

## 15.5 SAR test plots for WLAN 5.8GHz band

### WLAN 5.8G Ant Main Edge1 11ac80 VHT0 0mm 5775MHz

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 6.211$  S/m;  $\epsilon_r = 47.086$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.32, 4.32, 4.32); Calibrated: 2016/12/14;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2016/06/10

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (81x151x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.394 W/kg

**Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 6.065 V/m; Power Drift = -0.19 dB

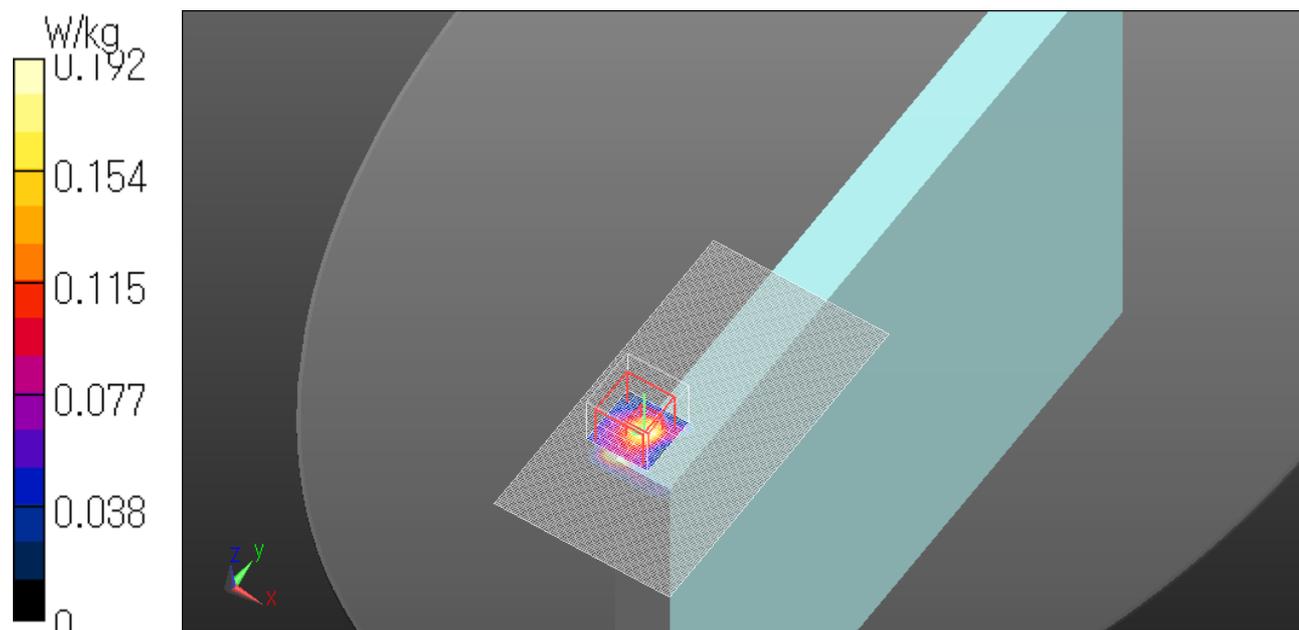
Peak SAR (extrapolated) = 0.362 W/kg

**SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.018 W/kg**

Maximum value of SAR (measured) = 0.192 W/kg

Date: 2017/04/03

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 5.8G Ant Main Edge3 11ac80 VHT0 0mm 5775MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 6.211$  S/m;  $\epsilon_r = 47.086$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.32, 4.32, 4.32); Calibrated: 2016/12/14;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2016/06/10

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (81x151x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.000947 W/kg

**Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.5440 V/m; Power Drift = -0.01 dB

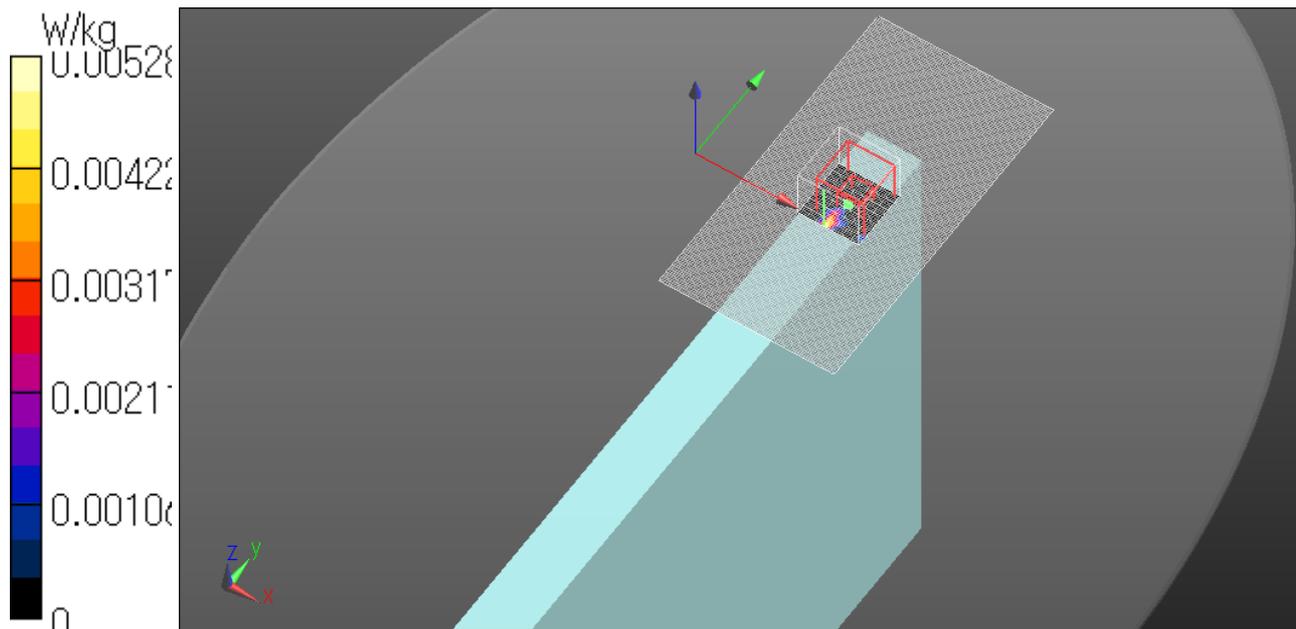
Peak SAR (extrapolated) = 0.00160 W/kg

**SAR(1 g) = 1.54e-005 W/kg; SAR(10 g) = 1.54e-006 W/kg**

Maximum value of SAR (measured) = 0.00528 W/kg

Date: 2017/04/03

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 5.8G Ant Main Edge4 11ac80 VHT0 0mm 5775MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 6.211$  S/m;  $\epsilon_r = 47.086$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.32, 4.32, 4.32); Calibrated: 2016/12/14;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2016/06/10

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (81x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.82 W/kg

**Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 19.24 V/m; Power Drift = -0.03 dB

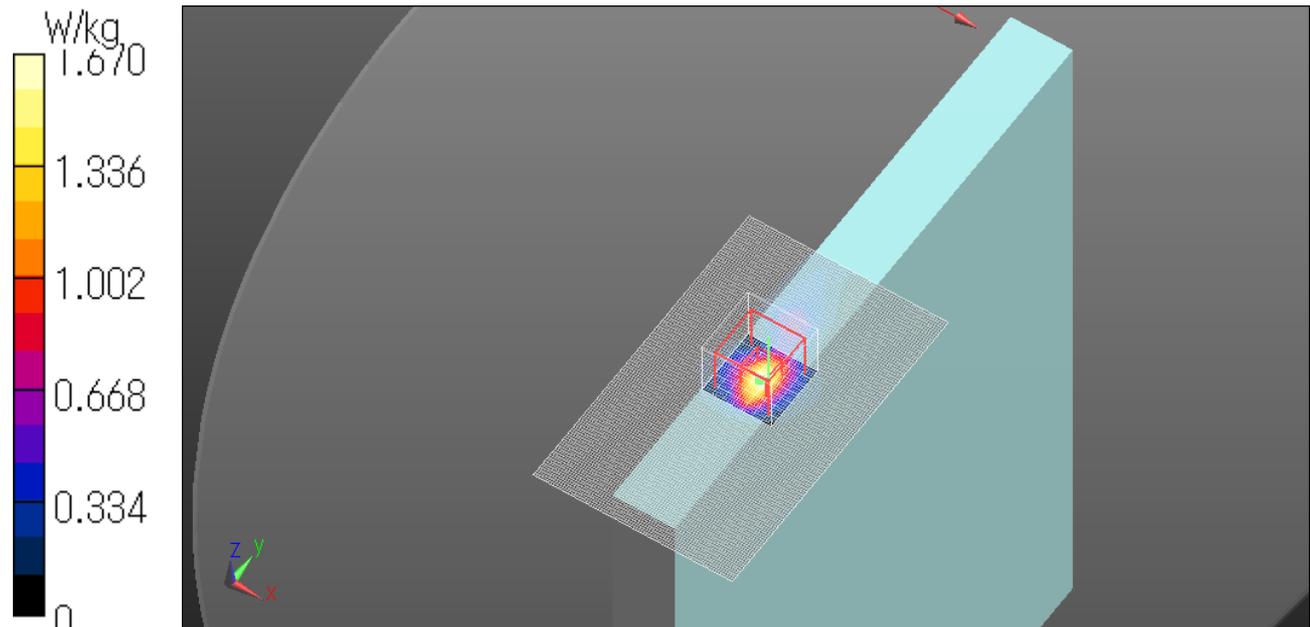
Peak SAR (extrapolated) = 3.07 W/kg

**SAR(1 g) = 0.674 W/kg; SAR(10 g) = 0.196 W/kg**

Maximum value of SAR (measured) = 1.67 W/kg

Date: 2017/04/03

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 5.8G Ant Main Edge4 tilt 11ac80 VHT0 0mm 5775MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 6.211$  S/m;  $\epsilon_r = 47.086$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.32, 4.32, 4.32); Calibrated: 2016/12/14;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2016/06/10

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (91x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.14 W/kg

**Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 21.09 V/m; Power Drift = 0.04 dB

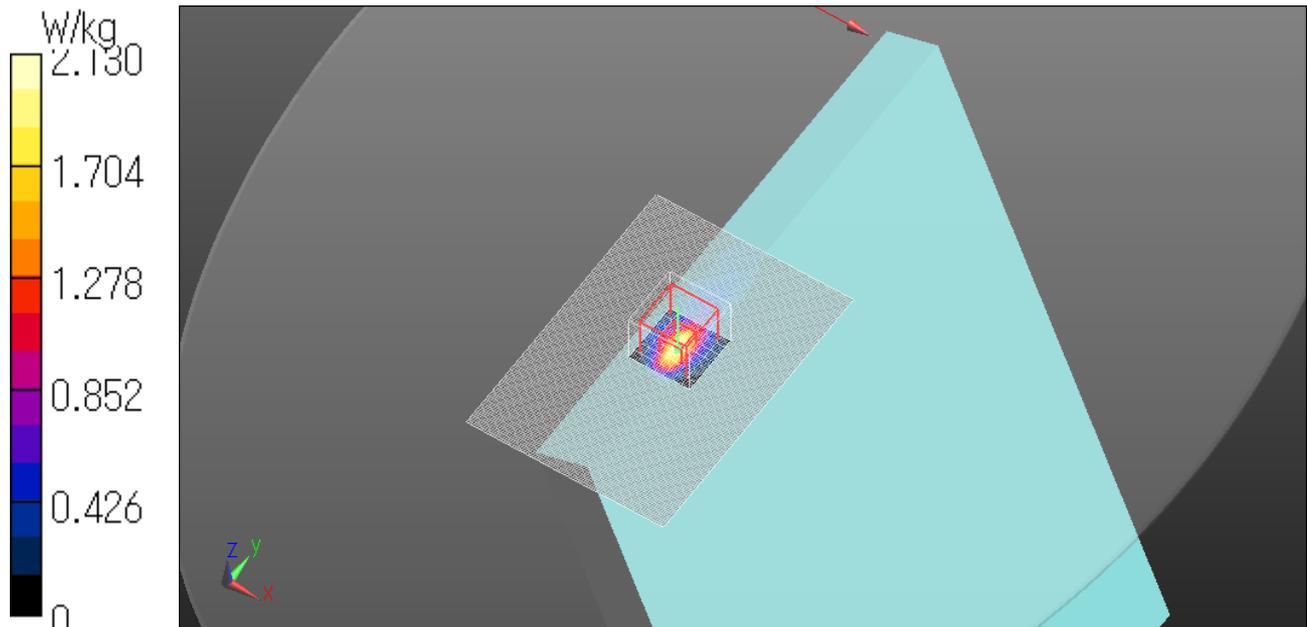
Peak SAR (extrapolated) = 3.72 W/kg

**SAR(1 g) = 0.788 W/kg; SAR(10 g) = 0.220 W/kg**

Maximum value of SAR (measured) = 2.13 W/kg

Date: 2017/04/03

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 5.8G Ant Main Rear 11ac80 VHT0 0mm 5775MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 6.211$  S/m;  $\epsilon_r = 47.086$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.32, 4.32, 4.32); Calibrated: 2016/12/14;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2016/06/10

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (151x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.483 W/kg

**Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 7.568 V/m; Power Drift = -0.02 dB

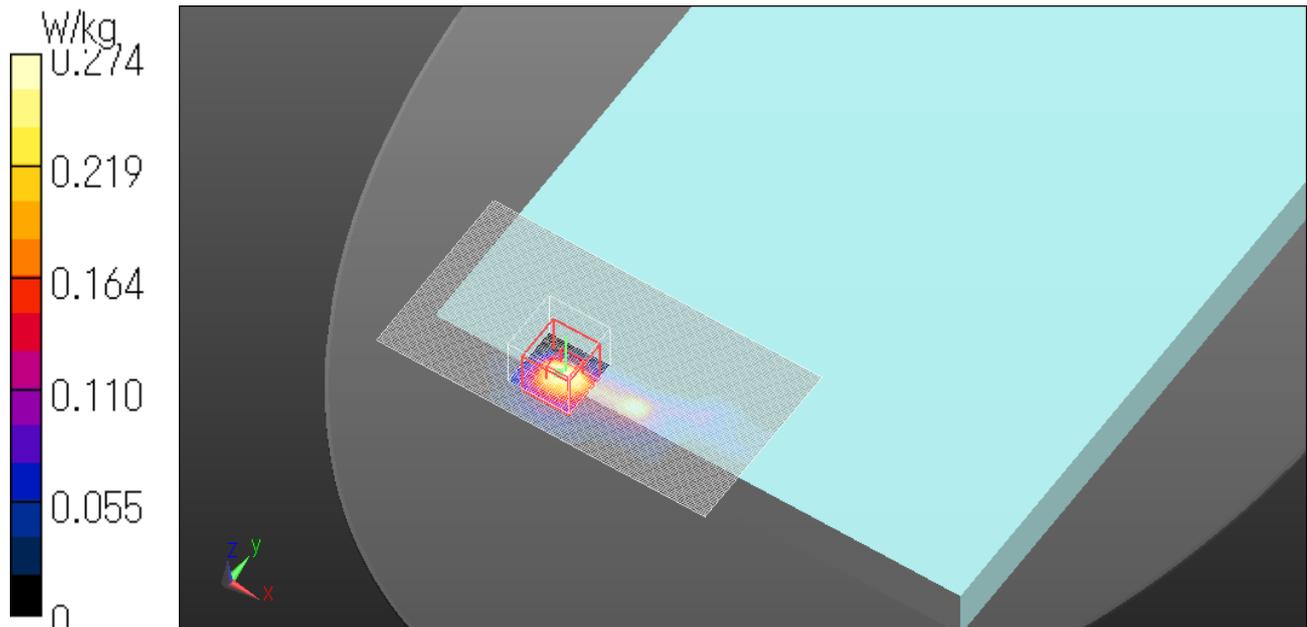
Peak SAR (extrapolated) = 0.968 W/kg

**SAR(1 g) = 0.110 W/kg; SAR(10 g) = 0.037 W/kg**

Maximum value of SAR (measured) = 0.274 W/kg

Date: 2017/04/03

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 5.8G Ant Aux Edge1 11ac80 VHT0 0mm 5775MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 6.211$  S/m;  $\epsilon_r = 47.086$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.32, 4.32, 4.32); Calibrated: 2016/12/14;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2016/06/10

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (81x151x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0307 W/kg

**Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.898 V/m; Power Drift = -0.04 dB

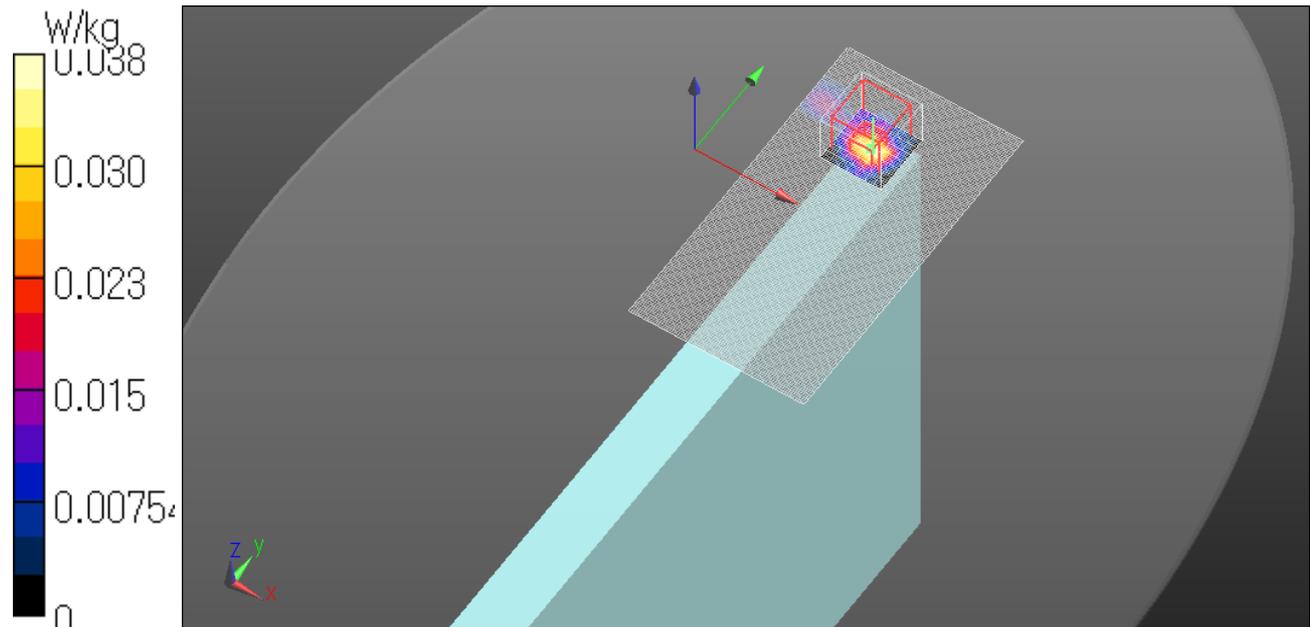
Peak SAR (extrapolated) = 0.0740 W/kg

**SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00327 W/kg**

Maximum value of SAR (measured) = 0.0377 W/kg

Date: 2017/04/03

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 5.8G Ant Aux Edge2 11ac80 VHT0 0mm 5775MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 6.211$  S/m;  $\epsilon_r = 47.086$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.32, 4.32, 4.32); Calibrated: 2016/12/14;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2016/06/10

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (81x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.54 W/kg

**Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 18.88 V/m; Power Drift = -0.08 dB

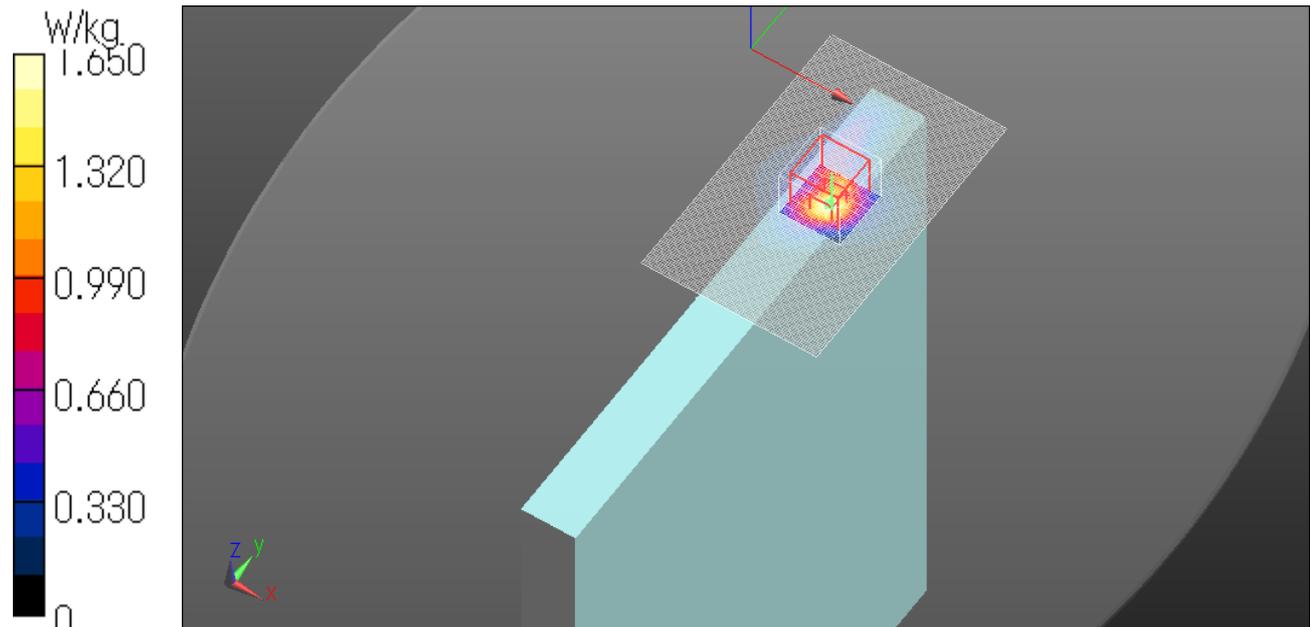
Peak SAR (extrapolated) = 3.03 W/kg

**SAR(1 g) = 0.665 W/kg; SAR(10 g) = 0.228 W/kg**

Maximum value of SAR (measured) = 1.65 W/kg

Date: 2017/04/03

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 5.8G Ant Aux Edge2 tilt 11ac80 VHT0 0mm 5775MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 6.211$  S/m;  $\epsilon_r = 47.086$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.32, 4.32, 4.32); Calibrated: 2016/12/14;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2016/06/10

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (81x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.62 W/kg

**Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 23.26 V/m; Power Drift = -0.14 dB

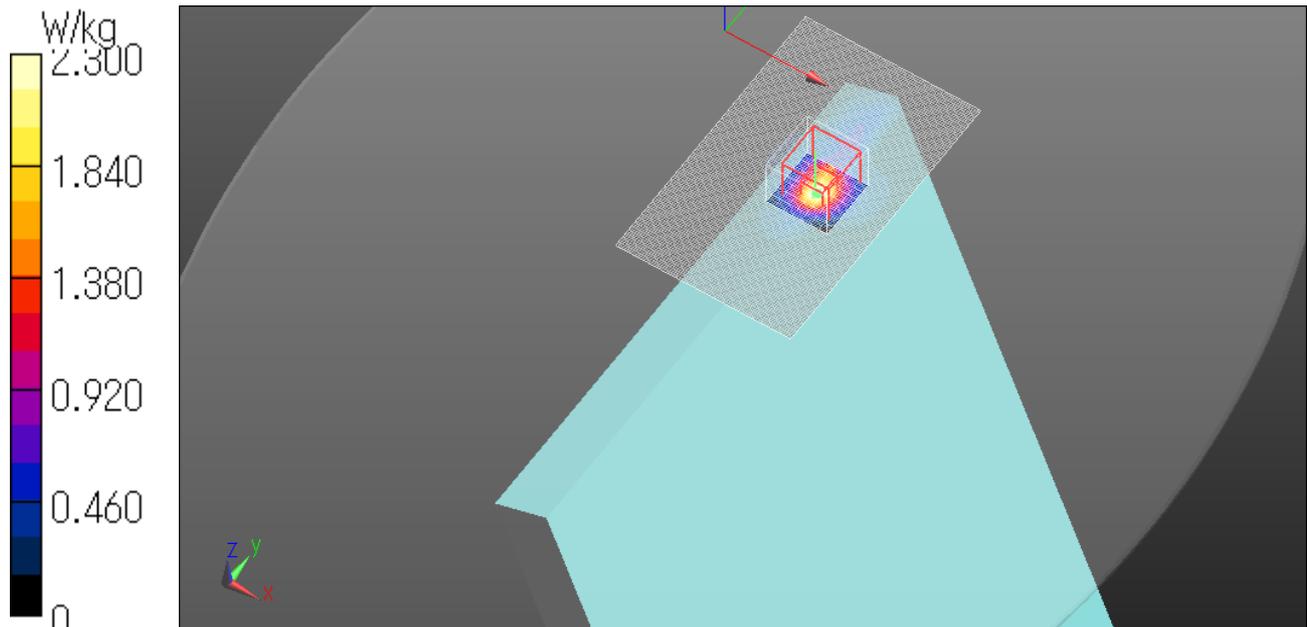
Peak SAR (extrapolated) = 4.56 W/kg

**SAR(1 g) = 0.941 W/kg; SAR(10 g) = 0.287 W/kg**

Maximum value of SAR (measured) = 2.30 W/kg

Date: 2017/04/03

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 5.8G Ant Aux Edge3 11ac80 VHT0 0mm 5775MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 6.211$  S/m;  $\epsilon_r = 47.086$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.32, 4.32, 4.32); Calibrated: 2016/12/14;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2016/06/10

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (81x151x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0822 W/kg

**Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 4.290 V/m; Power Drift = -0.09 dB

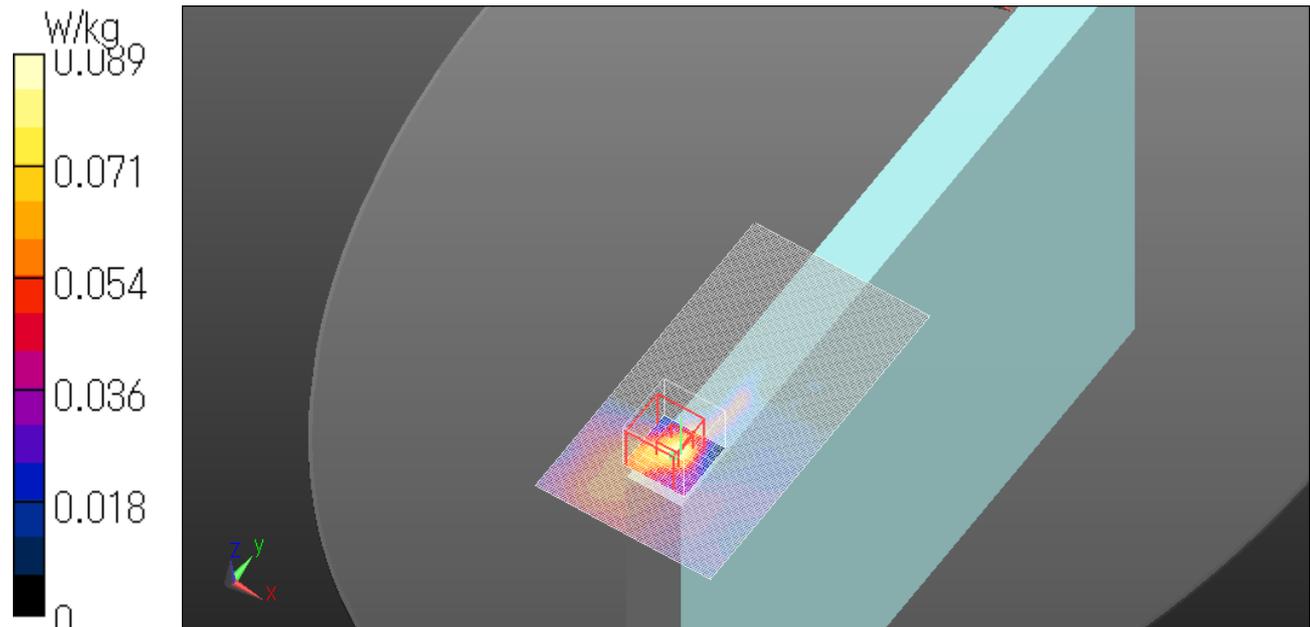
Peak SAR (extrapolated) = 0.182 W/kg

**SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.00979 W/kg**

Maximum value of SAR (measured) = 0.0892 W/kg

Date: 2017/04/03

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



**WLAN 5.8G Ant Aux Rear 11ac80 VHT0 0mm 5775MHz**

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5775$  MHz;  $\sigma = 6.211$  S/m;  $\epsilon_r = 47.086$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.32, 4.32, 4.32); Calibrated: 2016/12/14;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2016/06/10

Phantom: ELI v5.0 TP1207 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1207

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (151x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.342 W/kg

**Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 8.475 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.580 W/kg

**SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.047 W/kg**

Maximum value of SAR (measured) = 0.328 W/kg

Date: 2017/04/03

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.

