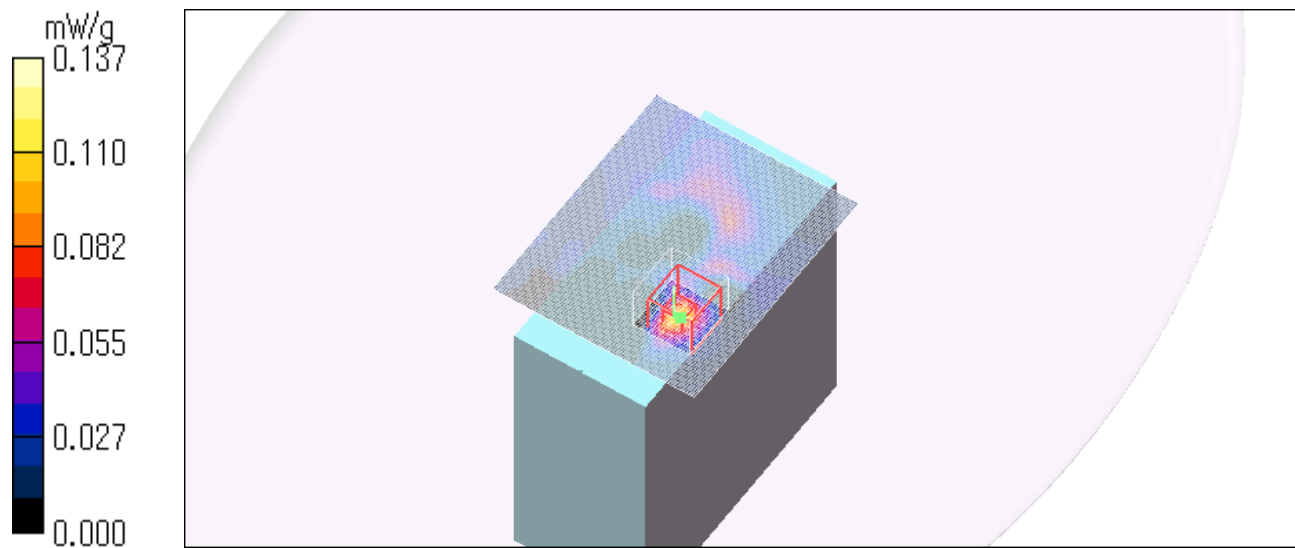
Area Scan (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.137 mW/g

Test Date = 04/06/09

Ambient Temperature = 23.5 degree.c

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



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CH9-1161 / HEAD / Side / 11a QPSK 18Mbps / 5180MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.56 \text{ mho/m}$; $\epsilon_r = 36.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.89, 4.89, 4.89); 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 (81x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 5.72 V/m ; Power Drift = -0.115 dB

Peak SAR (extrapolated) = 1.30 W/kg

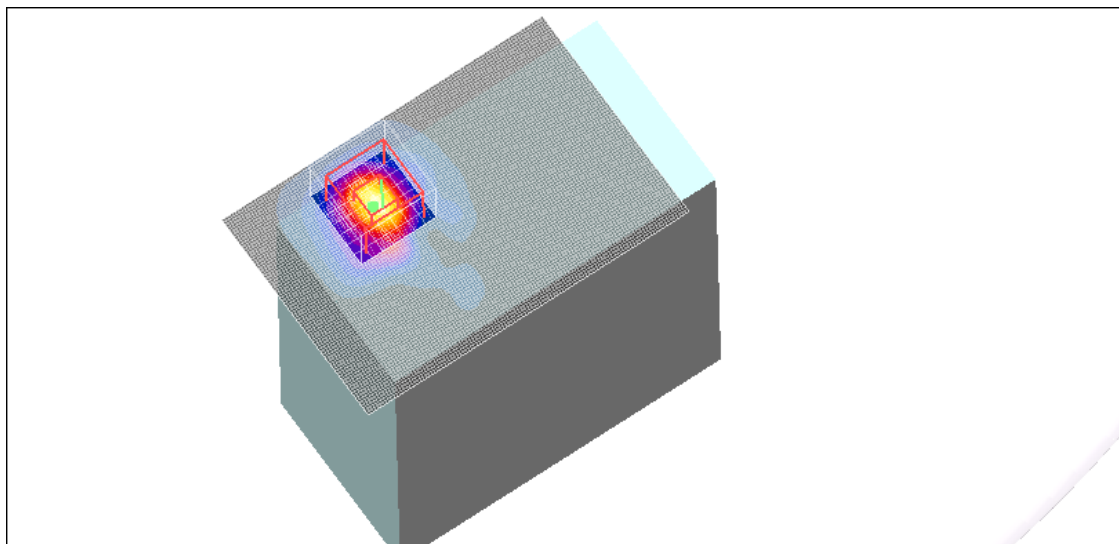
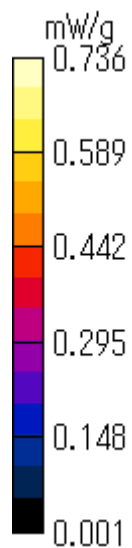
SAR(1 g) = 0.394 mW/g ; SAR(10 g) = 0.138 mW/g

Maximum value of SAR (measured) = 0.736 mW/g

Test Date = 04/06/09

Ambient Temperature = 23.5 degree.C

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



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CH9-1161 / HEAD / Side / 11a QPSK 18Mbps / 5280MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.71 \text{ mho/m}$; $\epsilon_r = 34.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.68, 4.68, 4.68); 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 (81x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.283 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 4.22 V/m ; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 0.556 W/kg

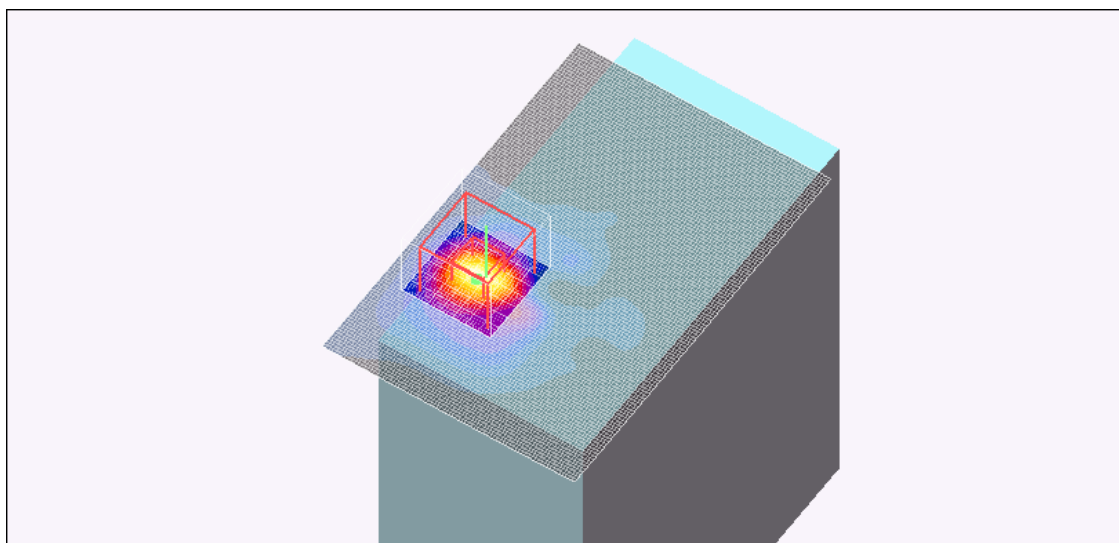
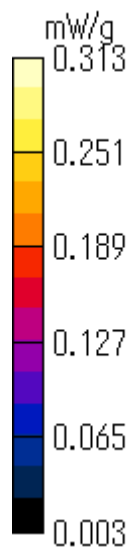
SAR(1 g) = 0.167 mW/g ; SAR(10 g) = 0.062 mW/g

Maximum value of SAR (measured) = 0.313 mW/g

Test Date = 04/07/09

Ambient Temperature = 24.0 degree.C

Liquid Temperature = Before 23.0 degree.C , After 23.0 degree.C



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CH9-1161 / HEAD / Side / 11a QPSK 18Mbps / 5320MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.71 \text{ mho/m}$; $\epsilon_r = 34.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.68, 4.68, 4.68); 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 (81x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.196 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 4.41 V/m ; Power Drift = -0.182 dB

Peak SAR (extrapolated) = 0.353 W/kg

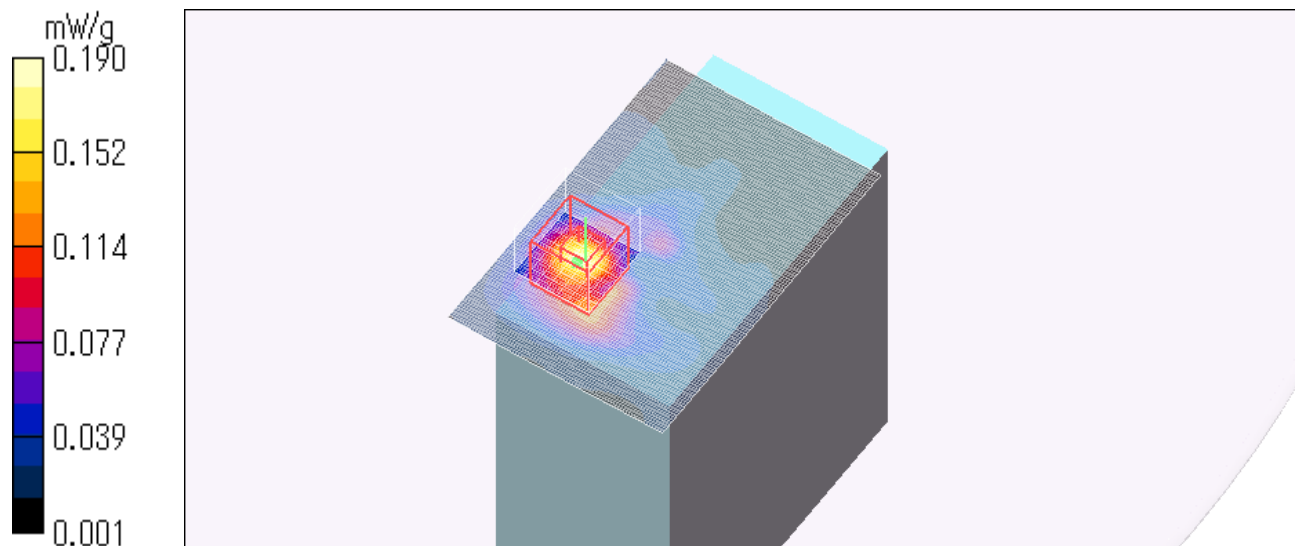
SAR(1 g) = 0.104 mW/g ; SAR(10 g) = 0.040 mW/g

Maximum value of SAR (measured) = 0.190 mW/g

Test Date = 04/07/09

Ambient Temperature = 24.0 degree.C

Liquid Temperature = Before 23.0 degree.C , After 23.0 degree.C



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

CH9-1161 / HEAD / Side / 11a BPSK 6Mbps / 5600MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.18 \text{ mho/m}$; $\epsilon_r = 33.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.28, 4.28, 4.28); 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 (81x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.719 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 6.88 V/m ; Power Drift = -0.188 dB

Peak SAR (extrapolated) = 1.21 W/kg

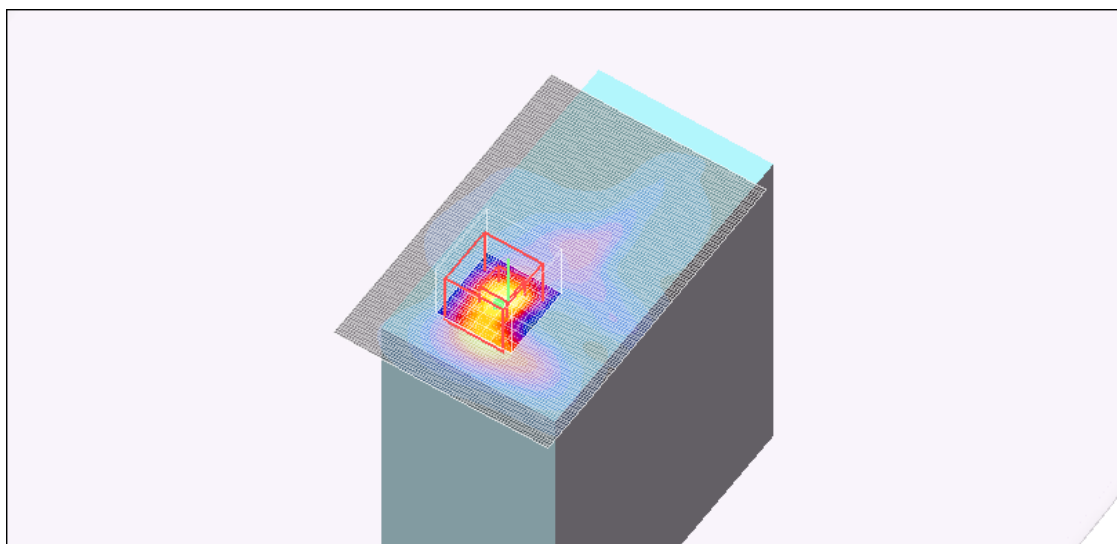
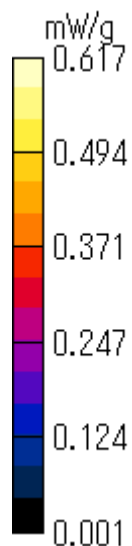
SAR(1 g) = 0.322 mW/g ; SAR(10 g) = 0.120 mW/g

Maximum value of SAR (measured) = 0.617 mW/g

Test Date = 04/07/09

Ambient Temperature = 24.0 degree.C

Liquid Temperature = Before 23.0 degree.C , After 23.0 degree.C



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CH9-1161 / HEAD / Side / 11a QPSK 18Mbps / 5600MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.18 \text{ mho/m}$; $\epsilon_r = 33.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.28, 4.28, 4.28); 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 (81x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.775 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 7.04 V/m ; Power Drift = -0.191 dB

Peak SAR (extrapolated) = 1.46 W/kg

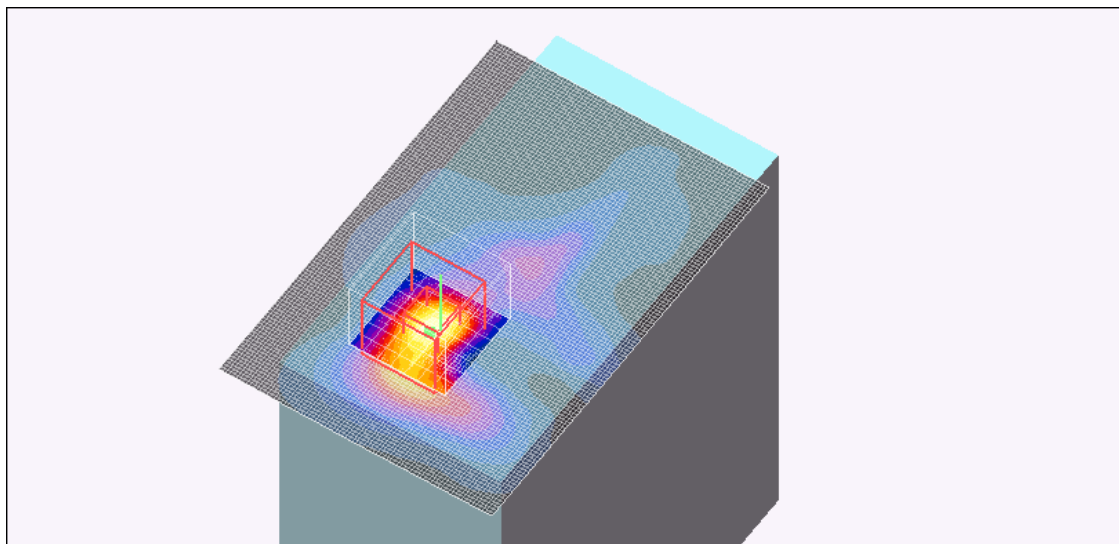
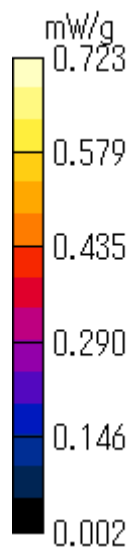
SAR(1 g) = 0.388 mW/g ; SAR(10 g) = 0.144 mW/g

Maximum value of SAR (measured) = 0.723 mW/g

Test Date = 04/07/09

Ambient Temperature = 24.0 degree.C

Liquid Temperature = Before 23.0 degree.C , After 23.0 degree.C



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CH9-1161 / HEAD / Side / 11a 16QAM 24Mbps / 5600MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.18 \text{ mho/m}$; $\epsilon_r = 33.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.28, 4.28, 4.28); 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 (81x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.832 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 7.37 V/m ; Power Drift = -0.153 dB

Peak SAR (extrapolated) = 1.45 W/kg

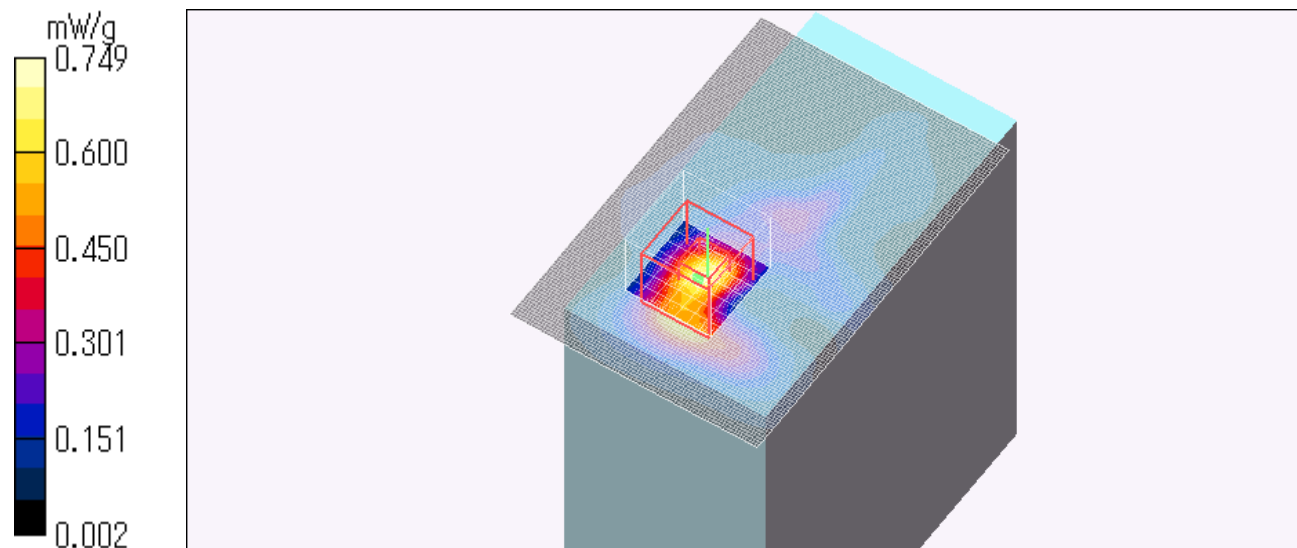
SAR(1 g) = 0.385 mW/g ; SAR(10 g) = 0.141 mW/g

Maximum value of SAR (measured) = 0.749 mW/g

Test Date = 04/07/09

Ambient Temperature = 24.0 degree.c

Liquid Temperature = Before 23.0 degree.C , After 23.0 degree.C



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CH9-1161 / HEAD / Side / 11a 64QAM 48Mbps / 5600MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.18 \text{ mho/m}$; $\epsilon_r = 33.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.28, 4.28, 4.28); 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 (81x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.542 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 5.85 V/m ; Power Drift = -0.143 dB

Peak SAR (extrapolated) = 0.952 W/kg

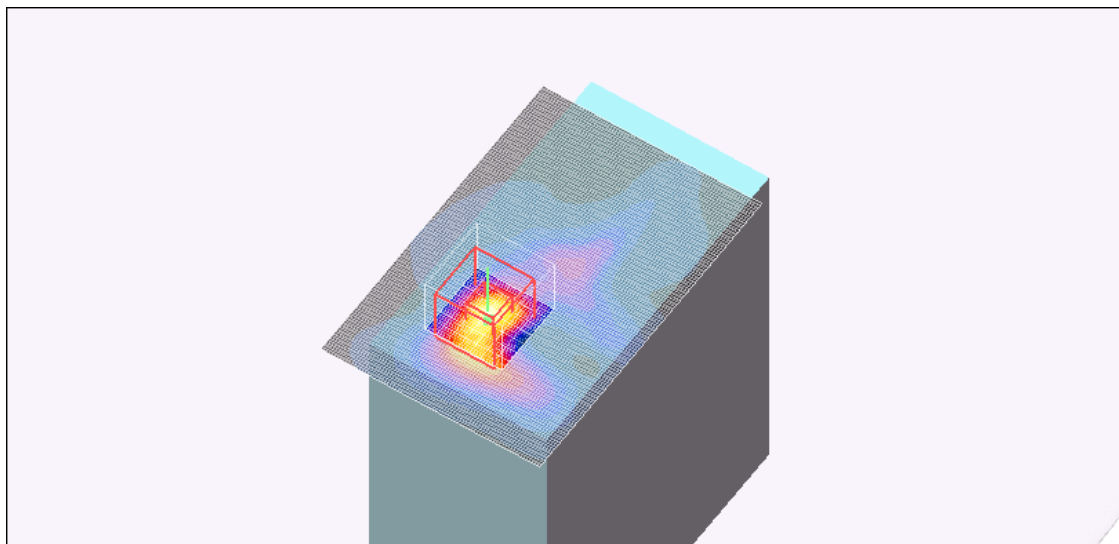
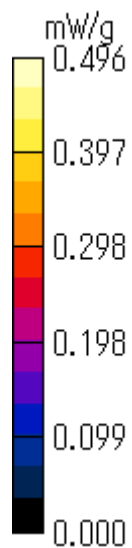
SAR(1 g) = 0.258 mW/g ; SAR(10 g) = 0.099 mW/g

Maximum value of SAR (measured) = 0.496 mW/g

Test Date = 04/07/09

Ambient Temperature = 24.0 degree.C

Liquid Temperature = Before 23.0 degree.C , After 23.0 degree.C



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CH9-1161 / HEAD / Front / 11a QPSK 18Mbps / 5600MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.18 \text{ mho/m}$; $\epsilon_r = 33.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.28, 4.28, 4.28); 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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 8.81 V/m; Power Drift = -0.180 dB

Peak SAR (extrapolated) = 2.09 W/kg

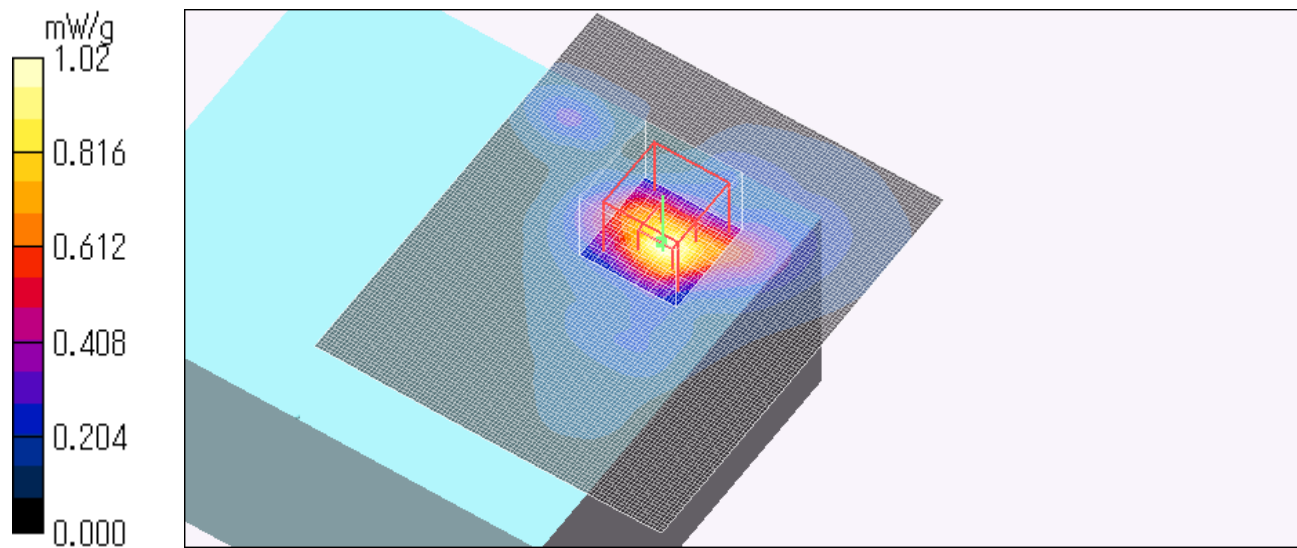
SAR(1 g) = 0.533 mW/g; SAR(10 g) = 0.195 mW/g

Maximum value of SAR (measured) = 1.02 mW/g

Test Date = 04/07/09

Ambient Temperature = 24.0 degree.c

Liquid Temperature = Before 23.1 degree.C , After 23.3 degree.C



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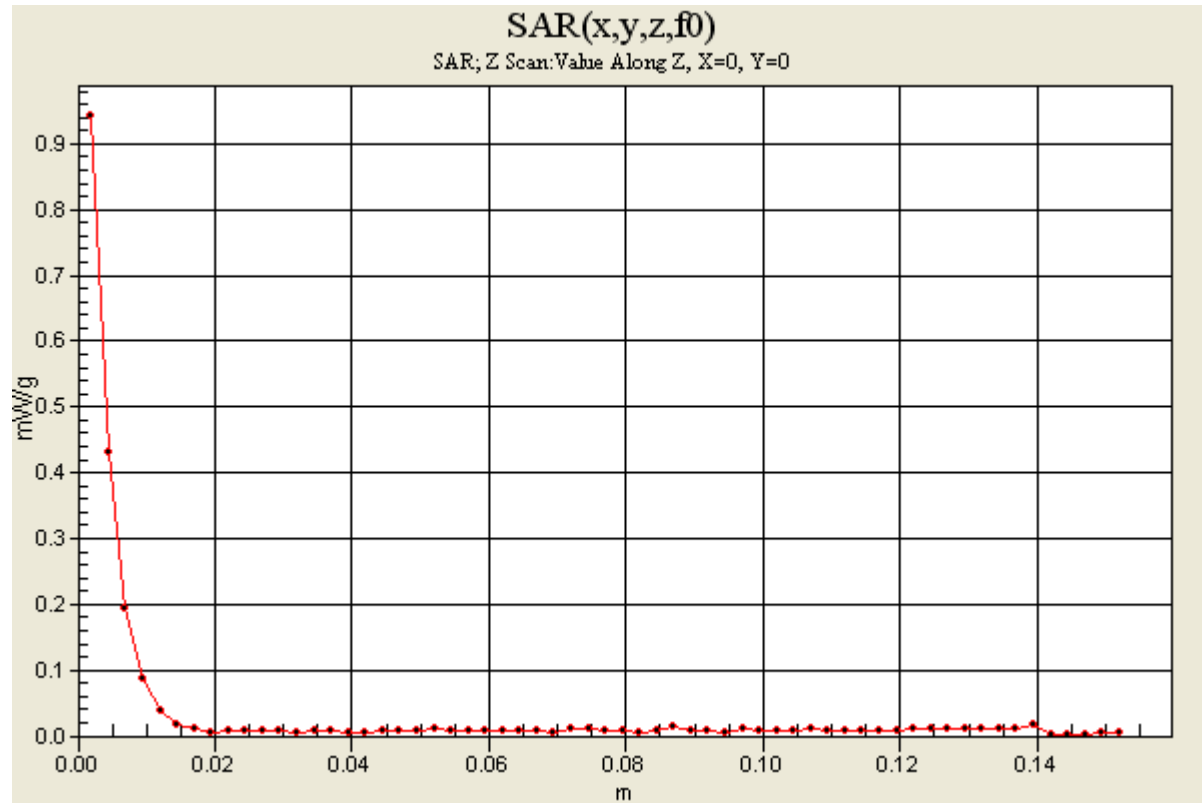
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Z-axis scan at max SAR location



CH9-1161 / HEAD / Rear / 11a QPSK 18Mbps / 5600MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.18$ mho/m; $\epsilon_r = 33.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.28, 4.28, 4.28); 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 (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.122 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.70 V/m; Power Drift = -0.163 dB

Peak SAR (extrapolated) = 0.326 W/kg

SAR(1 g) = 0.070 mW/g; SAR(10 g) = 0.030 mW/g

Maximum value of SAR (measured) = 0.145 mW/g

Zoom Scan (8x8x10)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.70 V/m; Power Drift = -0.163 dB

Peak SAR (extrapolated) = 0.192 W/kg

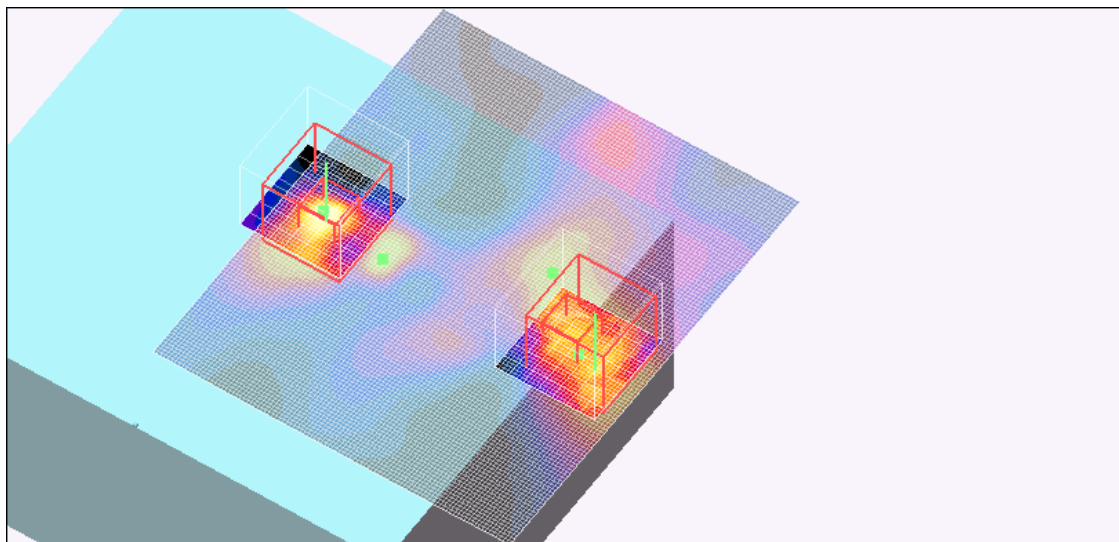
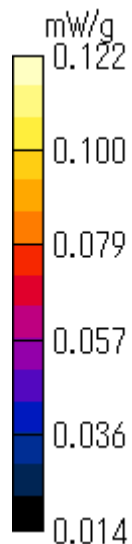
SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.030 mW/g

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

Test Date = 04/07/09

Ambient Temperature = 24.0 degree.c

Liquid Temperature = Before 23.0 degree.C , After 23.1 degree.C



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CH9-1161 / HEAD / Bottom / 11a QPSK 18Mbps / 5600MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.18$ mho/m; $\epsilon_r = 33.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.28, 4.28, 4.28); 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 (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.320 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.36 V/m; Power Drift = 0.128 dB

Peak SAR (extrapolated) = 0.827 W/kg

SAR(1 g) = 0.168 mW/g; SAR(10 g) = 0.070 mW/g

Maximum value of SAR (measured) = 0.324 mW/g

Zoom Scan 2 (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.36 V/m; Power Drift = 0.128 dB

Peak SAR (extrapolated) = 0.381 W/kg

SAR(1 g) = 0.102 mW/g; SAR(10 g) = 0.029 mW/g

Maximum value of SAR (measured) = 0.213 mW/g

Zoom Scan (8x8x10)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.36 V/m; Power Drift = 0.128 dB

Peak SAR (extrapolated) = 0.646 W/kg

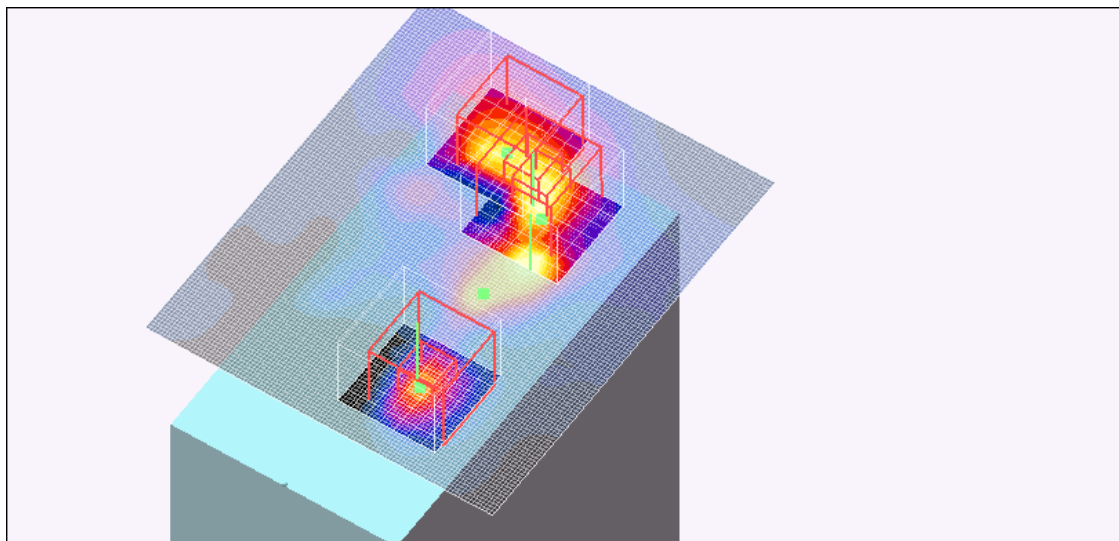
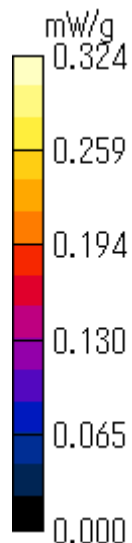
SAR(1 g) = 0.166 mW/g; SAR(10 g) = 0.058 mW/g

Maximum value of SAR (measured) = 0.360 mW/g

Test Date = 04/07/09

Ambient Temperature = 24.0 degree.C

Liquid Temperature = Before 23.1 degree.C , After 23.1 degree.C



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CH9-1161 / HEAD / Front / 11a QPSK 18Mbps / 5500MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.01 \text{ mho/m}$; $\epsilon_r = 34.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.39, 4.39, 4.39); 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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.405 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 5.73 V/m ; Power Drift = -0.104 dB

Peak SAR (extrapolated) = 0.786 W/kg

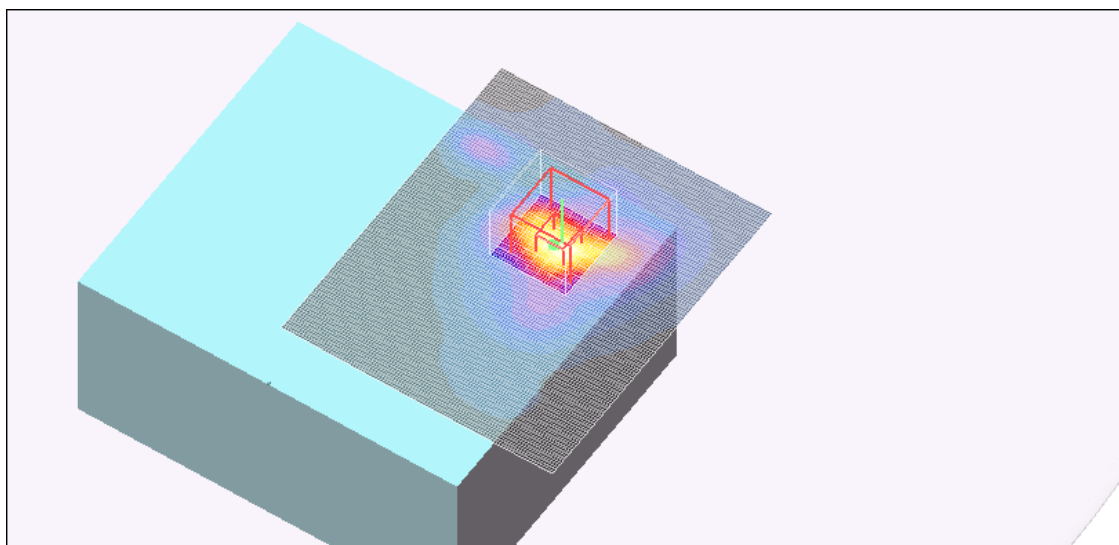
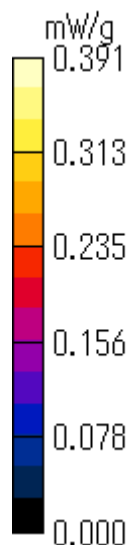
SAR(1 g) = 0.214 mW/g ; SAR(10 g) = 0.084 mW/g

Maximum value of SAR (measured) = 0.391 mW/g

Test Date = 04/07/09

Ambient Temperature = 24.0 degree.c

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



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CH9-1161 / HEAD / Front / 11a QPSK 18Mbps / 5580MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.18$ mho/m; $\epsilon_r = 33.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.28, 4.28, 4.28); 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 (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.829 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.97 V/m; Power Drift = -0.182 dB

Peak SAR (extrapolated) = 1.64 W/kg

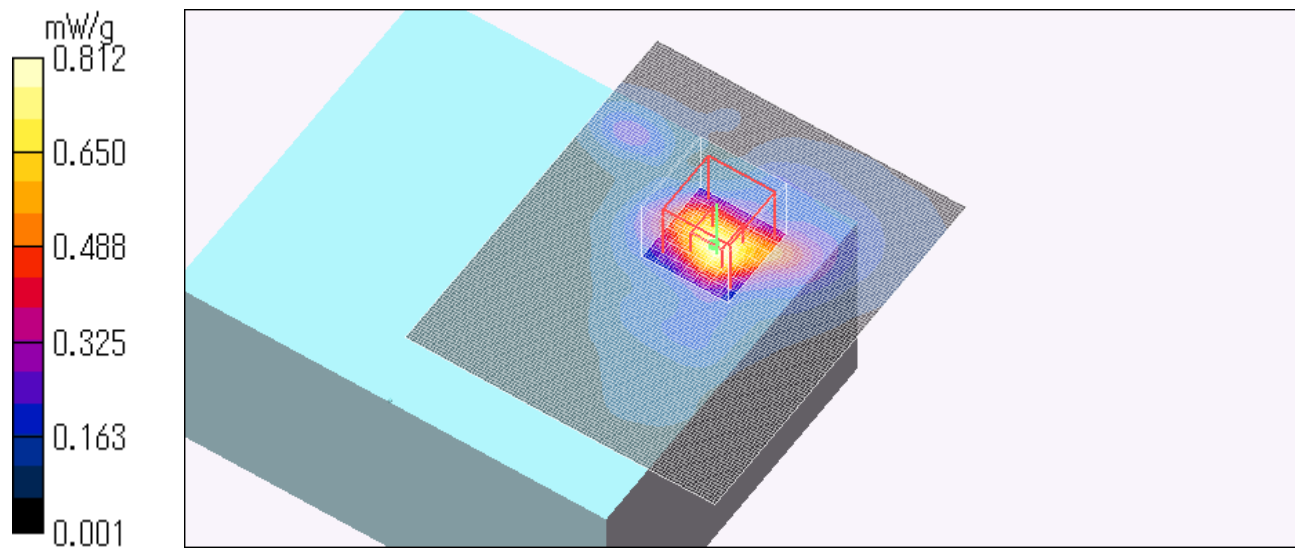
SAR(1 g) = 0.433 mW/g; SAR(10 g) = 0.162 mW/g

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

Test Date = 04/07/09

Ambient Temperature = 24.0 degree.c

Liquid Temperature = Before 23.3 degree.C , After 23.3 degree.C



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CH9-1161 / HEAD / Front / 11a QPSK 18Mbps / 5700MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.18$ mho/m; $\epsilon_r = 33.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.28, 4.28, 4.28); 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 (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.664 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 7.21 V/m; Power Drift = -0.116 dB

Peak SAR (extrapolated) = 1.38 W/kg

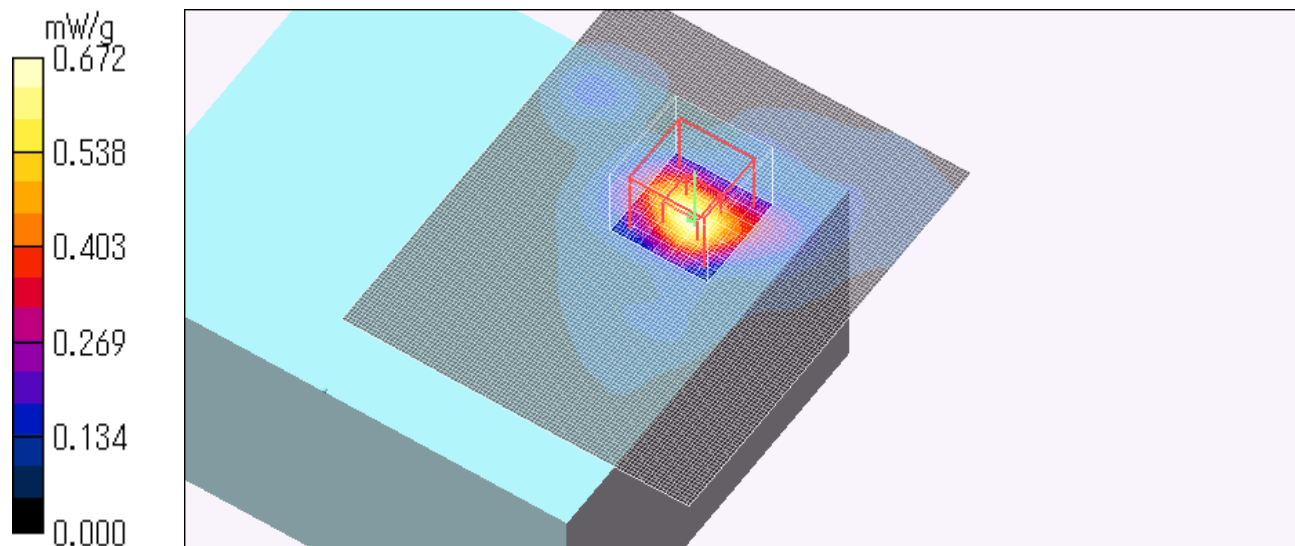
SAR(1 g) = 0.351 mW/g; SAR(10 g) = 0.127 mW/g

Maximum value of SAR (measured) = 0.672 mW/g

Test Date = 04/07/09

Ambient Temperature = 24.0 degree.c

Liquid Temperature = Before 23.3 degree.C , After 23.3 degree.C



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CH9-1161 / HEAD / Front 5mm / 11a QPSK 18Mbps / 5600MHz

Crest factor:1

Medium: HSL 5800 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.18 \text{ mho/m}$; $\epsilon_r = 33.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.28, 4.28, 4.28); 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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.374 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 9.17 V/m ; Power Drift = -0.146 dB

Peak SAR (extrapolated) = 0.649 W/kg

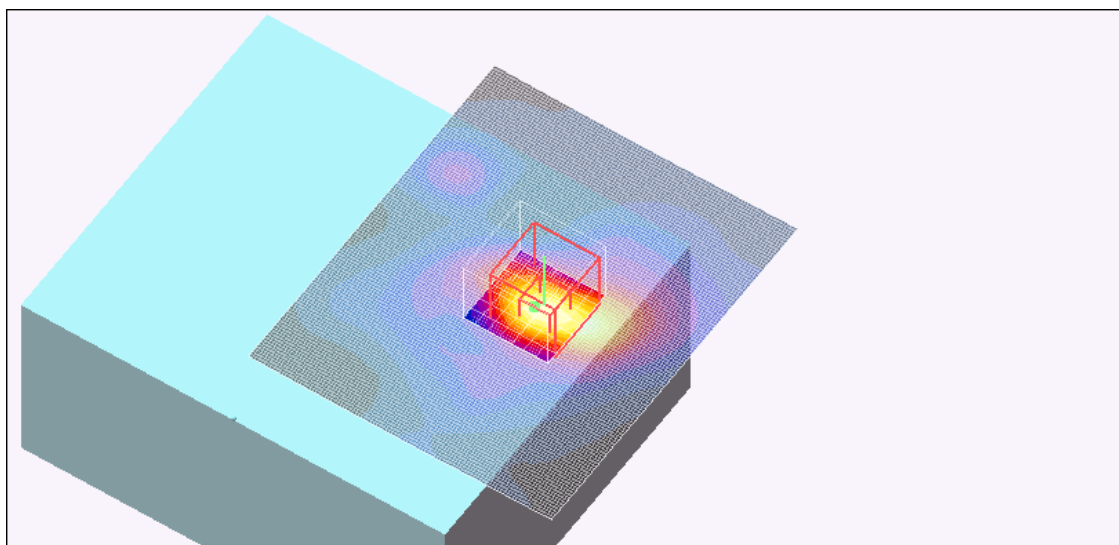
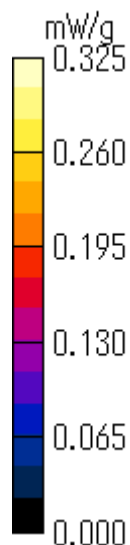
SAR(1 g) = 0.179 mW/g ; SAR(10 g) = 0.071 mW/g

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

Test Date = 04/07/09

Ambient Temperature = 24.0 degree.C

Liquid Temperature = Before 23.0 degree.C , After 23.0 degree.C



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CH9-1161 / HEAD / Front 10mm / 11a QPSK 18Mbps / 5600MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.18 \text{ mho/m}$; $\epsilon_r = 33.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.28, 4.28, 4.28); 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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.197 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 6.11 V/m ; Power Drift = -0.202 dB

Peak SAR (extrapolated) = 0.372 W/kg

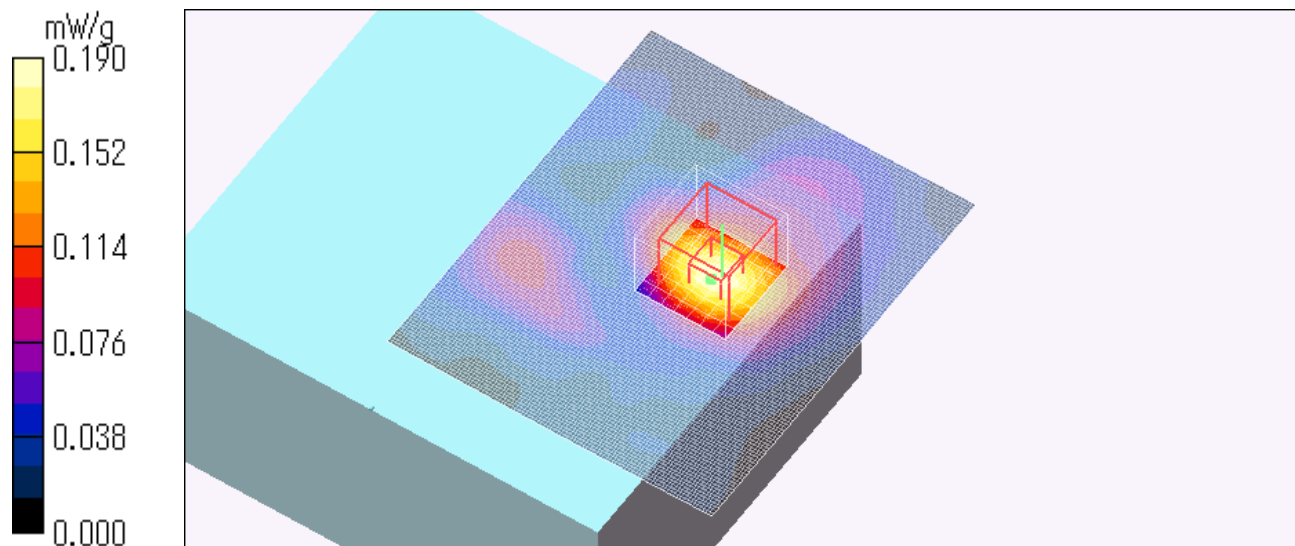
SAR(1 g) = 0.105 mW/g ; SAR(10 g) = 0.043 mW/g

Maximum value of SAR (measured) = 0.190 mW/g

Test Date = 04/07/09

Ambient Temperature = 24.0 degree.c

Liquid Temperature = Before 23.0 degree.C , After 23.0 degree.C



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4. Reference Measurement data (Head SAR 5745-5825MHz band)

CH9-1161 / HEAD / Front / 11a BPSK 6Mbps / 5785MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.45$ mho/m; $\epsilon_r = 33.6$; $\rho = 1000$ kg/m³

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 (101x121x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.524 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

Reference Value = 8.79 V/m; Power Drift = -0.088 dB

Peak SAR (extrapolated) = 0.940 W/kg

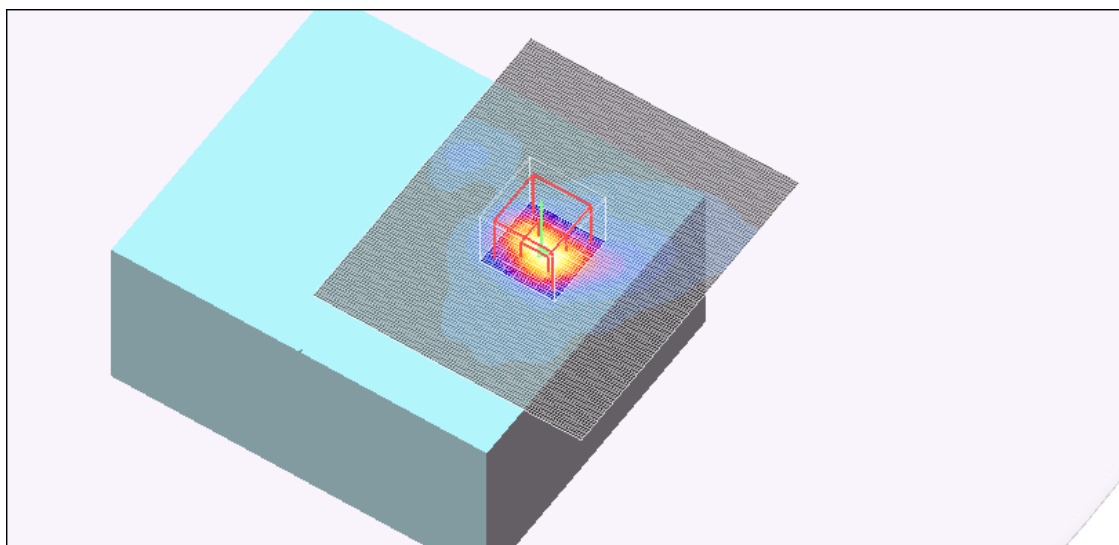
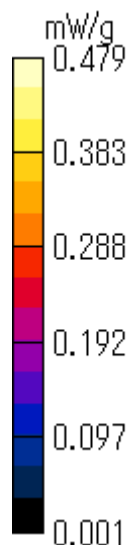
SAR(1 g) = 0.255 mW/g; SAR(10 g) = 0.094 mW/g

Maximum value of SAR (measured) = 0.479 mW/g

Test Date = 04/08/09

Ambient Temperature = 24.0 degree.C

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



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CH9-1161 / HEAD / Front / 11a QPSK 18Mbps / 5785MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.45$ mho/m; $\epsilon_r = 33.6$; $\rho = 1000$ kg/m³

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 (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.514 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 8.78 V/m; Power Drift = -0.094 dB

Peak SAR (extrapolated) = 0.977 W/kg

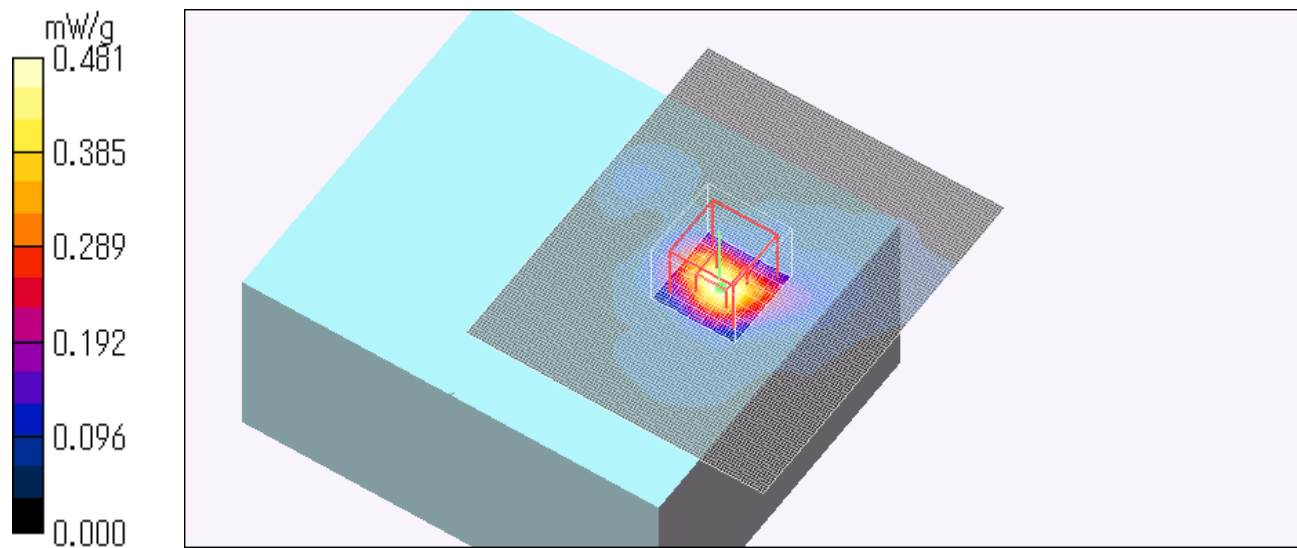
SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.092 mW/g

Maximum value of SAR (measured) = 0.481 mW/g

Test Date = 04/08/09

Ambient Temperature = 24.0 degree.c

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



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CH9-1161 / HEAD / Front / 11a 16QAM 24Mbps / 5785MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.45 \text{ mho/m}$; $\epsilon_r = 33.6$; $\rho = 1000 \text{ kg/m}^3$

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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 8.91 V/m ; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 1.13 W/kg

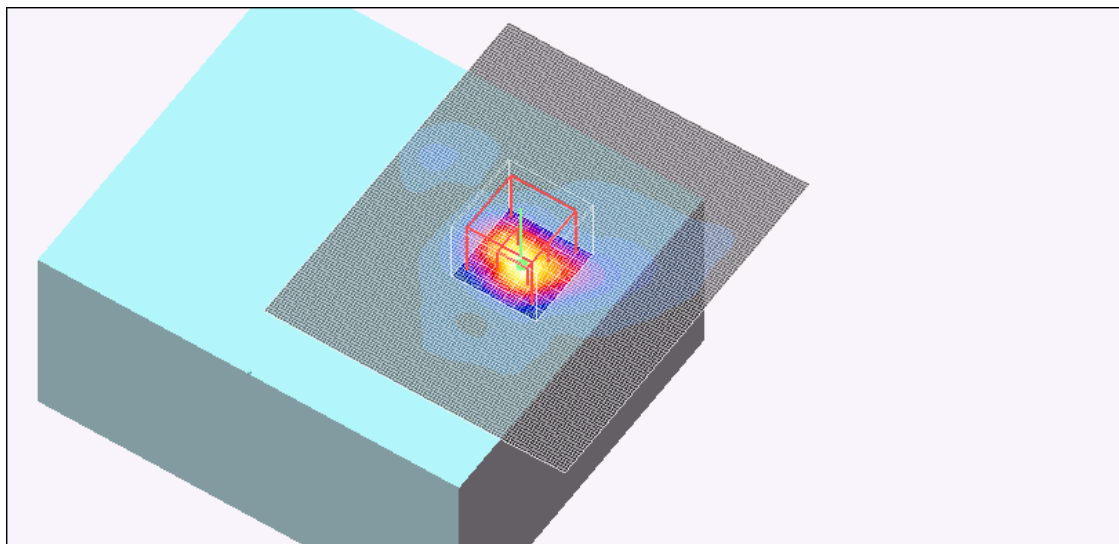
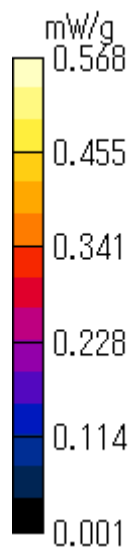
SAR(1 g) = 0.288 mW/g ; SAR(10 g) = 0.101 mW/g

Maximum value of SAR (measured) = 0.568 mW/g

Test Date = 04/08/09

Ambient Temperature = 24.0 degree.C

Liquid Temperature = Before 22.0 degree.C , After 21.9 degree.C



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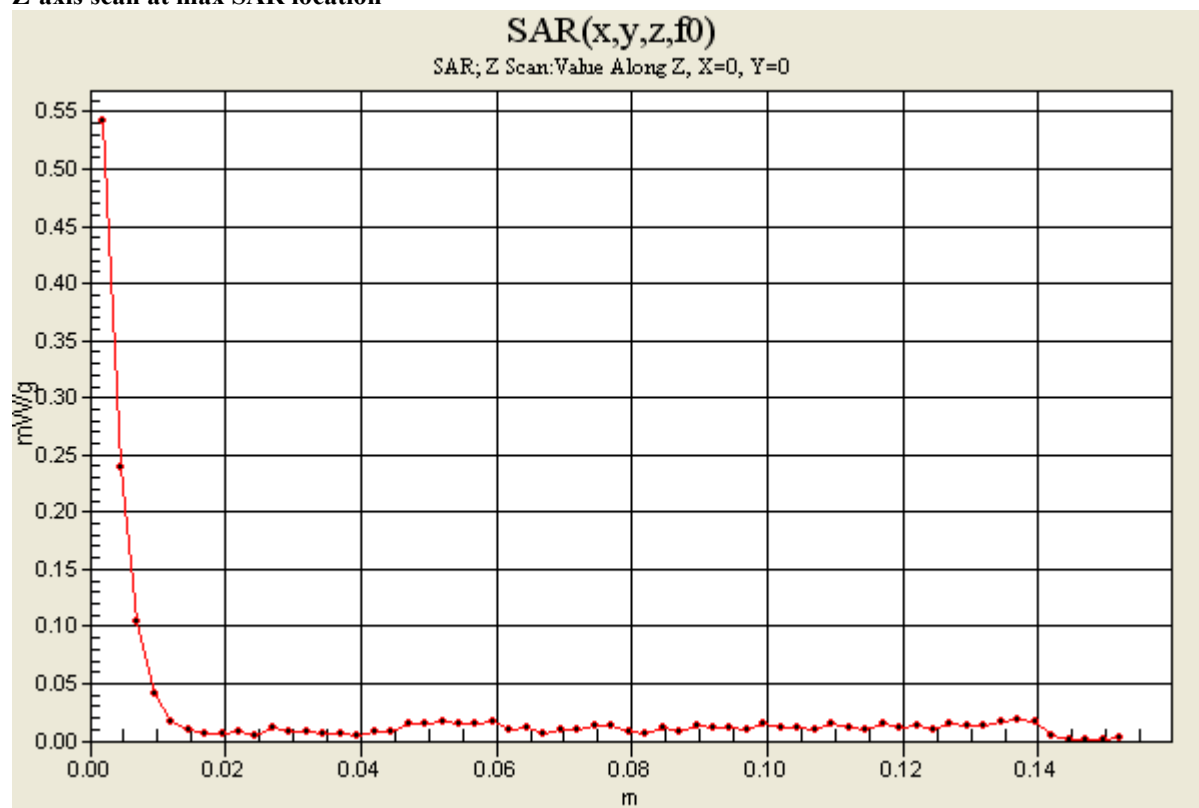
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Z-axis scan at max SAR location



CH9-1161 / HEAD / Front / 11a 64QAM 48Mbps / 5785MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.45 \text{ mho/m}$; $\epsilon_r = 33.6$; $\rho = 1000 \text{ kg/m}^3$

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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.357 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 7.42 V/m ; Power Drift = -0.209 dB

Peak SAR (extrapolated) = 0.661 W/kg

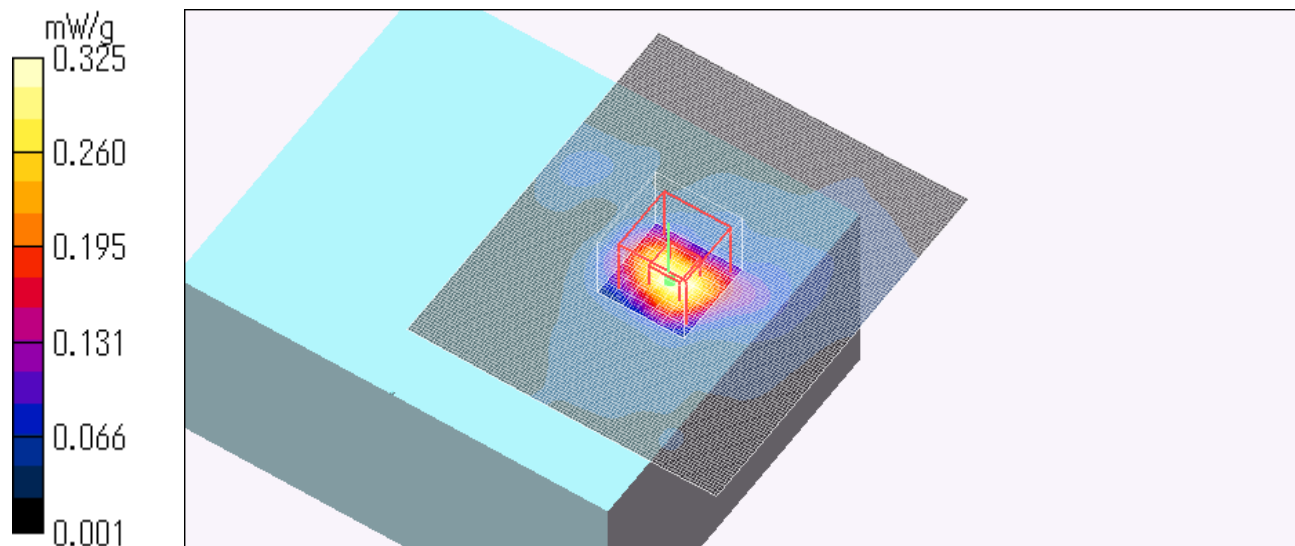
SAR(1 g) = 0.177 mW/g ; SAR(10 g) = 0.068 mW/g

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

Test Date = 04/08/09

Ambient Temperature = 24.0 degree.C

Liquid Temperature = Before 21.9 degree.C , After 21.9 degree.C



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CH9-1161 / HEAD / Side / 11a 16QAM 24Mbps / 5785MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.45 \text{ mho/m}$; $\epsilon_r = 33.6$; $\rho = 1000 \text{ kg/m}^3$

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 (81x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.193 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 2.75 V/m ; Power Drift = -0.125 dB

Peak SAR (extrapolated) = 0.296 W/kg

SAR(1 g) = 0.083 mW/g ; SAR(10 g) = 0.032 mW/g

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

Zoom Scan (8x8x10)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 2.75 V/m ; Power Drift = -0.125 dB

Peak SAR (extrapolated) = 0.288 W/kg

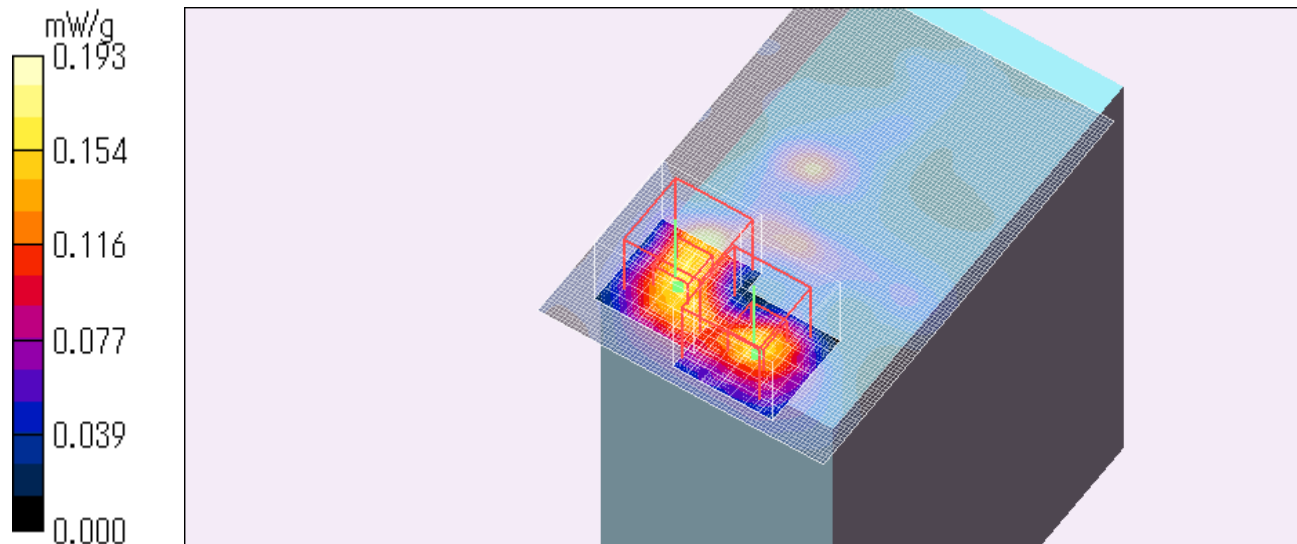
SAR(1 g) = 0.074 mW/g ; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.158 mW/g

Test Date = 04/08/09

Ambient Temperature = 24.0 degree.C

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



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CH9-1161 / HEAD / Rear / 11a 16QAM 24Mbps / 5785MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.45$ mho/m; $\epsilon_r = 33.6$; $\rho = 1000$ kg/m³

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 (101x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.069 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.34 V/m; Power Drift = -0.171 dB

Peak SAR (extrapolated) = 0.140 W/kg

SAR(1 g) = 0.035 mW/g; SAR(10 g) = 0.014 mW/g

Maximum value of SAR (measured) = 0.077 mW/g

Zoom Scan (8x8x10)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.34 V/m; Power Drift = -0.171 dB

Peak SAR (extrapolated) = 0.096 W/kg

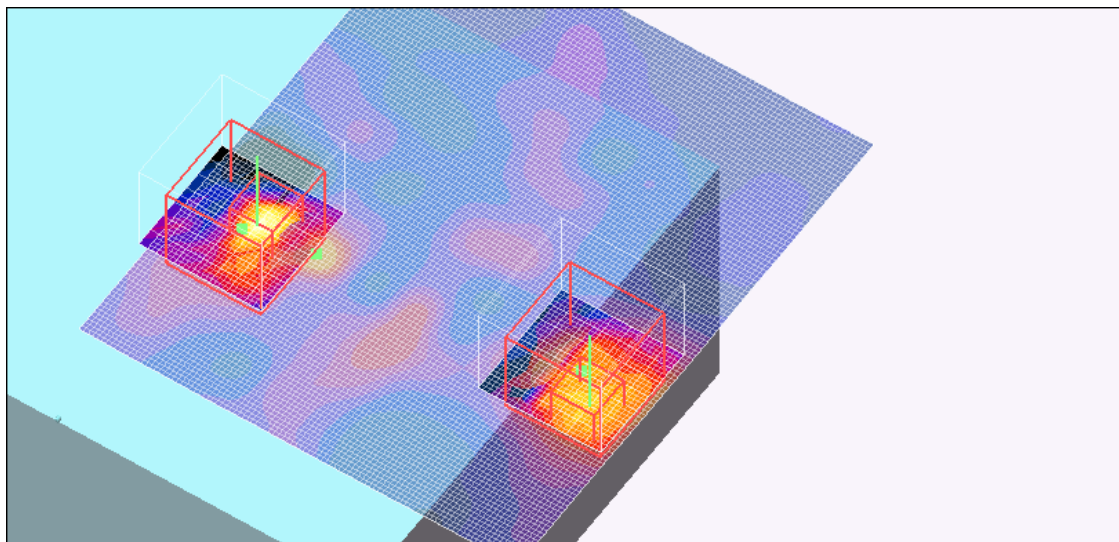
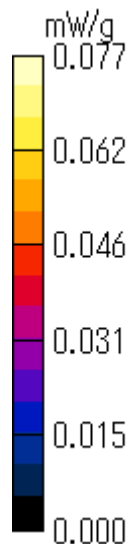
SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.018 mW/g

Maximum value of SAR (measured) = 0.060 mW/g

Test Date = 04/08/09

Ambient Temperature = 24.0 degree.c

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



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CH9-1161 / HEAD / Bottom / 11a 16QAM 24Mbps / 5785MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.45 \text{ mho/m}$; $\epsilon_r = 33.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.89, 4.89, 4.89); 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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.137 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 1.13 V/m ; Power Drift = 0.133 dB

Peak SAR (extrapolated) = 0.189 W/kg

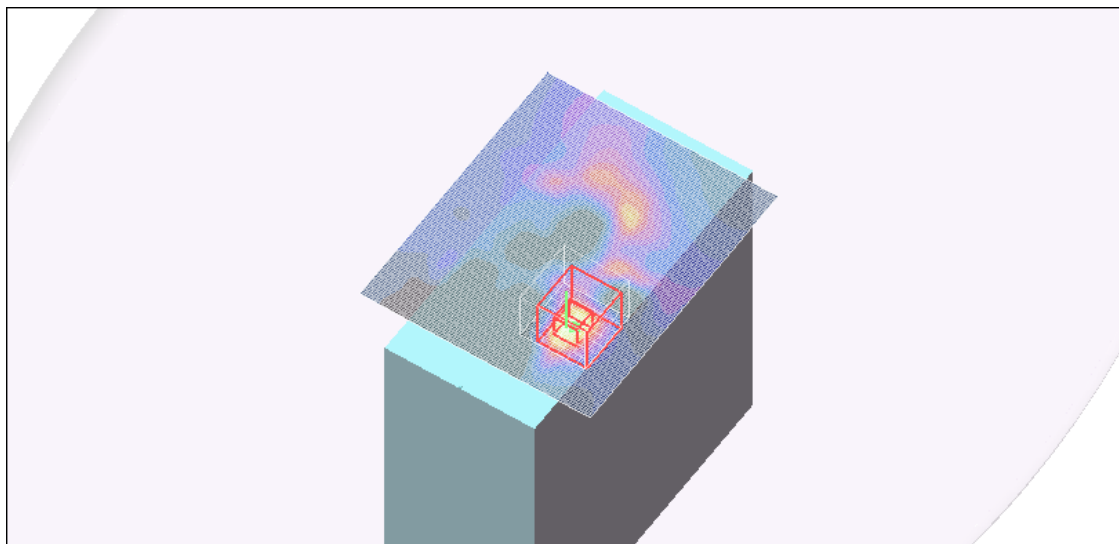
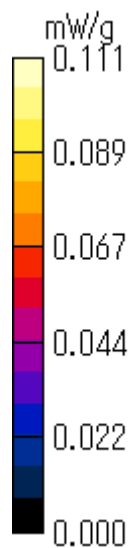
SAR(1 g) = 0.059 mW/g ; SAR(10 g) = 0.021 mW/g

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

Test Date = 04/08/09

Ambient Temperature = 24.0 degree.C

Liquid Temperature = Before 22.0 degree.C , After 22.2 degree.C



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CH9-1161 / HEAD / Front / 11a 16QAM 24Mbps / 5745MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.45 \text{ mho/m}$; $\epsilon_r = 33.6$; $\rho = 1000 \text{ kg/m}^3$

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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.558 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 9.17 V/m ; Power Drift = -0.166 dB

Peak SAR (extrapolated) = 1.08 W/kg

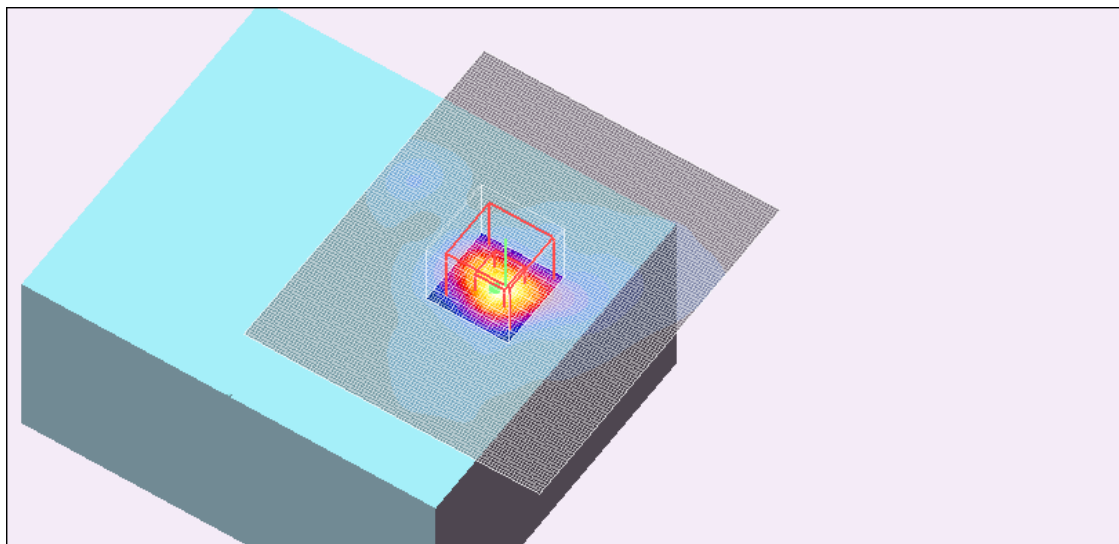
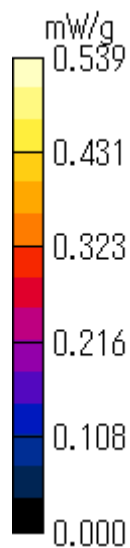
SAR(1 g) = 0.280 mW/g ; SAR(10 g) = 0.102 mW/g

Maximum value of SAR (measured) = 0.539 mW/g

Test Date = 04/08/09

Ambient Temperature = 24.0 degree.C

Liquid Temperature = Before 22.2 degree.C , After 22.3 degree.C



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CH9-1161 / HEAD / Front / 11a 16QAM 24Mbps / 5825MHz

Crest factor: 1

Medium: HSL 5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.45 \text{ mho/m}$; $\epsilon_r = 33.6$; $\rho = 1000 \text{ kg/m}^3$

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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.474 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 8.68 V/m ; Power Drift = -0.067 dB

Peak SAR (extrapolated) = 0.901 W/kg

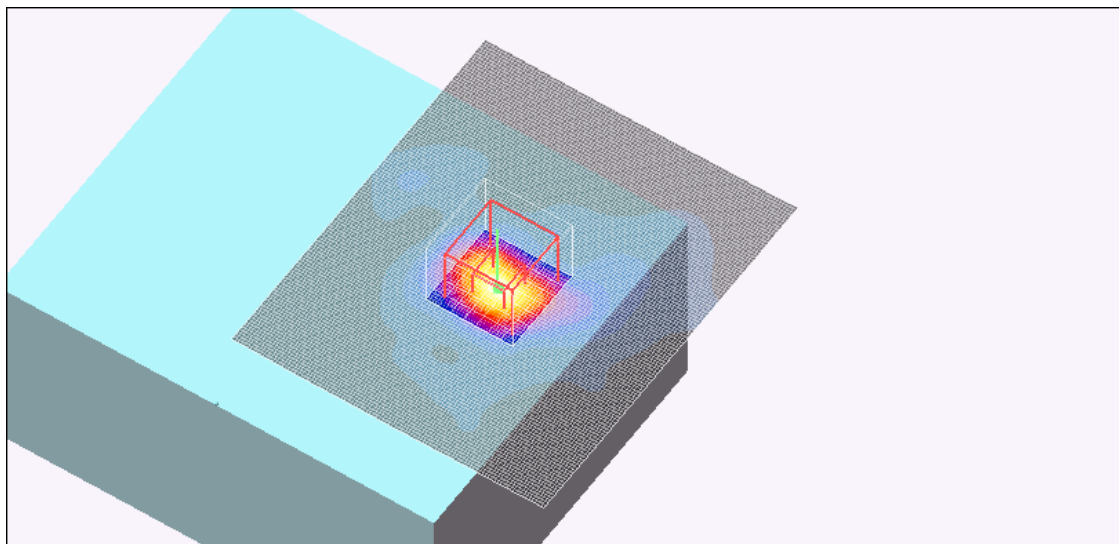
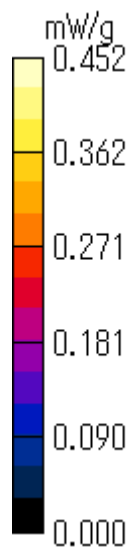
SAR(1 g) = 0.237 mW/g ; SAR(10 g) = 0.088 mW/g

Maximum value of SAR (measured) = 0.452 mW/g

Test Date = 04/08/09

Ambient Temperature = 24.0 degree.C

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



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5. Measurement data (Body SAR 5180-5320MHz band)

CH9-1161 / BODY / Side / 11a BPSK 6Mbps / 5240MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.44$ mho/m; $\epsilon_r = 48.4$; $\rho = 1000$ kg/m³

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 (81x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.298 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.11 V/m; Power Drift = -0.103 dB

Peak SAR (extrapolated) = 0.512 W/kg

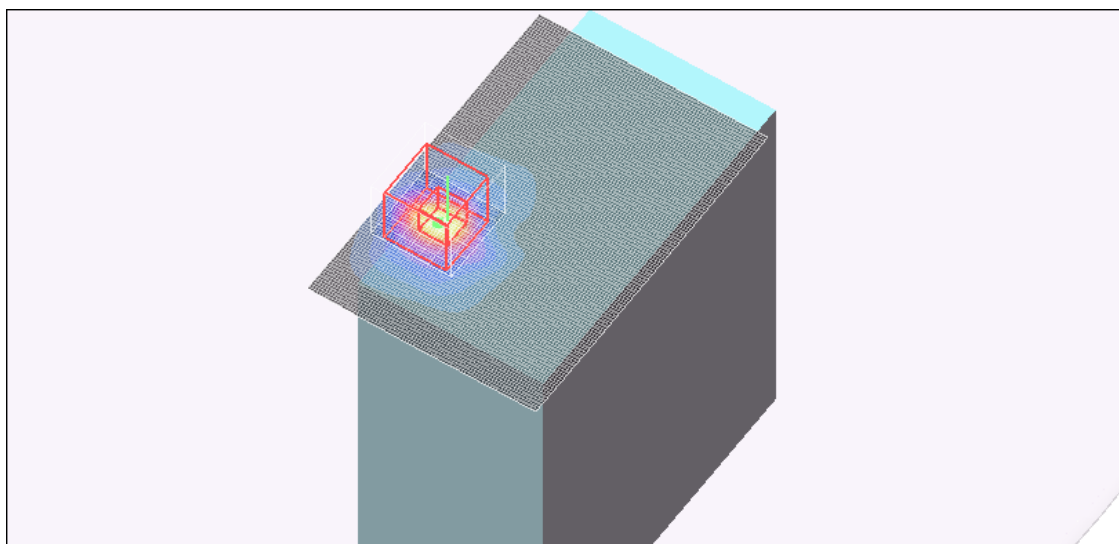
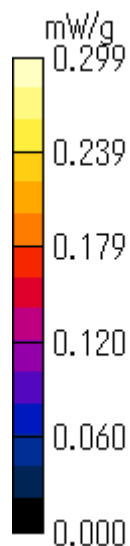
SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.049 mW/g

Maximum value of SAR (measured) = 0.299 mW/g

Test Date = 04/11/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.2 degree.C , After 24.2 degree.C



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CH9-1161 / BODY / Side / 11a QPSK 18Mbps / 5240MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.44$ mho/m; $\epsilon_r = 48.4$; $\rho = 1000$ kg/m³

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 (81x121x1): Measurement grid: dx=10mm, dy=10mm

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

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.07 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.697 W/kg

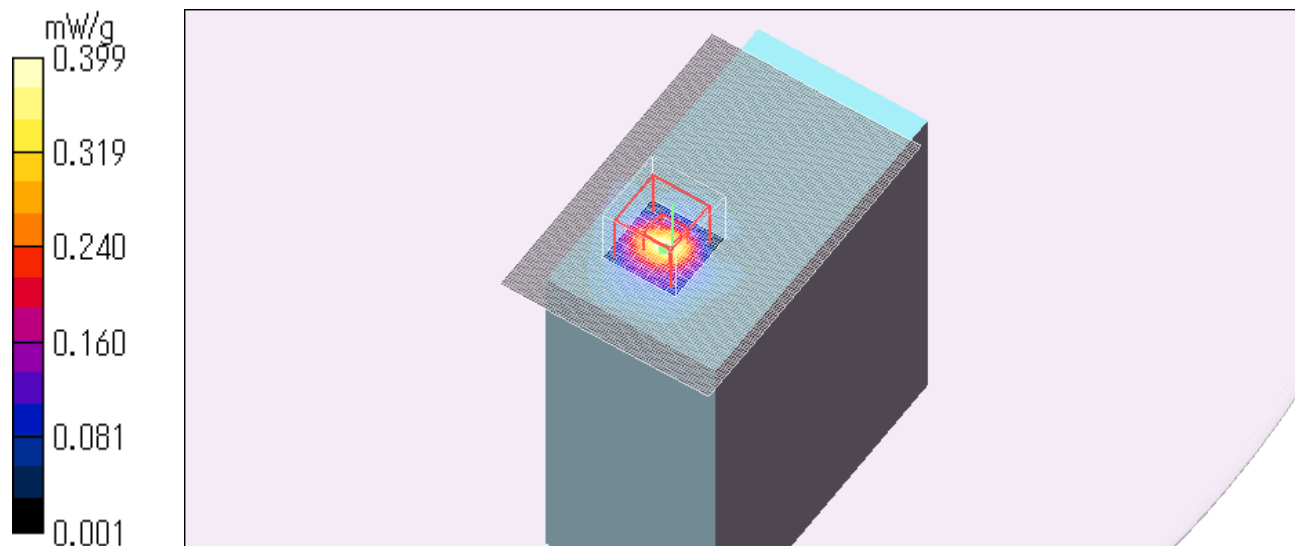
SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.071 mW/g

Maximum value of SAR (measured) = 0.399 mW/g

Test Date = 04/11/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.2 degree.C , After 24.2 degree.C



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CH9-1161 / BODY / Side / 11a 16QAM 24Mbps / 5240MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.44$ mho/m; $\epsilon_r = 48.4$; $\rho = 1000$ kg/m³

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 (81x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.397 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.06 V/m; Power Drift = -0.202 dB

Peak SAR (extrapolated) = 0.684 W/kg

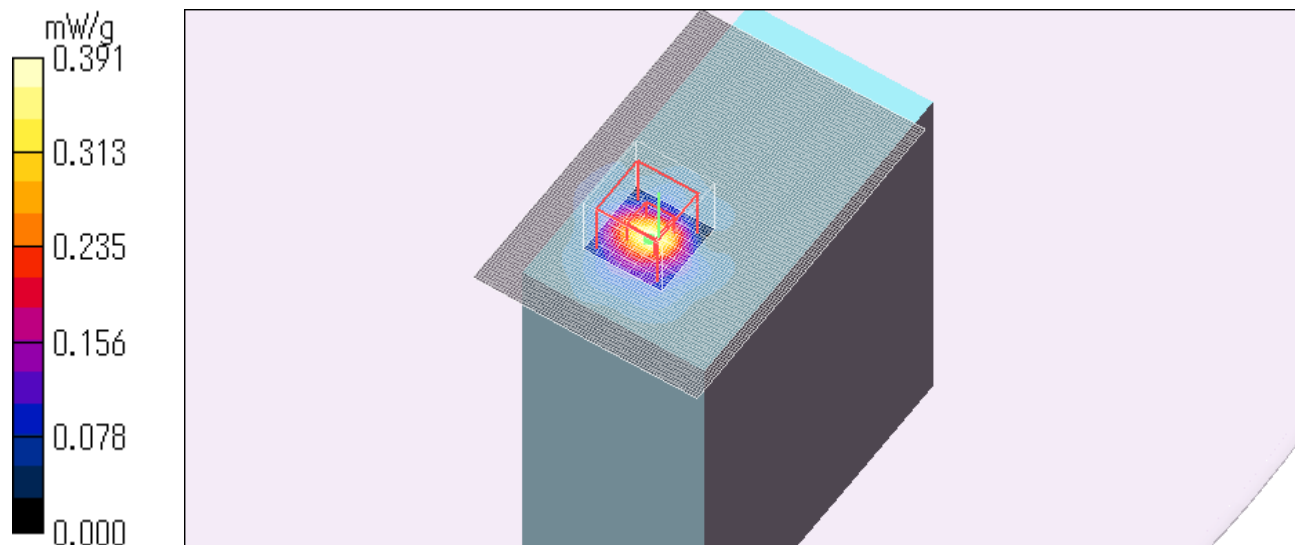
SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.069 mW/g

Maximum value of SAR (measured) = 0.391 mW/g

Test Date = 04/11/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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CH9-1161 / BODY / Side / 11a 64QAM 48Mbps / 5240MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.44$ mho/m; $\epsilon_r = 48.4$; $\rho = 1000$ kg/m³

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 (81x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.283 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.49 V/m; Power Drift = -0.125 dB

Peak SAR (extrapolated) = 0.613 W/kg

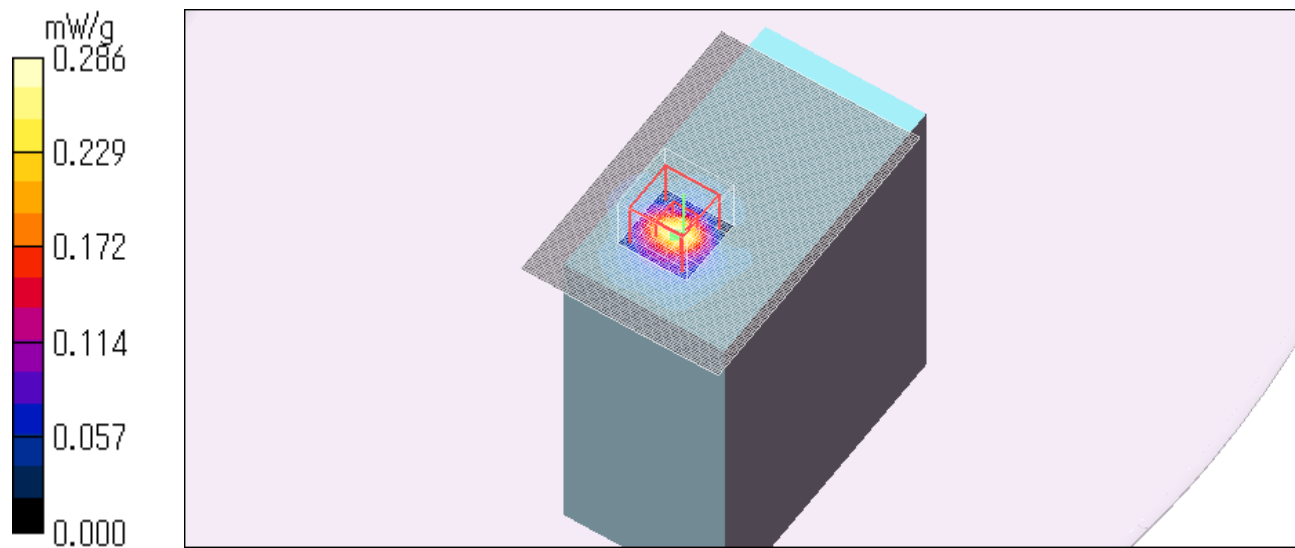
SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.051 mW/g

Maximum value of SAR (measured) = 0.286 mW/g

Test Date = 04/11/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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CH9-1161 / BODY / Front / 11a QPSK 18Mbps / 5240MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.44$ mho/m; $\epsilon_r = 48.4$; $\rho = 1000$ kg/m³

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 (121x161x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.249 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.80 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 0.420 W/kg

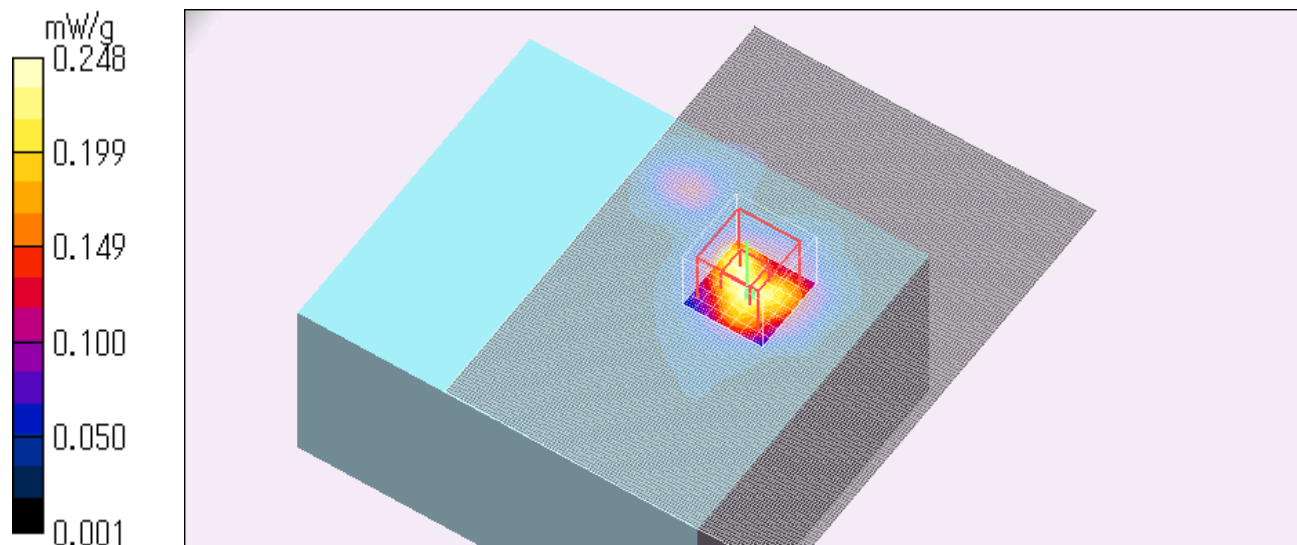
SAR(1 g) = 0.137 mW/g; SAR(10 g) = 0.059 mW/g

Maximum value of SAR (measured) = 0.248 mW/g

Test Date = 04/11/09

Ambient Temperature = 24.5 degree.C

Liquid Temperature = Before 24.1 degree.C , After 24.1 degree.C



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CH9-1161 / BODY / Rear / 11a QPSK 18Mbps / 5240MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

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 (81x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.091 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 0.959 V/m ; Power Drift = -0.212 dB

Peak SAR (extrapolated) = 0.116 W/kg

SAR(1 g) = 0.038 mW/g ; SAR(10 g) = 0.011 mW/g

Maximum value of SAR (measured) = 0.074 mW/g

Zoom Scan (8x8x10)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 0.959 V/m ; Power Drift = -0.212 dB

Peak SAR (extrapolated) = 0.169 W/kg

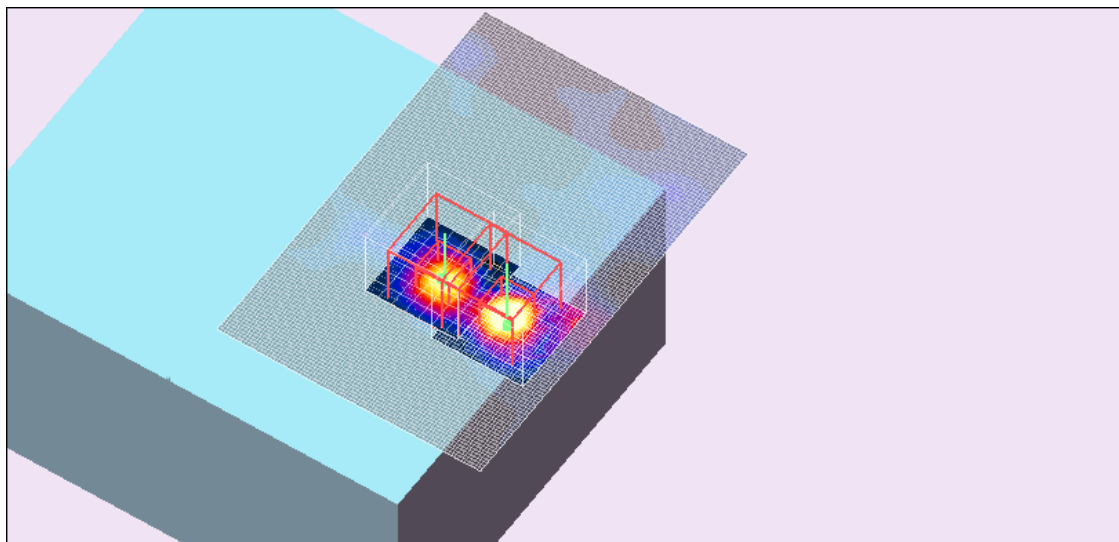
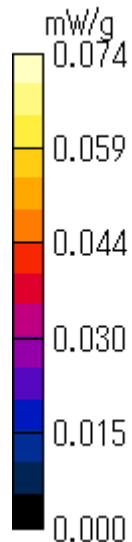
SAR(1 g) = 0.044 mW/g ; SAR(10 g) = 0.012 mW/g

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

Test Date = 04/11/09

Ambient Temperature = 24.5 degree.C

Liquid Temperature = Before 24.1 degree.C , After 24.1 degree.C



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CH9-1161 / BODY / Bottom / 11a QPSK 18Mbps / 5240MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 5.44 \text{ mho/m}$; $\epsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

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 (81x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.121 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 2.01 V/m ; Power Drift = 0.175 dB

Peak SAR (extrapolated) = 0.226 W/kg

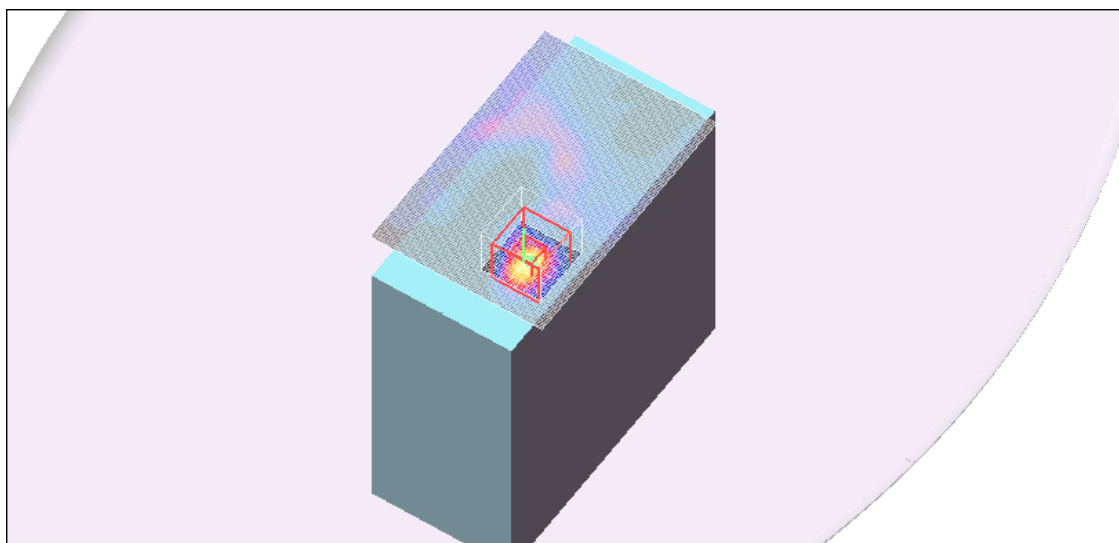
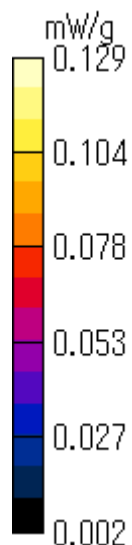
SAR(1 g) = 0.068 mW/g ; SAR(10 g) = 0.026 mW/g

Maximum value of SAR (measured) = 0.129 mW/g

Test Date = 04/11/09

Ambient Temperature = 24.5 degree.C

Liquid Temperature = Before 24.1 degree.C , After 24.1 degree.C



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CH9-1161 / BODY / Side / 11a QPSK 18Mbps / 5180MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.44$ mho/m; $\epsilon_r = 48.4$; $\rho = 1000$ kg/m³

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 (81x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.02 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.35 V/m; Power Drift = -0.161 dB

Peak SAR (extrapolated) = 1.74 W/kg

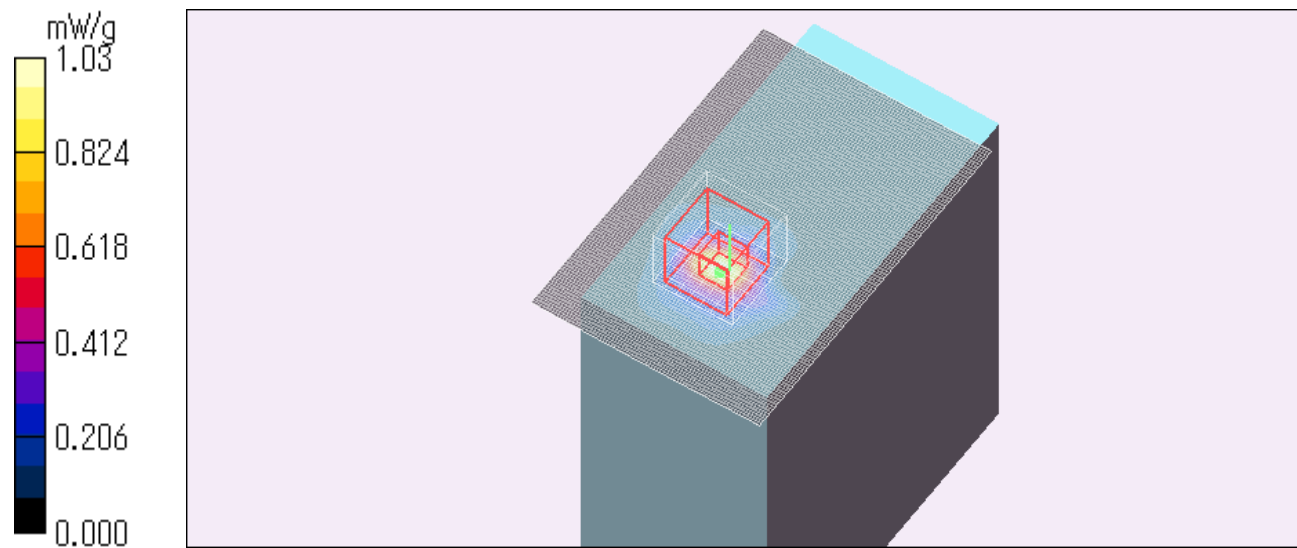
SAR(1 g) = 0.521 mW/g; SAR(10 g) = 0.175 mW/g

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

Test Date = 04/11/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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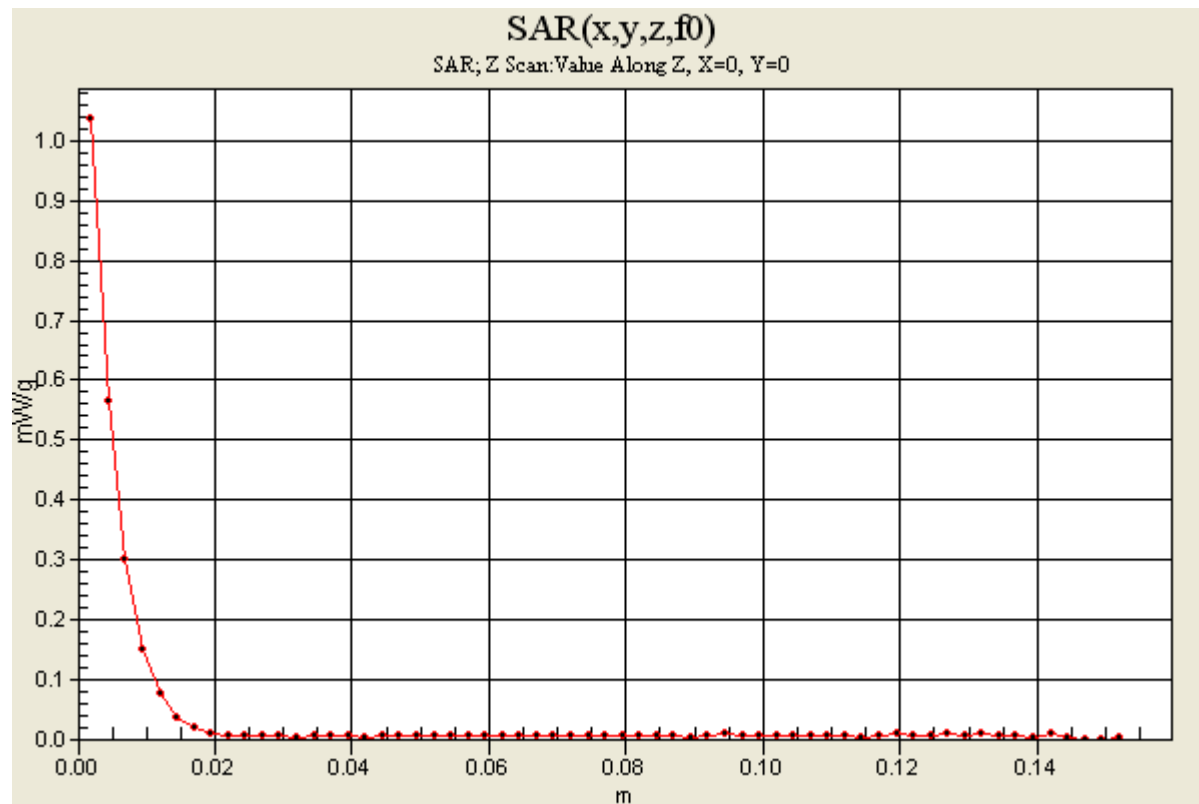
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Z-axis scan at max SAR location



CH9-1161 / BODY / Side / 11a QPSK 18Mbps / 5280MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5300$ MHz; $\sigma = 5.32$ mho/m; $\epsilon_r = 48.1$; $\rho = 1000$ kg/m³

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 (81x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.311 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.46 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 0.538 W/kg

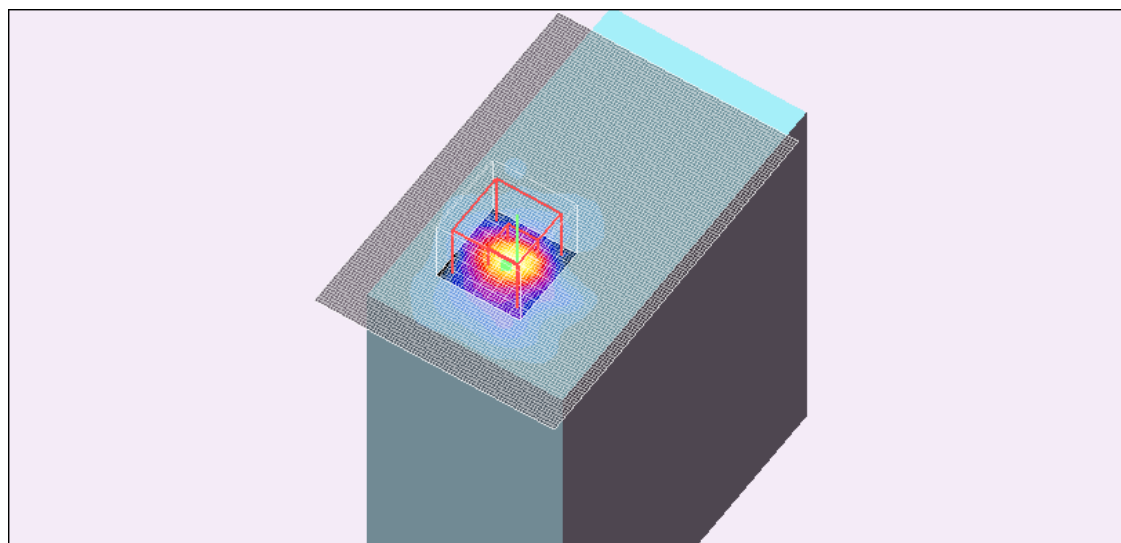
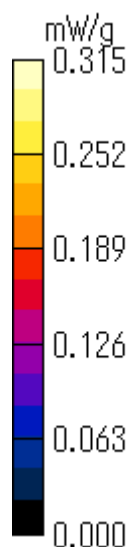
SAR(1 g) = 0.165 mW/g; SAR(10 g) = 0.054 mW/g

Maximum value of SAR (measured) = 0.315 mW/g

Test Date = 04/11/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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CH9-1161 / BODY / Side / 11a QPSK 18Mbps / 5320MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.32 \text{ mho/m}$; $\epsilon_r = 48.1$; $\rho = 1000 \text{ kg/m}^3$

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 (81x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.145 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 2.57 V/m ; Power Drift = -0.198 dB

Peak SAR (extrapolated) = 0.435 W/kg

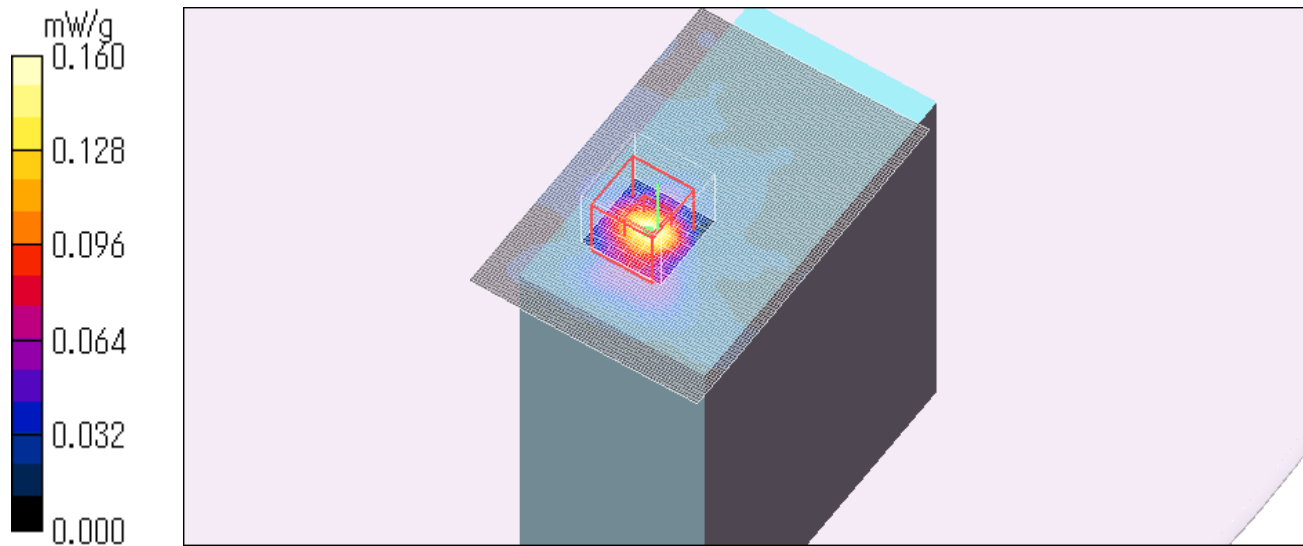
SAR(1 g) = 0.087 mW/g ; SAR(10 g) = 0.030 mW/g

Maximum value of SAR (measured) = 0.160 mW/g

Test Date = 04/11/09

Ambient Temperature = 24.5 degree.C

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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6. Measurement data (Body SAR 5500-5700MHz band)
CH9-1161 / BODY / Front / 11a BPSK 6Mbps / 5600MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.92$ mho/m; $\epsilon_r = 44.6$; $\rho = 1000$ kg/m³

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 (101x121x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.863 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

Reference Value = 12.9 V/m; Power Drift = 0.204 dB

Peak SAR (extrapolated) = 1.78 W/kg

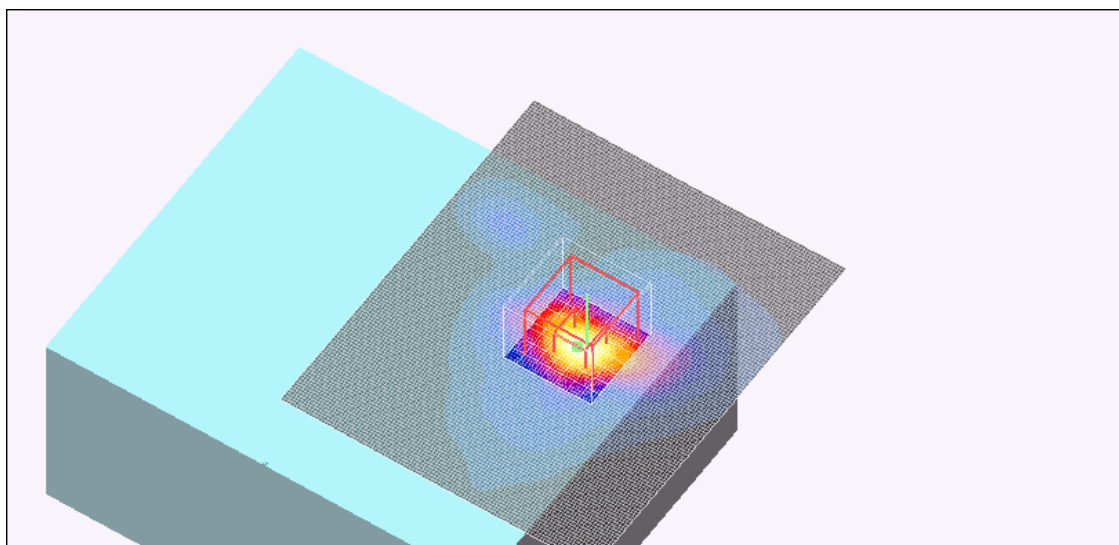
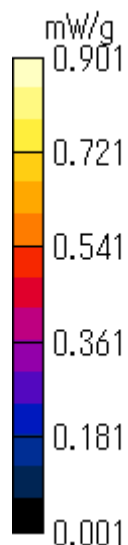
SAR(1 g) = 0.489 mW/g; SAR(10 g) = 0.180 mW/g

Maximum value of SAR (measured) = 0.901 mW/g

Test Date = 04/10/09

Ambient Temperature = 24.5 degree.C

Liquid Temperature = Before 23.0 degree.C , After 23.0 degree.C



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CH9-1161 / BODY / Front / 11a QPSK 18Mbps / 5600MHz

Crest factor:1

Medium: M5800 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.92 \text{ mho/m}$; $\epsilon_r = 44.6$; $\rho = 1000 \text{ kg/m}^3$

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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.999 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 13.3 V/m ; Power Drift = -0.205 dB

Peak SAR (extrapolated) = 1.87 W/kg

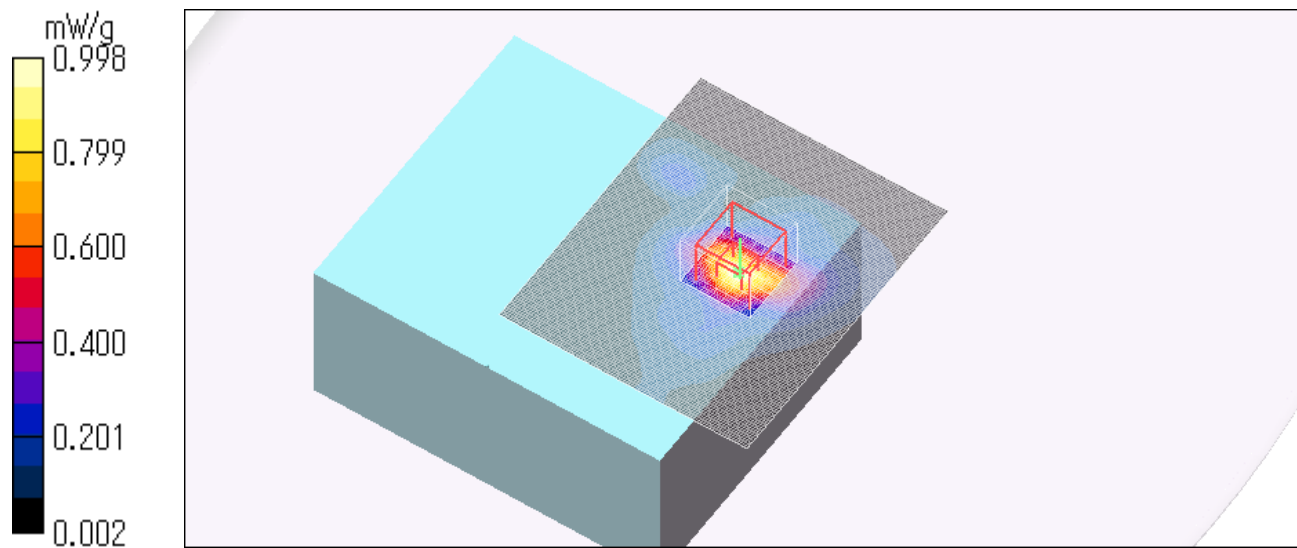
SAR(1 g) = 0.529 mW/g ; SAR(10 g) = 0.197 mW/g

Maximum value of SAR (measured) = 0.998 mW/g

Test Date = 04/10/09

Ambient Temperature = 24.5 degree.C

Liquid Temperature = Before 23.0 degree.C , After 23.2 degree.C



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CH9-1161 / BODY / Front / 11a 16QAM 24Mbps / 5600MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.92 \text{ mho/m}$; $\epsilon_r = 44.6$; $\rho = 1000 \text{ kg/m}^3$

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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.988 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 13.7 V/m ; Power Drift = -0.202 dB

Peak SAR (extrapolated) = 1.82 W/kg

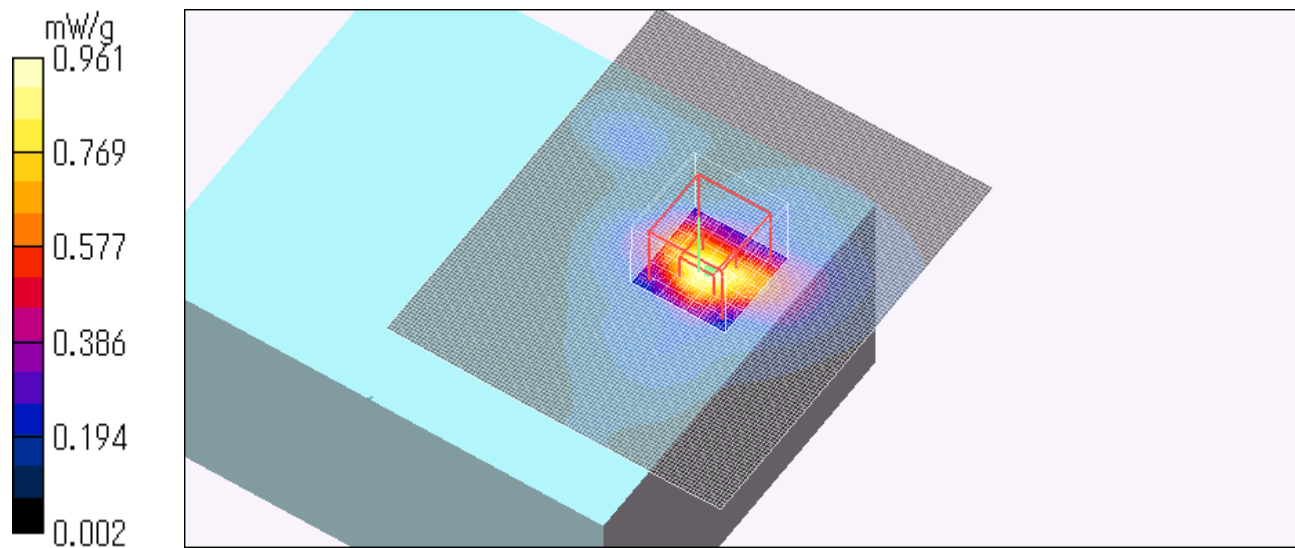
SAR(1 g) = 0.514 mW/g ; SAR(10 g) = 0.192 mW/g

Maximum value of SAR (measured) = 0.961 mW/g

Test Date = 04/10/09

Ambient Temperature = 24.5 degree.C

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



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CH9-1161 / BODY / Front / 11a 64QAM 48Mbps / 5600MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.92 \text{ mho/m}$; $\epsilon_r = 44.6$; $\rho = 1000 \text{ kg/m}^3$

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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.711 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 11.9 V/m ; Power Drift = -0.112 dB

Peak SAR (extrapolated) = 1.43 W/kg

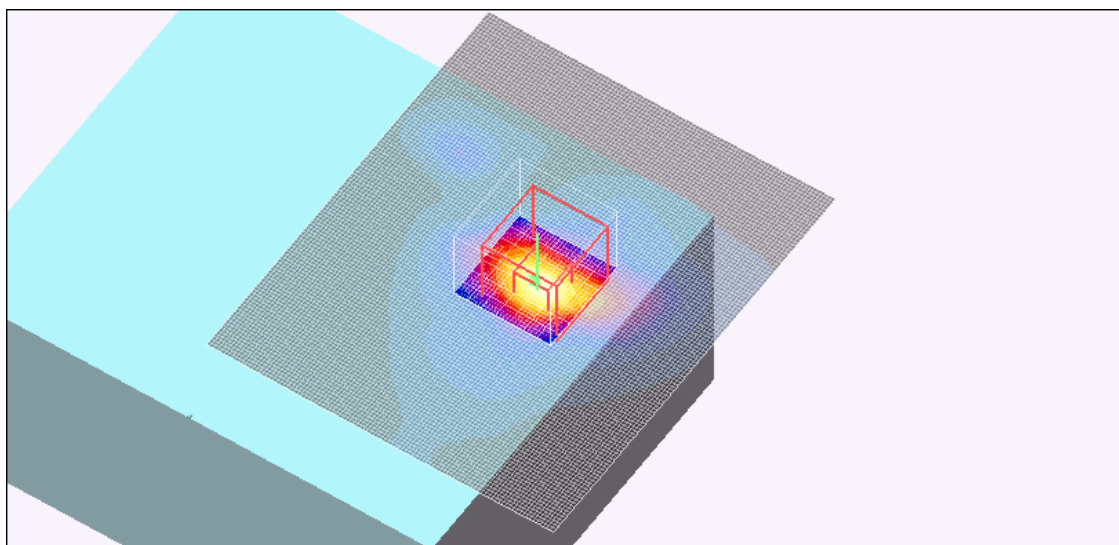
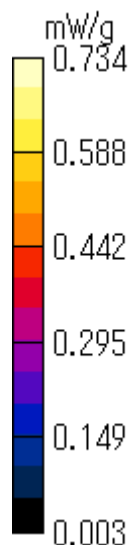
SAR(1 g) = 0.395 mW/g ; SAR(10 g) = 0.149 mW/g

Maximum value of SAR (measured) = 0.734 mW/g

Test Date = 04/10/09

Ambient Temperature = 24.5 degree.C

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



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CH9-1161 / BODY / Side / 11a QPSK 18Mbps / 5600MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.92$ mho/m; $\epsilon_r = 44.6$; $\rho = 1000$ kg/m³

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 (81x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.701 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.68 V/m; Power Drift = -0.135 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.359 mW/g; SAR(10 g) = 0.136 mW/g

Maximum value of SAR (measured) = 0.672 mW/g

Zoom Scan (8x8x10)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.68 V/m; Power Drift = -0.135 dB

Peak SAR (extrapolated) = 1.02 W/kg

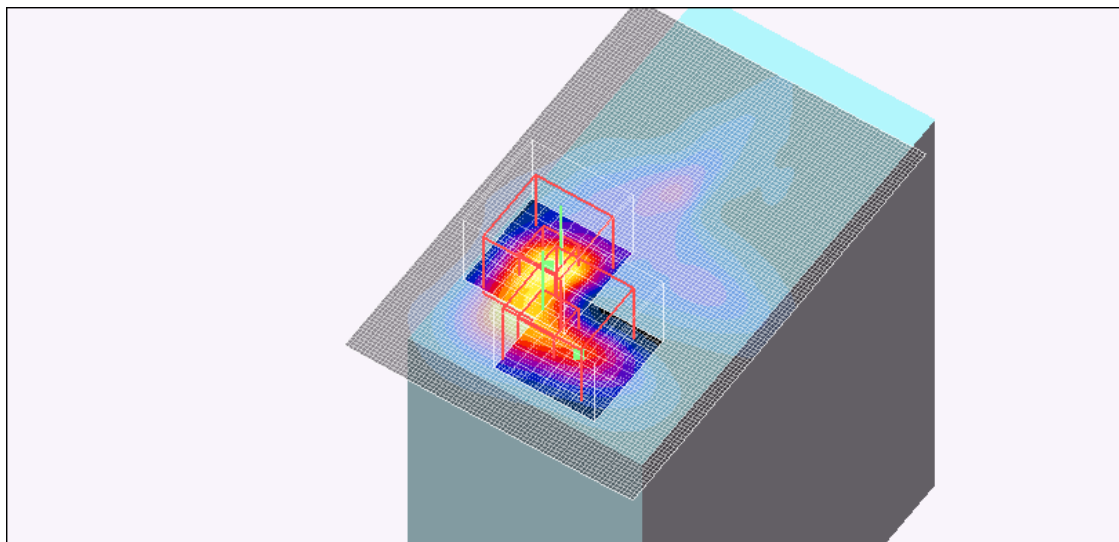
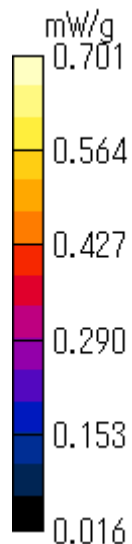
SAR(1 g) = 0.270 mW/g; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.544 mW/g

Test Date = 04/10/09

Ambient Temperature = 24.5 degree.c

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



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CH9-1161 / BODY / Rear / 11a QPSK 18Mbps / 5600MHz

Crest factor:1

Medium: M5800 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.92 \text{ mho/m}$; $\epsilon_r = 44.6$; $\rho = 1000 \text{ kg/m}^3$

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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.225 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 3.57 V/m ; Power Drift = -0.150 dB

Peak SAR (extrapolated) = 0.461 W/kg

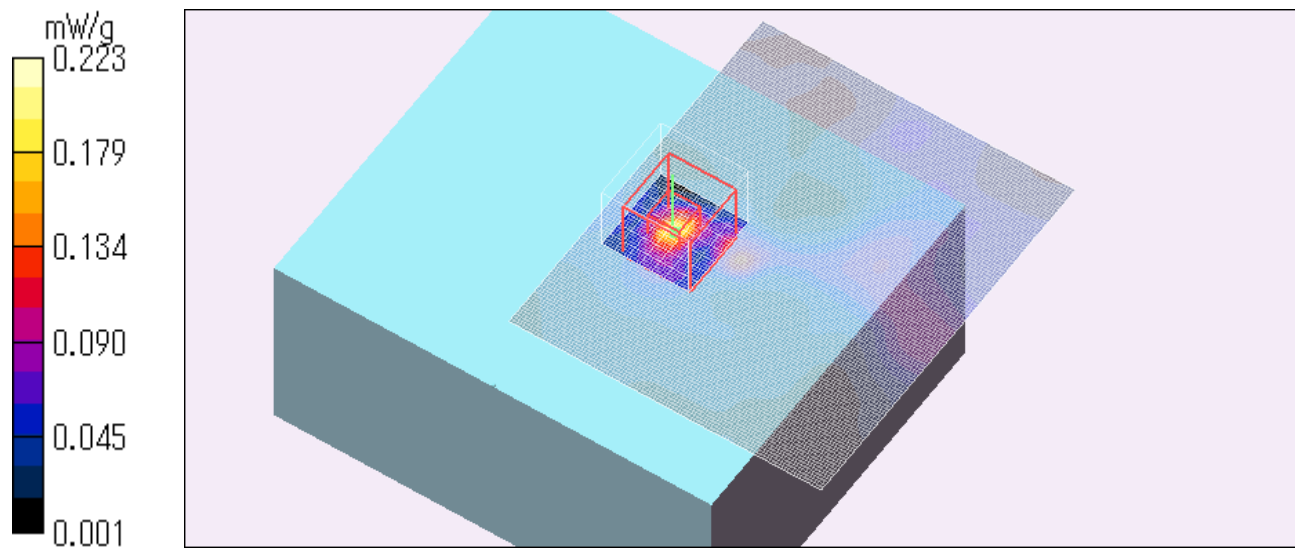
SAR(1 g) = 0.101 mW/g ; SAR(10 g) = 0.033 mW/g

Maximum value of SAR (measured) = 0.223 mW/g

Test Date = 04/10/09

Ambient Temperature = 24.5 degree.C

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



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CH9-1161 / BODY / Bottom / 11a QPSK 18Mbps / 5600MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.92 \text{ mho/m}$; $\epsilon_r = 44.6$; $\rho = 1000 \text{ kg/m}^3$

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 (81x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.462 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 5.21 V/m ; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.259 mW/g ; SAR(10 g) = 0.091 mW/g

Maximum value of SAR (measured) = 0.539 mW/g

Zoom Scan 2 (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 5.21 V/m ; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.682 W/kg

SAR(1 g) = 0.174 mW/g ; SAR(10 g) = 0.060 mW/g

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

Zoom Scan (8x8x10)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 5.21 V/m ; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.830 W/kg

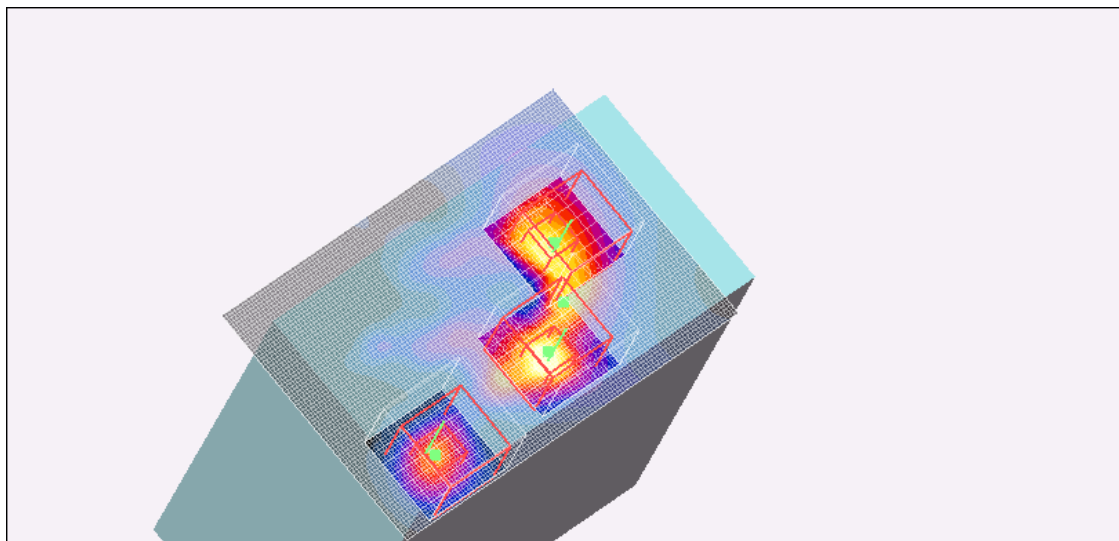
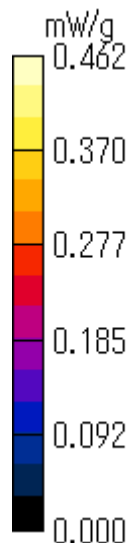
SAR(1 g) = 0.231 mW/g ; SAR(10 g) = 0.096 mW/g

Maximum value of SAR (measured) = 0.409 mW/g

Test Date = 04/10/09

Ambient Temperature = 24.5 degree.C

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



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Issued date : June 16, 2009
Rivised date : September 9, 2009
FCC ID : AZD161

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CH9-1161 / BODY / Front/ 11a QPSK 18Mbps / 5500MHz

Crest factor:1

Medium: M5800 Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.79 \text{ mho/m}$; $\epsilon_r = 44.9$; $\rho = 1000 \text{ kg/m}^3$

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 (101x101x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.340 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 8.23 V/m ; Power Drift = -0.115 dB

Peak SAR (extrapolated) = 0.643 W/kg

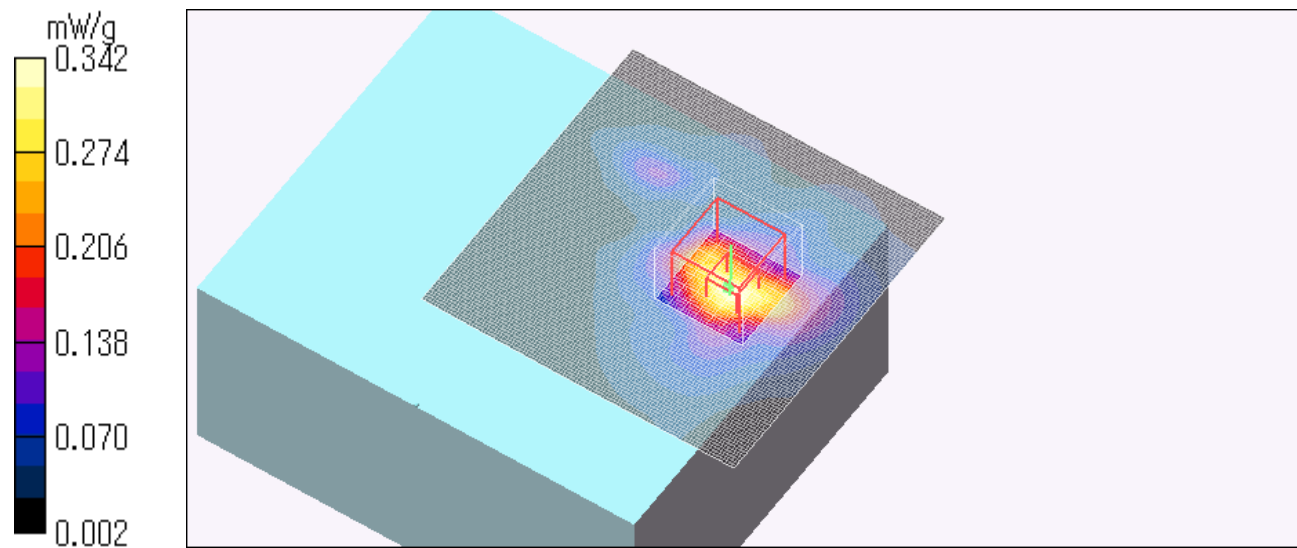
SAR(1 g) = 0.185 mW/g ; SAR(10 g) = 0.076 mW/g

Maximum value of SAR (measured) = 0.342 mW/g

Test Date = 04/10/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.2 degree.C , After 23.4 degree.C



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CH9-1161 / BODY / Front / 11a QPSK 18Mbps / 5580MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.92$ mho/m; $\epsilon_r = 44.6$; $\rho = 1000$ kg/m³

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 (101x101x1): 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 = 12.2 V/m; Power Drift = -0.142 dB

Peak SAR (extrapolated) = 1.48 W/kg

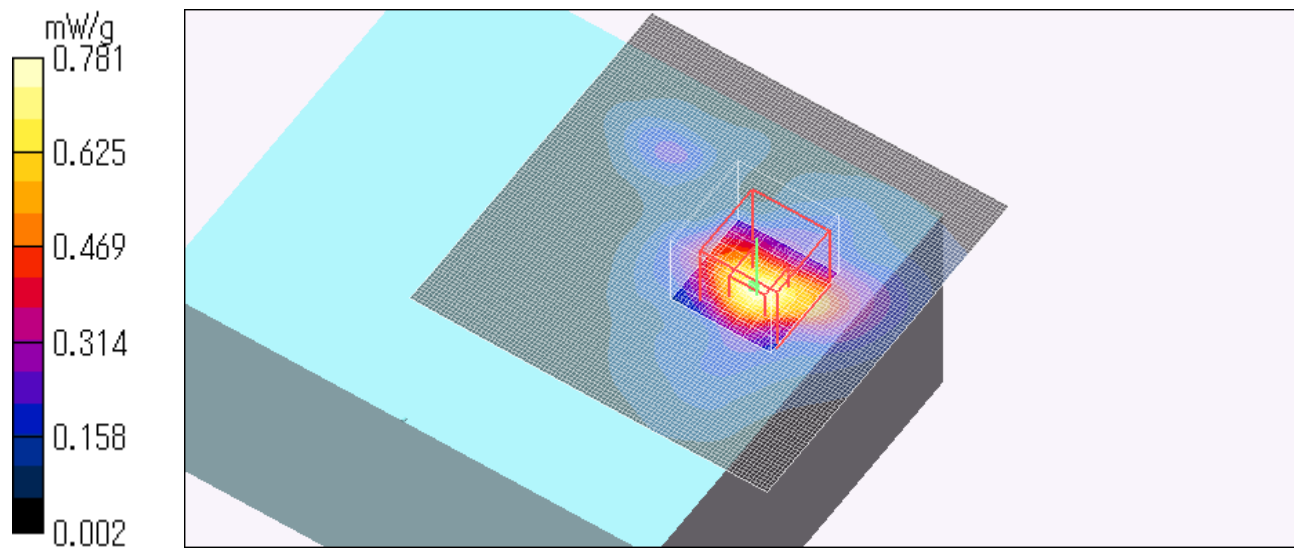
SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.156 mW/g

Maximum value of SAR (measured) = 0.781 mW/g

Test Date = 04/10/09

Ambient Temperature = 24.5 degree.c

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



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CH9-1161 / BODY / Front / 11a QPSK 18Mbps / 5700MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.92$ mho/m; $\epsilon_r = 44.6$; $\rho = 1000$ kg/m³

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 (101x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.503 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 10.5 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 0.878 W/kg

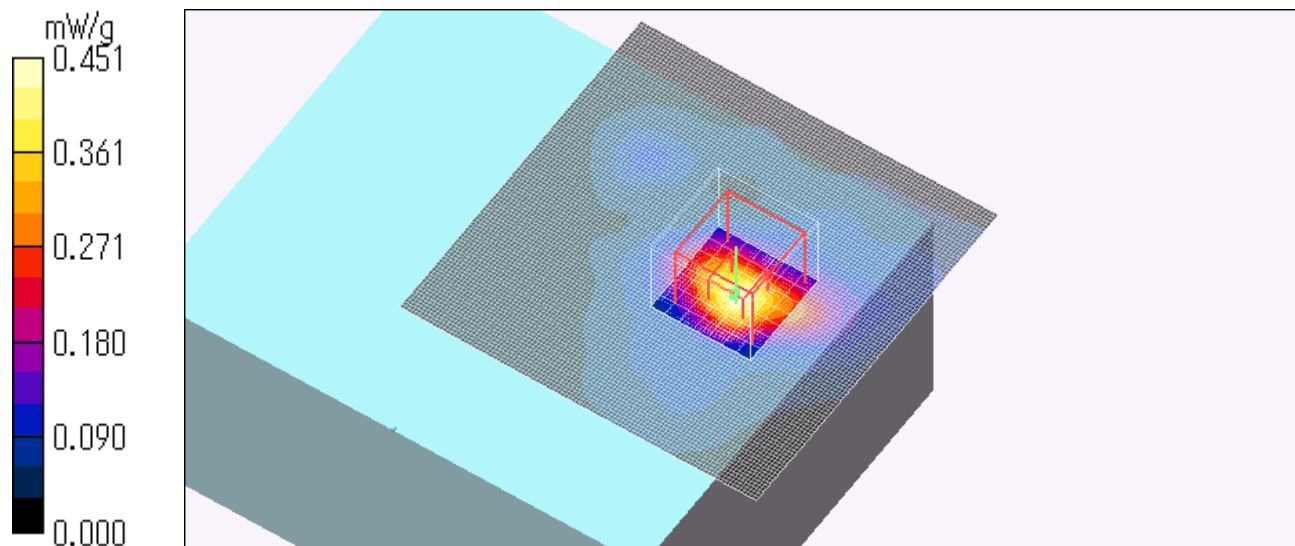
SAR(1 g) = 0.235 mW/g; SAR(10 g) = 0.088 mW/g

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

Test Date = 04/10/09

Ambient Temperature = 24.5 degree.c

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



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7. Measurement data (Body SAR 5745-5825MHz band)
CH9-1161 / BODY / Front / 11a BPSK 6Mbps / 5785MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 6.25 \text{ mho/m}$; $\epsilon_r = 45.8$; $\rho = 1000 \text{ kg/m}^3$

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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.318 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 4.16 V/m ; Power Drift = -0.172 dB

Peak SAR (extrapolated) = 0.553 W/kg

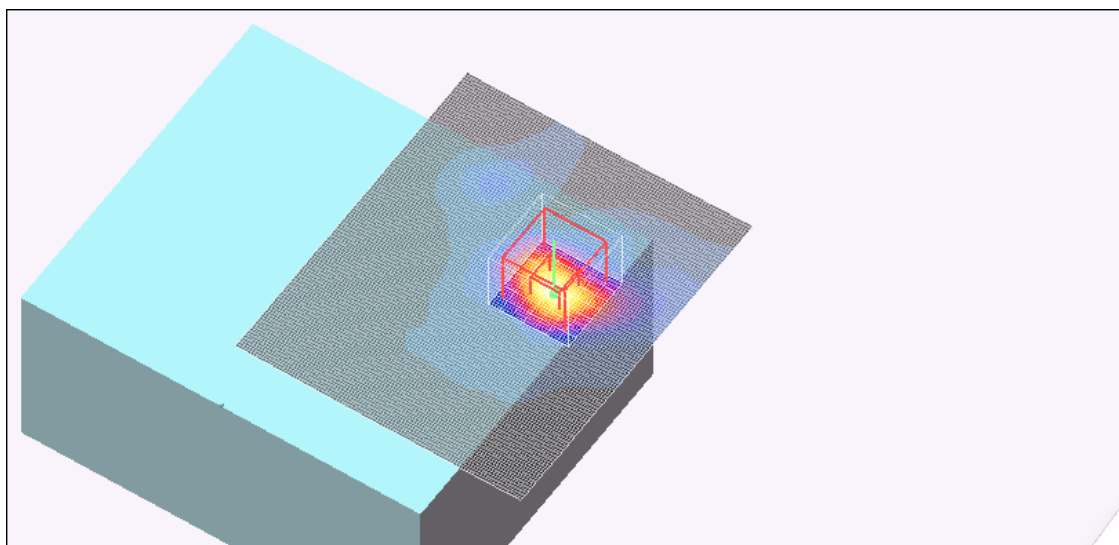
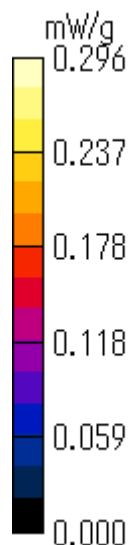
SAR(1 g) = 0.154 mW/g ; SAR(10 g) = 0.059 mW/g

Maximum value of SAR (measured) = 0.296 mW/g

Test Date = 04/09/09

Ambient Temperature = 24.5 degree.C

Liquid Temperature = Before 23.0 degree.C , After 23.0 degree.C



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CH9-1161 / BODY / Front / 11a QPSK 18Mbps / 5785MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5800$ MHz; $\sigma = 6.25$ mho/m; $\epsilon_r = 45.8$; $\rho = 1000$ kg/m³

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 (101x121x1): Measurement grid: dx=10mm, dy=10mm

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

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 4.67 V/m; Power Drift = -0.063 dB

Peak SAR (extrapolated) = 0.908 W/kg

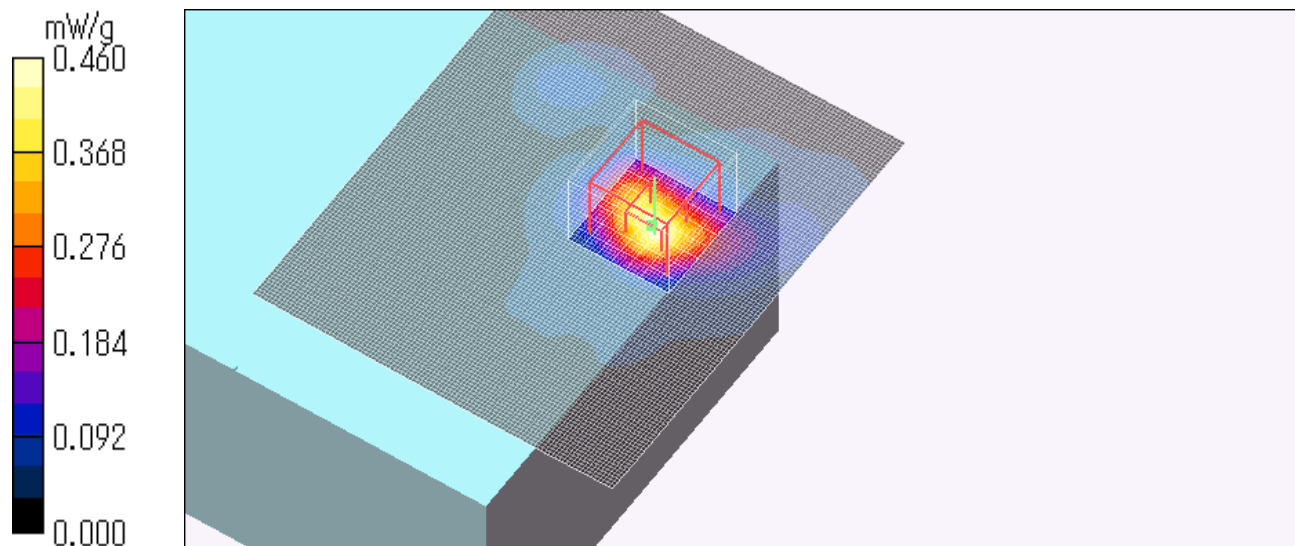
SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.090 mW/g

Maximum value of SAR (measured) = 0.460 mW/g

Test Date = 04/09/09

Ambient Temperature = 24.0 degree.c

Liquid Temperature = Before 23.0 degree.C , After 23.2 degree.C



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CH9-1161 / BODY / Front / 11a 16QAM 24Mbps / 5785MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 6.25 \text{ mho/m}$; $\epsilon_r = 45.8$; $\rho = 1000 \text{ kg/m}^3$

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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.473 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 4.87 V/m ; Power Drift = -0.134 dB

Peak SAR (extrapolated) = 0.877 W/kg

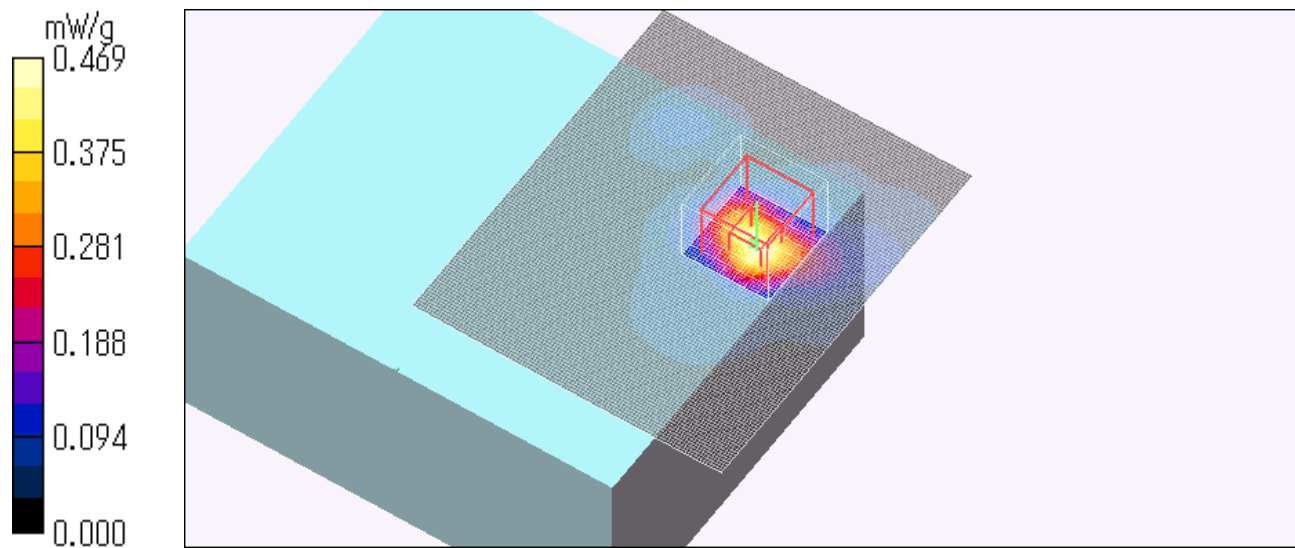
SAR(1 g) = 0.245 mW/g ; SAR(10 g) = 0.092 mW/g

Maximum value of SAR (measured) = 0.469 mW/g

Test Date = 04/09/09

Ambient Temperature = 24.5 degree.C

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



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CH9-1161 / BODY / Front / 11a 64QAM 48Mbps / 5785MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 6.25 \text{ mho/m}$; $\epsilon_r = 45.8$; $\rho = 1000 \text{ kg/m}^3$

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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 3.33 V/m ; Power Drift = 0.201 dB

Peak SAR (extrapolated) = 0.453 W/kg

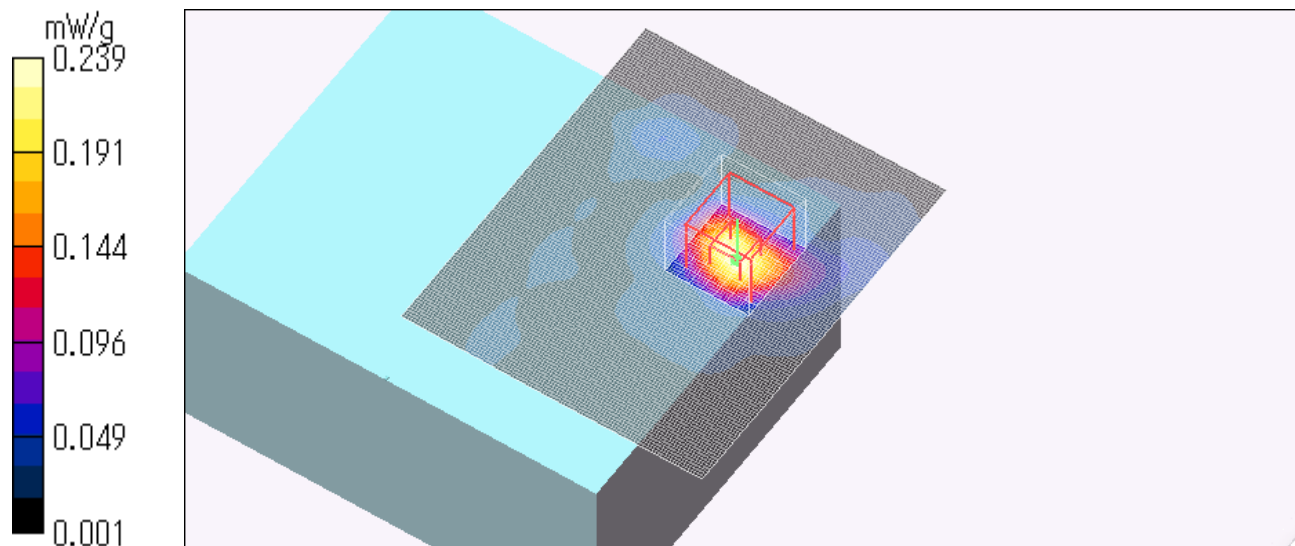
SAR(1 g) = 0.129 mW/g ; SAR(10 g) = 0.050 mW/g

Maximum value of SAR (measured) = 0.239 mW/g

Test Date = 04/09/09

Ambient Temperature = 24.5 degree.C

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



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CH9-1161 / BODY / Side / 11a 16QAM 24Mbps / 5785MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5800$ MHz; $\sigma = 6.25$ mho/m; $\epsilon_r = 45.8$; $\rho = 1000$ kg/m³

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) = 0.214 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 4.13 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 0.434 W/kg

SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.046 mW/g

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

Zoom Scan (8x8x10)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 4.13 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 0.355 W/kg

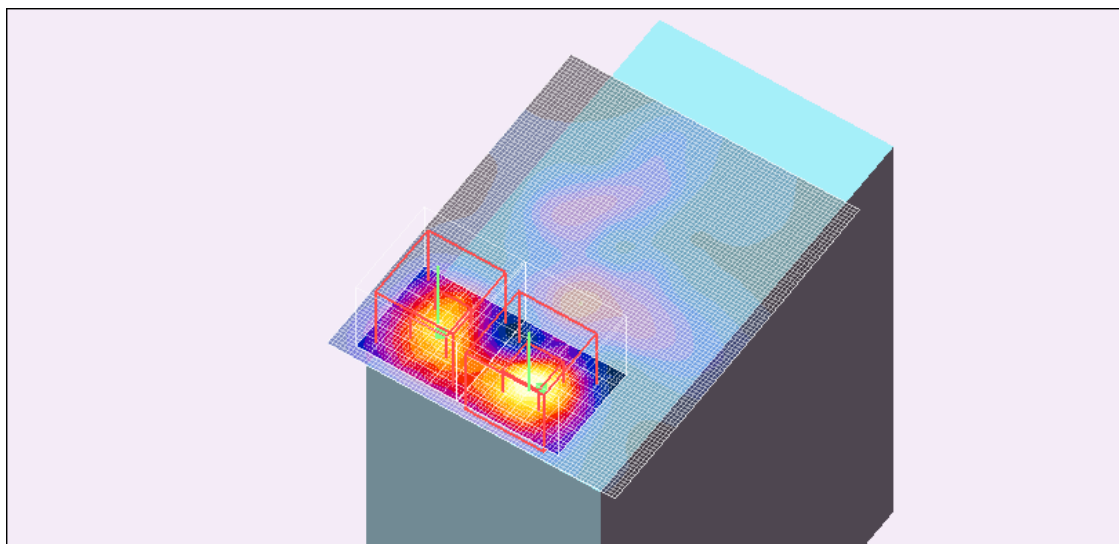
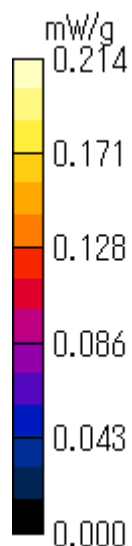
SAR(1 g) = 0.094 mW/g; SAR(10 g) = 0.038 mW/g

Maximum value of SAR (measured) = 0.177 mW/g

Test Date = 04/09/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.2 degree.C , After 23.1 degree.C



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CH9-1161 / BODY / Rear / 11a 16QAM 24Mbps / 5785MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 6.25 \text{ mho/m}$; $\epsilon_r = 45.8$; $\rho = 1000 \text{ kg/m}^3$

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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 1.70 V/m ; Power Drift = 0.188 dB

Peak SAR (extrapolated) = 0.305 W/kg

SAR(1 g) = 0.038 mW/g ; SAR(10 g) = 0.017 mW/g

Maximum value of SAR (measured) = 0.072 mW/g

Zoom Scan (8x8x10)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 1.70 V/m ; Power Drift = 0.188 dB

Peak SAR (extrapolated) = 0.149 W/kg

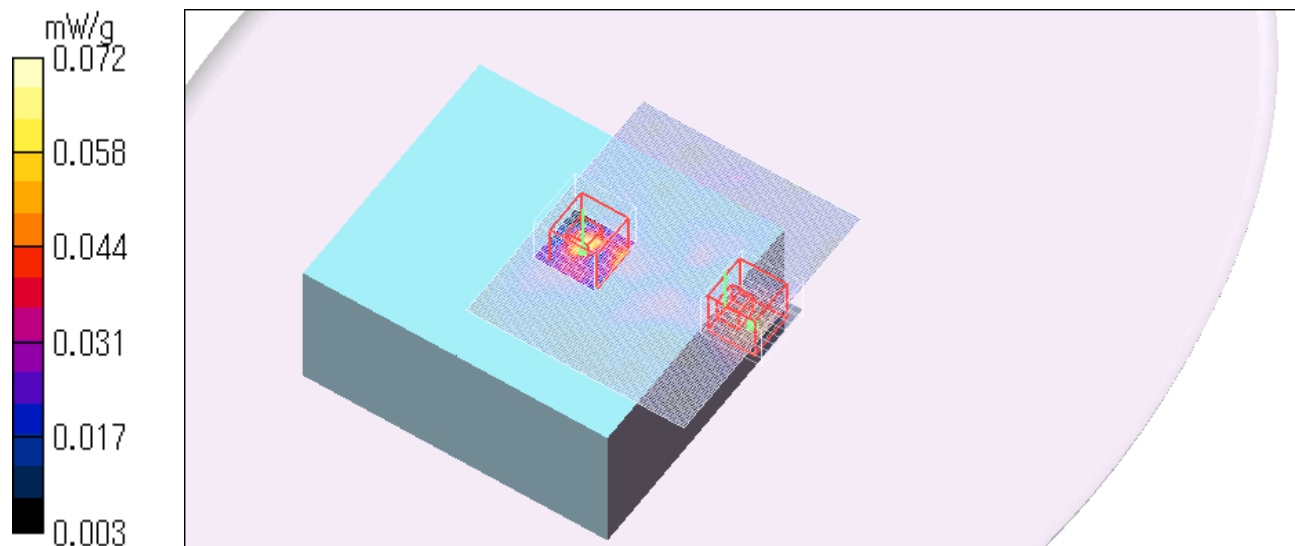
SAR(1 g) = 0.025 mW/g ; SAR(10 g) = 0.014 mW/g

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

Test Date = 04/09/09

Ambient Temperature = 24.5 degree.c

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



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CH9-1161 / BODY / Bottom / 11a 16QAM 24Mbps / 5785MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 6.25 \text{ mho/m}$; $\epsilon_r = 45.8$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=10\text{mm}$, $dy=10\text{mm}$

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

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 2.49 V/m ; Power Drift = 0.130 dB

Peak SAR (extrapolated) = 0.583 W/kg

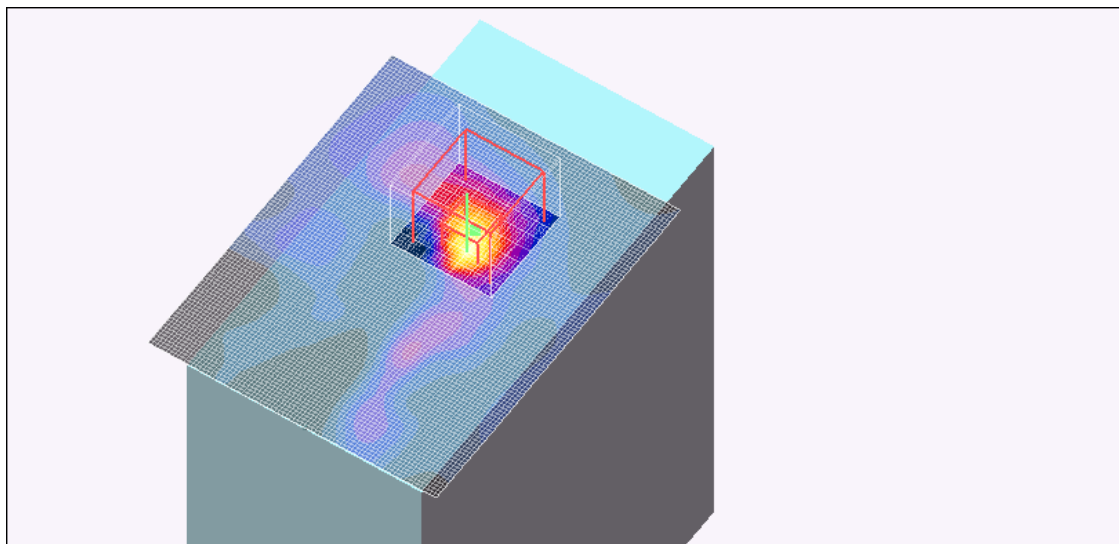
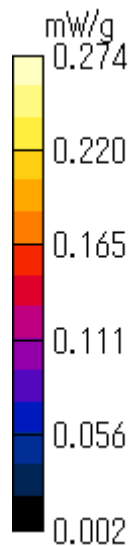
SAR(1 g) = 0.138 mW/g ; SAR(10 g) = 0.051 mW/g

Maximum value of SAR (measured) = 0.274 mW/g

Test Date = 04/09/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.1 degree.C , After 22.9 degree.C



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CH9-1161 / BODY / Front / 11a 16QAM 24Mbps / 5745MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 6.25 \text{ mho/m}$; $\epsilon_r = 45.8$; $\rho = 1000 \text{ kg/m}^3$

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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.432 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 7.33 V/m ; Power Drift = -0.109 dB

Peak SAR (extrapolated) = 0.647 W/kg

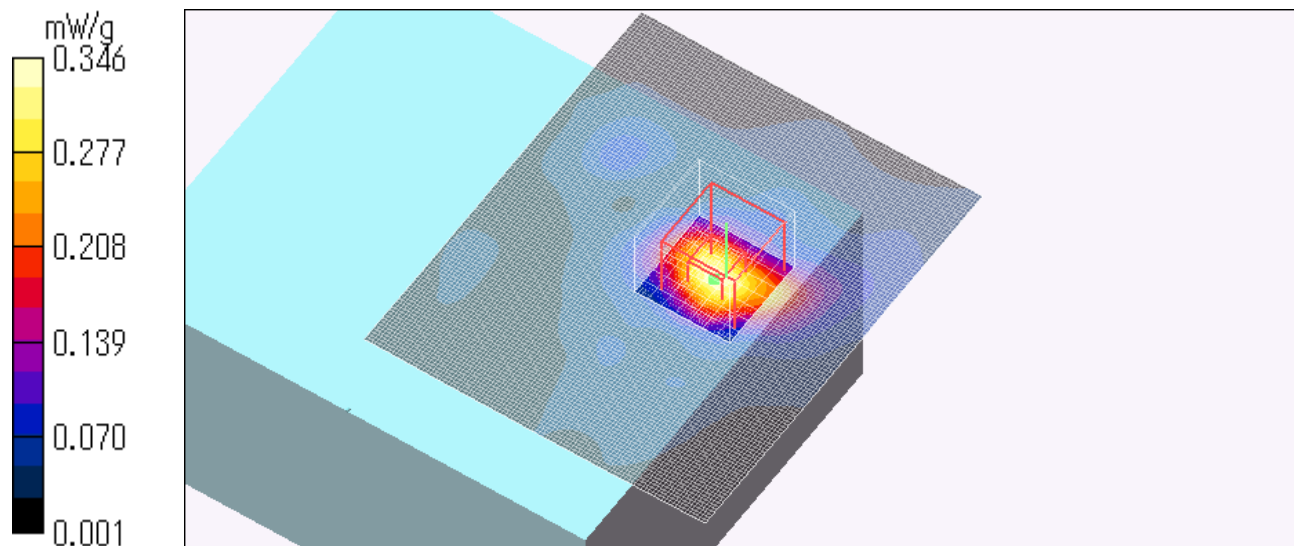
SAR(1 g) = 0.187 mW/g ; SAR(10 g) = 0.072 mW/g

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

Test Date = 04/09/09

Ambient Temperature = 24.5 degree.C

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



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CH9-1161 / BODY / Front / 11a 16QAM 24Mbps / 5825MHz

Crest factor: 1

Medium: M5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 6.25 \text{ mho/m}$; $\epsilon_r = 45.8$; $\rho = 1000 \text{ kg/m}^3$

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 (101x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.360 mW/g

Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 6.49 V/m ; Power Drift = -0.177 dB

Peak SAR (extrapolated) = 0.697 W/kg

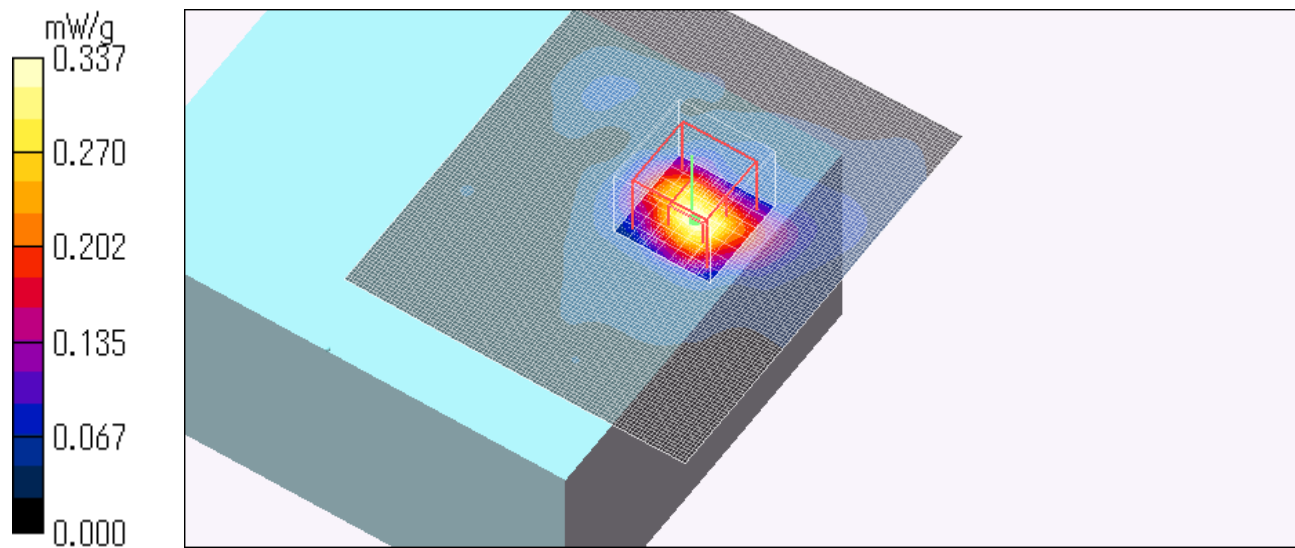
SAR(1 g) = 0.182 mW/g ; SAR(10 g) = 0.068 mW/g

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

Test Date = 04/09/09

Ambient Temperature = 24.5 degree.C

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



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8. Reference Measurement data (Head SAR 2450MHz)

CH9-1161 / HEAD / Side / 11b DQPSK 2Mbps / 2437MHz

Crest factor: 1

Medium: HSL2450 Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.87 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.94, 7.94, 7.94); 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 (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

Reference Value = 11.6 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 0.337 W/kg

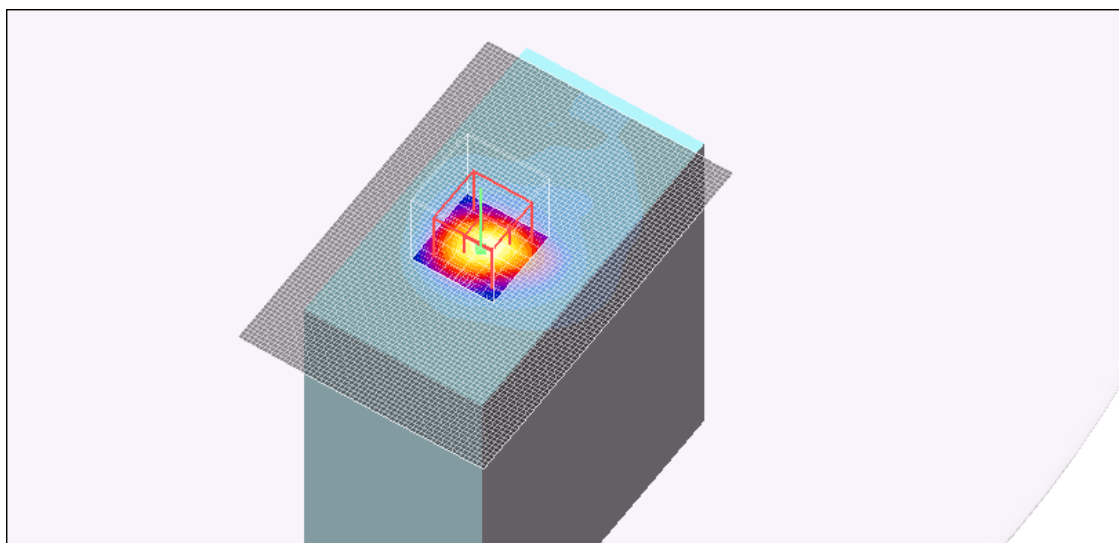
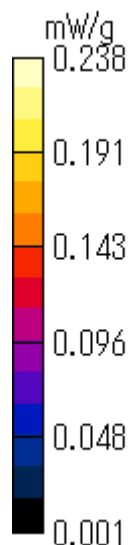
SAR(1 g) = 0.161 mW/g; SAR(10 g) = 0.077 mW/g

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

Test Date = 04/13/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5 degree.C , After 23.5 degree.C



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CH9-1161 / HEAD / Front / 11b DQPSK 2Mbps / 2437MHz

Crest factor: 1

Medium: HSL2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.94, 7.94, 7.94); 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 (81x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.179 mW/g

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

Reference Value = 9.18 V/m; Power Drift = -0.198 dB

Peak SAR (extrapolated) = 0.202 W/kg

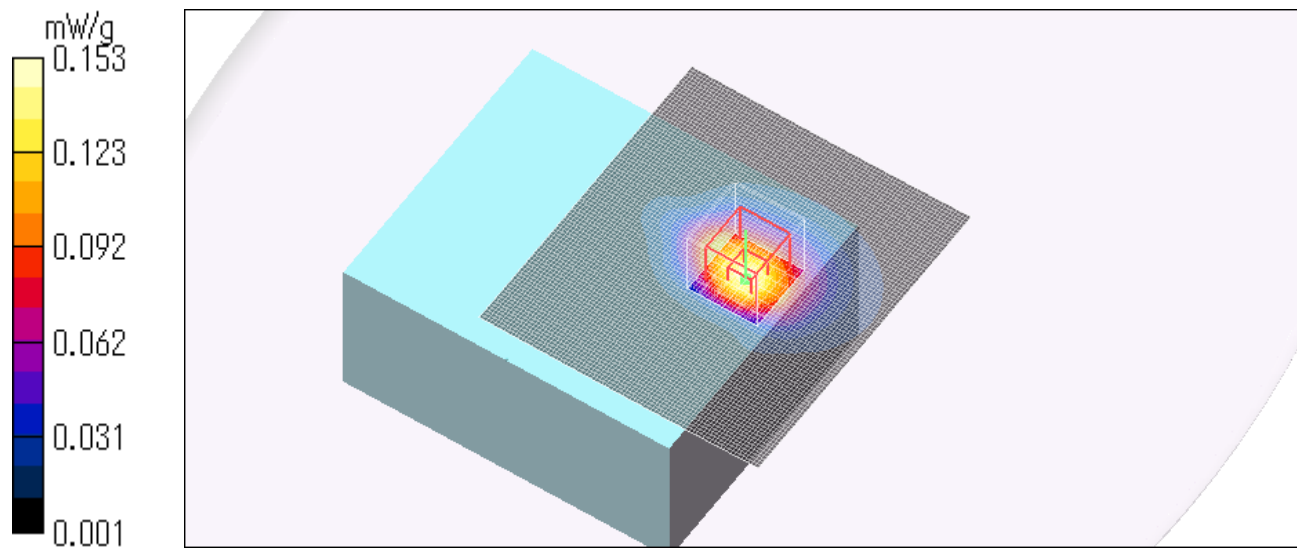
SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.056 mW/g

Maximum value of SAR (measured) = 0.153 mW/g

Test Date = 04/13/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5 degree.C , After 23.5 degree.C



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CH9-1161 / HEAD / Rear / 11b DQPSK 2Mbps / 2437MHz

Crest factor:1

Medium: HSL2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.94, 7.94, 7.94); 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 (81x91x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 2.30 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 0.021 W/kg

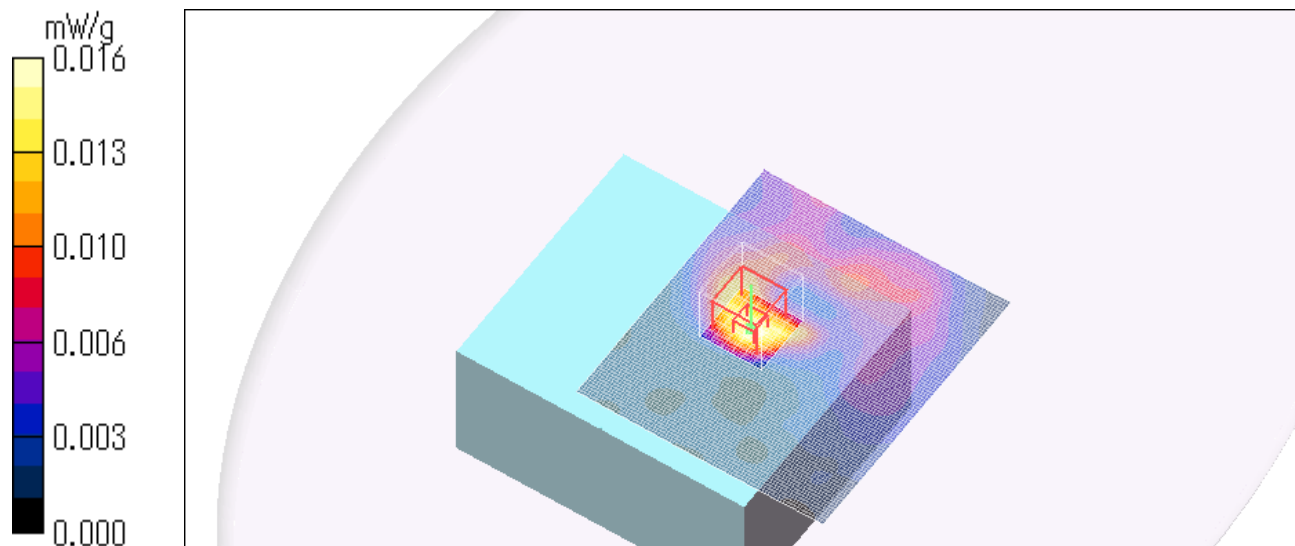
SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.00598 mW/g

Maximum value of SAR (measured) = 0.016 mW/g

Test Date = 04/13/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5 degree.C , After 23.5 degree.C



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CH9-1161 / HEAD / Bottom / 11b DQPSK 2Mbps / 2437MHz

Crest factor: 1

Medium: HSL2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.94, 7.94, 7.94); 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.054 mW/g

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

Reference Value = 2.56 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.064 W/kg

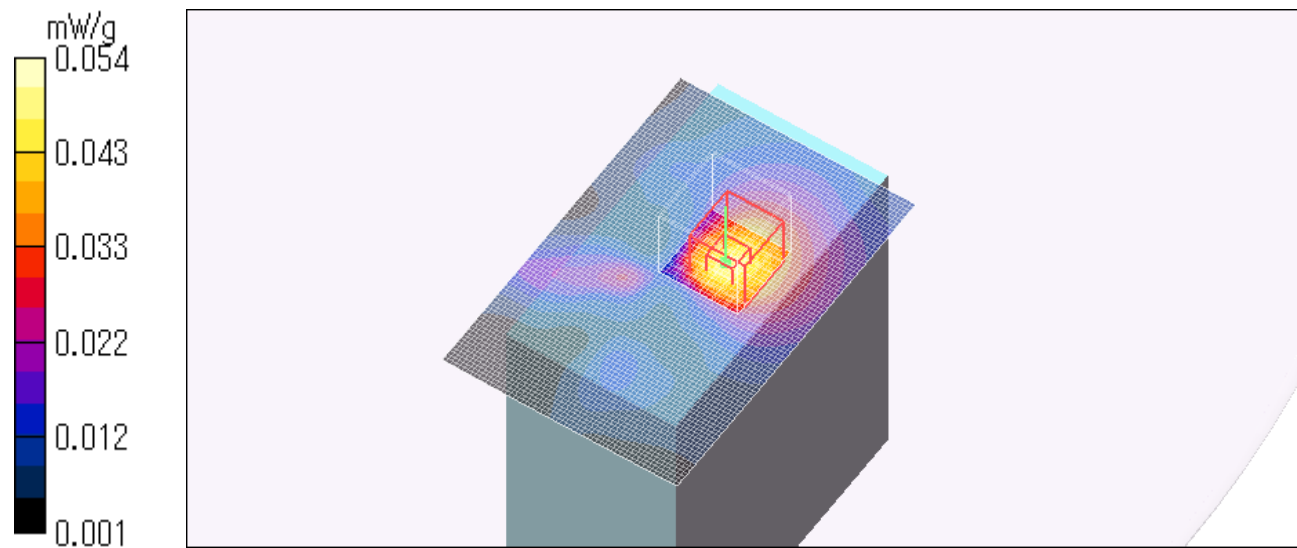
SAR(1 g) = 0.036 mW/g; SAR(10 g) = 0.020 mW/g

Maximum value of SAR (measured) = 0.049 mW/g

Test Date = 04/13/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5 degree.C , After 23.5 degree.C



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CH9-1161 / HEAD / Side / 11b DQPSK 2Mbps / 2412MHz

Crest factor: 1

Medium: HSL2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.94, 7.94, 7.94); 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.484 mW/g

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

Reference Value = 15.3 V/m; Power Drift = -0.132 dB

Peak SAR (extrapolated) = 0.663 W/kg

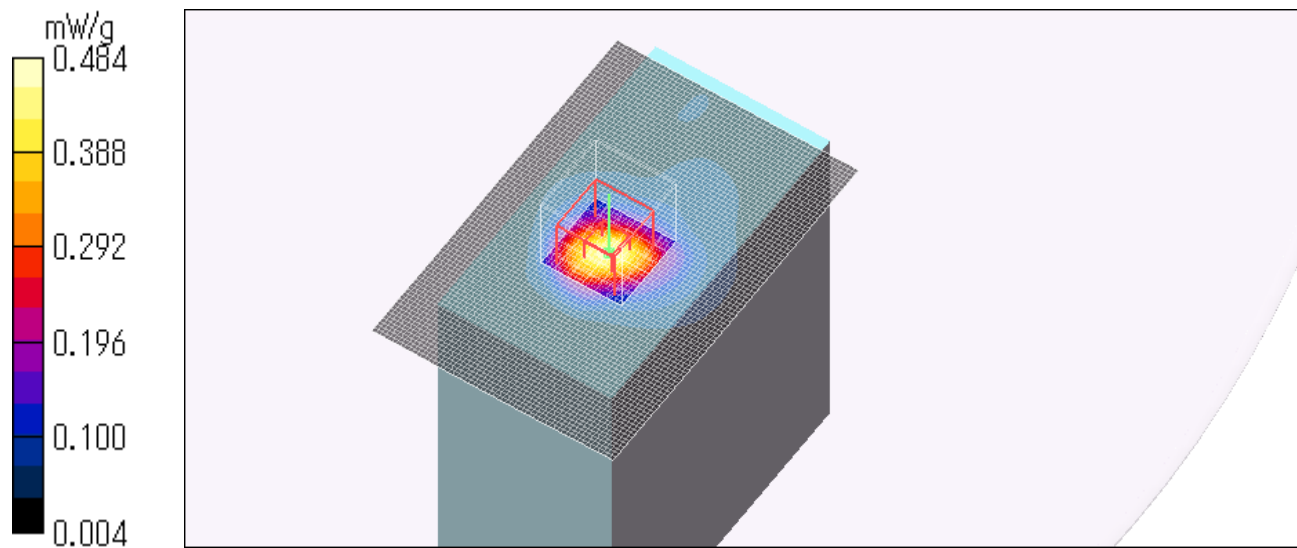
SAR(1 g) = 0.320 mW/g; SAR(10 g) = 0.154 mW/g

Maximum value of SAR (measured) = 0.484 mW/g

Test Date = 04/13/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5 degree.C , After 23.5 degree.C



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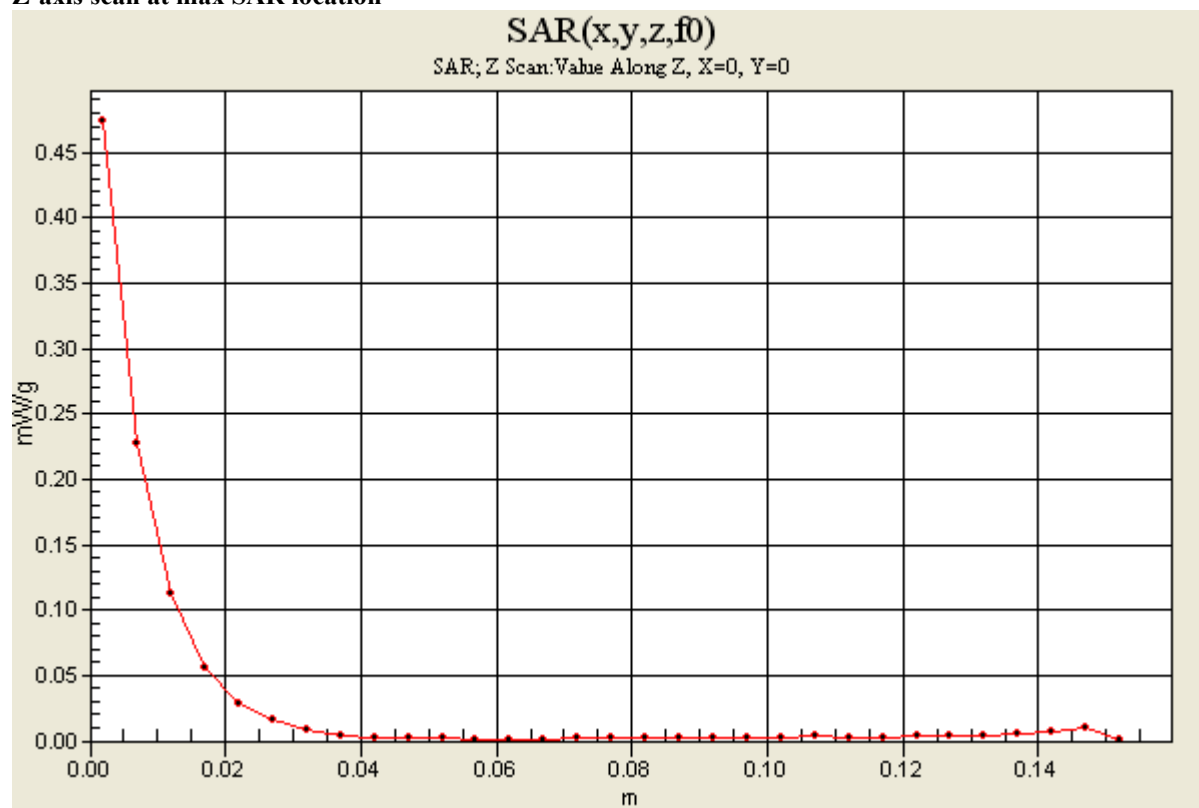
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Z-axis scan at max SAR location



CH9-1161 / HEAD / Side / 11b DQPSK 2Mbps / 2462MHz

Crest factor:1

Medium: HSL2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.94, 7.94, 7.94); 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 10.8 V/m; Power Drift = -0.196 dB

Peak SAR (extrapolated) = 0.364 W/kg

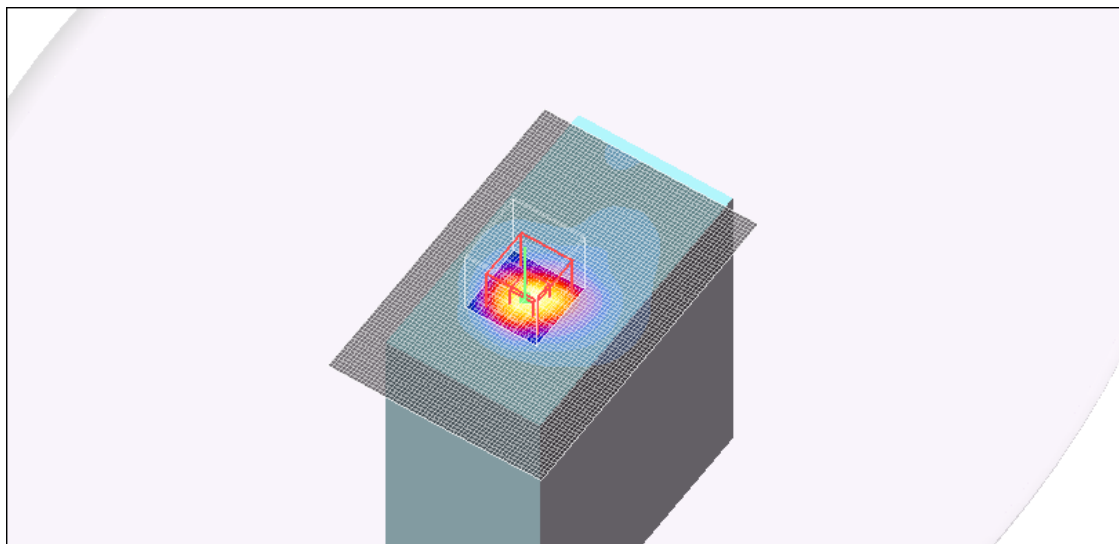
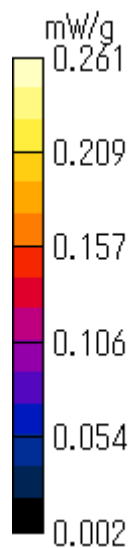
SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.083 mW/g

Maximum value of SAR (measured) = 0.261 mW/g

Test Date = 04/13/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5 degree.C , After 23.7 degree.C



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CH9-1161 / HEAD / Side 5mm / 11b DQPSK 2Mbps / 2412MHz

Crest factor: 1

Medium: HSL2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.94, 7.94, 7.94); 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.300 mW/g

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

Reference Value = 8.19 V/m; Power Drift = -0.079 dB

Peak SAR (extrapolated) = 0.368 W/kg

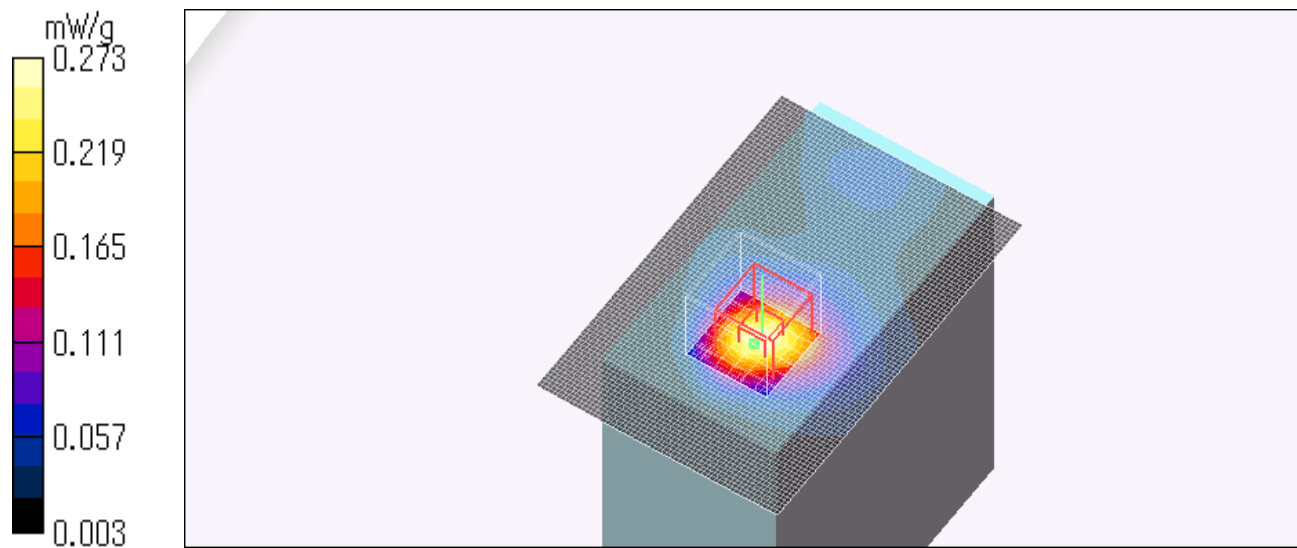
SAR(1 g) = 0.191 mW/g; SAR(10 g) = 0.100 mW/g

Maximum value of SAR (measured) = 0.273 mW/g

Test Date = 04/13/09

Ambient Temperature = 24.5 degree.c

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



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CH9-1161 / HEAD / Side 10mm / 11b DQPSK 2Mbps / 2412MHz

Crest factor: 1

Medium: HSL2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.94, 7.94, 7.94); 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 5.57 V/m; Power Drift = -0.198 dB

Peak SAR (extrapolated) = 0.159 W/kg

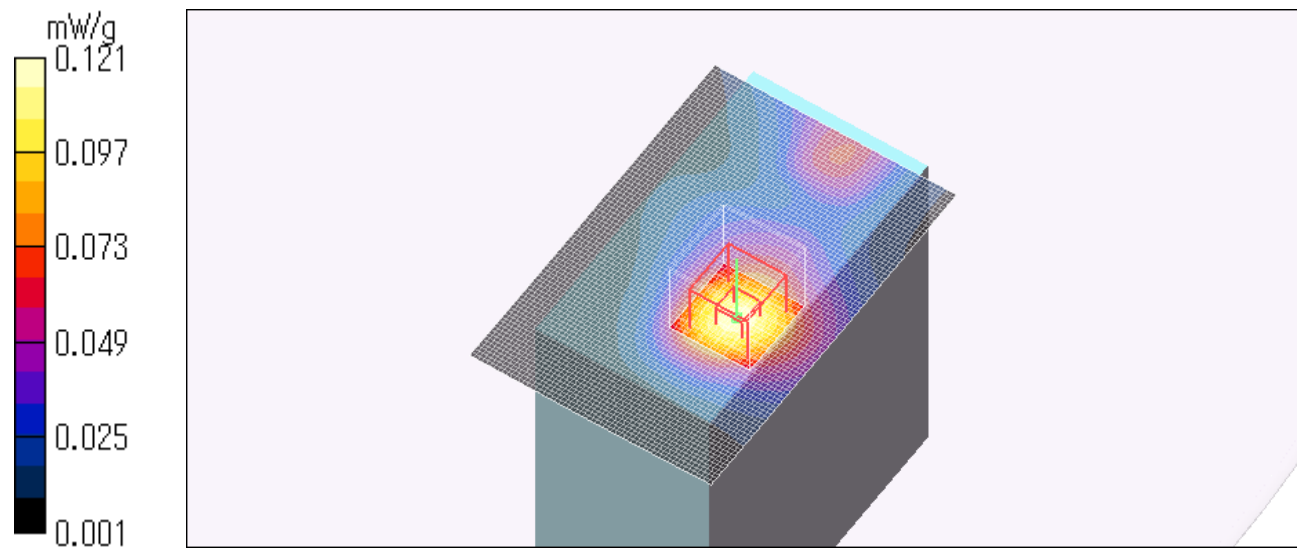
SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.047 mW/g

Maximum value of SAR (measured) = 0.121 mW/g

Test Date = 04/13/09

Ambient Temperature = 24.5 degree.c

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



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9. Measurement data (Body SAR 2450MHz)

CH9-1161 / BODY / Side / 11b DQPSK 2Mbps / 2437MHz

Crest factor: 1

Medium: M2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 10.3 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 0.318 W/kg

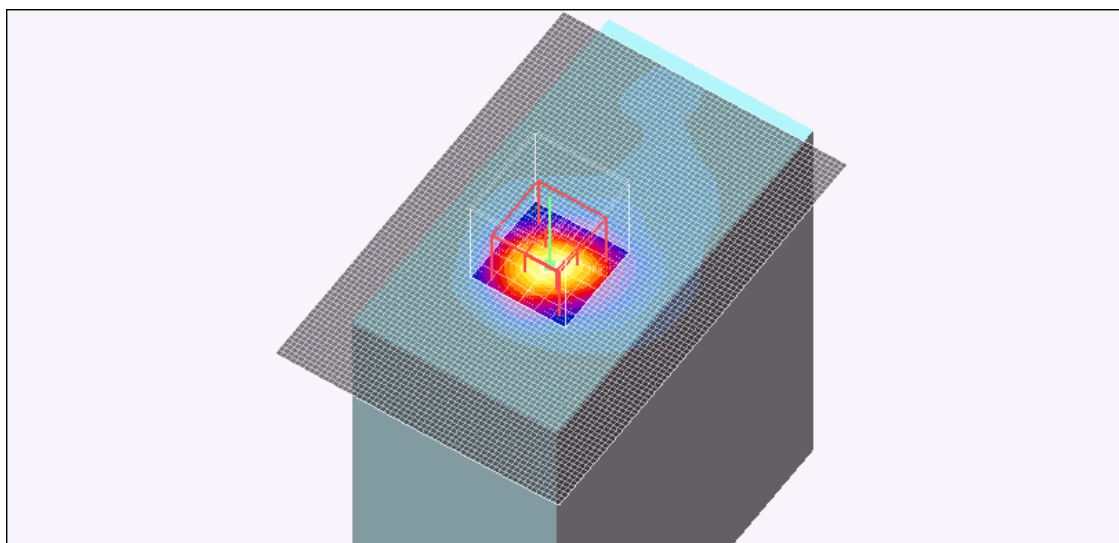
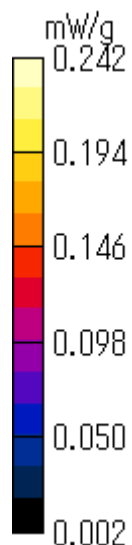
SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.081 mW/g

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

Test Date = 04/14/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5 degree.C , After 23.5 degree.C



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CH9-1161 / BODY / Front / 11b DQPSK 2Mbps / 2437MHz

Crest factor: 1

Medium: M2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); 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 (81x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.168 mW/g

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

Reference Value = 8.84 V/m; Power Drift = -0.188 dB

Peak SAR (extrapolated) = 0.178 W/kg

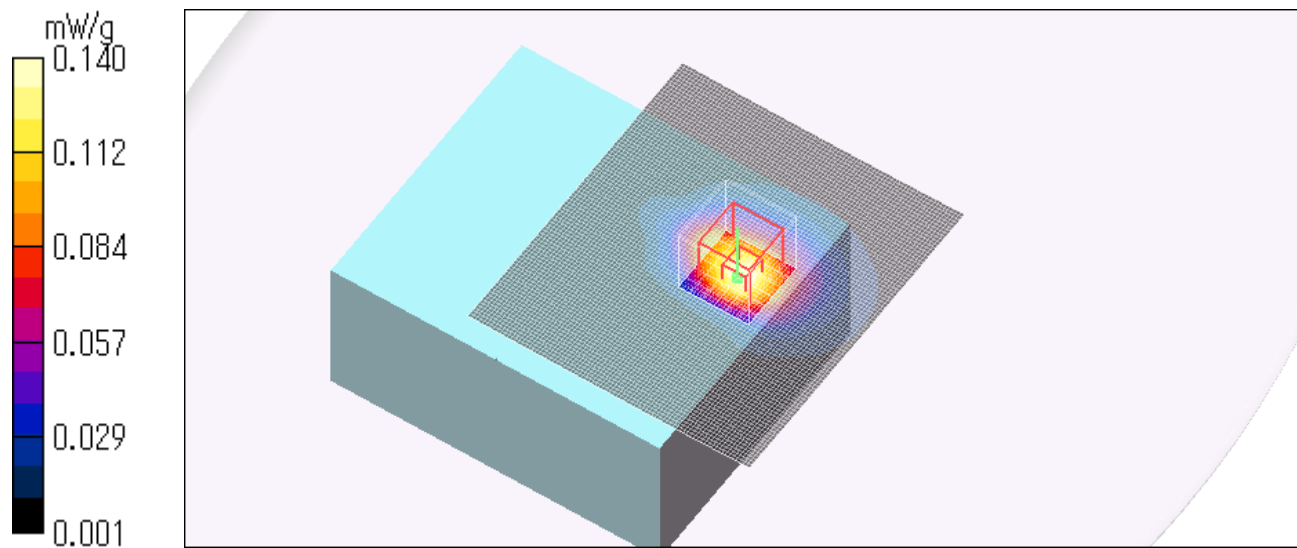
SAR(1 g) = 0.104 mW/g; SAR(10 g) = 0.057 mW/g

Maximum value of SAR (measured) = 0.140 mW/g

Test Date = 04/14/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5 degree.C , After 23.5 degree.C



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CH9-1161 / BODY / Rear / 11b DQPSK 2Mbps / 2437MHz

Crest factor: 1

Medium: M2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); 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 (81x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.018 mW/g

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

Reference Value = 2.28 V/m; Power Drift = -0.104 dB

Peak SAR (extrapolated) = 0.021 W/kg

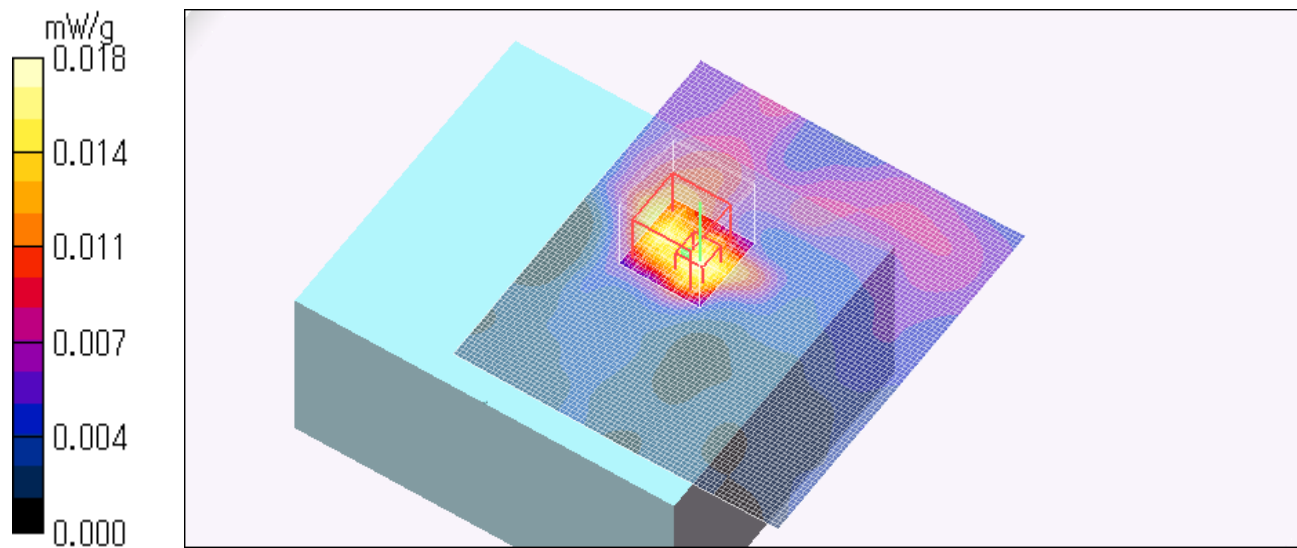
SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.00773 mW/g

Maximum value of SAR (measured) = 0.018 mW/g

Test Date = 04/14/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5 degree.C , After 23.5 degree.C



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CH9-1161 / BODY / Bottom / 11b DQPSK 2Mbps / 2437MHz

Crest factor: 1

Medium: M2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.041 mW/g

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

Reference Value = 3.13 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 0.057 W/kg

SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.020 mW/g

Maximum value of SAR (measured) = 0.044 mW/g

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

Reference Value = 3.13 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 0.042 W/kg

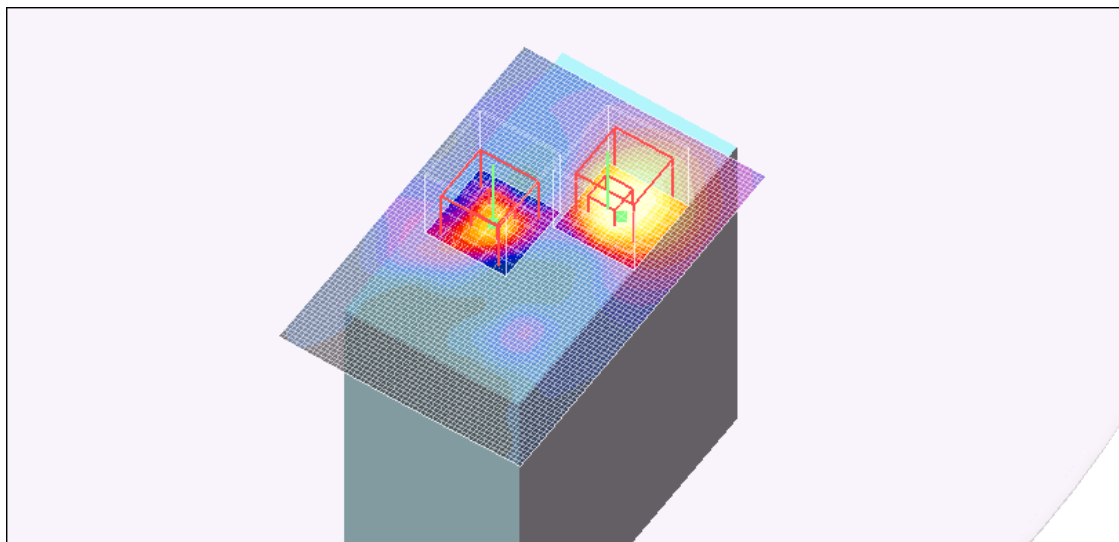
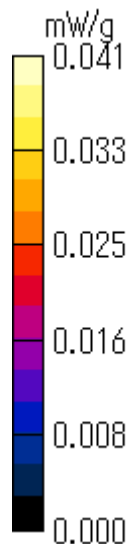
SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.013 mW/g

Maximum value of SAR (measured) = 0.034 mW/g

Test Date = 04/14/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5 degree.C , After 23.5 degree.C



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CH9-1161 / BODY / Side / 11b DQPSK 2Mbps / 2412MHz

Crest factor: 1

Medium: M2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.422 mW/g

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

Reference Value = 13.8 V/m; Power Drift = -0.202 dB

Peak SAR (extrapolated) = 0.576 W/kg

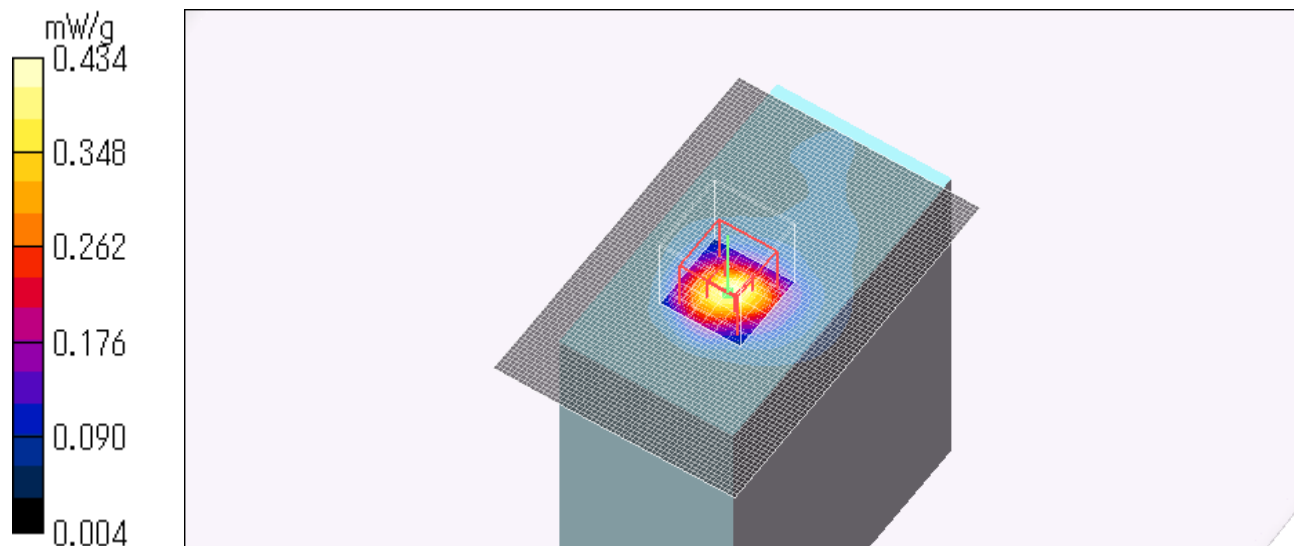
SAR(1 g) = 0.298 mW/g; SAR(10 g) = 0.148 mW/g

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

Test Date = 04/14/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.5 degree.C , After 23.7 degree.C



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CH9-1161 / BODY / Side / 11b DQPSK 2Mbps / 2462MHz

Crest factor: 1

Medium: M2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.184 mW/g

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

Reference Value = 8.60 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 0.252 W/kg

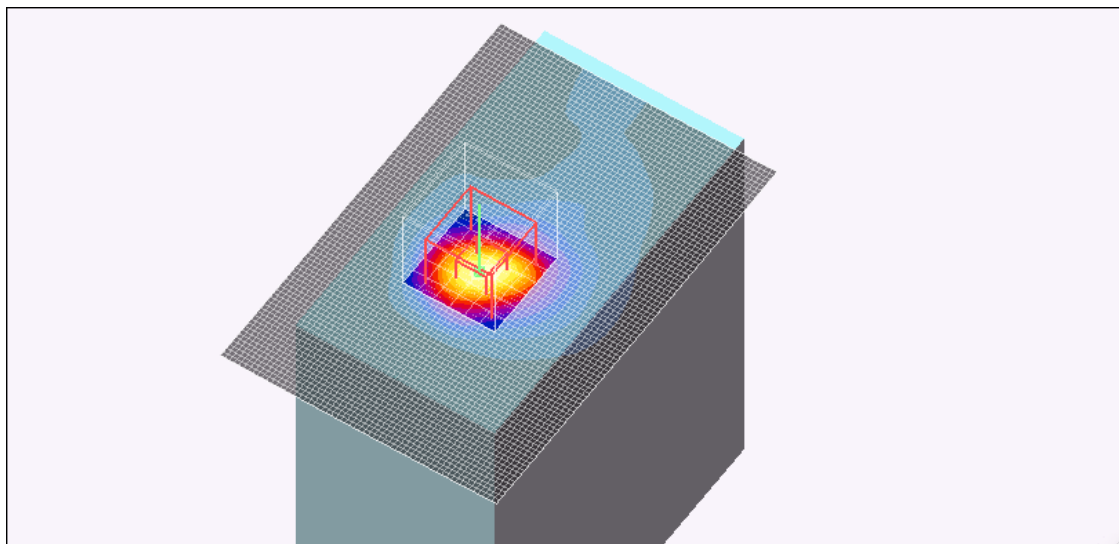
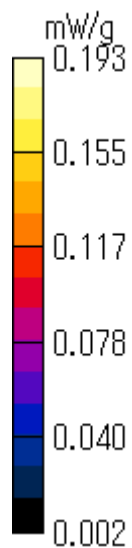
SAR(1 g) = 0.133 mW/g; SAR(10 g) = 0.067 mW/g

Maximum value of SAR (measured) = 0.193 mW/g

Test Date = 04/14/09

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.7 degree.C , After 23.9 degree.C



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