

## **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 (WLAN 11b/g/n(2.4G)), 10mm x 10mm (11a/n(5G)). Based on these data, the area of the maximum absorption was determined by spline interpolation.

**Step 3:** Around this point found in the Step 2 (area scan), a volume of 30mm x 30mm x 30mm was assessed by measuring 7 x 7 x 7 points (WLAN 11b/g/n(2.4G)) and a volume of 28mm x 28mm x 22.5mm was assessed by measuring 8x 8 x 10 points (11a/n(5G)). And for any secondary peaks found in the Step2 which are within 2dB of maximum peak and not with this Step3 (Zoom scan) is repeated. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

(1). The data at the surface were extrapolated, since the center of the dipoles is 1mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3mm.

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. Measurement data (5180-5320MHz SAR (11a))

### WT-5A / 11a 6Mbps 5240MHz / Camera Front

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5200 MHz;;Duty Cycle: 1:1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.26$  mho/m;  $\epsilon_r = 46.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(4.36, 4.36, 4.36);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (101x81x1):** Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 6.680 V/m; Power Drift = -0.13 dB

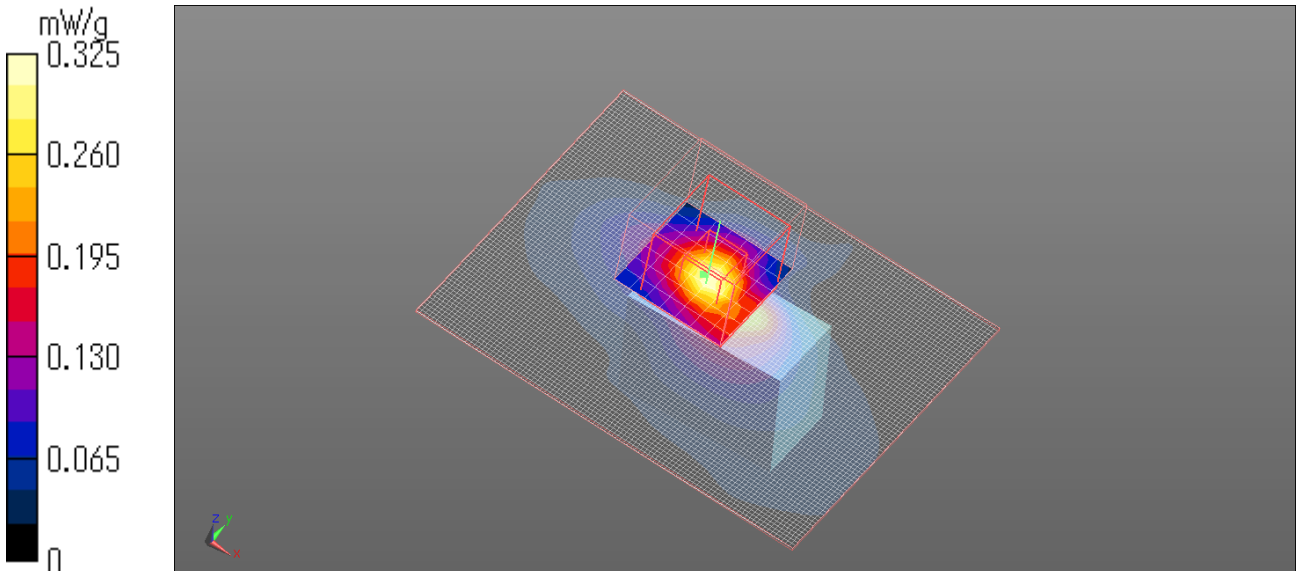
Peak SAR (extrapolated) = 0.643 W/kg

**SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.054 mW/g**

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

Date: 2011/07/05

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



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**WT-5A / 11a 6Mbps 5240MHz / Camera Rear**

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5200 MHz;;Duty Cycle: 1:1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.26$  mho/m;  $\epsilon_r = 46.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(4.36, 4.36, 4.36);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (101x81x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.309 mW/g

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

Reference Value = 3.423 V/m; Power Drift = 0.04 dB

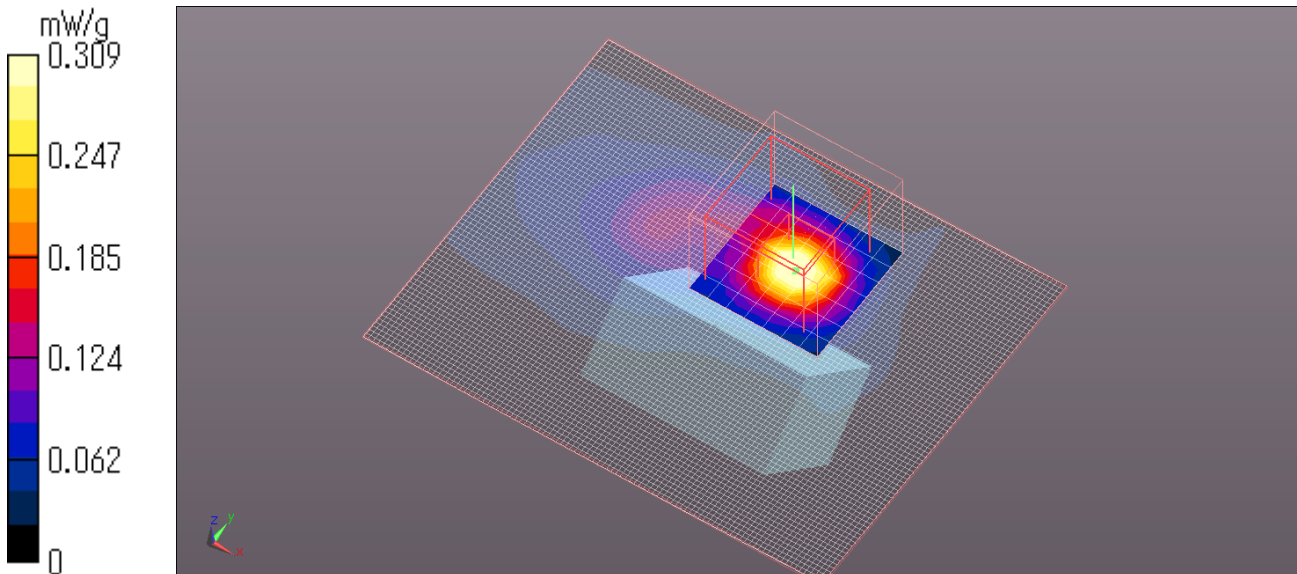
Peak SAR (extrapolated) = 0.688 W/kg

**SAR(1 g) = 0.170 mW/g; SAR(10 g) = 0.054 mW/g**

Maximum value of SAR (measured) = 0.354 mW/g

Date: 2011/07/05

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



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**WT-5A / 11a 6Mbps 5240MHz / Camera Side**

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5200 MHz;;Duty Cycle: 1:1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.26$  mho/m;  $\epsilon_r = 46.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(4.36, 4.36, 4.36);

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Fix Surface)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (61x81x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.981 mW/g

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

Reference Value = 12.435 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 2.396 W/kg

**SAR(1 g) = 0.517 mW/g; SAR(10 g) = 0.141 mW/g**

Maximum value of SAR (measured) = 1.076 mW/g

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

Reference Value = 12.435 V/m; Power Drift = -0.19 dB

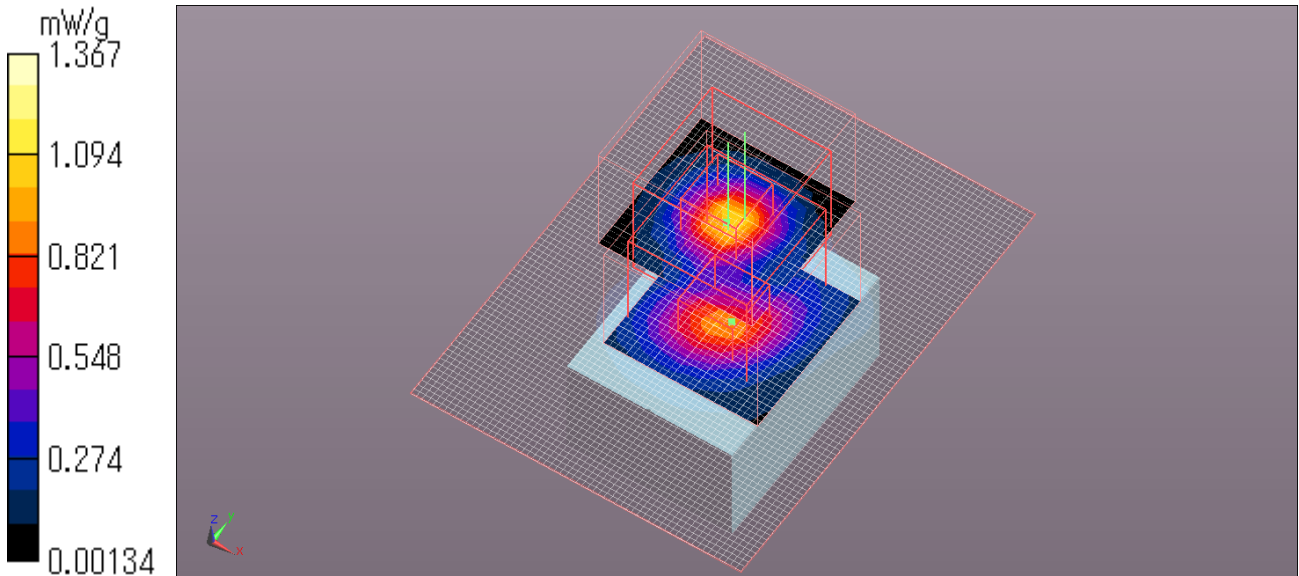
Peak SAR (extrapolated) = 3.682 W/kg

**SAR(1 g) = 0.475 mW/g; SAR(10 g) = 0.164 mW/g**

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

Date: 2011/07/05

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



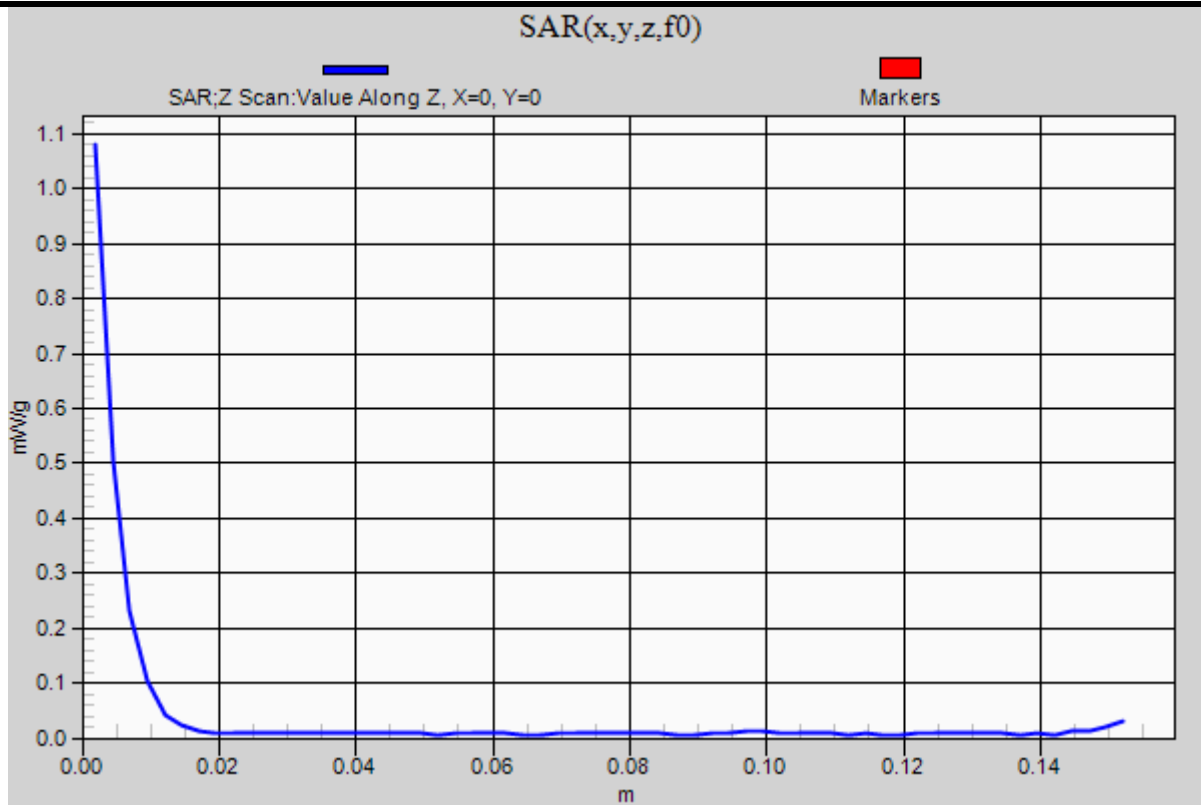
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**WT-5A / 11a 6Mbps 5240MHz / Camera Top**

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5200 MHz;;Duty Cycle: 1:1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.26$  mho/m;  $\epsilon_r = 46.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(4.36, 4.36, 4.36);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

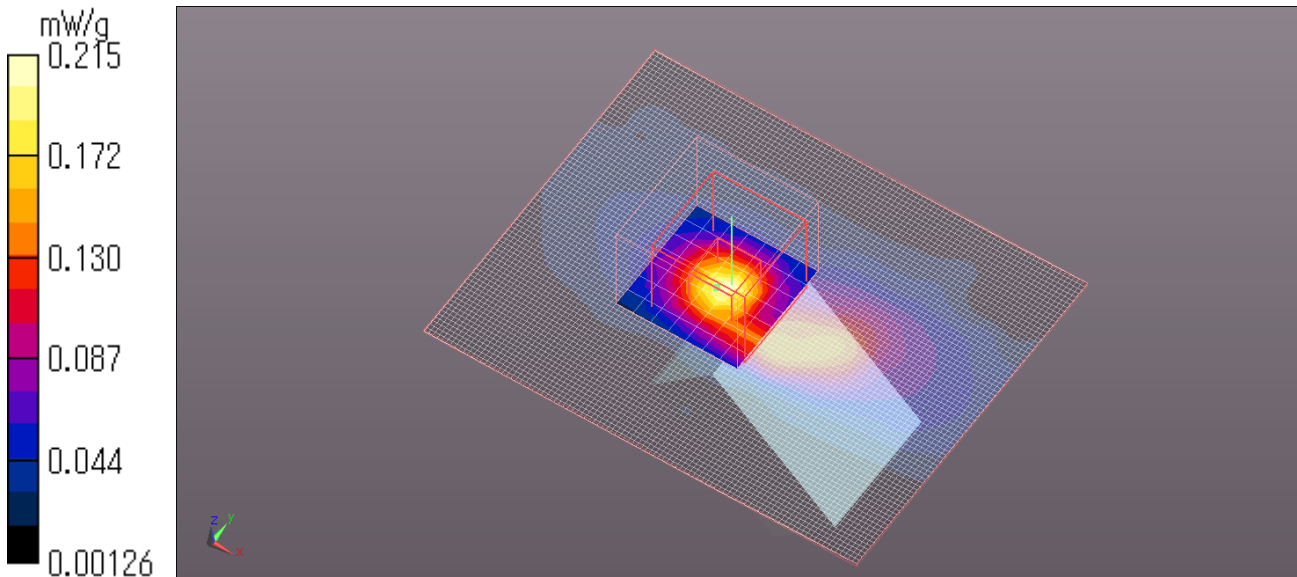
**/Area Scan (101x81x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.200 mW/g

**/Zoom Scan (8x8x10)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm  
Reference Value = 5.468 V/m; Power Drift = -0.14 dB  
Peak SAR (extrapolated) = 0.445 W/kg

**SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.035 mW/g**  
Maximum value of SAR (measured) = 0.215 mW/g

Date: 2011/07/05

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



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**WT-5A / 11a 6Mbps 5240MHz / Camera bottom**

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5200 MHz;;Duty Cycle: 1:1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.26$  mho/m;  $\epsilon_r = 46.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(4.36, 4.36, 4.36);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (101x101x1):** Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 5.896 V/m; Power Drift = -0.20 dB

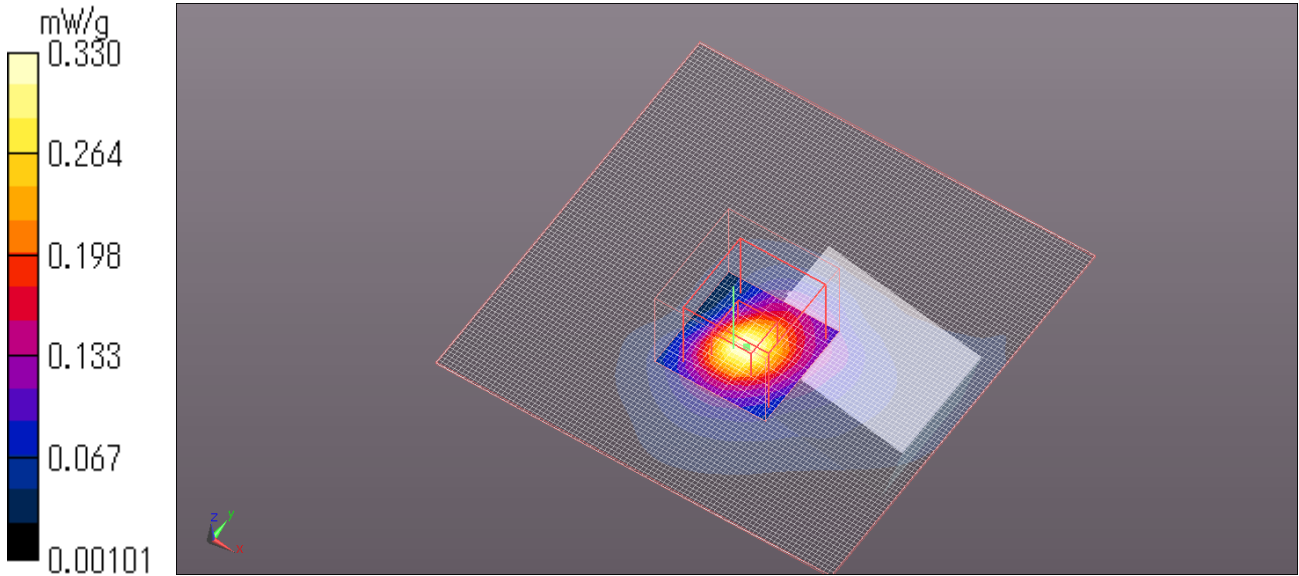
Peak SAR (extrapolated) = 0.662 W/kg

**SAR(1 g) = 0.171 mW/g; SAR(10 g) = 0.057 mW/g**

Maximum value of SAR (measured) = 0.330 mW/g

Date: 2011/07/05

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



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**WT-5A / 11a 6Mbps 5180MHz / Camera Side**

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5200 MHz;;Duty Cycle: 1:1

Medium parameters used:  $f = 5200 \text{ MHz}$ ;  $\sigma = 5.26 \text{ mho/m}$ ;  $\epsilon_r = 46.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(4.36, 4.36, 4.36);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (61x81x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 1.045 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 = 9.130 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.127 W/kg

**SAR(1 g) = 0.442 mW/g; SAR(10 g) = 0.153 mW/g**

Maximum value of SAR (measured) = 0.984 mW/g

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

Reference Value = 9.130 V/m; Power Drift = 0.10 dB

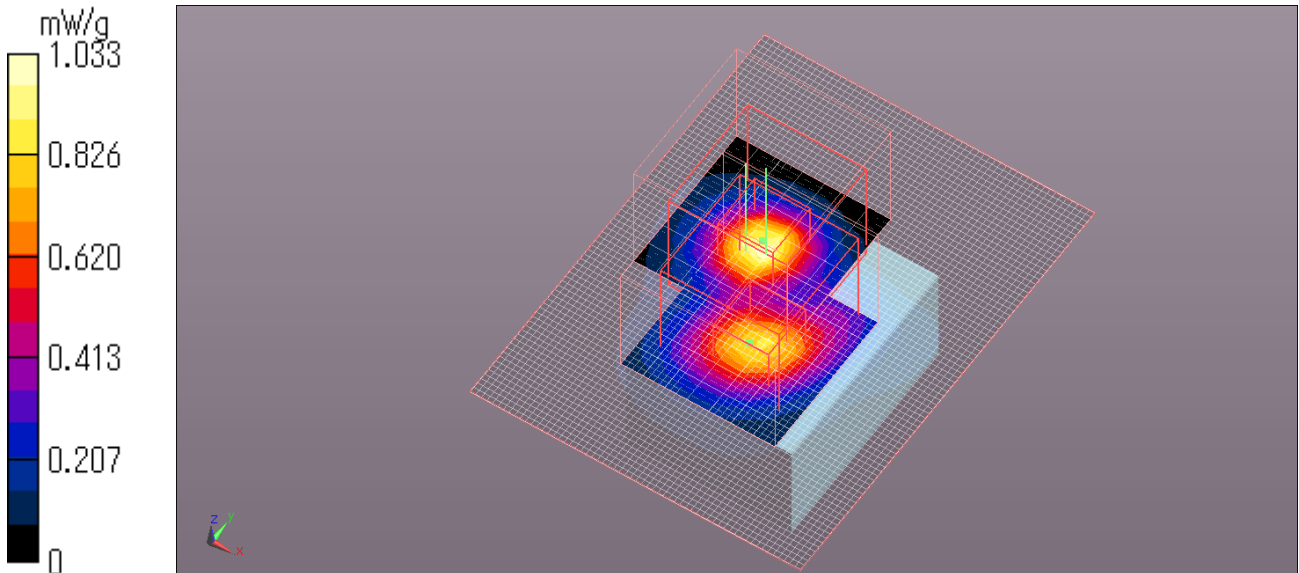
Peak SAR (extrapolated) = 2.125 W/kg

**SAR(1 g) = 0.475 mW/g; SAR(10 g) = 0.136 mW/g**

Maximum value of SAR (measured) = 1.033 mW/g

Date: 2011/07/05

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



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**WT-5A / 11a 6Mbps 5280MHz / Camera Side**

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5300 MHz;;Duty Cycle: 1:1

Medium parameters used:  $f = 5300 \text{ MHz}$ ;  $\sigma = 5.4 \text{ mho/m}$ ;  $\epsilon_r = 46.5$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(4.17, 4.17, 4.17);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (61x81x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.978 mW/g

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

Reference Value = 13.753 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 2.173 W/kg

**SAR(1 g) = 0.487 mW/g; SAR(10 g) = 0.120 mW/g**

Maximum value of SAR (measured) = 1.060 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 = 13.753 V/m; Power Drift = -0.15 dB

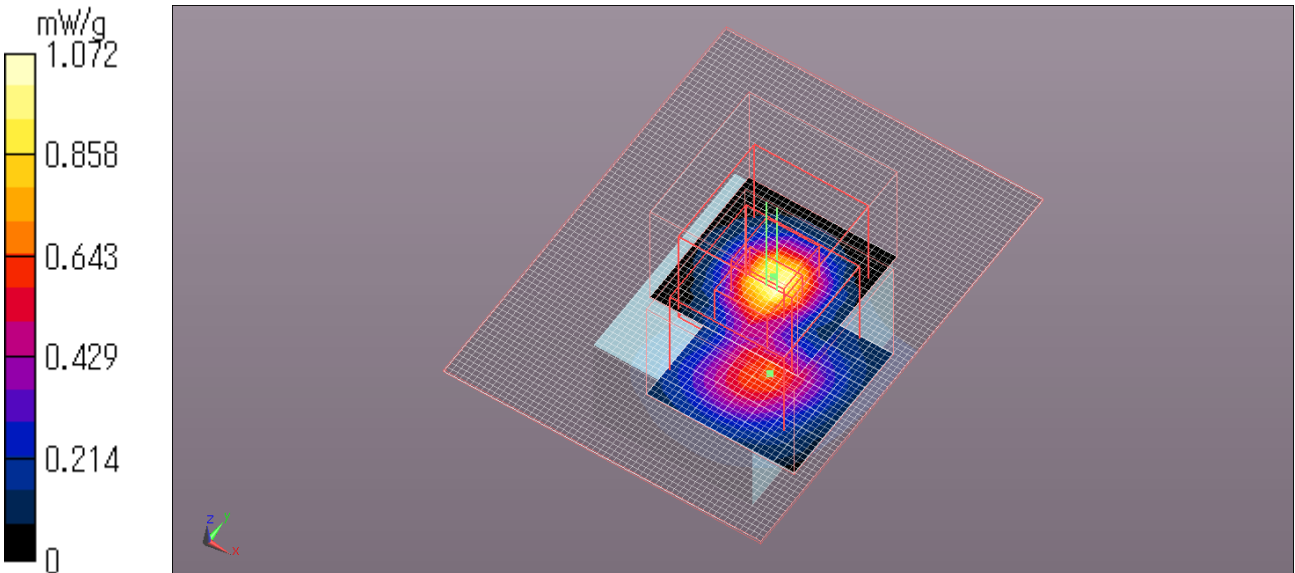
Peak SAR (extrapolated) = 2.178 W/kg

**SAR(1 g) = 0.358 mW/g; SAR(10 g) = 0.120 mW/g**

Maximum value of SAR (measured) = 1.072 mW/g

Date: 2011/07/06

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



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**WT-5A / 11a 6Mbps 5320MHz / Camera Side**

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5300 MHz;;Duty Cycle: 1:1

Medium parameters used:  $f = 5300$  MHz;  $\sigma = 5.4$  mho/m;  $\epsilon_r = 46.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(4.17, 4.17, 4.17);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (61x81x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.982 mW/g

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

Reference Value = 12.742 V/m; Power Drift = -0.13 dB

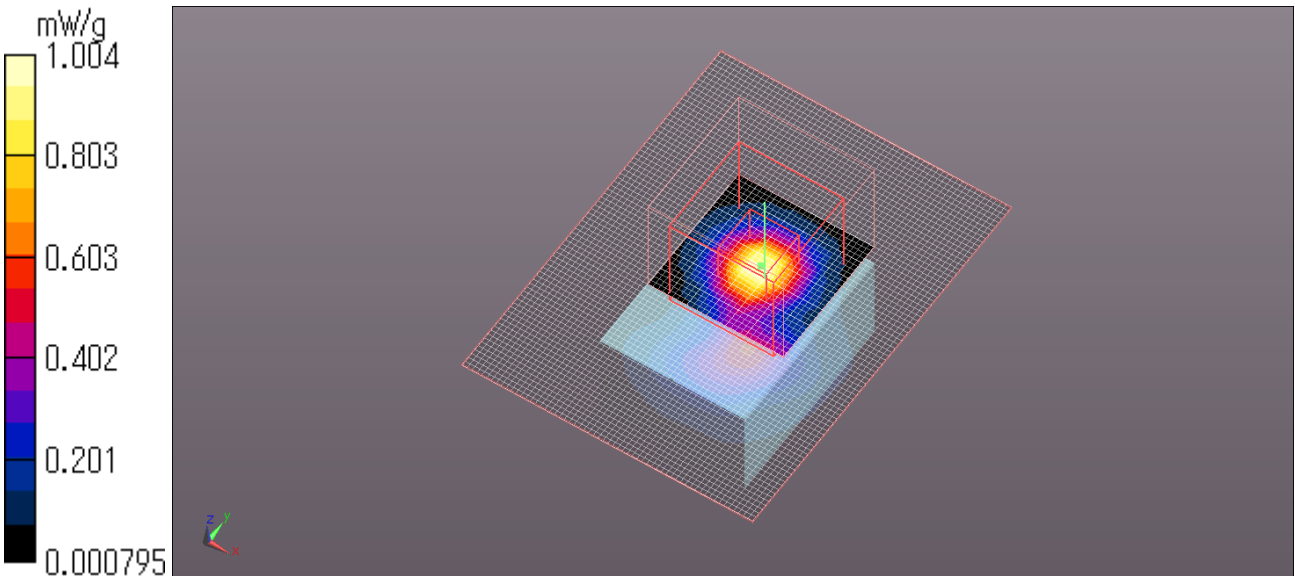
Peak SAR (extrapolated) = 2.222 W/kg

**SAR(1 g) = 0.488 mW/g; SAR(10 g) = 0.124 mW/g**

Maximum value of SAR (measured) = 1.000 mW/g

Date: 2011/07/05

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



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**WT-5A / 11a 6Mbps 5240MHz / Camera Side 5mm**

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5200 MHz;;Duty Cycle: 1:1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.26$  mho/m;  $\epsilon_r = 46.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(4.36, 4.36, 4.36);

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Fix Surface)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (81x81x1):** Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 6.451 V/m; Power Drift = -0.16 dB

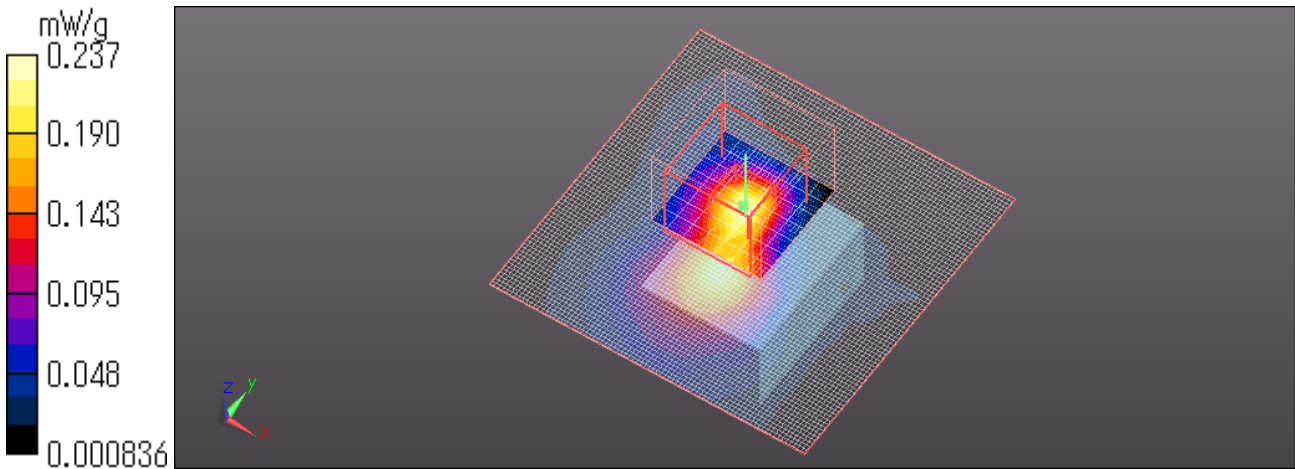
Peak SAR (extrapolated) = 0.407 W/kg

**SAR(1 g) = 0.116 mW/g; SAR(10 g) = 0.041 mW/g**

Maximum value of SAR (measured) = 0.237 mW/g

Date: 2011/07/05

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



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**WT-5A / 11a 6Mbps 5240MHz / Camera Side 10mm**

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5200 MHz;;Duty Cycle: 1:1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.26$  mho/m;  $\epsilon_r = 46.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(4.36, 4.36, 4.36);

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Fix Surface)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (81x81x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.100 mW/g

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

Reference Value = 4.044 V/m; Power Drift = 0.14 dB

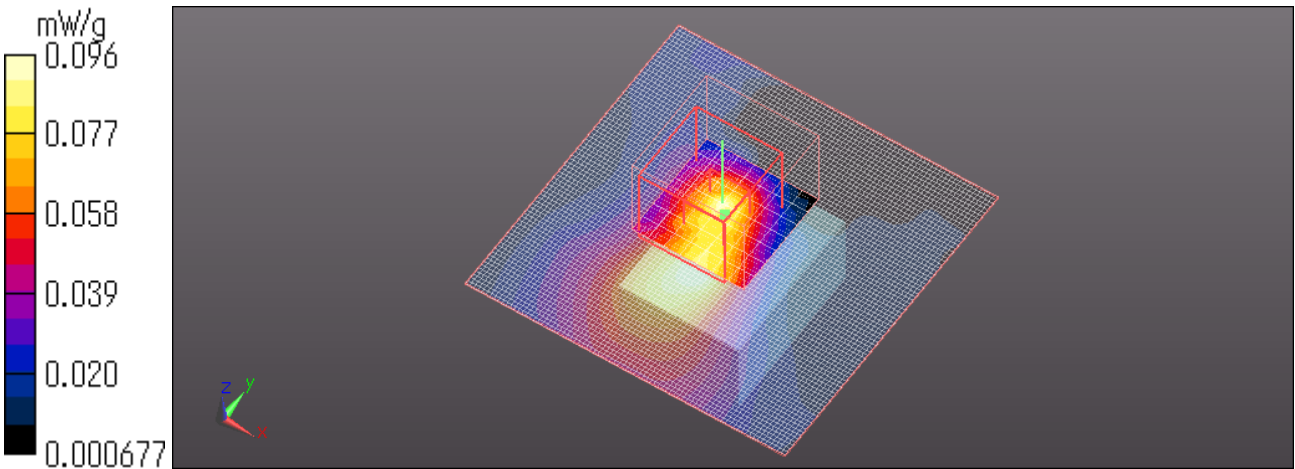
Peak SAR (extrapolated) = 0.172 W/kg

**SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.019 mW/g**

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

Date: 2011/07/05

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



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### 3. Measurement data (5745-5825MHz SAR (11a))

#### WT-5A / 11a 6Mbps 5785MHz / Camera Front

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5800 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.28$  mho/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(3.69, 3.69, 3.69);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (101x81x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.131 mW/g

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

Reference Value = 4.371 V/m; Power Drift = 0.13 dB

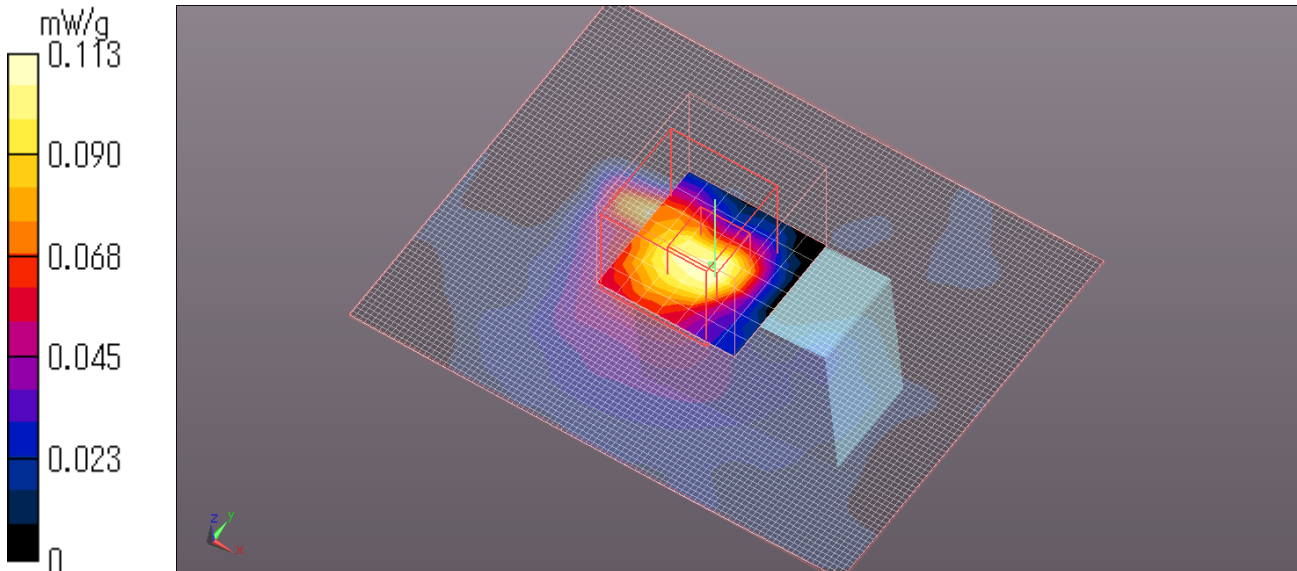
Peak SAR (extrapolated) = 0.443 W/kg

**SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.018 mW/g**

Maximum value of SAR (measured) = 0.113 mW/g

Date: 2011/07/08

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



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**WT-5A / 11a 6Mbps 5785MHz / Camera Rear**

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5800 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.28$  mho/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(3.69, 3.69, 3.69);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (101x81x1):** Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 3.809 V/m; Power Drift = 0.19 dB

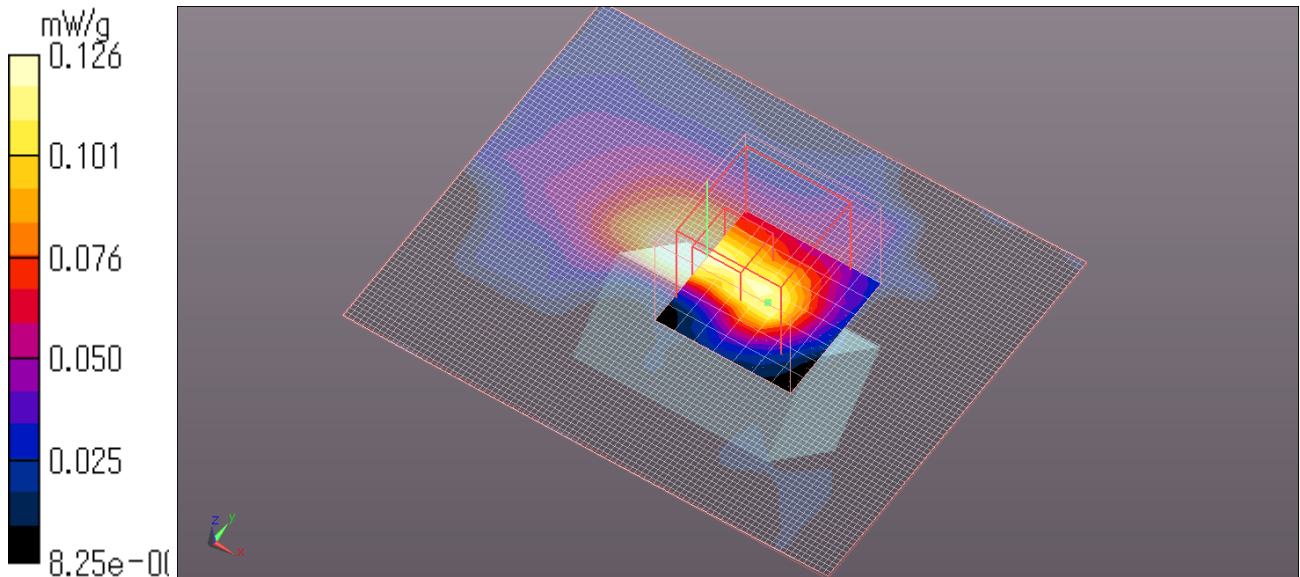
Peak SAR (extrapolated) = 0.267 W/kg

**SAR(1 g) = 0.061 mW/g; SAR(10 g) = 0.023 mW/g**

Maximum value of SAR (measured) = 0.126 mW/g

Date: 2011/07/08

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



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**WT-5A / 11a 6Mbps 5785MHz / Camera Side**

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5800 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 6.28 \text{ mho/m}$ ;  $\epsilon_r = 46$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(3.69, 3.69, 3.69);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (81x81x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (interpolated) = 0.526 mW/g

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

Reference Value = 6.606 V/m; Power Drift = 0.15 dB

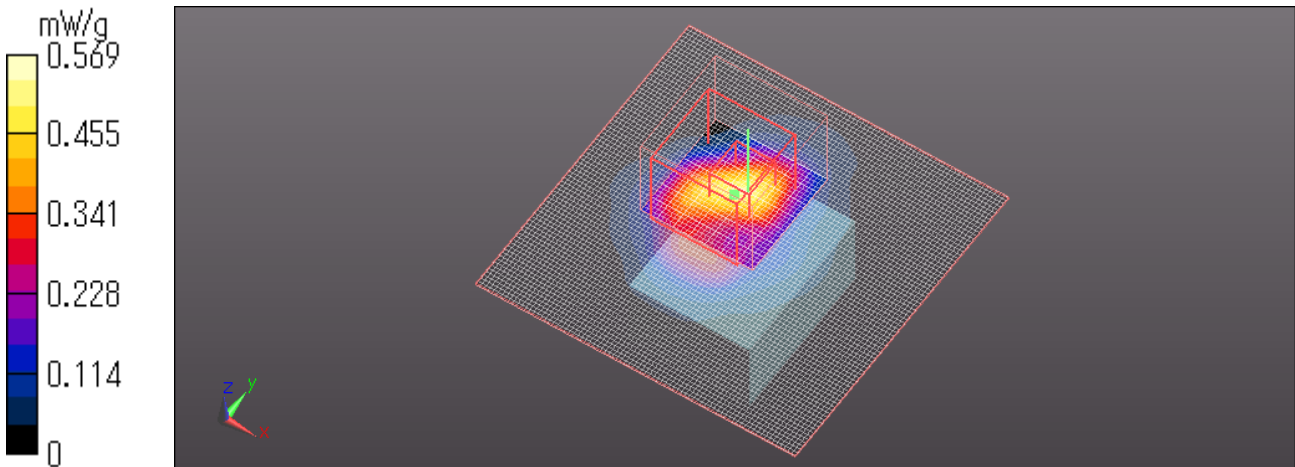
Peak SAR (extrapolated) = 1.170 W/kg

**SAR(1 g) = 0.272 mW/g; SAR(10 g) = 0.097 mW/g**

Maximum value of SAR (measured) = 0.569 mW/g

Date: 2011/07/08

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



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**WT-5A / 11a 6Mbps 5785MHz / Camera Top**

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5800 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.28$  mho/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(3.69, 3.69, 3.69);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

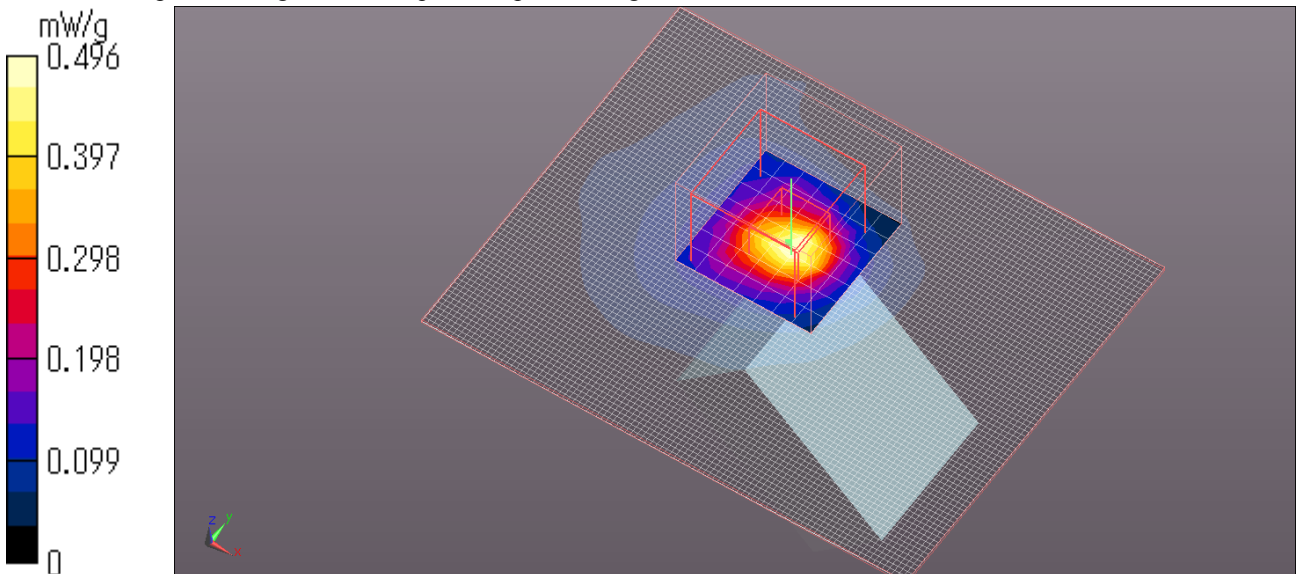
**/Area Scan (101x81x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.441 mW/g

**/Zoom Scan (8x8x10)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm  
Reference Value = 5.530 V/m; Power Drift = 0.20 dB  
Peak SAR (extrapolated) = 1.111 W/kg

**SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.075 mW/g**  
Maximum value of SAR (measured) = 0.496 mW/g

Date: 2011/07/08

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



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**WT-5A / 11a 6Mbps 5785MHz / Camera bottom**

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5800 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.28$  mho/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(3.69, 3.69, 3.69);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (101x101x1):** Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 9.176 V/m; Power Drift = -0.15 dB

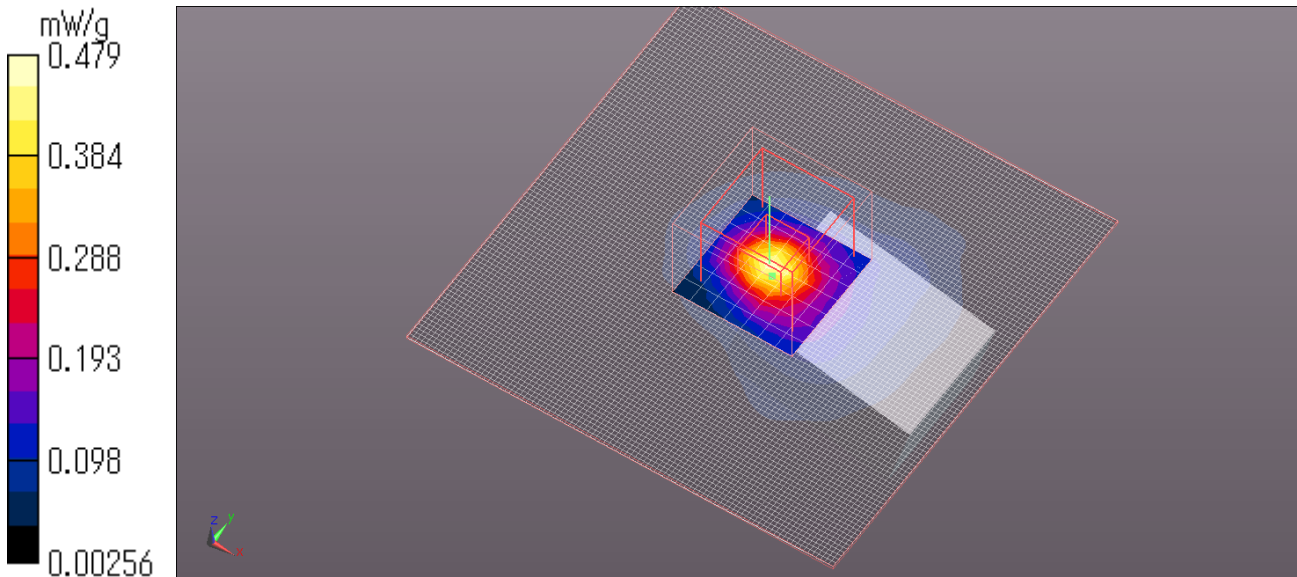
Peak SAR (extrapolated) = 0.945 W/kg

**SAR(1 g) = 0.221 mW/g; SAR(10 g) = 0.069 mW/g**

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

Date: 2011/07/08

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



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**WT-5A / 11a 6Mbps 5745MHz / Camera Side**

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5800 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.28$  mho/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(3.69, 3.69, 3.69);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (81x81x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.675 mW/g

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

Reference Value = 7.400 V/m; Power Drift = -0.13 dB

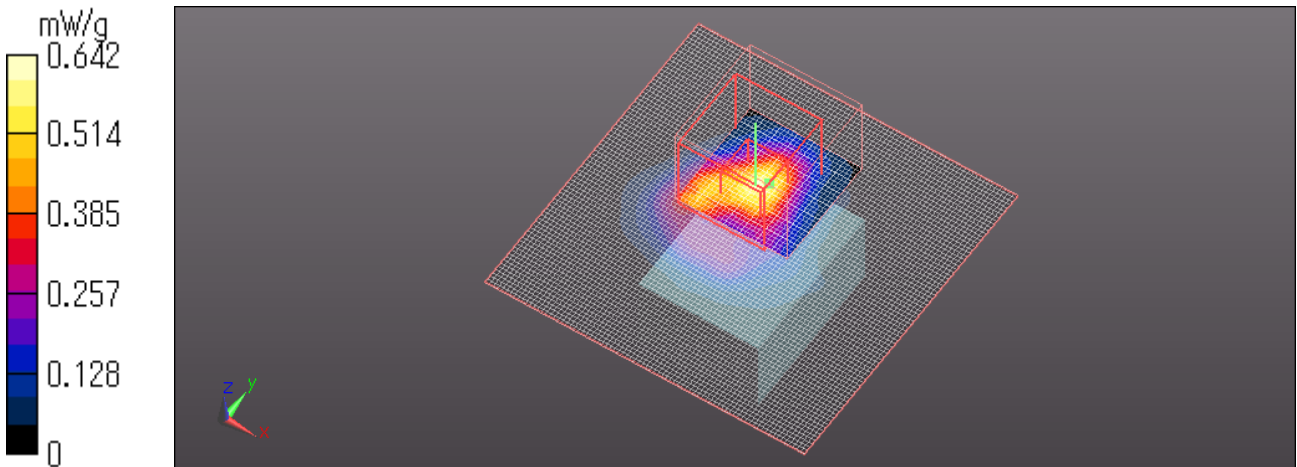
Peak SAR (extrapolated) = 1.111 W/kg

**SAR(1 g) = 0.291 mW/g; SAR(10 g) = 0.093 mW/g**

Maximum value of SAR (measured) = 0.642 mW/g

Date: 2011/07/08

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



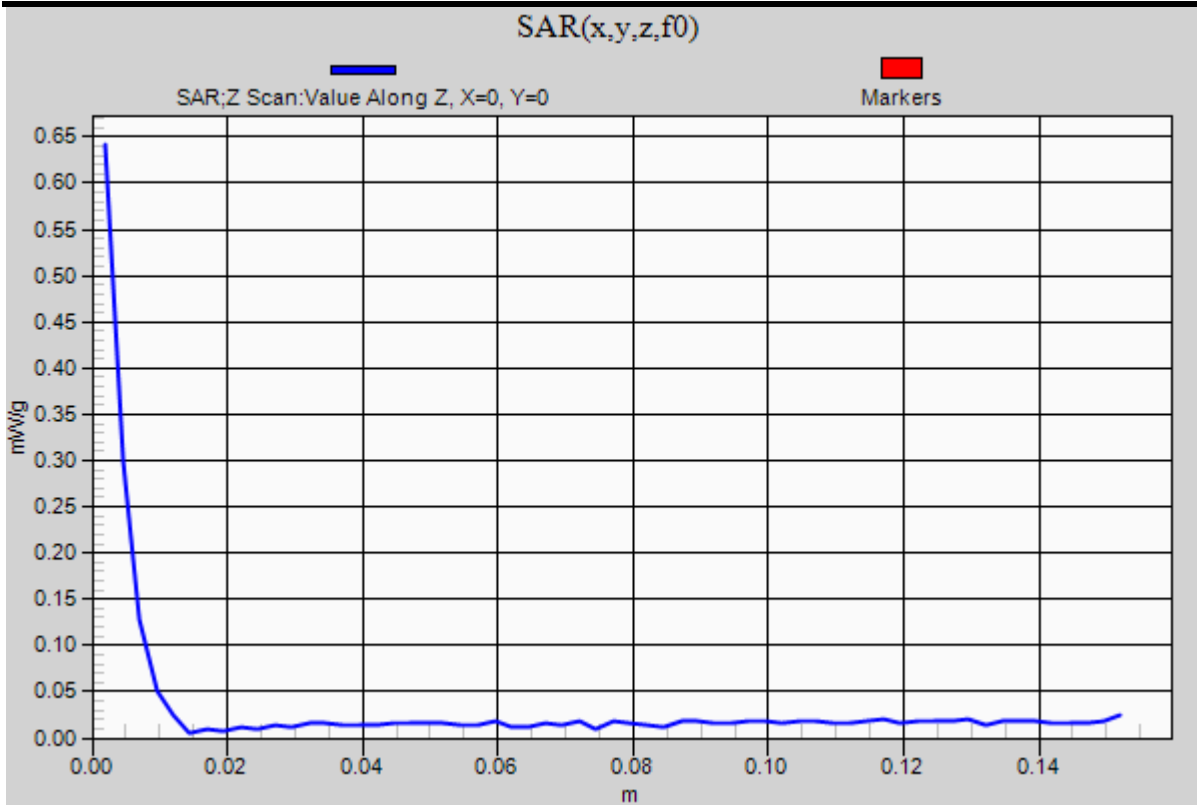
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**WT-5A / 11a 6Mbps 5825MHz / Camera Side**

Communication System: WLAN 11a/b/g/n ; Communication System Band: 11a/n; Frequency: 5800 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 6.28 \text{ mho/m}$ ;  $\epsilon_r = 46$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(3.69, 3.69, 3.69);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (81x81x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.614 mW/g

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

Reference Value = 6.598 V/m; Power Drift = -0.06 dB

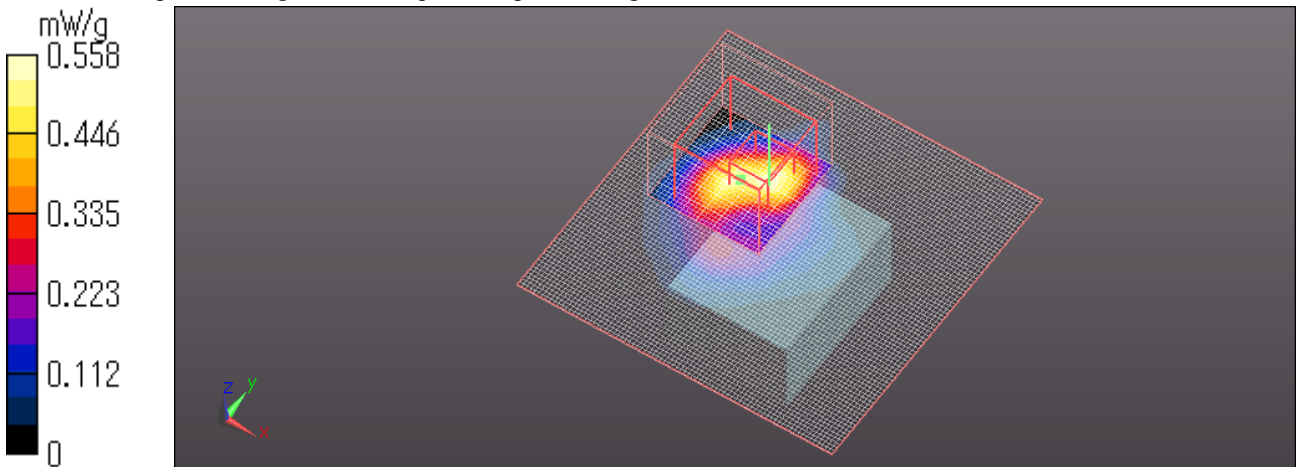
Peak SAR (extrapolated) = 0.978 W/kg

**SAR(1 g) = 0.264 mW/g; SAR(10 g) = 0.089 mW/g**

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

Date: 2011/07/08

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



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#### 4. Measurement data (2412-2462MHz SAR (11b))

##### WT-5A / 11b 1Mbps 2437MHz / Camera Side

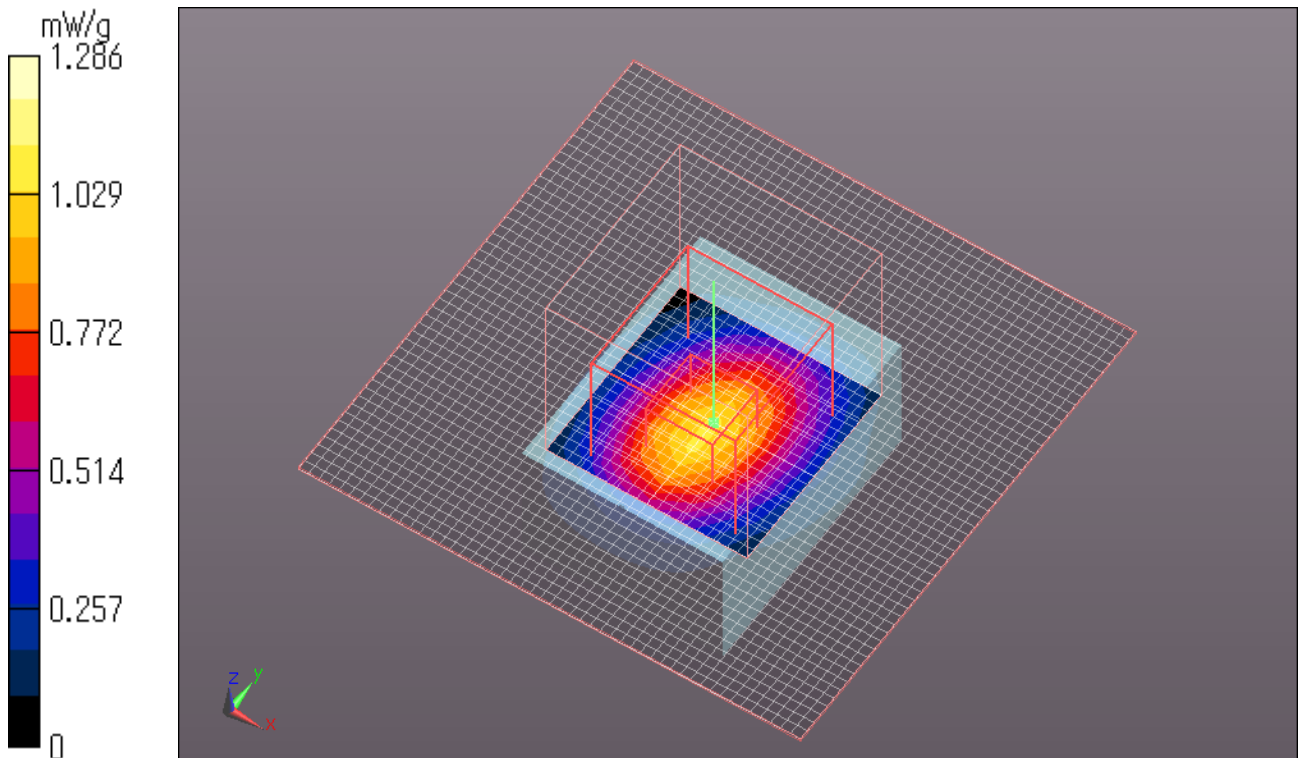
Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n;  
Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 2437$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)  
DASY5 Configuration:  
Probe: EX3DV3 - SN3507; ConvF(7.61, 7.61, 7.61);  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Electronics: DAE4 Sn539; Calibrated: 2010/09/13  
Phantom: ELI 4.0; Type: QDOVA001BA;  
Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (51x51x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.286 mW/g

**/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 19.706 V/m; Power Drift = -0.16 dB  
Peak SAR (extrapolated) = 1.392 W/kg

**SAR(1 g) = 0.742 mW/g; SAR(10 g) = 0.338 mW/g**  
Maximum value of SAR (measured) = 1.066 mW/g

Date: 2011/07/04  
Ambient Temp. : 24.5 degree.C. Liquid Temp.; 24.5 degree.C.



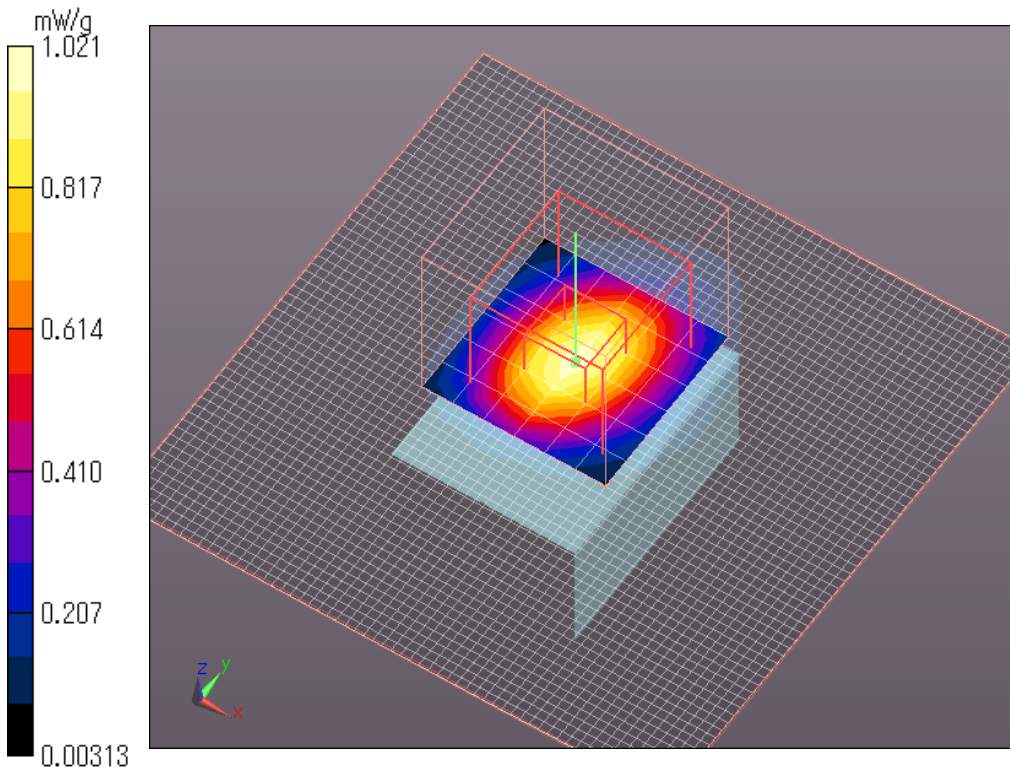
**WT-5A / 11b 5.5Mbps 2437MHz / Camera Side**

Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n;  
Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 2437$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)  
DASY5 Configuration:  
Probe: EX3DV3 - SN3507; ConvF(7.61, 7.61, 7.61);  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Electronics: DAE4 Sn539; Calibrated: 2010/09/13  
Phantom: ELI 4.0; Type: QDOVA001BA;  
Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.134 mW/g

**/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 22.694 V/m; Power Drift = -0.18 dB  
Peak SAR (extrapolated) = 1.317 W/kg

**SAR(1 g) = 0.697 mW/g; SAR(10 g) = 0.318 mW/g**  
Maximum value of SAR (measured) = 1.021 mW/g  
Date: 2011/07/04  
Ambient Temp. : 24.5 degree.C. Liquid Temp.; 24.5 degree.C.



**WT-5A / 11b 1Mbps 2437MHz / Camera Front**

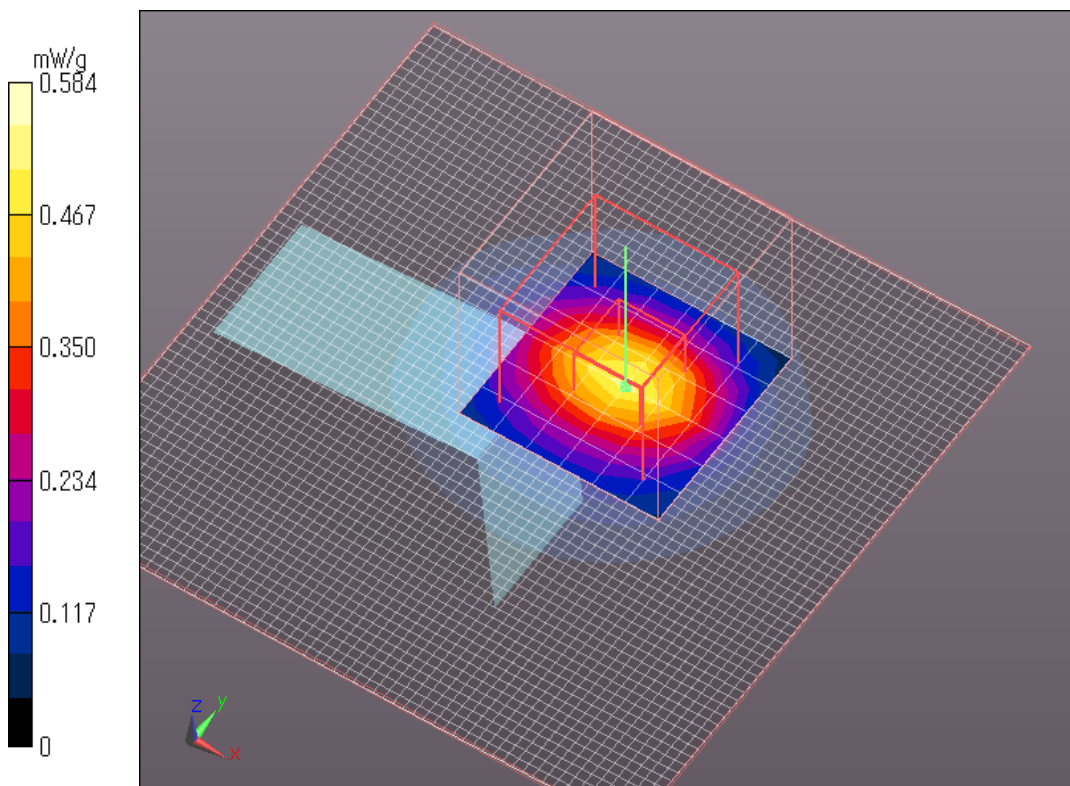
Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n;  
Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 2437$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)  
DASY5 Configuration:  
Probe: EX3DV3 - SN3507; ConvF(7.61, 7.61, 7.61);  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Electronics: DAE4 Sn539; Calibrated: 2010/09/13  
Phantom: ELI 4.0; Type: QDOVA001BA;  
Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.584 mW/g

**/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 11.302 V/m; Power Drift = -0.18 dB  
Peak SAR (extrapolated) = 0.717 W/kg

**SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.159 mW/g**  
Maximum value of SAR (measured) = 0.526 mW/g

Date: 2011/07/04  
Ambient Temp. : 24.5 degree.C. Liquid Temp.; 24.5 degree.C.



**WT-5A / 11b 1Mbps 2437MHz / Camera Rear**

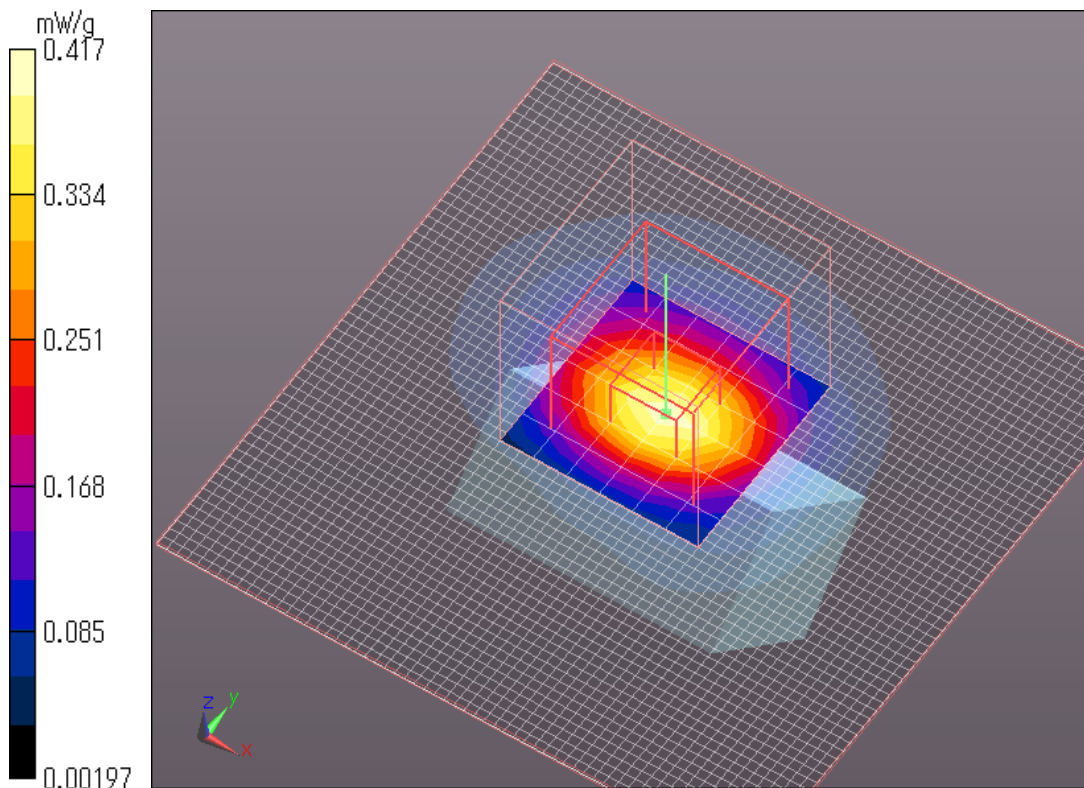
Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n;  
Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 2437$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)  
DASY5 Configuration:  
Probe: EX3DV3 - SN3507; ConvF(7.61, 7.61, 7.61);  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Electronics: DAE4 Sn539; Calibrated: 2010/09/13  
Phantom: ELI 4.0; Type: QDOVA001BA;  
Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.372 mW/g

**/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 13.547 V/m; Power Drift = 0.12 dB  
Peak SAR (extrapolated) = 0.550 W/kg

**SAR(1 g) = 0.280 mW/g; SAR(10 g) = 0.133 mW/g**  
Maximum value of SAR (measured) = 0.417 mW/g

Date: 2011/07/04  
Ambient Temp. : 24.5 degree.C. Liquid Temp.; 24.5 degree.C.





## WT-5A / 11b 1Mbps 2437MHz / Camera Top

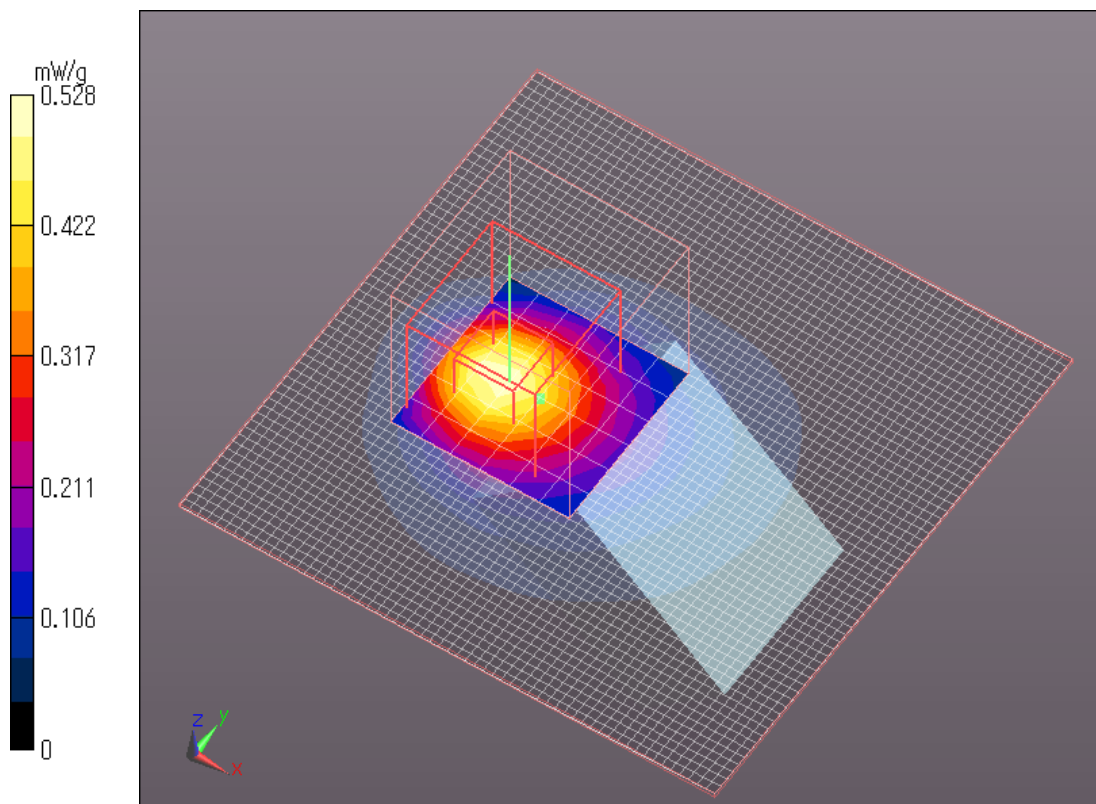
Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n;  
Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 2437$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)  
DASY5 Configuration:  
Probe: EX3DV3 - SN3507; ConvF(7.61, 7.61, 7.61);  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Electronics: DAE4 Sn539; Calibrated: 2010/09/13  
Phantom: ELI 4.0; Type: QDOVA001BA;  
Measurement SW: DASYS2, Version 52.6 (1);

/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.528 mW/g

/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 13.527 V/m; Power Drift = -0.11 dB  
Peak SAR (extrapolated) = 0.723 W/kg

**SAR(1 g) = 0.365 mW/g; SAR(10 g) = 0.169 mW/g**  
Maximum value of SAR (measured) = 0.535 mW/g

Date: 2011/07/04  
Ambient Temp. : 24.5 degree.C. Liquid Temp.; 24.5 degree.C.



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**WT-5A / 11b 1Mbps 2437MHz / Camera Bottom**

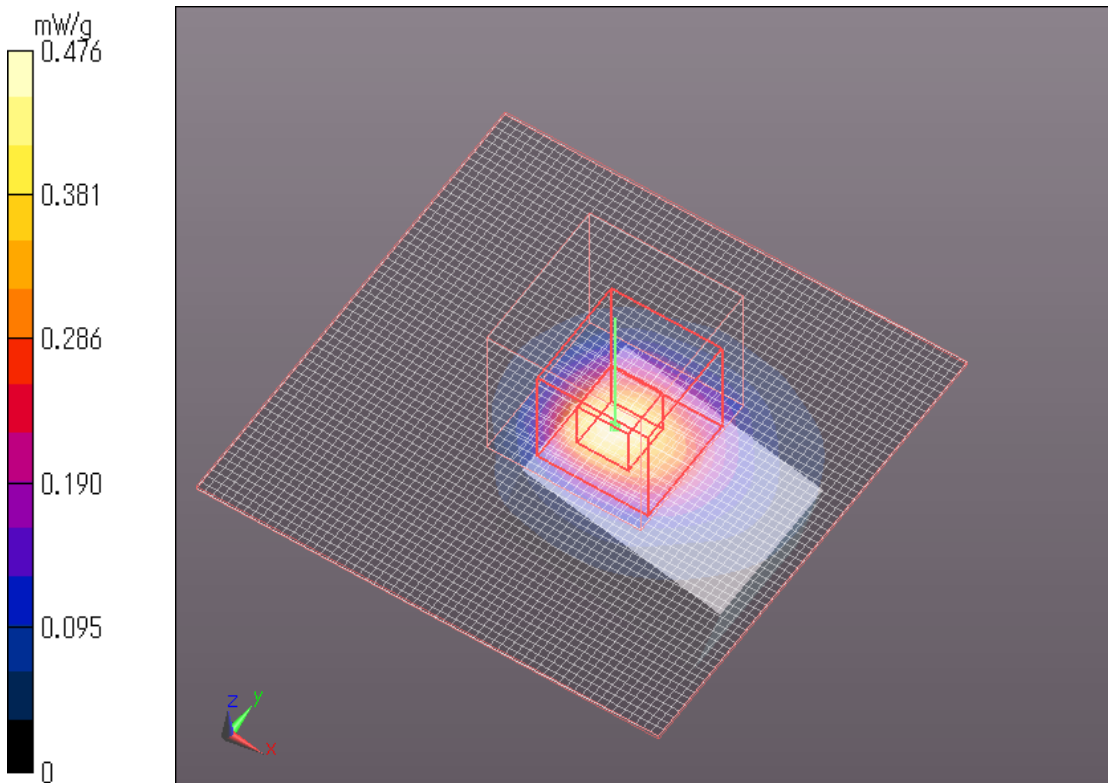
Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n;  
Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 2437$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)  
DASY5 Configuration:  
Probe: EX3DV3 - SN3507; ConvF(7.61, 7.61, 7.61);  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Electronics: DAE4 Sn539; Calibrated: 2010/09/13  
Phantom: ELI 4.0; Type: QDOVA001BA;  
Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.476 mW/g

**/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 12.390 V/m; Power Drift = -0.09 dB  
Peak SAR (extrapolated) = 0.608 W/kg

**SAR(1 g) = 0.310 mW/g; SAR(10 g) = 0.149 mW/g**  
Maximum value of SAR (measured) = 0.458 mW/g

Date: 2011/07/04  
Ambient Temp. : 24.5 degree.C. Liquid Temp.; 24.5 degree.C



**WT-5A / 11b 1Mbps 2412MHz / Camera Side**

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

Medium parameters used:  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.7$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.61, 7.61, 7.61);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (51x51x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.123 mW/g

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

Reference Value = 19.011 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.471 W/kg

**SAR(1 g) = 0.787 mW/g; SAR(10 g) = 0.361 mW/g**

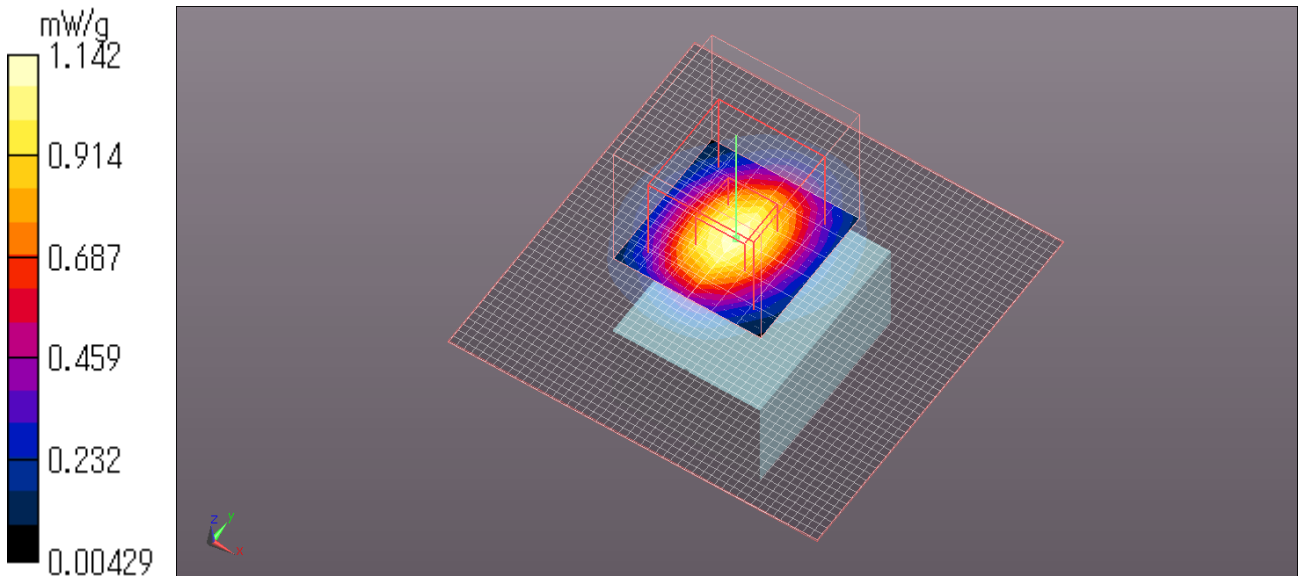
Maximum value of SAR (measured) = 1.142 mW/g

**/Z Scan (1x1x31):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=5\text{mm}$

Maximum value of SAR (measured) = 1.128 mW/g

Date: 2011/07/04

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



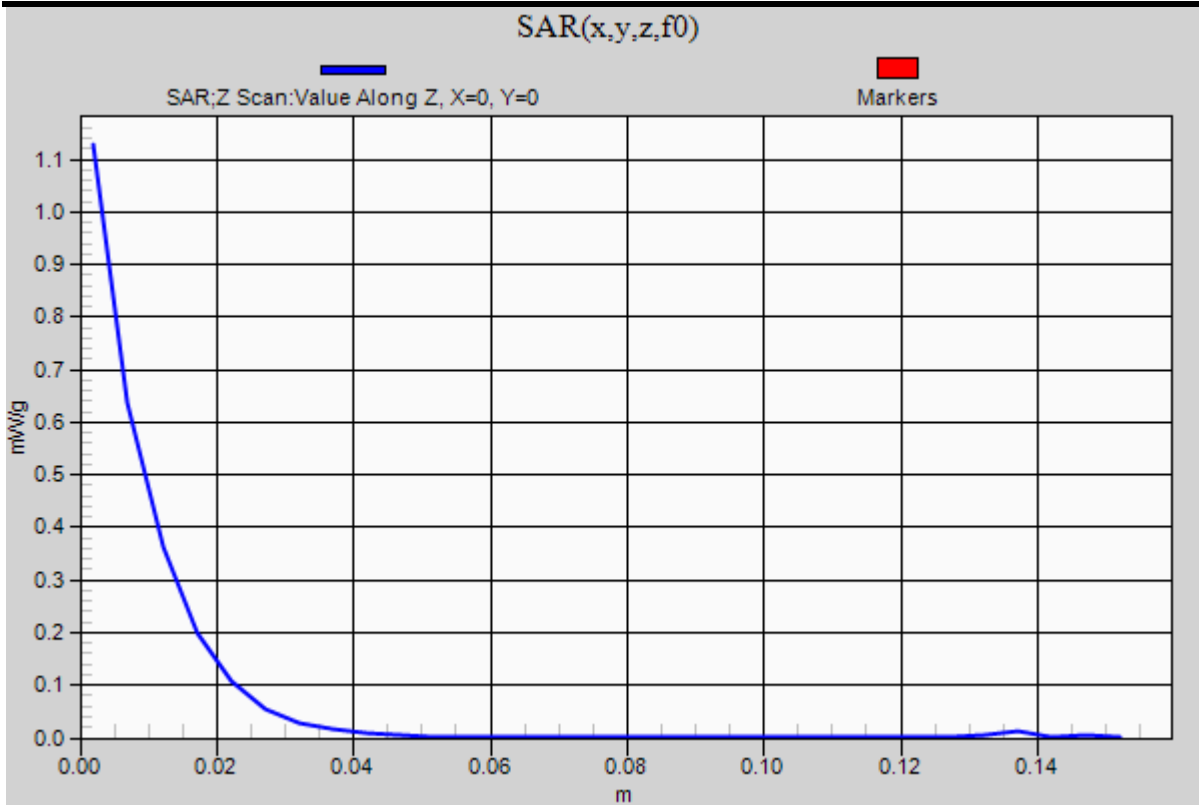
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**WT-5A / 11b 1Mbps 2462MHz / Camera Side**

Communication System: WLAN 11a/b/g/n ; Communication System Band: WLAN 11b/g/n; Frequency: 2462 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.04$  mho/m;  $\epsilon_r = 50.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.61, 7.61, 7.61);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

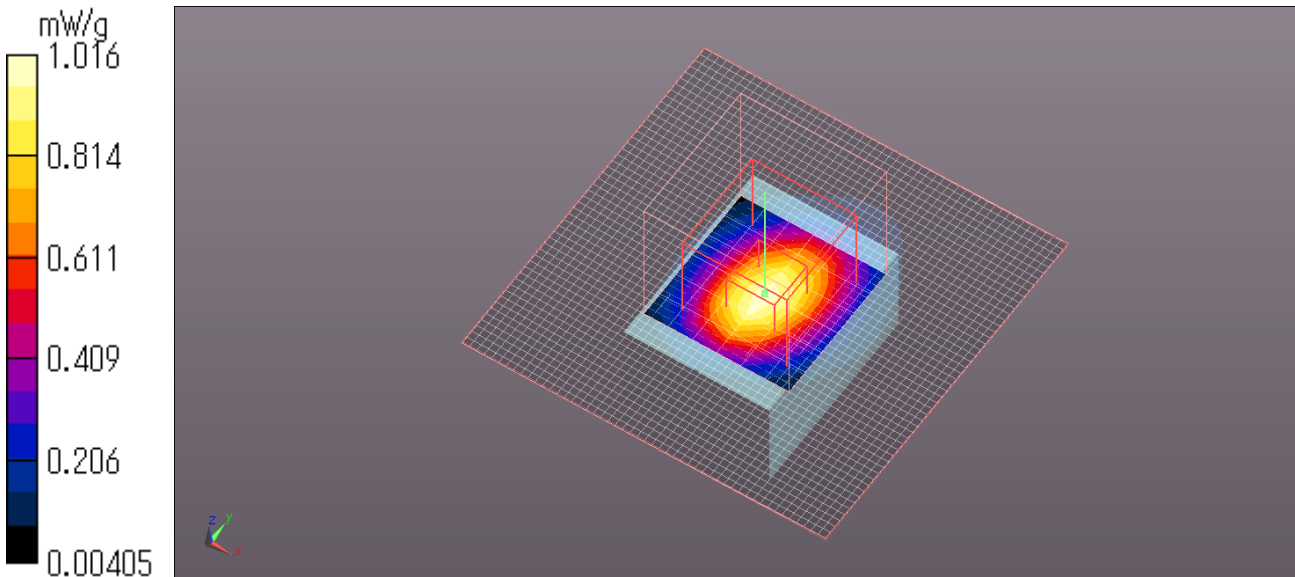
**/Area Scan (51x51x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.438 mW/g

**/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 22.007 V/m; Power Drift = -0.17 dB  
Peak SAR (extrapolated) = 1.317 W/kg

**SAR(1 g) = 0.694 mW/g; SAR(10 g) = 0.314 mW/g**  
Maximum value of SAR (measured) = 1.016 mW/g

Date: 2011/07/04

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



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**WT-5A / 11b 1Mbps 2412MHz / Camera Side 5mm**

Communication System: WLAN 11b/g/n ; Communication System Band: 11b/g/n; Frequency: 2450 MHz;;Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 50.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.61, 7.61, 7.61);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (51x51x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.433 mW/g

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

Reference Value = 12.976 V/m; Power Drift = -0.19 dB

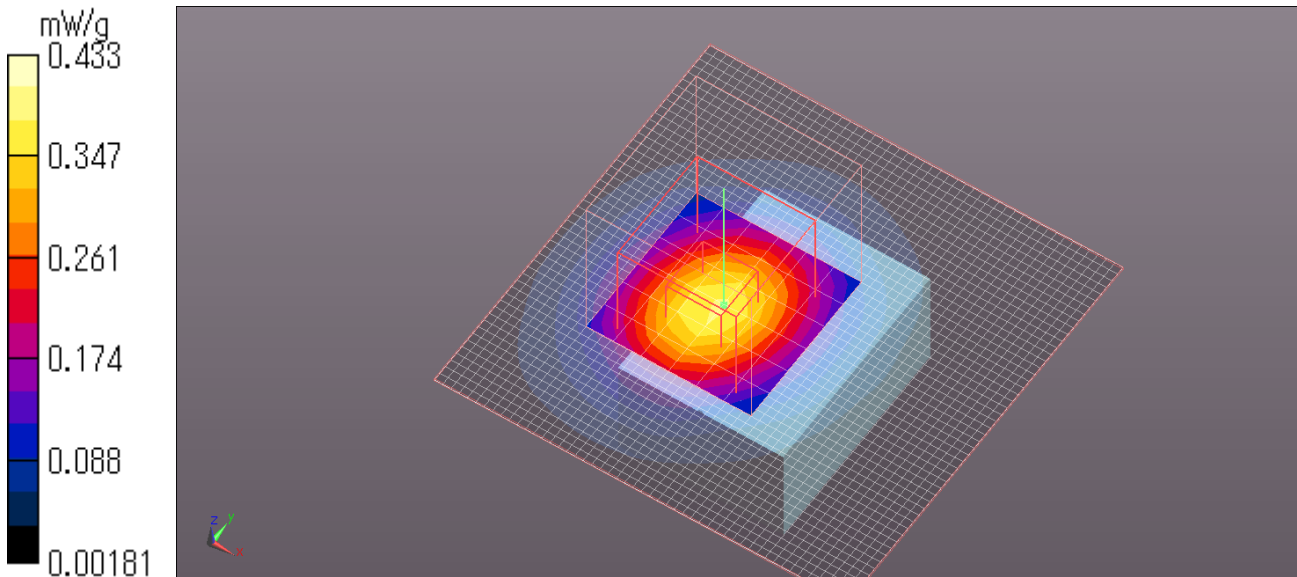
Peak SAR (extrapolated) = 0.506 W/kg

**SAR(1 g) = 0.272 mW/g; SAR(10 g) = 0.138 mW/g**

Maximum value of SAR (measured) = 0.386 mW/g

Date: 2011/07/04

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



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**WT-5A / 11b 1Mbps 2412MHz / Camera Side 10mm**

Communication System: WLAN 11b/g/n ; Communication System Band: 11b/g/n; Frequency: 2450 MHz;;Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 50.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.61, 7.61, 7.61);

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn539; Calibrated: 2010/09/13

Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASYS2, Version 52.6 (1);

**/Area Scan (51x51x1):** Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 11.487 V/m; Power Drift = -0.19 dB

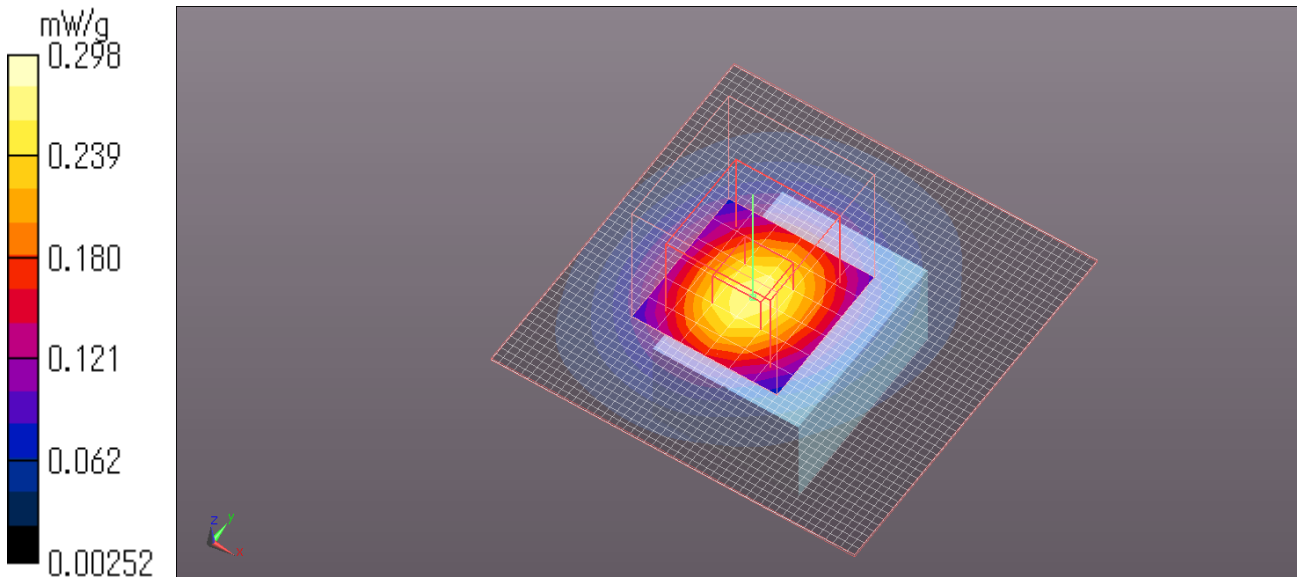
Peak SAR (extrapolated) = 0.365 W/kg

**SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.103 mW/g**

Maximum value of SAR (measured) = 0.280 mW/g

Date: 2011/07/04

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



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