

### 17.3 SAR test plots for WCDMA Band 4

#### WCDMA Band4 Edge1 0mm RMC12.2k 1712.4MHz power reduction

Communication System: UID 0, WCDMA (0); Communication System Band: Band IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.427$  S/m;  $\epsilon_r = 53.001$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN7372; ConvF(8.06, 8.06, 8.06); Calibrated: 2017/04/20;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

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 (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.16 W/kg

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

Reference Value = 29.63 V/m; Power Drift = -0.19 dB

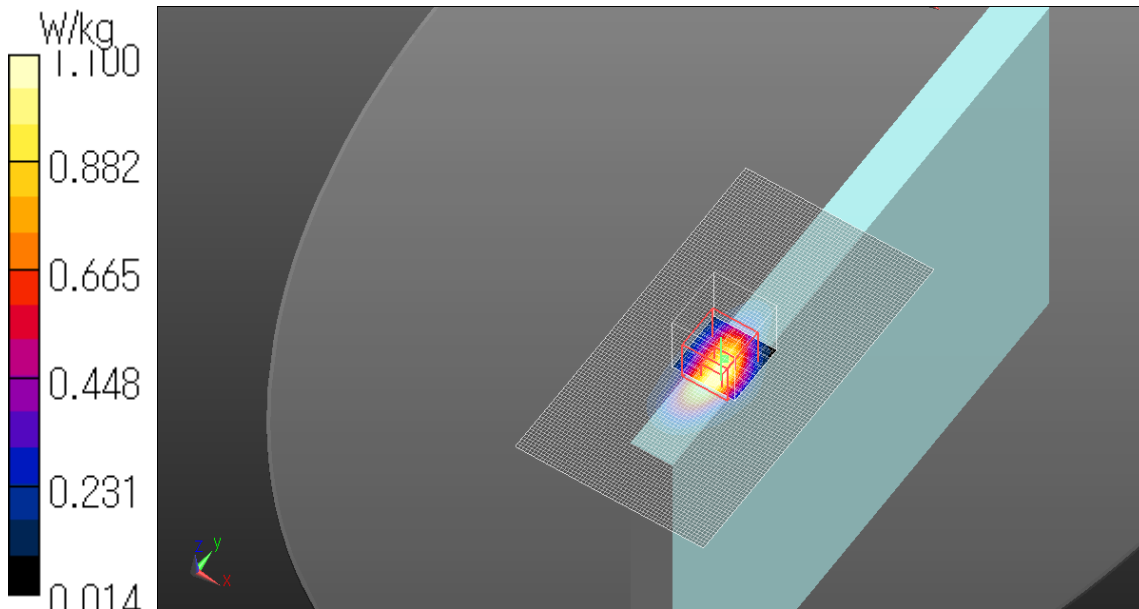
Peak SAR (extrapolated) = 1.56 W/kg

**SAR(1 g) = 0.774 W/kg; SAR(10 g) = 0.389 W/kg**

Maximum value of SAR (measured) = 1.10 W/kg

Date: 2017/10/20

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



**WCDMA Band4 Edge1 0mm RMC12.2k 1732.6MHz power reduction**

Communication System: UID 0, WCDMA (0); Communication System Band: Band IV; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.6$  MHz;  $\sigma = 1.449$  S/m;  $\epsilon_r = 52.937$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN7372; ConvF(8.06, 8.06, 8.06); Calibrated: 2017/04/20;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

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

Measurement SW: DASYS5, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.24 W/kg

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

Reference Value = 31.06 V/m; Power Drift = -0.16 dB

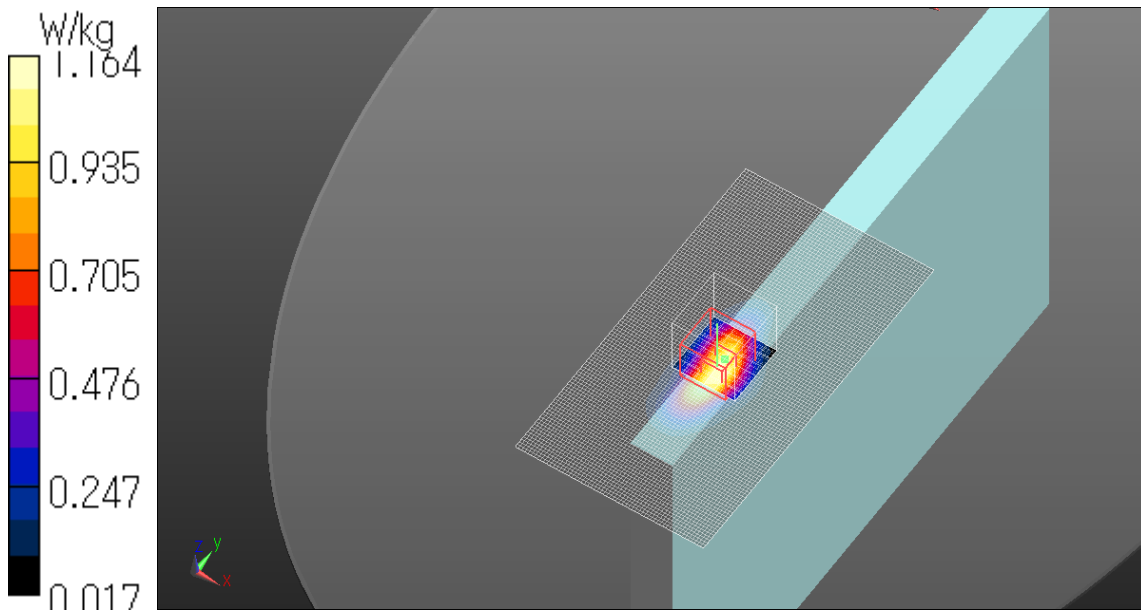
Peak SAR (extrapolated) = 1.61 W/kg

**SAR(1 g) = 0.817 W/kg; SAR(10 g) = 0.413 W/kg**

Maximum value of SAR (measured) = 1.16 W/kg

Date: 2017/10/20

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



**WCDMA Band4 Edge1 0mm RMC12.2k 1752.6MHz power reduction**

Communication System: UID 0, WCDMA (0); Communication System Band: Band IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1752.6$  MHz;  $\sigma = 1.47$  S/m;  $\epsilon_r = 52.851$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN7372; ConvF(8.06, 8.06, 8.06); Calibrated: 2017/04/20;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

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 (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.28 W/kg

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

Reference Value = 31.24 V/m; Power Drift = -0.11 dB

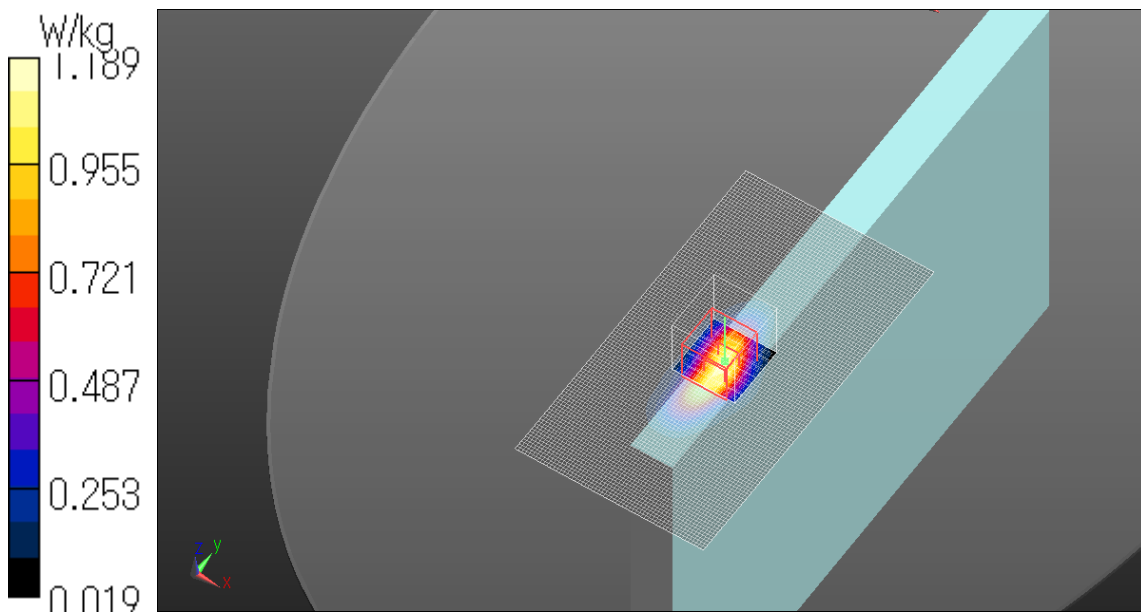
Peak SAR (extrapolated) = 1.59 W/kg

**SAR(1 g) = 0.820 W/kg; SAR(10 g) = 0.413 W/kg**

Maximum value of SAR (measured) = 1.19 W/kg

Date: 2017/10/20

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



**WCDMA Band4 Edge1 convertible 0mm RMC12.2k 1712.4MHz power reduction**

Communication System: UID 0, WCDMA (0); Communication System Band: Band IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.427$  S/m;  $\epsilon_r = 53.001$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN7372; ConvF(8.06, 8.06, 8.06); Calibrated: 2017/04/20;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

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 (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.00 W/kg

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

Reference Value = 28.18 V/m; Power Drift = -0.19 dB

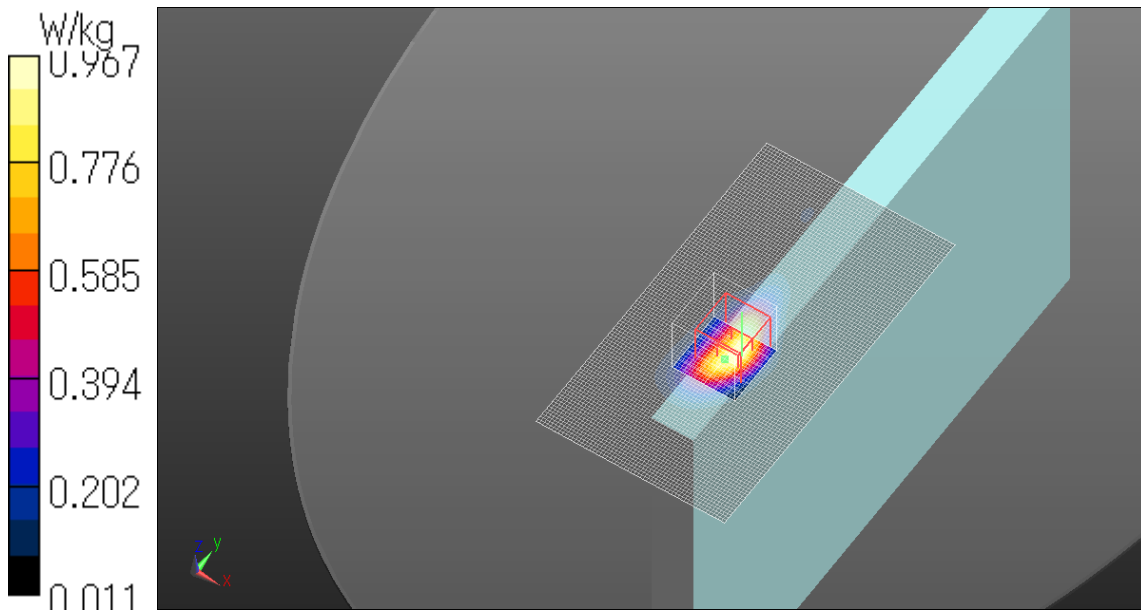
Peak SAR (extrapolated) = 1.37 W/kg

**SAR(1 g) = 0.671 W/kg; SAR(10 g) = 0.336 W/kg**

Maximum value of SAR (measured) = 0.967 W/kg

Date: 2017/10/20

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



**WCDMA Band4 Rear 0mm RMC12.2k 1712.4MHz power reduction**

Communication System: UID 0, WCDMA (0); Communication System Band: Band IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.427$  S/m;  $\epsilon_r = 53.001$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN7372; ConvF(8.06, 8.06, 8.06); Calibrated: 2017/04/20;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

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

Measurement SW: DASYS5, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.437 W/kg

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

Reference Value = 19.37 V/m; Power Drift = 0.02 dB

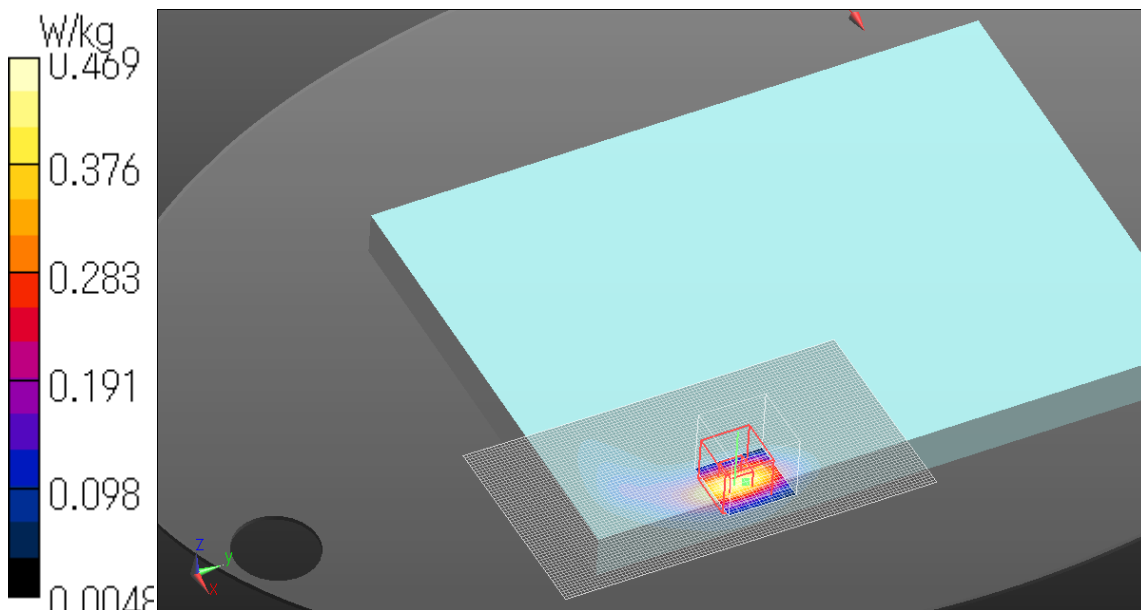
Peak SAR (extrapolated) = 0.634 W/kg

**SAR(1 g) = 0.354 W/kg; SAR(10 g) = 0.186 W/kg**

Maximum value of SAR (measured) = 0.469 W/kg

Date: 2017/10/20

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



**WCDMA Band4 Edge1 24mm RMC12.2k 1712.4MHz**

Communication System: UID 0, WCDMA (0); Communication System Band: Band IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.427$  S/m;  $\epsilon_r = 53.001$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN7372; ConvF(8.06, 8.06, 8.06); Calibrated: 2017/04/20;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

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

Measurement SW: DASYS5, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.580 W/kg

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

Reference Value = 21.53 V/m; Power Drift = 0.00 dB

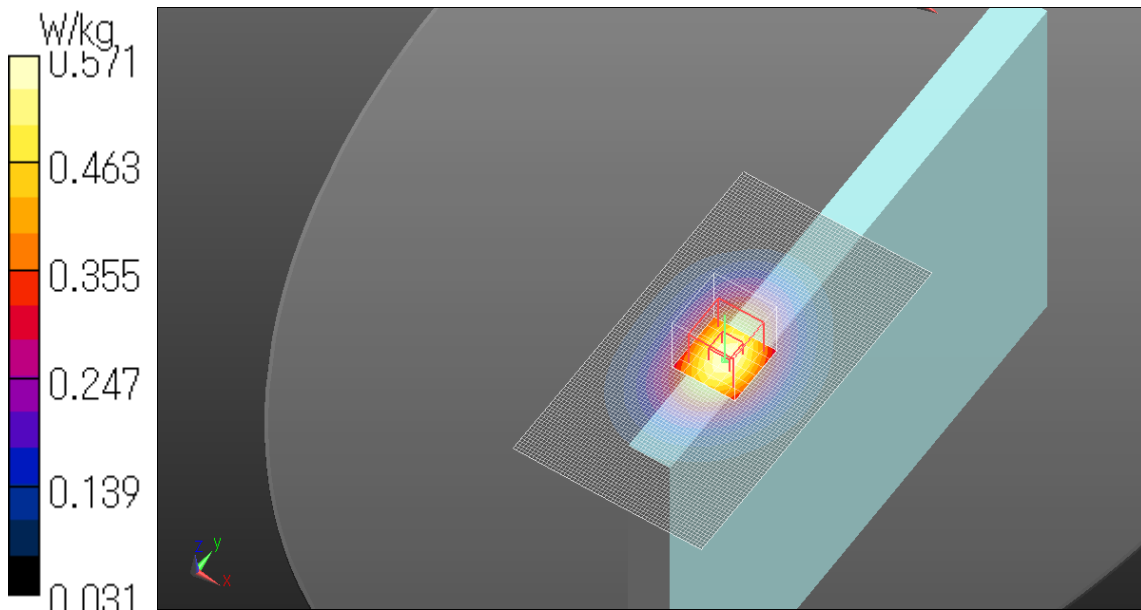
Peak SAR (extrapolated) = 0.672 W/kg

**SAR(1 g) = 0.452 W/kg; SAR(10 g) = 0.291 W/kg**

Maximum value of SAR (measured) = 0.571 W/kg

Date: 2017/10/20

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



**WCDMA Band4 Edge4 0mm RMC12.2k 1712.4MHz**

Communication System: UID 0, WCDMA (0); Communication System Band: Band IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.427$  S/m;  $\epsilon_r = 53.001$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN7372; ConvF(8.06, 8.06, 8.06); Calibrated: 2017/04/20;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1372; Calibrated: 2017/06/13

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

Measurement SW: DASYS5, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.767 W/kg

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

Reference Value = 24.62 V/m; Power Drift = -0.01 dB

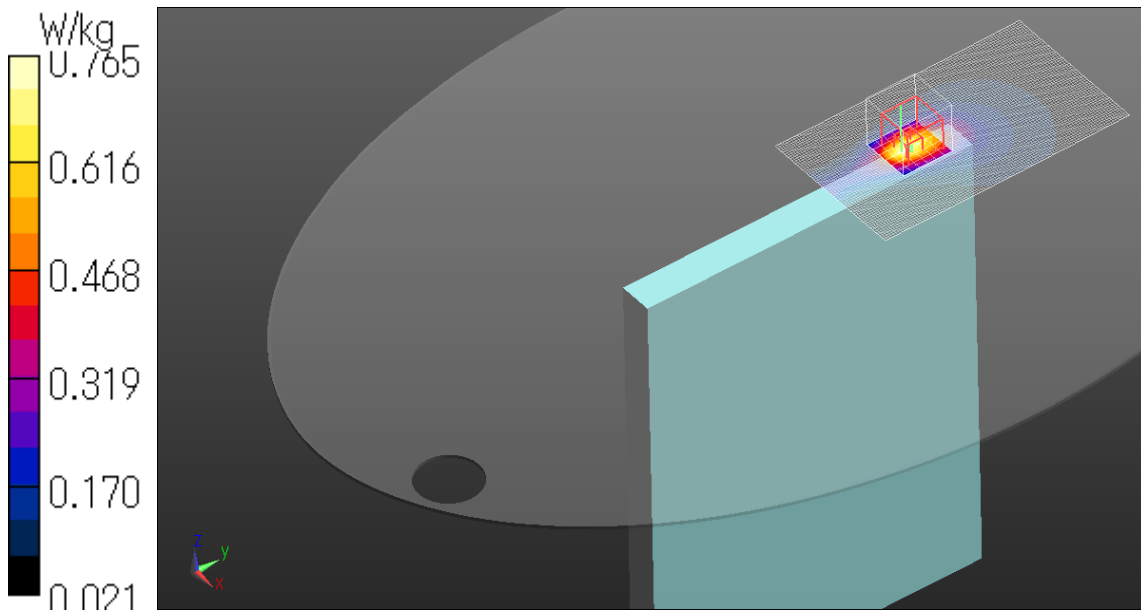
Peak SAR (extrapolated) = 0.979 W/kg

**SAR(1 g) = 0.542 W/kg; SAR(10 g) = 0.304 W/kg**

Maximum value of SAR (measured) = 0.765 W/kg

Date: 2017/10/20

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



**WCDMA Band4 Rear 19mm RMC12.2k 1712.4MHz**

Communication System: UID 0, WCDMA (0); Communication System Band: Band IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.427$  S/m;  $\epsilon_r = 53.001$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)  
DASY5 Configuration  
Probe: EX3DV4 - SN7372; ConvF(8.06, 8.06, 8.06); Calibrated: 2017/04/20;  
Sensor-Surface: 2mm (Mechanical Surface Detection)  
Electronics: DAE4 Sn1372; Calibrated: 2017/06/13  
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 (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.393 W/kg

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

Reference Value = 17.74 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.460 W/kg

**SAR(1 g) = 0.310 W/kg; SAR(10 g) = 0.198 W/kg**

Maximum value of SAR (measured) = 0.389 W/kg

Date: 2017/10/20

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

