

15.4 SAR test plots for WLAN 5.5GHz band

WLAN 5.5G Ant Main Edge1 11ac80 VHT0 0mm 5530MHz

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5530$ MHz; $\sigma = 5.828$ S/m; $\epsilon_r = 47.267$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.16, 4.16, 4.16); 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) = 0.243 W/kg

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

Reference Value = 6.713 V/m; Power Drift = -0.00 dB

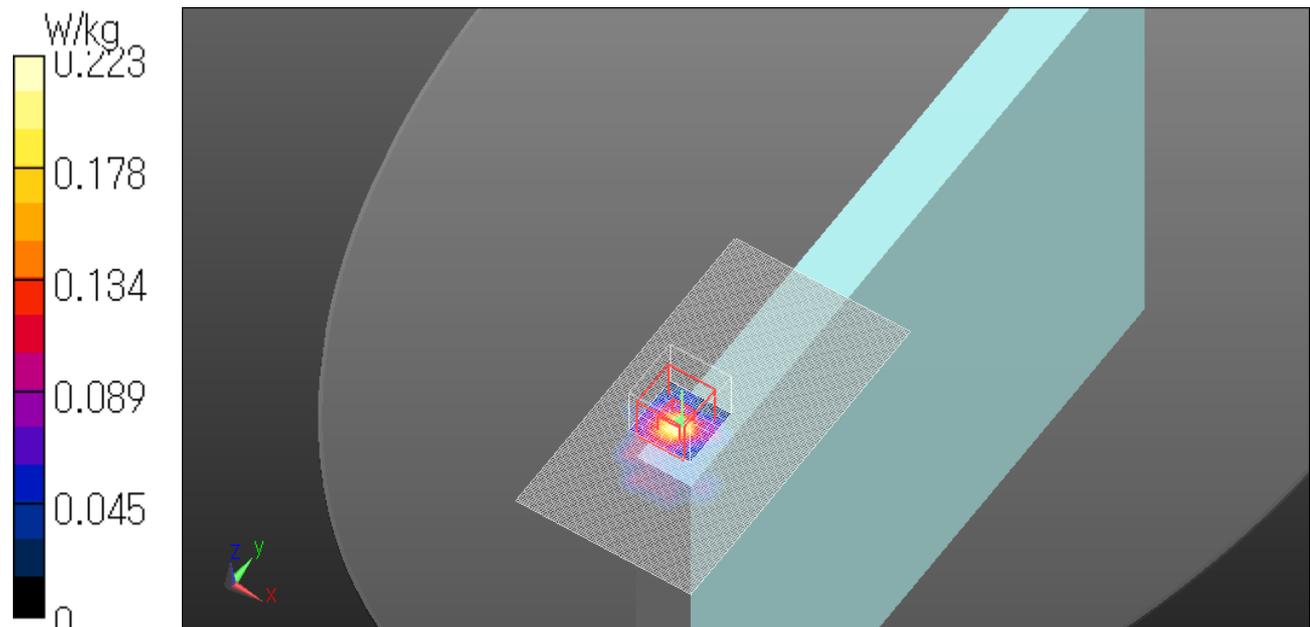
Peak SAR (extrapolated) = 0.359 W/kg

SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.022 W/kg

Maximum value of SAR (measured) = 0.223 W/kg

Date: 2017/03/30

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



WLAN 5.5G Ant Main Edge3 11ac80 VHT0 0mm 5530MHz

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5530$ MHz; $\sigma = 5.828$ S/m; $\epsilon_r = 47.267$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.16, 4.16, 4.16); 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

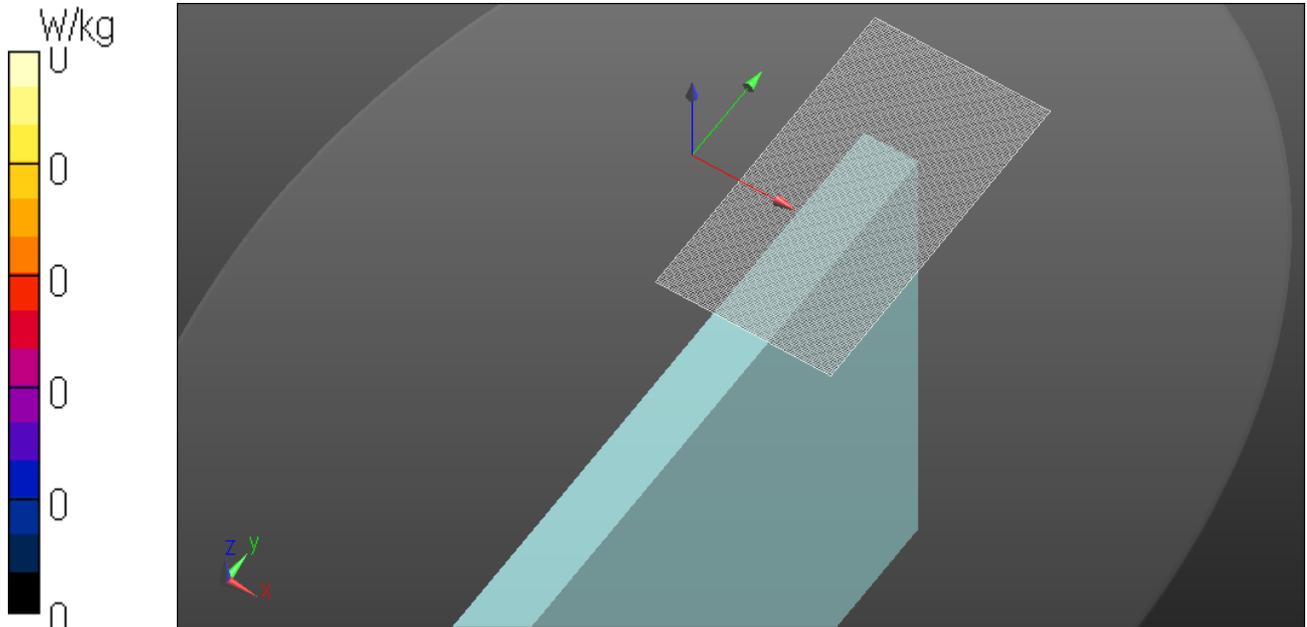
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0 W/kg

Date: 2017/03/30

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



WLAN 5.5G Ant Main Edge4 11ac80 VHT0 0mm 5530MHz

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5530 \text{ MHz}$; $\sigma = 5.828 \text{ S/m}$; $\epsilon_r = 47.267$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.16, 4.16, 4.16); 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: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 1.36 W/kg

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

Reference Value = 17.22 V/m; Power Drift = -0.11 dB

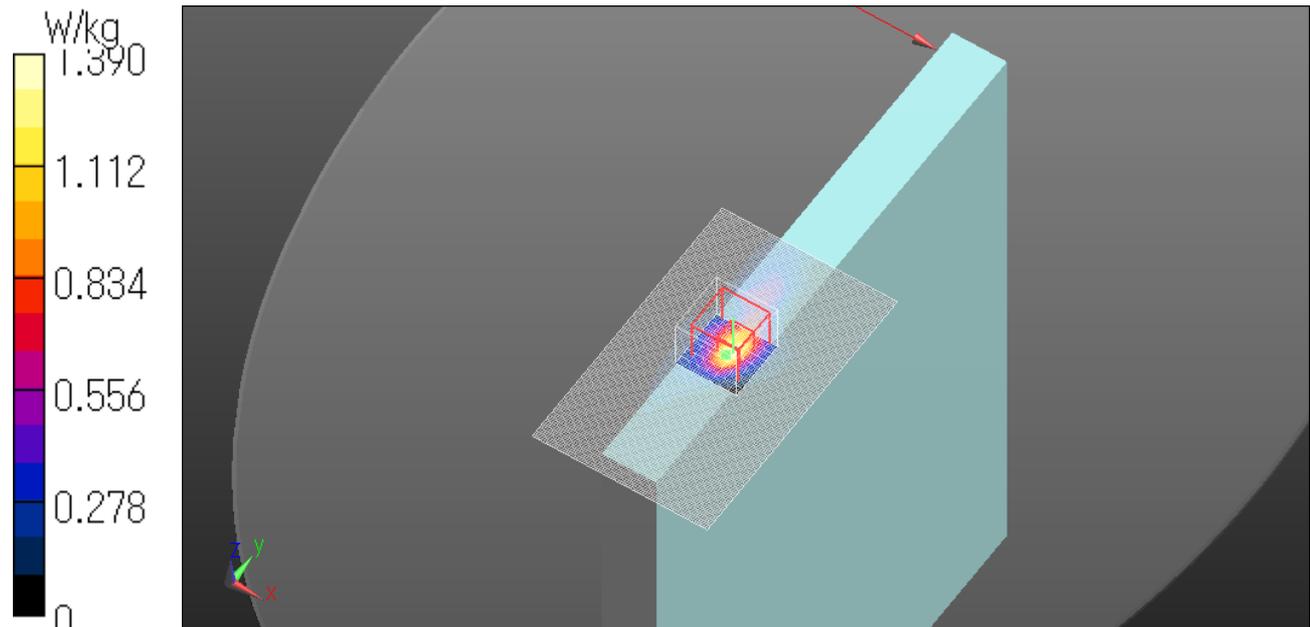
Peak SAR (extrapolated) = 2.39 W/kg

SAR(1 g) = 0.567 W/kg; SAR(10 g) = 0.176 W/kg

Maximum value of SAR (measured) = 1.39 W/kg

Date: 2017/03/30

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



WLAN 5.5G Ant Main Edge4 tilt 11ac80 VHT0 0mm 5530MHz

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5530 \text{ MHz}$; $\sigma = 5.828 \text{ S/m}$; $\epsilon_r = 47.267$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.16, 4.16, 4.16); 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: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 1.78 W/kg

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

Reference Value = 20.82 V/m; Power Drift = 0.16 dB

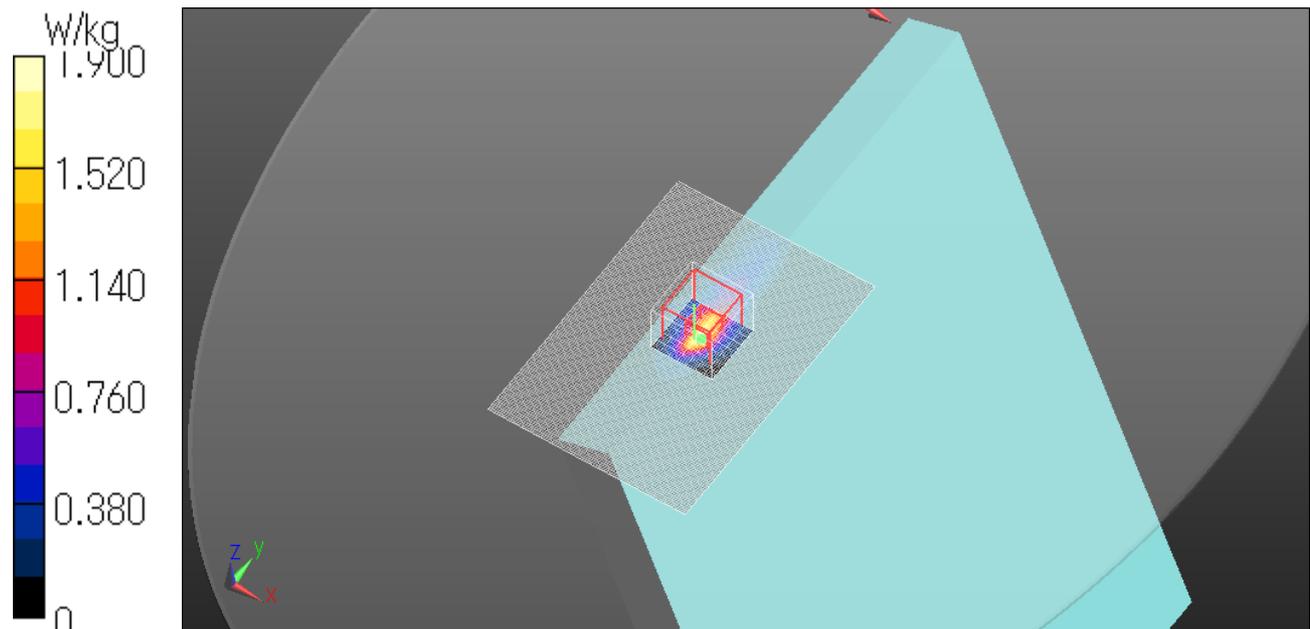
Peak SAR (extrapolated) = 3.60 W/kg

SAR(1 g) = 0.690 W/kg; SAR(10 g) = 0.198 W/kg

Maximum value of SAR (measured) = 1.90 W/kg

Date: 2017/03/30

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



WLAN 5.5G Ant Main Rear 11ac80 VHT0 0mm 5530MHz

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5530$ MHz; $\sigma = 5.828$ S/m; $\epsilon_r = 47.267$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.16, 4.16, 4.16); 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) = 0.245 W/kg

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

Reference Value = 6.665 V/m; Power Drift = -0.17 dB

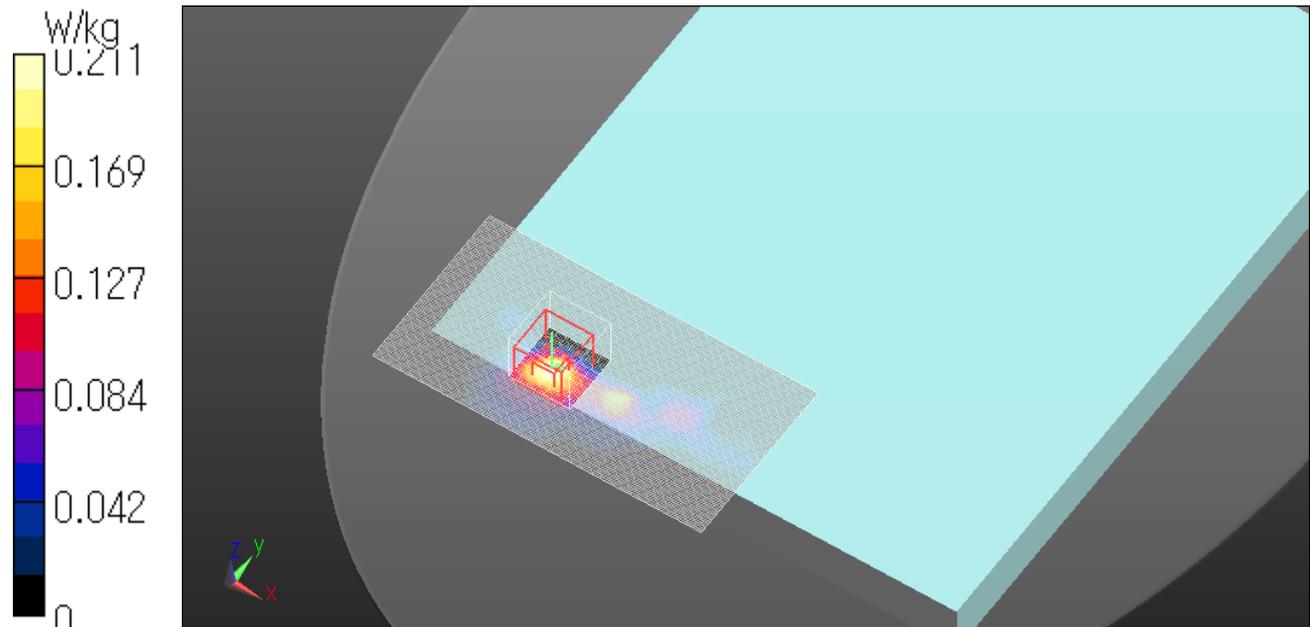
Peak SAR (extrapolated) = 0.353 W/kg

SAR(1 g) = 0.086 W/kg; SAR(10 g) = 0.027 W/kg

Maximum value of SAR (measured) = 0.211 W/kg

Date: 2017/03/30

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



WLAN 5.5G Ant Aux Edge1 11ac80 VHT0 0mm 5530MHz

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5530 \text{ MHz}$; $\sigma = 5.828 \text{ S/m}$; $\epsilon_r = 47.267$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.16, 4.16, 4.16); 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: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0496 W/kg

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

Reference Value = 3.431 V/m; Power Drift = -0.06 dB

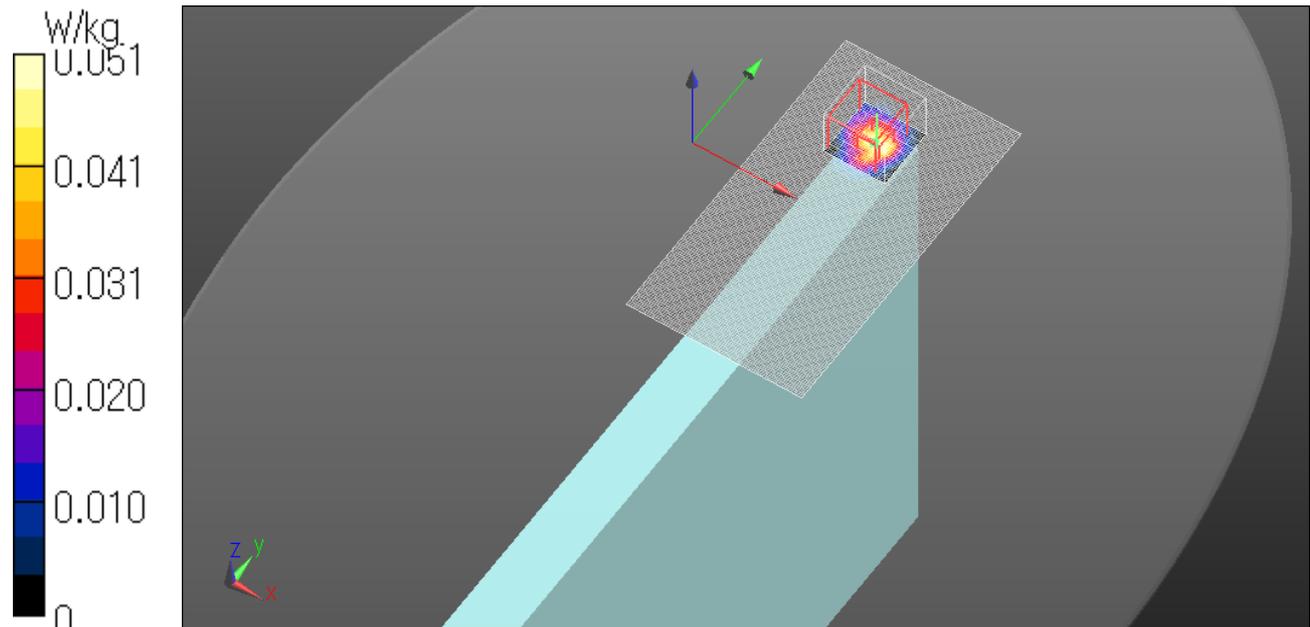
Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00463 W/kg

Maximum value of SAR (measured) = 0.0510 W/kg

Date: 2017/03/30

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



WLAN 5.5G Ant Aux Edge2 11ac80 VHT0 0mm 5530MHz

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5530 \text{ MHz}$; $\sigma = 5.828 \text{ S/m}$; $\epsilon_r = 47.267$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.16, 4.16, 4.16); 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: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 2.40 W/kg

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

Reference Value = 23.59 V/m; Power Drift = -0.16 dB

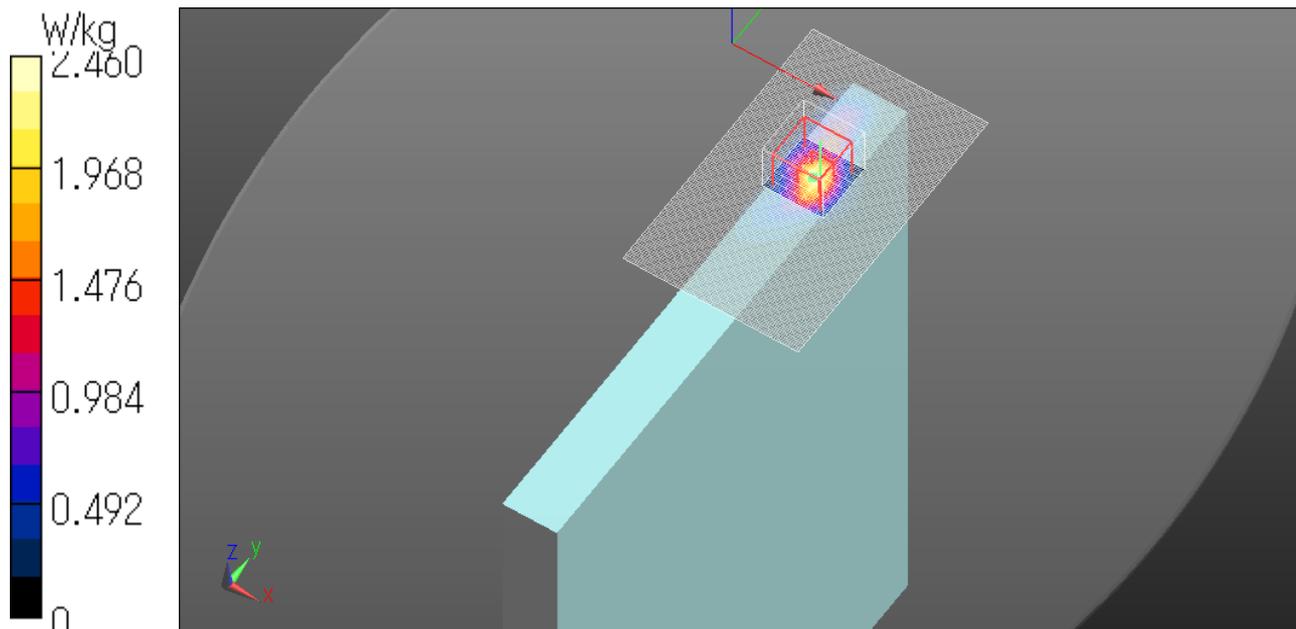
Peak SAR (extrapolated) = 4.76 W/kg

SAR(1 g) = 1.000 W/kg; SAR(10 g) = 0.311 W/kg

Maximum value of SAR (measured) = 2.46 W/kg

Date: 2017/03/30

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



WLAN 5.5G Ant Aux Edge2 11ac80 VHT0 0mm 5690MHz

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5690 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 6.011 \text{ S/m}$; $\epsilon_r = 46.692$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.16, 4.16, 4.16); 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: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 1.50 W/kg

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

Reference Value = 19.23 V/m; Power Drift = 0.02 dB

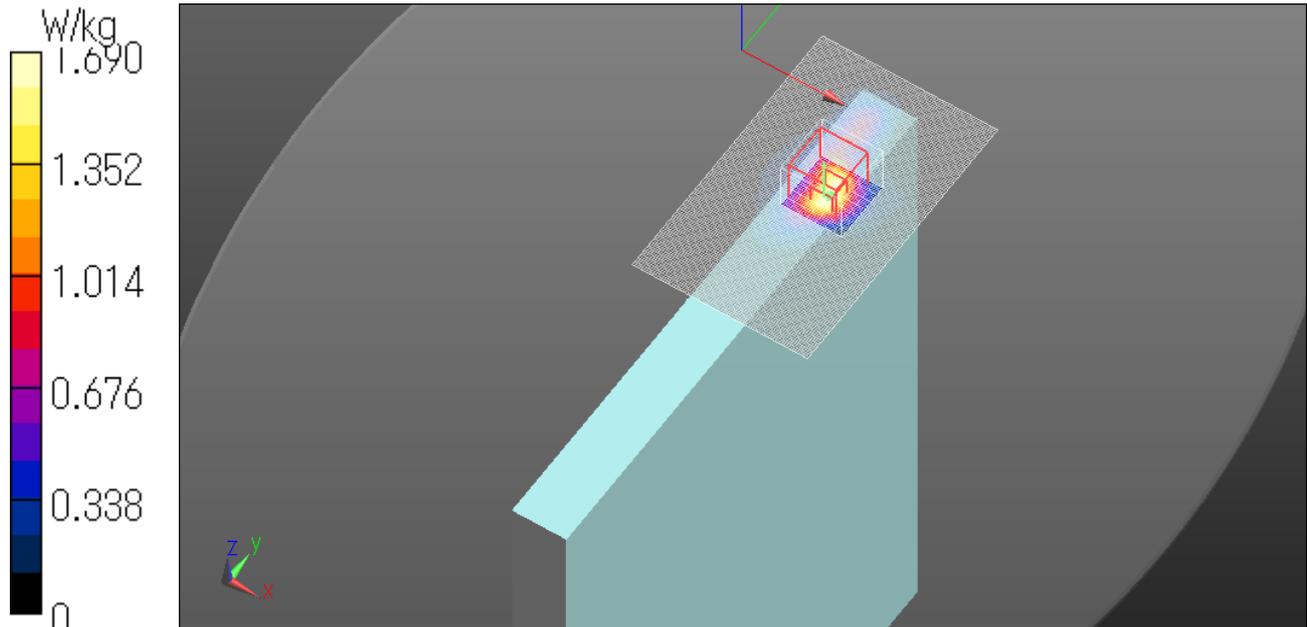
Peak SAR (extrapolated) = 3.92 W/kg

SAR(1 g) = 0.712 W/kg; SAR(10 g) = 0.253 W/kg

Maximum value of SAR (measured) = 1.69 W/kg

Date: 2017/03/30

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



WLAN 5.5G Ant Aux Edge2 tilt 11ac80 VHT0 0mm 5530MHz

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5530 \text{ MHz}$; $\sigma = 5.828 \text{ S/m}$; $\epsilon_r = 47.267$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.16, 4.16, 4.16); 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: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 3.00 W/kg

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

Reference Value = 25.06 V/m ; Power Drift = -0.06 dB

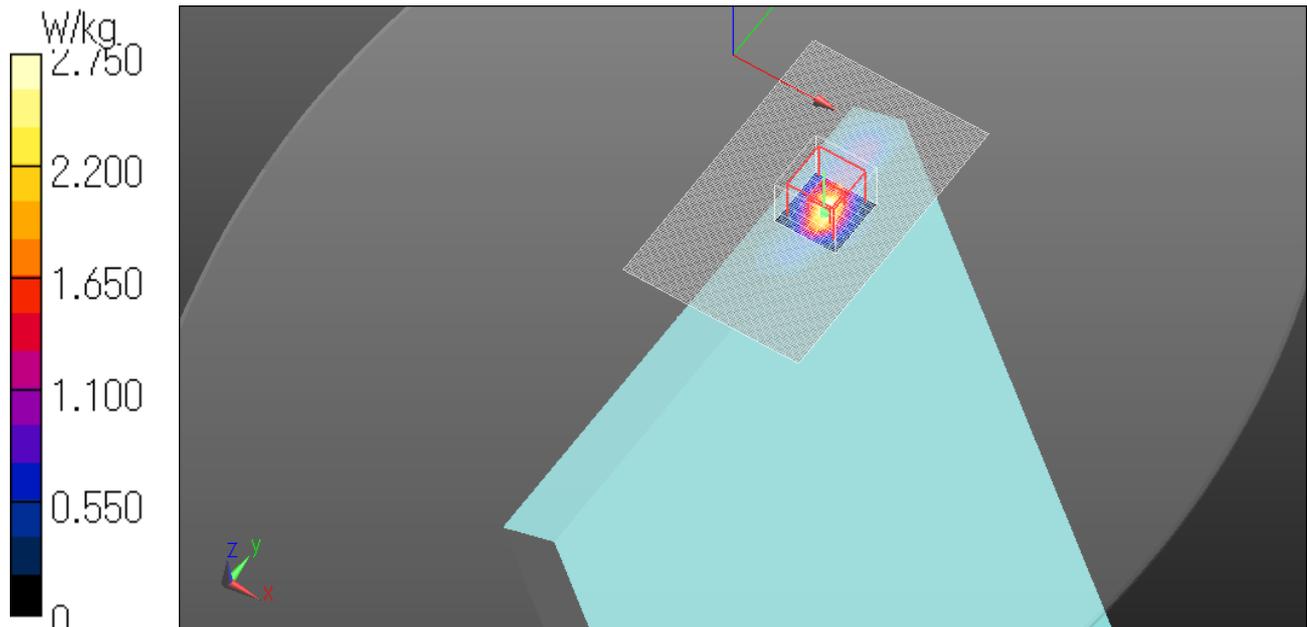
Peak SAR (extrapolated) = 5.77 W/kg

SAR(1 g) = 1.12 W/kg ; SAR(10 g) = 0.339 W/kg

Maximum value of SAR (measured) = 2.75 W/kg

Date: 2017/03/30

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



WLAN 5.5G Ant Aux Edge2 tilt 11ac80 VHT0 0mm 5690MHz

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5690 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5690$ MHz; $\sigma = 6.011$ S/m; $\epsilon_r = 46.692$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.16, 4.16, 4.16); 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) = 2.43 W/kg

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

Reference Value = 22.32 V/m; Power Drift = -0.06 dB

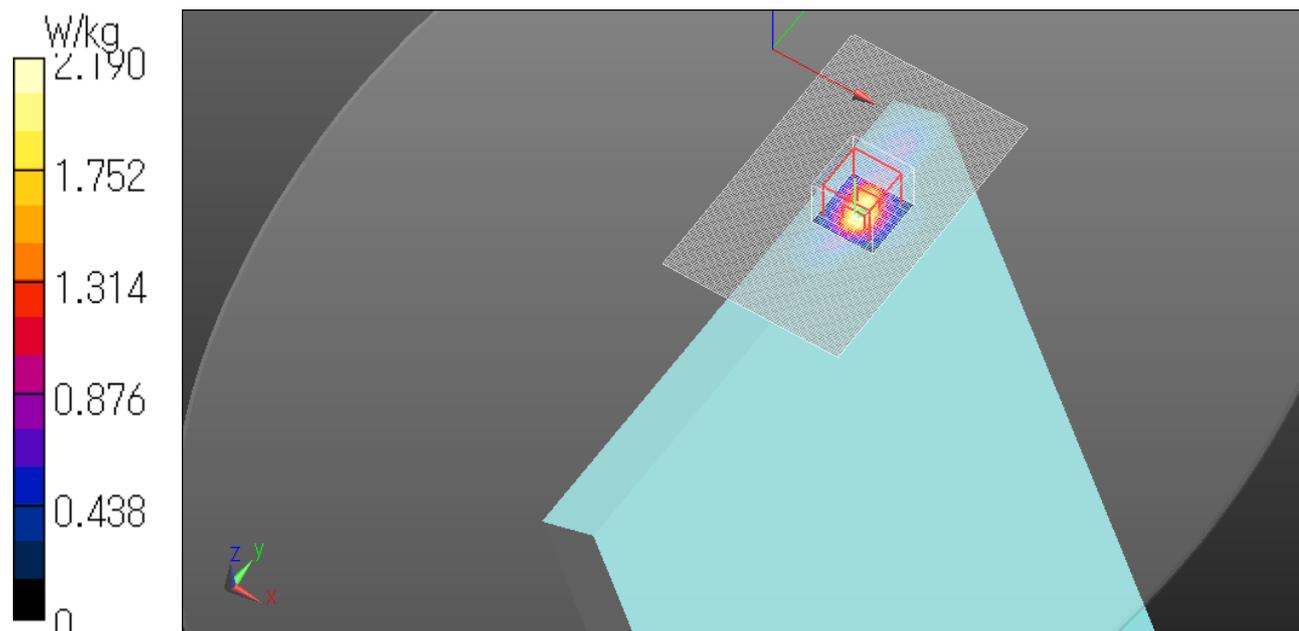
Peak SAR (extrapolated) = 4.09 W/kg

SAR(1 g) = 0.907 W/kg; SAR(10 g) = 0.288 W/kg

Maximum value of SAR (measured) = 2.19 W/kg

Date: 2017/03/30

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



WLAN 5.5G Ant Aux Edge3 11ac80 VHT0 0mm 5530MHz

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5530$ MHz; $\sigma = 5.828$ S/m; $\epsilon_r = 47.267$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.16, 4.16, 4.16); 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) = 0.221 W/kg

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

Reference Value = 7.007 V/m; Power Drift = -0.09 dB

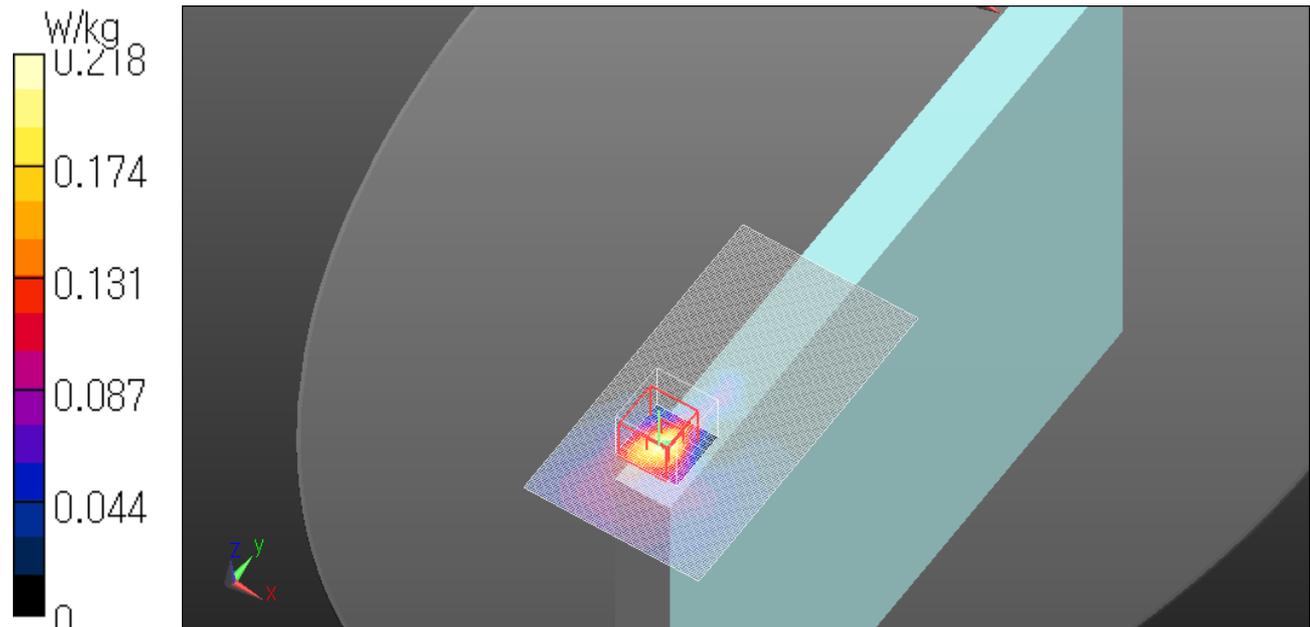
Peak SAR (extrapolated) = 0.502 W/kg

SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.026 W/kg

Maximum value of SAR (measured) = 0.218 W/kg

Date: 2017/03/30

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



WLAN 5.5G Ant Aux Rear 11ac80 VHT0 0mm 5530MHz

Communication System: UID 0, WLAN (0); Communication System Band: 11ac80; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5530 \text{ MHz}$; $\sigma = 5.828 \text{ S/m}$; $\epsilon_r = 47.267$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.16, 4.16, 4.16); 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: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.339 W/kg

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

Reference Value = 8.709 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.659 W/kg

SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.047 W/kg

Maximum value of SAR (measured) = 0.326 W/kg

Date: 2017/03/30

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

