

**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 10 mm x 10 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 24mm x 24mm x 20mm was assessed by measuring 7 x 7 x 11 points. And for any secondary peaks found in the Step2 which are within 2dB of maximum peak (level more than ambient noise ( $\geq 0.012$  W/kg)) and not with this Step3 (Zoom scan) is repeated. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

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

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

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

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

## 2. Head measurement data

### BB-GTA150 / Left Head / Cheek / Ant.1 / Mid ch(5790.026MHz)

Crest factor:6.5

Medium: HSL5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.08$  mho/m;  $\epsilon_r = 32.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.82, 4.82, 4.82); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.497 mW/g

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0 dB

Peak SAR (extrapolated) = 1.28 W/kg

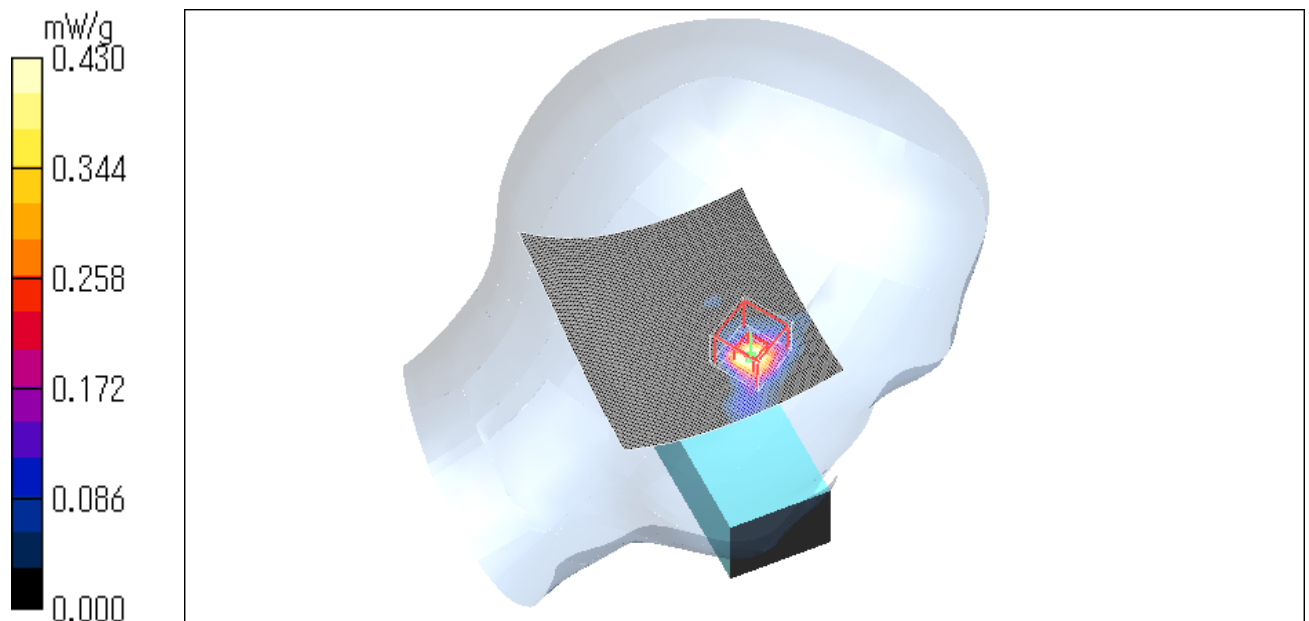
**SAR(1 g) = 0.214 mW/g; SAR(10 g) = 0.064 mW/g**

Maximum value of SAR (measured) = 0.430 mW/g

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

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



UL Apex Co., Ltd.

Head Office EMC Lab.

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**BB-GTA150 / Left Head / Tilt / Ant.1 / Mid ch(5790.026MHz)**

Crest factor:6.5

Medium: HSL5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.08$  mho/m;  $\epsilon_r = 32.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.82, 4.82, 4.82); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

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

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0 dB

Peak SAR (extrapolated) = 0.466 W/kg

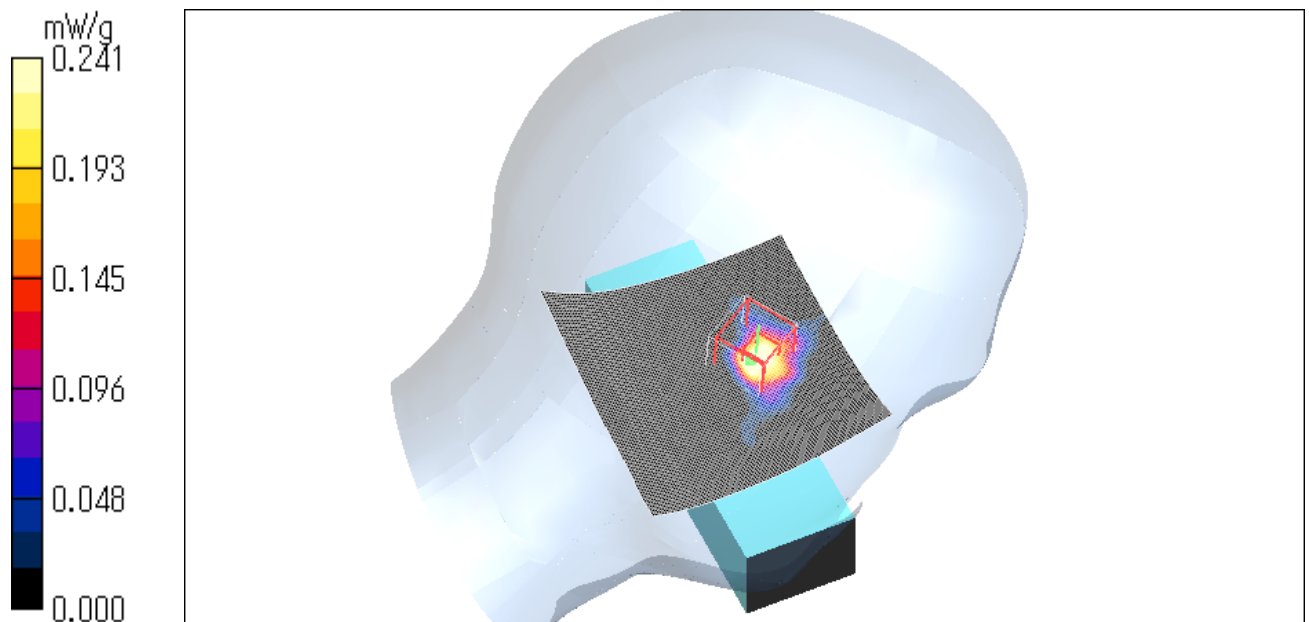
**SAR(1 g) = 0.124 mW/g; SAR(10 g) = 0.038 mW/g**

Maximum value of SAR (measured) = 0.241 mW/g

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

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



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**BB-GTA150 / Right Head / Cheek / Ant.1 / Mid ch(5790.026MHz)**

Crest factor:6.5

Medium: HSL5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.08$  mho/m;  $\epsilon_r = 32.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.82, 4.82, 4.82); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.347 mW/g

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0 dB

Peak SAR (extrapolated) = 0.710 W/kg

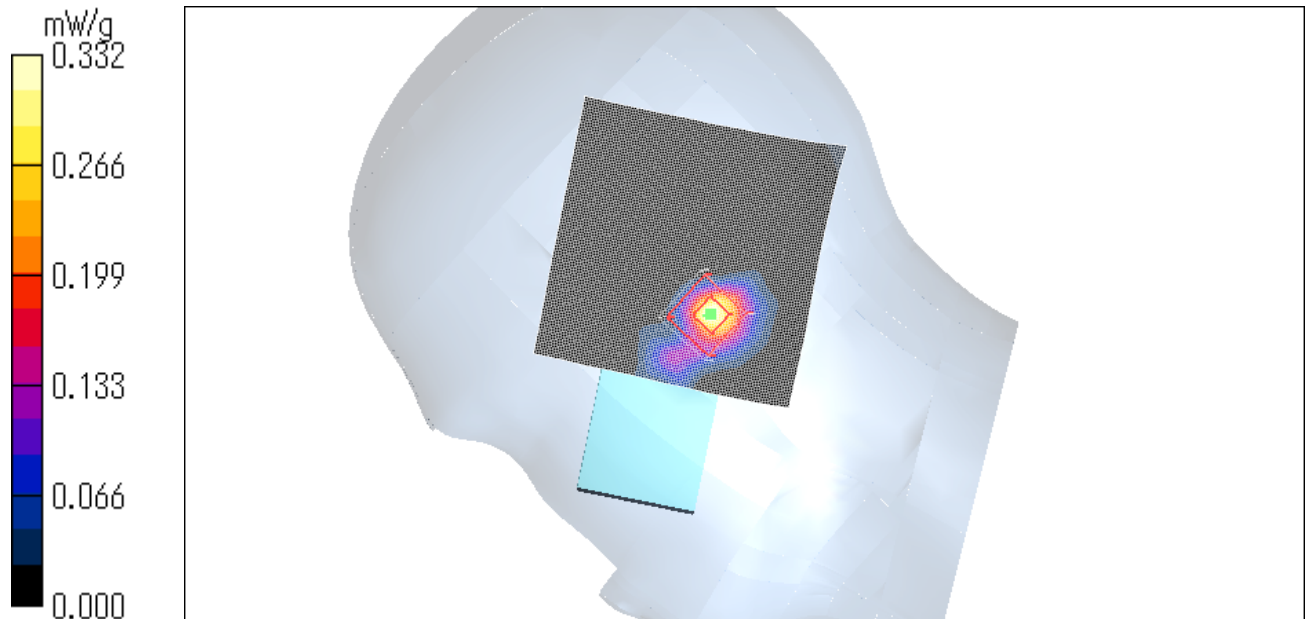
**SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.053 mW/g**

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

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.3 degree.C , After 24.3 degree.C



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**BB-GTA150 / Right Head / Tilt / Ant.1 / Mid ch(5790.026MHz)**

Crest factor:6.5

Medium: HSL5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.08$  mho/m;  $\epsilon_r = 32.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.82, 4.82, 4.82); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.181 mW/g

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0 dB

Peak SAR (extrapolated) = 0.418 W/kg

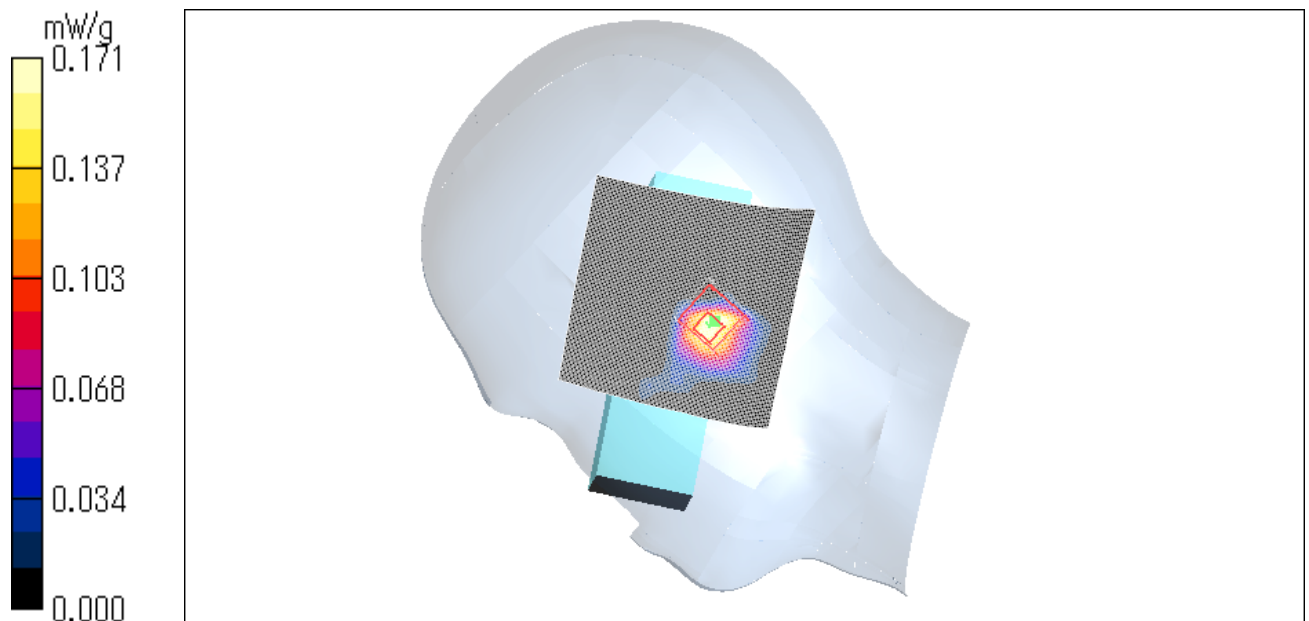
**SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.030 mW/g**

Maximum value of SAR (measured) = 0.171 mW/g

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.3 degree.C , After 24.3 degree.C



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**BB-GTA150 / Left Head / Cheek / Ant.1 / Low ch(5741.865MHz)**

Crest factor:6.5

Medium: HSL5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.08$  mho/m;  $\epsilon_r = 32.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.82, 4.82, 4.82); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.508 mW/g

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift =0dB

Peak SAR (extrapolated) = 1.06 W/kg

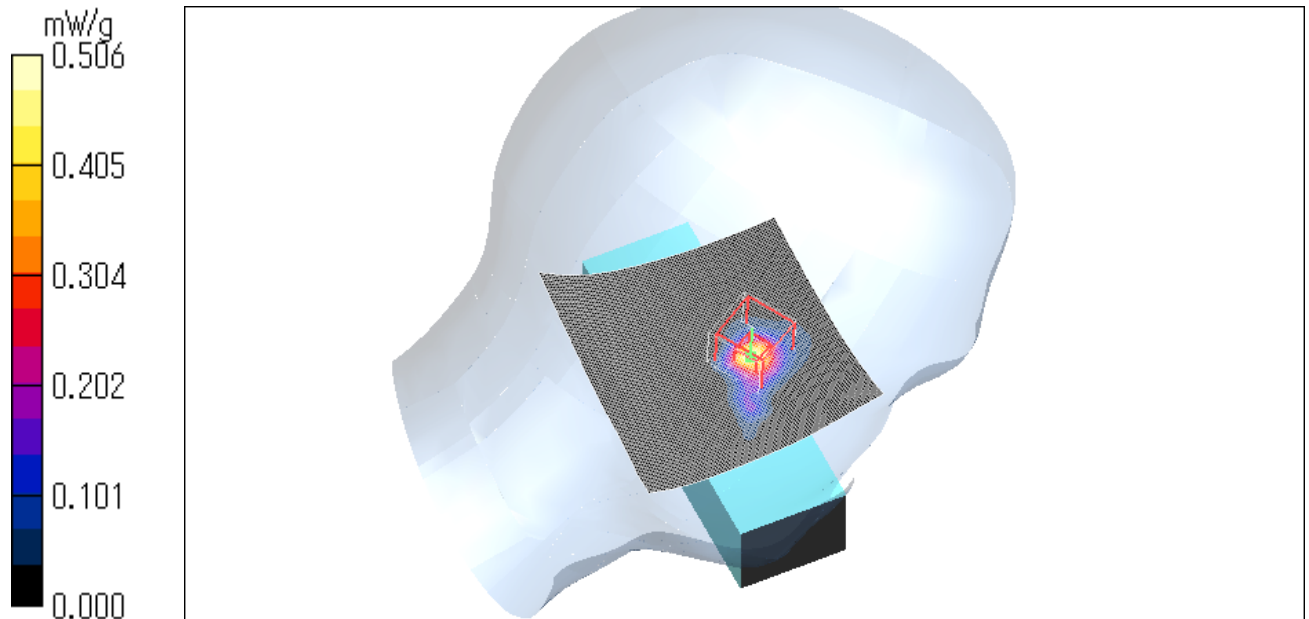
**SAR(1 g) = 0.244 mW/g; SAR(10 g) = 0.070 mW/g**

Maximum value of SAR (measured) = 0.506 mW/g

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.8 degree.C , After 24.8 degree.C



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**BB-GTA150 / Left Head / Cheek / Ant.1 / High ch(5838.187MHz)**

Crest factor:6.5

Medium: HSL5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.08$  mho/m;  $\epsilon_r = 32.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.82, 4.82, 4.82); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.531 mW/g

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0 dB

Peak SAR (extrapolated) = 0.971 W/kg

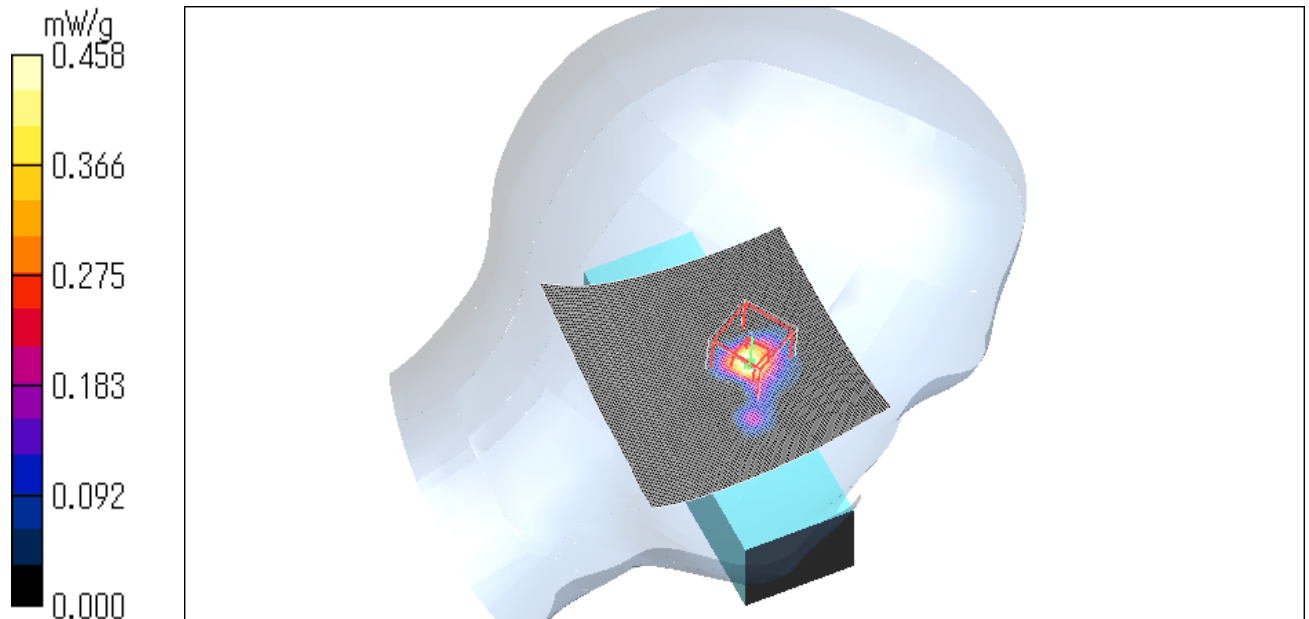
**SAR(1 g) = 0.227 mW/g; SAR(10 g) = 0.065 mW/g**

Maximum value of SAR (measured) = 0.458 mW/g

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.8 degree.C , After 24.8 degree.C



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**BB-GTA150 / Left Head / Cheek / Ant.2 / Mid ch(5790.026MHz)**

Crest factor:6.5

Medium: HSL5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.08$  mho/m;  $\epsilon_r = 32.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.82, 4.82, 4.82); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.183 mW/g

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.01 V/m; Power Drift = 0.178 dB

Peak SAR (extrapolated) = 0.309 W/kg

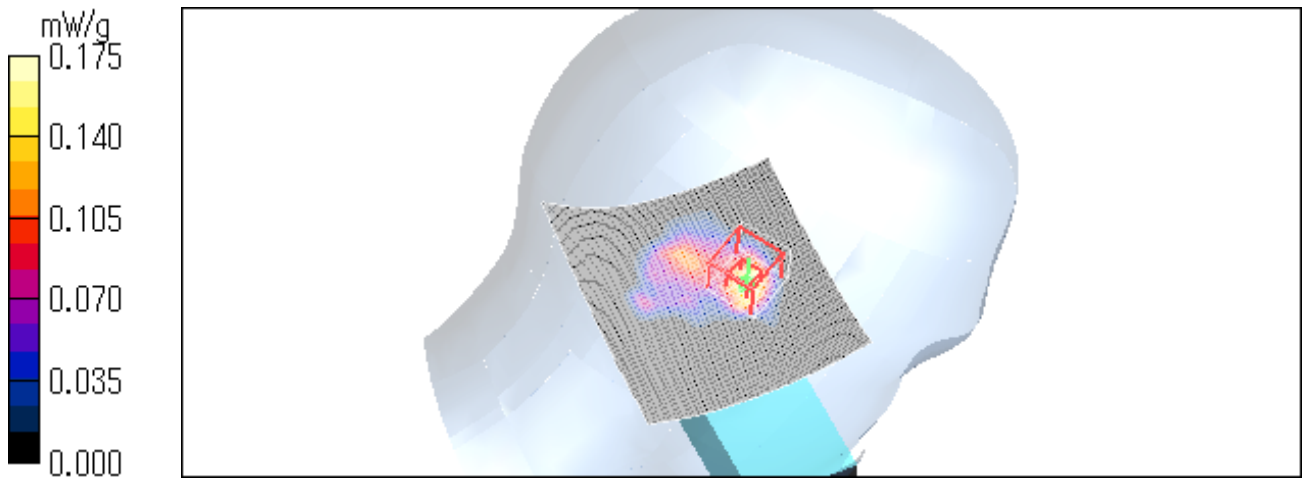
**SAR(1 g) = 0.079 mW/g; SAR(10 g) = 0.026 mW/g**

Maximum value of SAR (measured) = 0.175 mW/g

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

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



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**BB-GTA150 / Left Head / Tilt / Ant.2 / Mid ch(5790.026MHz)**

Crest factor:6.5

Medium: HSL5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.08$  mho/m;  $\epsilon_r = 32.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.82, 4.82, 4.82); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.241 mW/g

**Zoom Scan (7x7x11)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.16 V/m; Power Drift = 0.201 dB

Peak SAR (extrapolated) = 0.444 W/kg

**SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.031 mW/g**

Maximum value of SAR (measured) = 0.207 mW/g

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.16 V/m; Power Drift = 0.201 dB

Peak SAR (extrapolated) = 0.383 W/kg

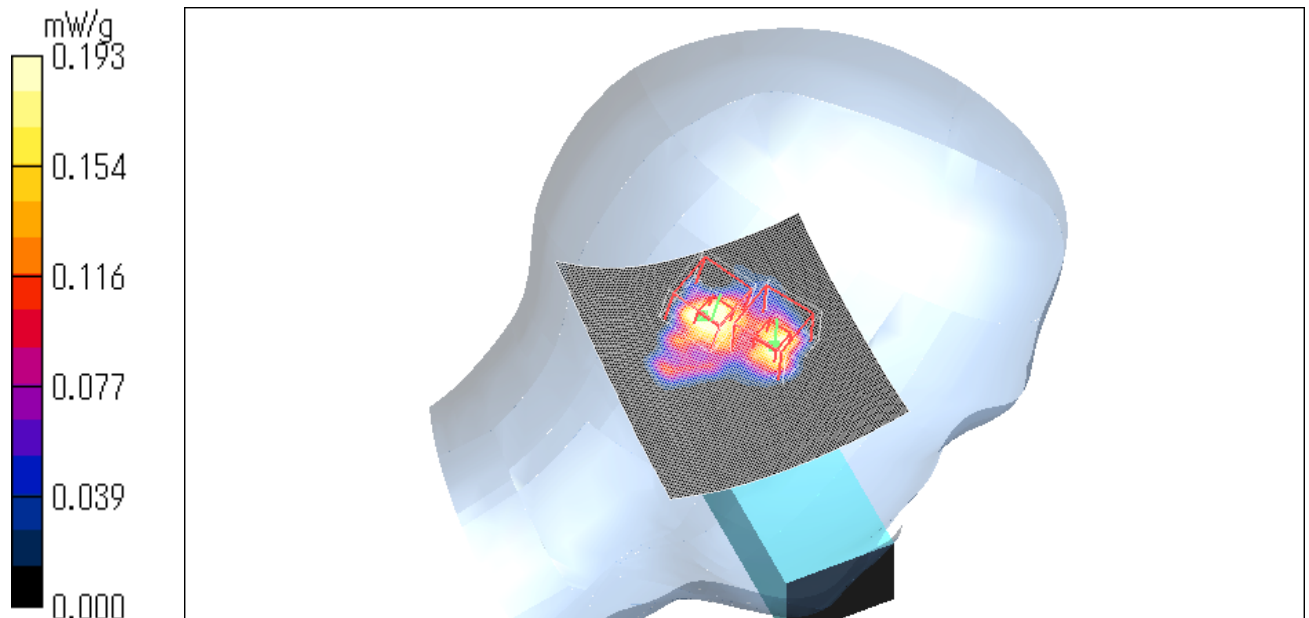
**SAR(1 g) = 0.100 mW/g; SAR(10 g) = 0.035 mW/g**

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

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.1 degree.C



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**BB-GTA150 / Right Head / Cheek / Ant.2/ Mid ch(5790.026MHz)**

Crest factor:6.5

Medium: HSL5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.08$  mho/m;  $\epsilon_r = 32.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.82, 4.82, 4.82); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.194 mW/g

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.28 V/m; Power Drift = -0.131 dB

Peak SAR (extrapolated) = 0.316 W/kg

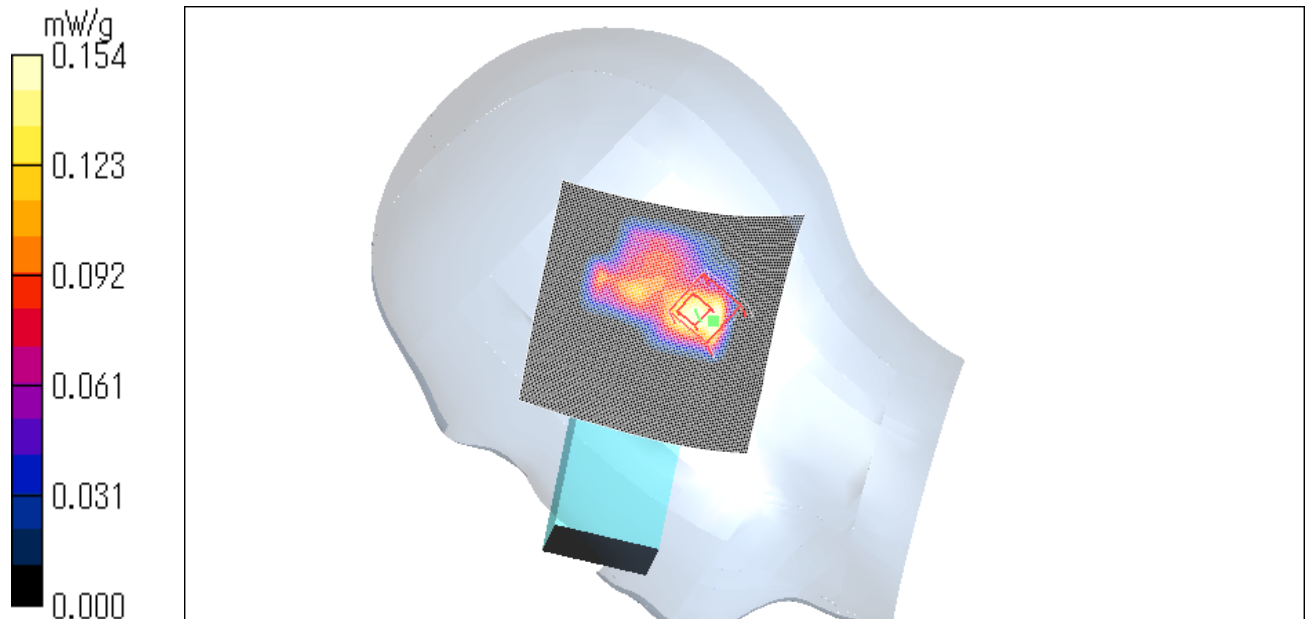
**SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.026 mW/g**

Maximum value of SAR (measured) = 0.154 mW/g

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.3 degree.C , After 24.3 degree.C



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**BB-GTA150 / Right Head / Tilt / Ant.2 / Mid ch(5790.026MHz)**

Crest factor:6.5

Medium: HSL5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.08$  mho/m;  $\epsilon_r = 32.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.82, 4.82, 4.82); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.199 mW/g

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.47 V/m; Power Drift = 0.207 dB

Peak SAR (extrapolated) = 0.447 W/kg

**SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.043 mW/g**

Maximum value of SAR (measured) = 0.215 mW/g

**Zoom Scan (7x7x11)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Peak SAR (extrapolated) = 0.418 W/kg

**SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.036 mW/g**

Maximum value of SAR (measured) = 0.219 mW/g

**Zoom Scan (7x7x11)/Cube 2:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Peak SAR (extrapolated) = 0.319 W/kg

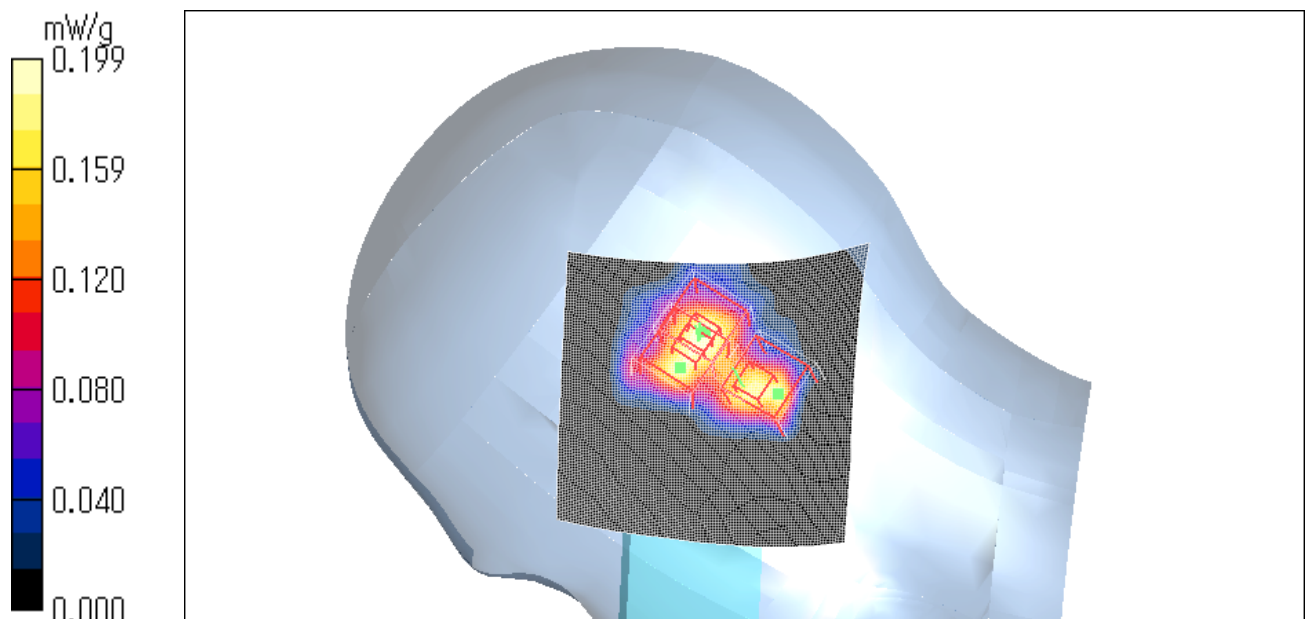
**SAR(1 g) = 0.093 mW/g; SAR(10 g) = 0.029 mW/g**

Maximum value of SAR (measured) = 0.175 mW/g

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.3 degree.C , After 24.3 degree.C



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**BB-GTA150 / Right Head / Tilt / Ant.2 / Low ch(5741.865MHz)**

Crest factor:6.5

Medium: HSL5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.08$  mho/m;  $\epsilon_r = 32.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.82, 4.82, 4.82); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.246 mW/g

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.60 V/m; Power Drift = 0.155 dB

Peak SAR (extrapolated) = 0.515 W/kg

**SAR(1 g) = 0.133 mW/g; SAR(10 g) = 0.050 mW/g**

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

**Zoom Scan (7x7x11)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.60 V/m; Power Drift = 0.155 dB

Peak SAR (extrapolated) = 0.373 W/kg

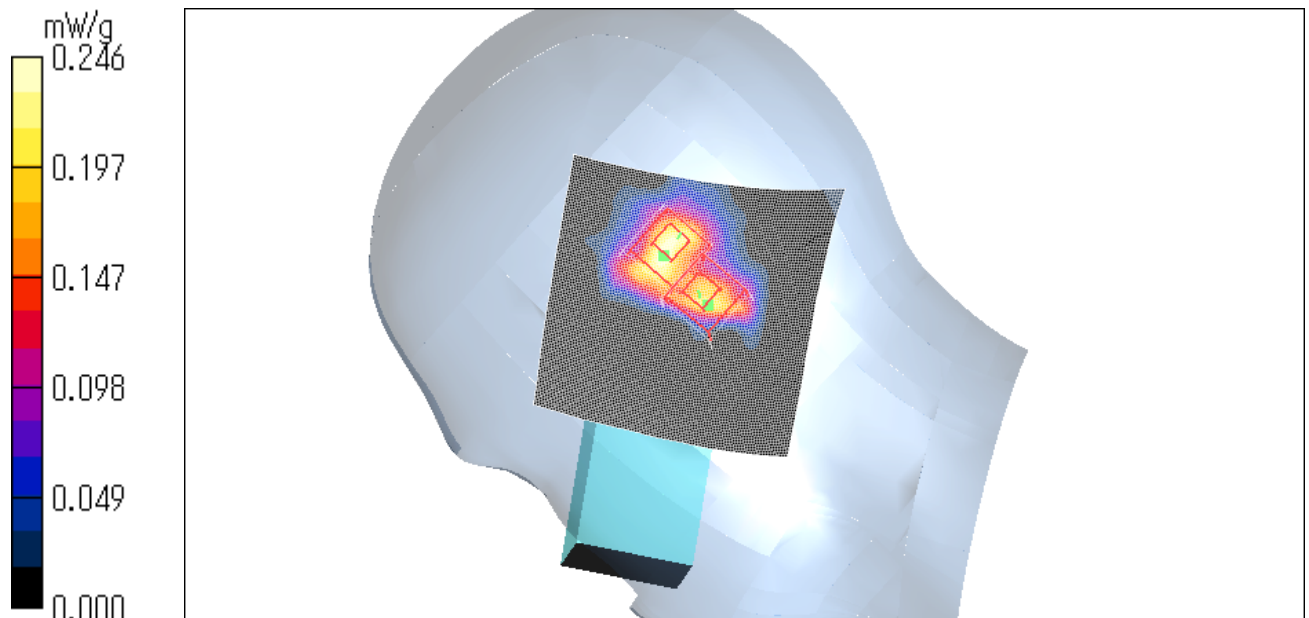
**SAR(1 g) = 0.107 mW/g; SAR(10 g) = 0.037 mW/g**

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

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.8 degree.C , After 24.8 degree.C



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**BB-GTA150 / Right Head / Tilt / Ant.2 / High ch(5838.187MHz)**

Crest factor:6.5

Medium: HSL5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.08$  mho/m;  $\epsilon_r = 32.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.82, 4.82, 4.82); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.217 mW/g

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.80 V/m; Power Drift = 0.201 dB

Peak SAR (extrapolated) = 0.354 W/kg

**SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.031 mW/g**

Maximum value of SAR (measured) = 0.182 mW/g

**Zoom Scan (7x7x11)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Peak SAR (extrapolated) = 0.324 W/kg

**SAR(1 g) = 0.076 mW/g; SAR(10 g) = 0.026 mW/g**

Maximum value of SAR (measured) = 0.154 mW/g

**Zoom Scan (7x7x11)/Cube 2:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Peak SAR (extrapolated) = 0.345 W/kg

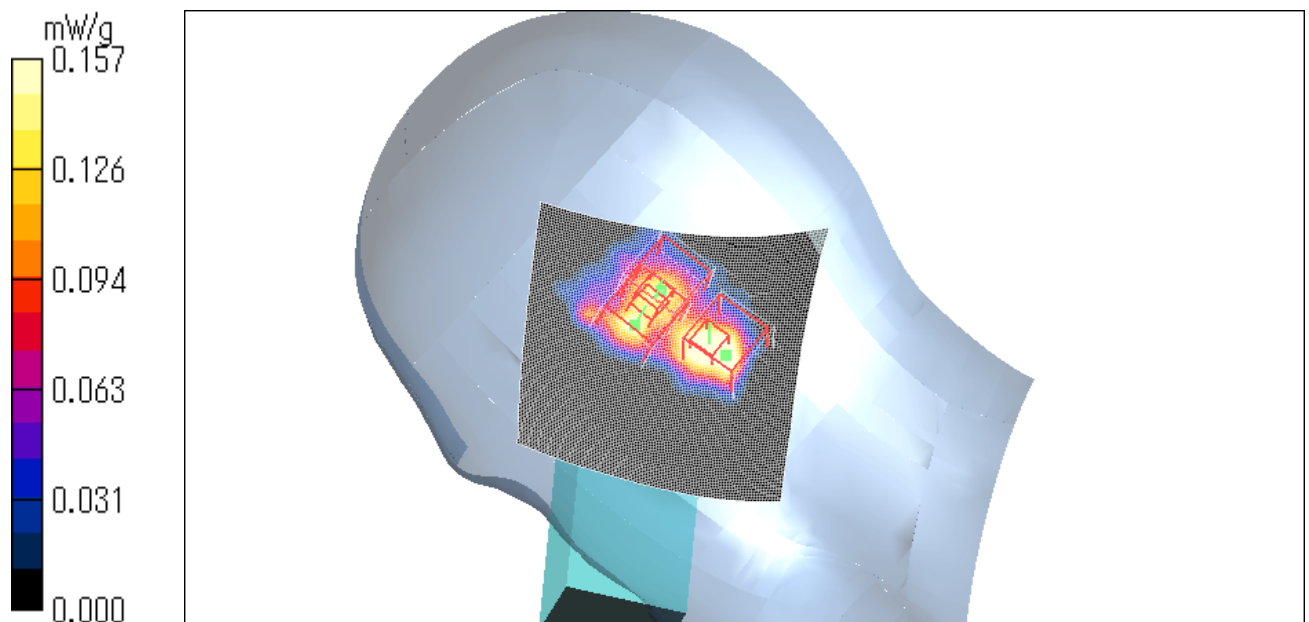
**SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.030 mW/g**

Maximum value of SAR (measured) = 0.157 mW/g

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.8 degree.C , After 24.8 degree.C



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**3. Body-Worn measurement data**  
**BB-GTA150 / Body / Rear / Ant.1 / Low ch(5741.865MHz)**

Crest factor:6.5

Medium: M5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.03$  mho/m;  $\epsilon_r = 45.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.77, 4.77, 4.77); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

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

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.88 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 0.290 W/kg

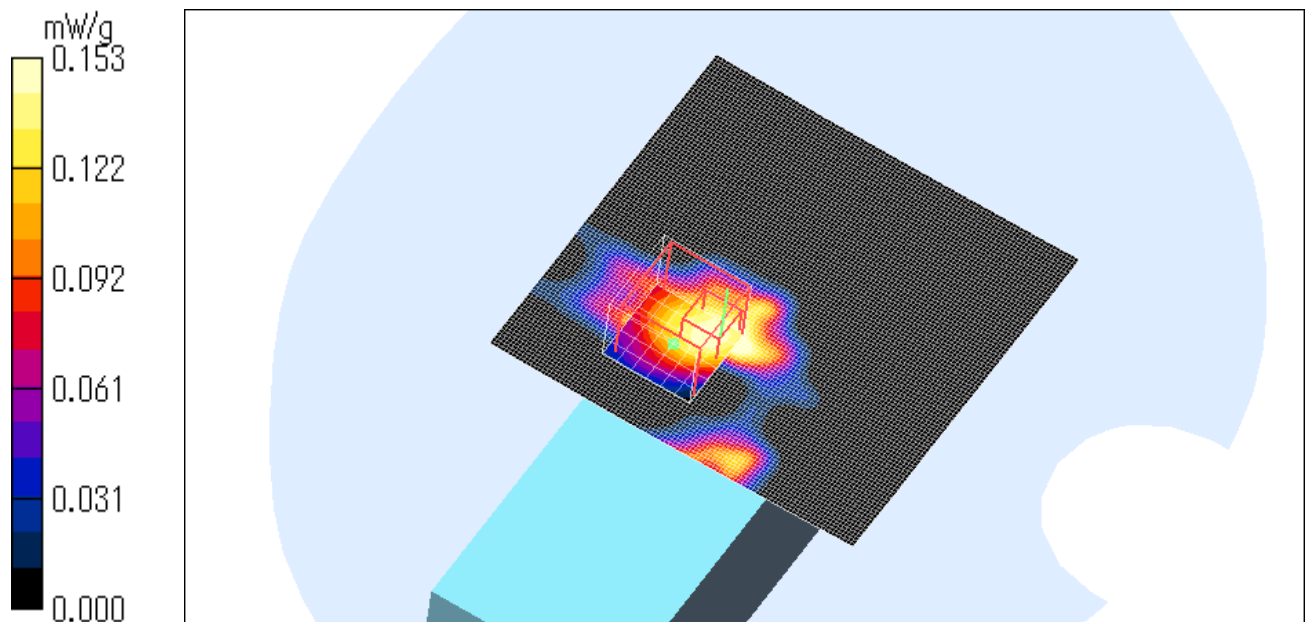
**SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.027 mW/g**

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

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.8 degree.C , After 24.8 degree.C



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**BB-GTA150 / Body / Rear / Ant.1 / Mid ch(5790.026MHz)**

Crest factor:6.5

Medium: M5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.03$  mho/m;  $\epsilon_r = 45.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.77, 4.77, 4.77); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

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

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.35 V/m; Power Drift = 0.115 dB

Peak SAR (extrapolated) = 0.316 W/kg

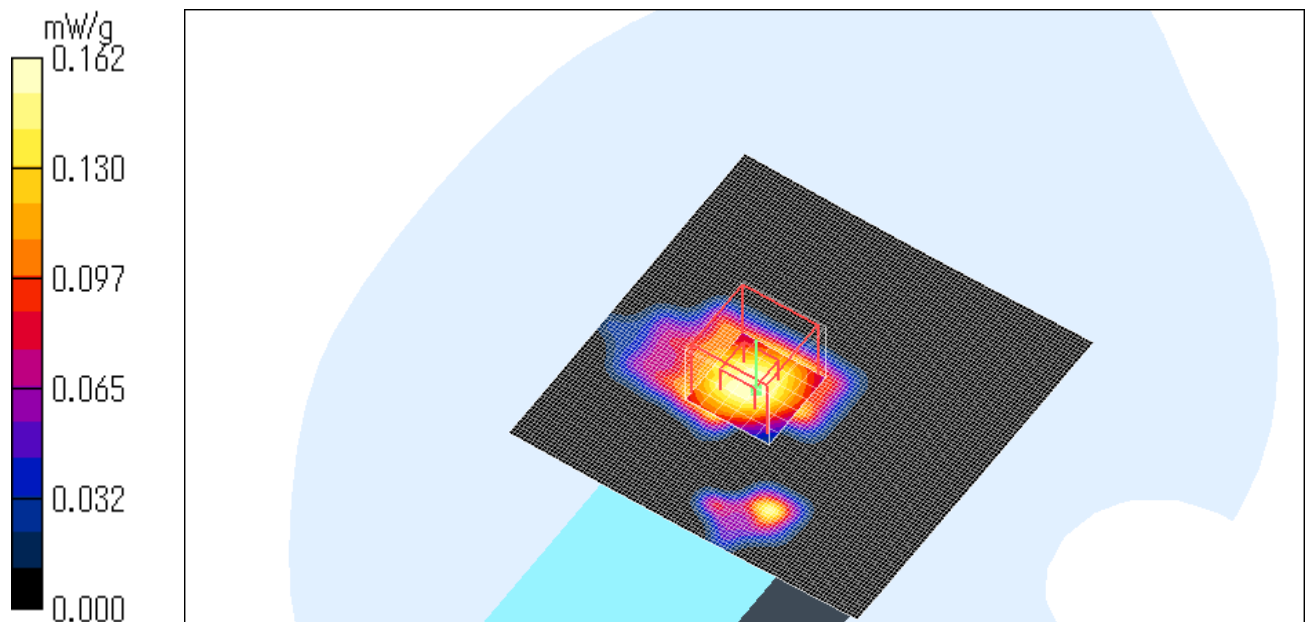
**SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.034 mW/g**

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

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.8 degree.C , After 24.8 degree.C



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**BB-GTA150 / Body / Rear / Ant.1 / High ch(5838.187MHz)**

Crest factor:6.5

Medium: M5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.03$  mho/m;  $\epsilon_r = 45.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.77, 4.77, 4.77); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.180 mW/g

**Zoom Scan (7x7x11)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.53 V/m; Power Drift = 0.117 dB

Peak SAR (extrapolated) = 0.129 W/kg

**SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.010 mW/g**

Maximum value of SAR (measured) = 0.067 mW/g

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.53 V/m; Power Drift = 0.117 dB

Peak SAR (extrapolated) = 0.322 W/kg

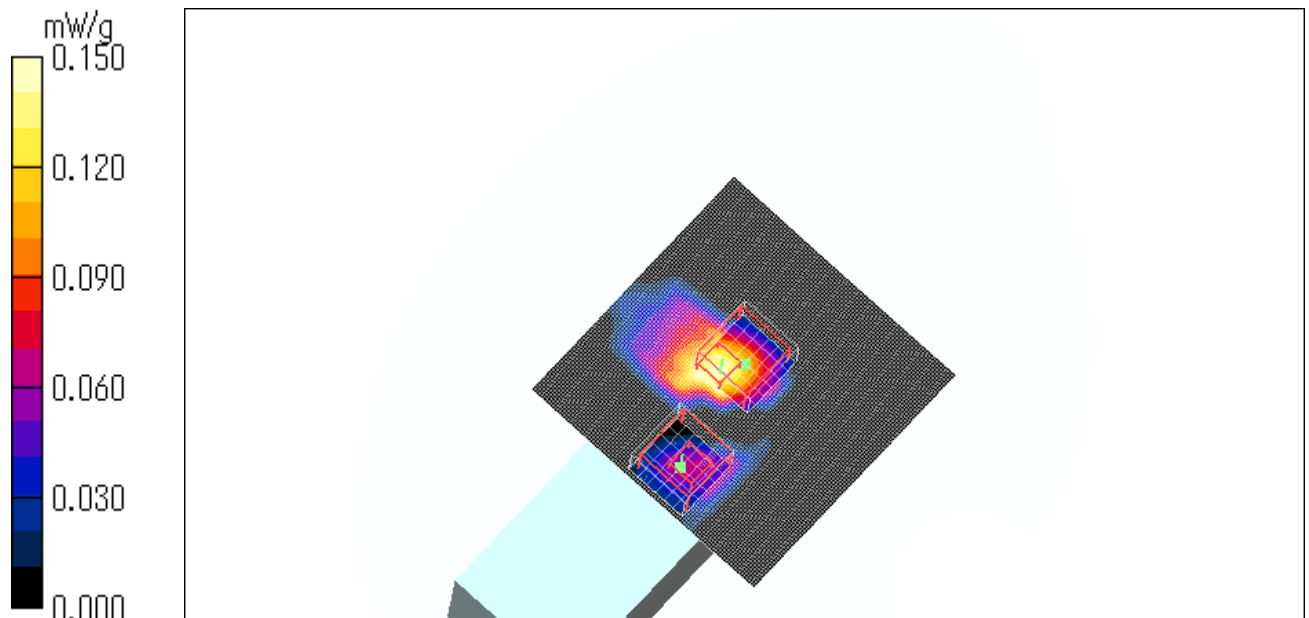
**SAR(1 g) = 0.080 mW/g; SAR(10 g) = 0.026 mW/g**

Maximum value of SAR (measured) = 0.150 mW/g

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.8 degree.C , After 24.8 degree.C



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**BB-GTA150 / Body / Rear / Ant.2 / Low ch(5741.865MHz)**

Crest factor:6.5

Medium: M5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.03$  mho/m;  $\epsilon_r = 45.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.77, 4.77, 4.77); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.495 mW/g

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.86 V/m; Power Drift = -0.077 dB

Peak SAR (extrapolated) = 1.11 W/kg

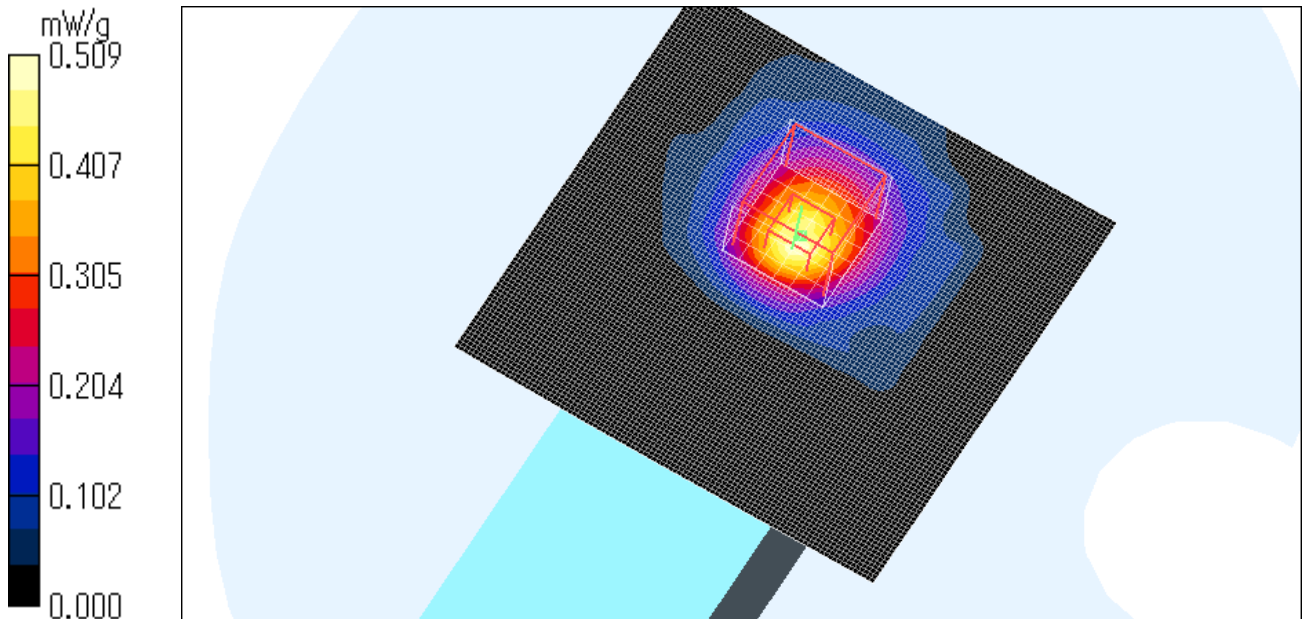
**SAR(1 g) = 0.267 mW/g; SAR(10 g) = 0.101 mW/g**

Maximum value of SAR (measured) = 0.509 mW/g

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.8 degree.C , After 24.8 degree.C



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

## Z-axis scan at max SAR location

**BB-GTA150 / Body / Rear / Ant.2 / Low ch(5741.865MHz)**

Crest factor:6.5

Medium: M5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.03$  mho/m;  $\epsilon_r = 45.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

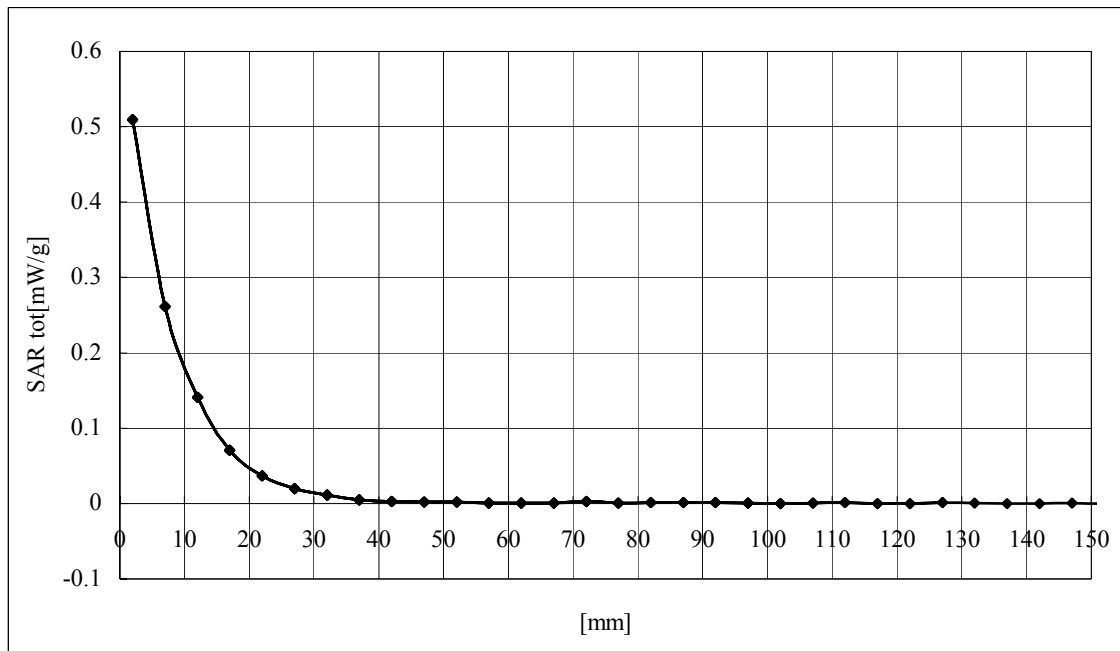
DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.77, 4.77, 4.77); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**BB-GTA150 / Body / Rear / Ant.2 / Mid ch(5790.026MHz)**

Crest factor:6.5

Medium: M5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.03$  mho/m;  $\epsilon_r = 45.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.77, 4.77, 4.77); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.421 mW/g

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.16 V/m; Power Drift = -0.190 dB

Peak SAR (extrapolated) = 0.944 W/kg

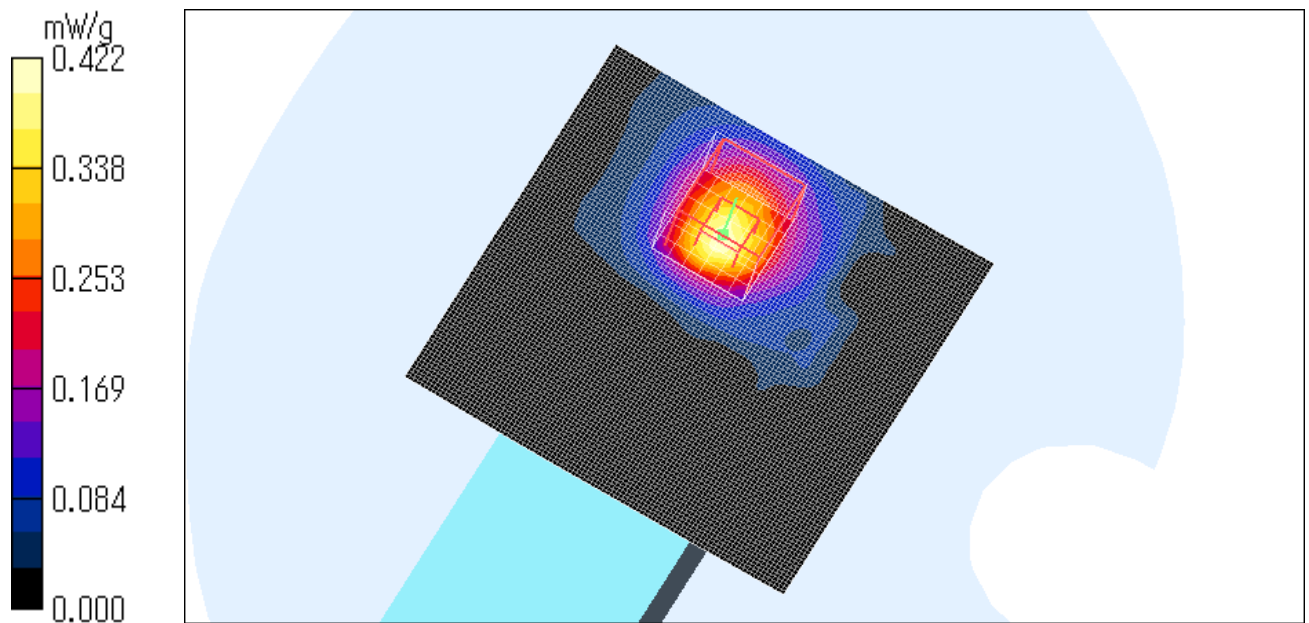
**SAR(1 g) = 0.227 mW/g; SAR(10 g) = 0.086 mW/g**

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

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.8 degree.C , After 24.8 degree.C



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**BB-GTA150 / Body / Rear / Ant.2 / High ch(5838.187MHz)**

Crest factor:6.5

Medium: M5800 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.03$  mho/m;  $\epsilon_r = 45.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.77, 4.77, 4.77); Calibrated: 2006/05/26

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

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.359 mW/g

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.66 V/m; Power Drift = -0.199 dB

Peak SAR (extrapolated) = 0.859 W/kg

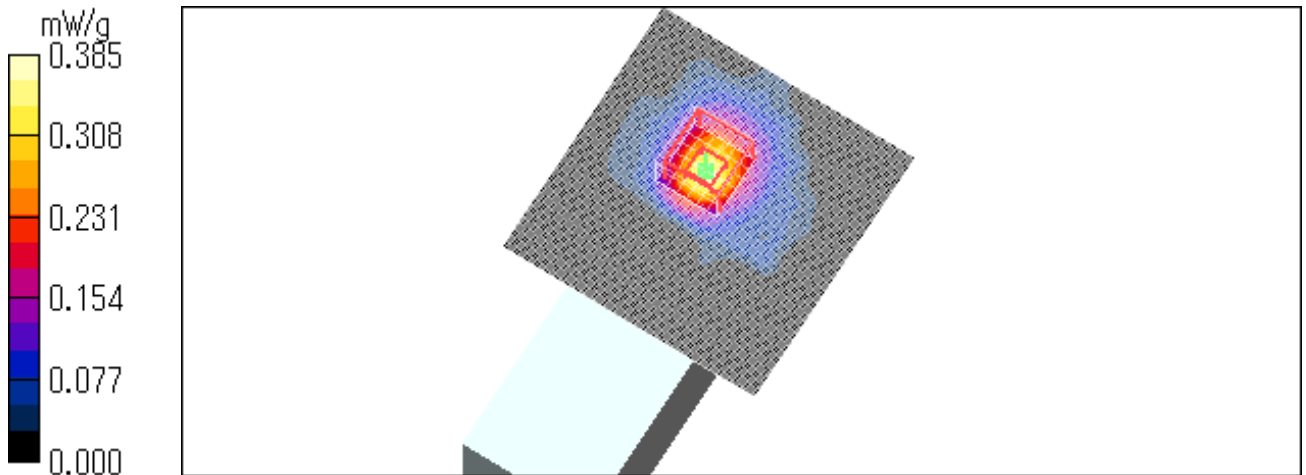
**SAR(1 g) = 0.206 mW/g; SAR(10 g) = 0.078 mW/g**

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

Test Date = 03/01/07

Ambient Temperature = 25.0degree.c

Liquid Temperature = Before 24.8 degree.C , After 24.8 degree.C



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

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

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124