

17.3 SAR test plots for WCDMA Band4

WCDMA Band4 12.2kRMC 1712.4MHz Edge1 0mm 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; $\sigma = 1.469$ S/m; $\epsilon_r = 51.301$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.9, 7.9, 7.9); Calibrated: 2016/05/12;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2016/05/13

Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1203

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

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.73 W/kg

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

Reference Value = 33.49 V/m; Power Drift = -0.11 dB

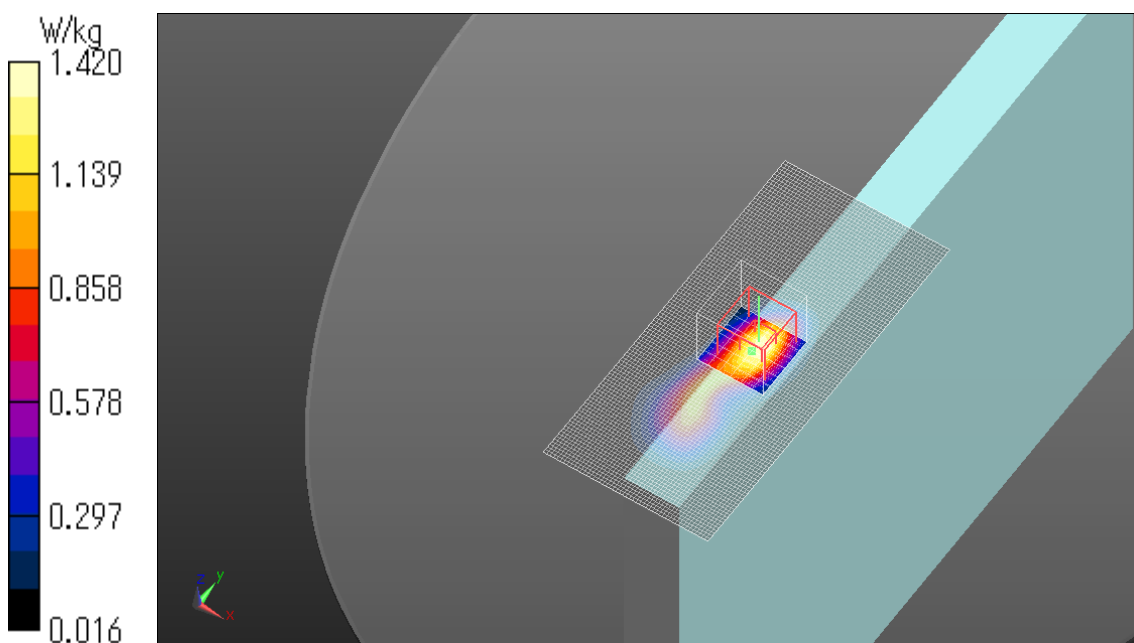
Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.518 W/kg

Maximum value of SAR (measured) = 1.42 W/kg

Date: 2017/01/16

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



WCDMA Band4 12.2kRMC 1732.6MHz Edge1 0mm 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; $\sigma = 1.492$ S/m; $\epsilon_r = 51.207$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.9, 7.9, 7.9); Calibrated: 2016/05/12;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2016/05/13

Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1203

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

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.68 W/kg

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

Reference Value = 32.29 V/m; Power Drift = -0.11 dB

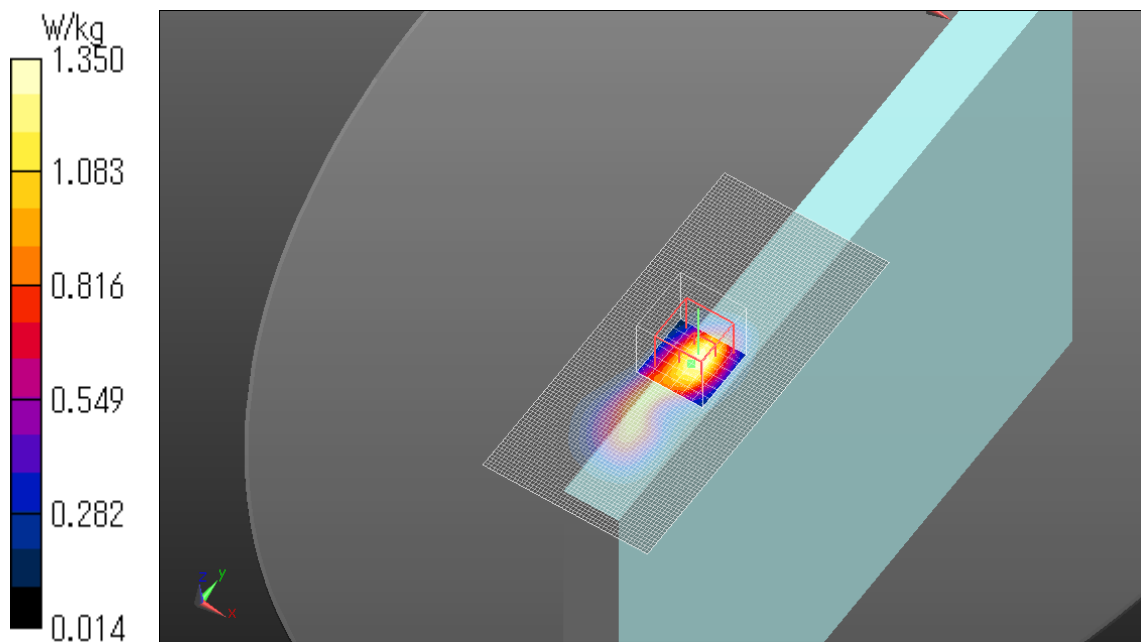
Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.963 W/kg; SAR(10 g) = 0.492 W/kg

Maximum value of SAR (measured) = 1.35 W/kg

Date: 2017/01/16

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



WCDMA Band4 12.2kRMC 1752.6MHz Edge1 0mm 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; $\sigma = 1.514$ S/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.9, 7.9, 7.9); Calibrated: 2016/05/12;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2016/05/13

Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1203

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

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

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

Reference Value = 31.99 V/m; Power Drift = -0.10 dB

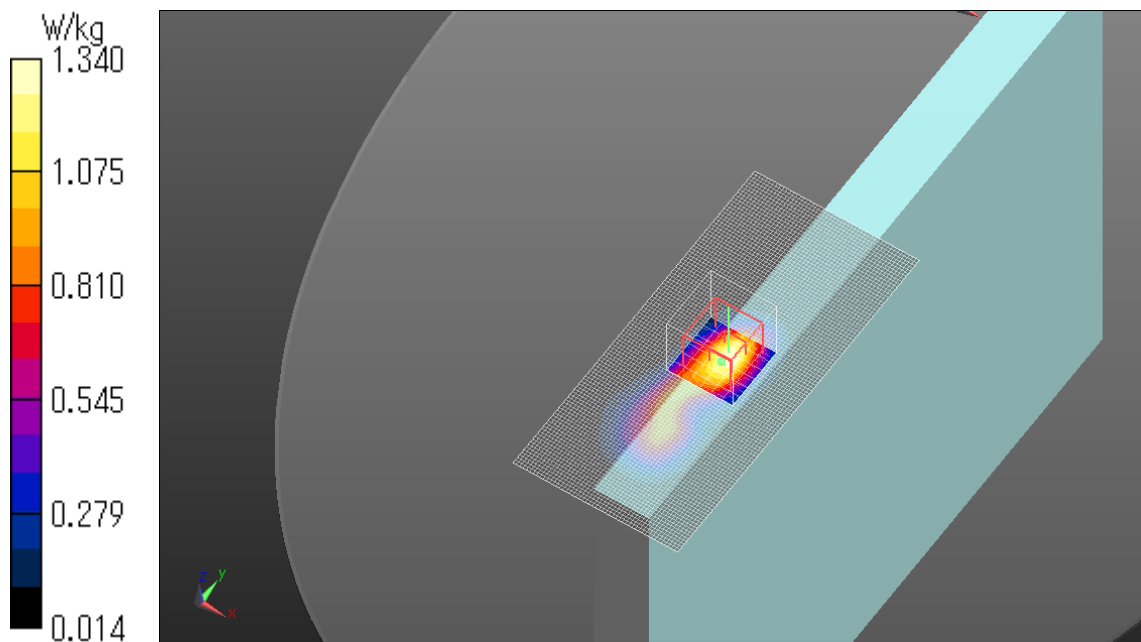
Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 0.954 W/kg; SAR(10 g) = 0.488 W/kg

Maximum value of SAR (measured) = 1.34 W/kg

Date: 2017/01/16

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



WCDMA Band4 12.2kRMC 1712.4MHz Rear 0mm 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; $\sigma = 1.469$ S/m; $\epsilon_r = 51.301$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.9, 7.9, 7.9); Calibrated: 2016/05/12;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2016/05/13

Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1203

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

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.953 W/kg

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

Reference Value = 28.52 V/m; Power Drift = -0.05 dB

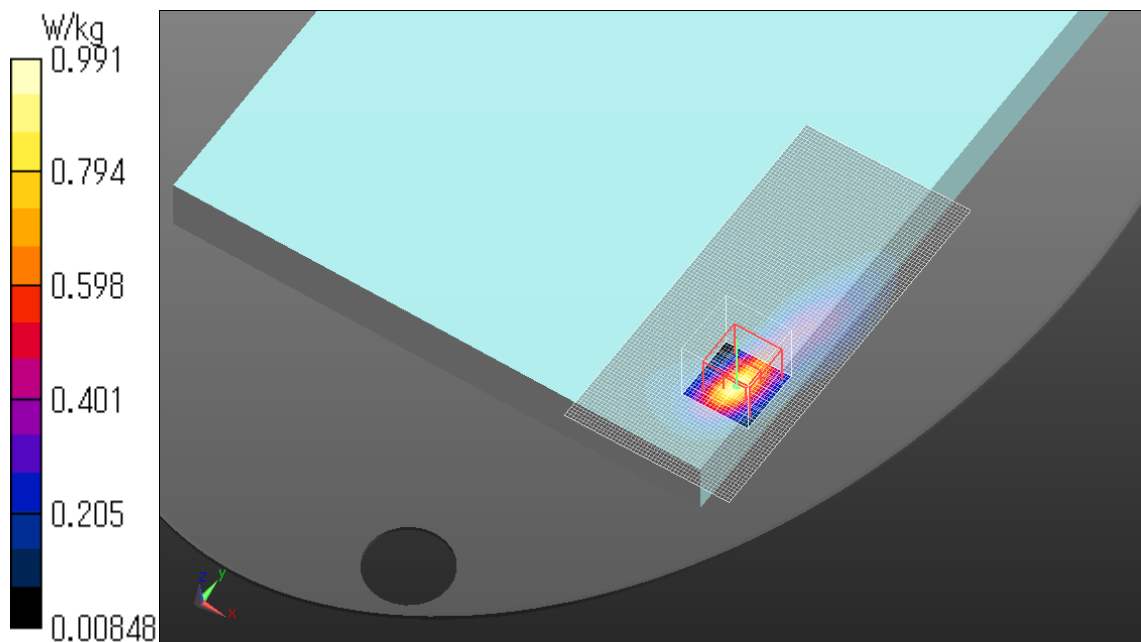
Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.661 W/kg; SAR(10 g) = 0.306 W/kg

Maximum value of SAR (measured) = 0.991 W/kg

Date: 2017/01/16

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



WCDMA Band4 12.2kRMC 1712.4MHz Edge1 39mm

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; $\sigma = 1.469$ S/m; $\epsilon_r = 51.301$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.9, 7.9, 7.9); Calibrated: 2016/05/12;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2016/05/13

Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1203

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

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.271 W/kg

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

Reference Value = 14.62 V/m; Power Drift = -0.03 dB

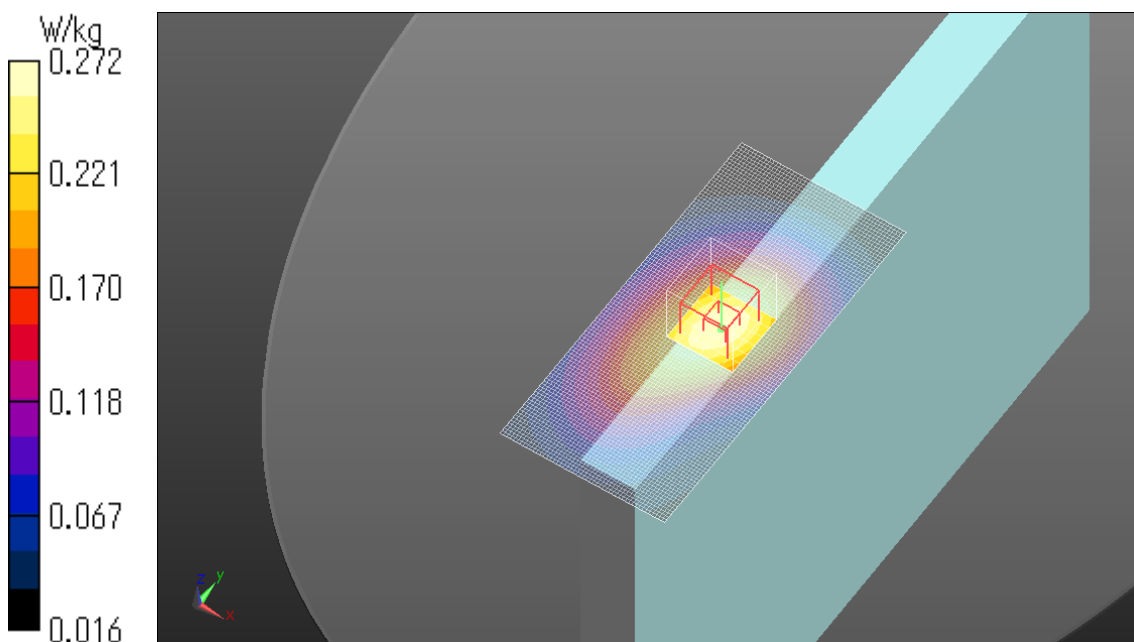
Peak SAR (extrapolated) = 0.321 W/kg

SAR(1 g) = 0.216 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 0.272 W/kg

Date: 2017/01/16

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



WCDMA Band4 12.2kRMC 1712.4MHz Edge2 0mm

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; $\sigma = 1.469$ S/m; $\epsilon_r = 51.301$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.9, 7.9, 7.9); Calibrated: 2016/05/12;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2016/05/13

Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1203

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

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0125 W/kg

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

Reference Value = 2.631 V/m; Power Drift = 0.03 dB

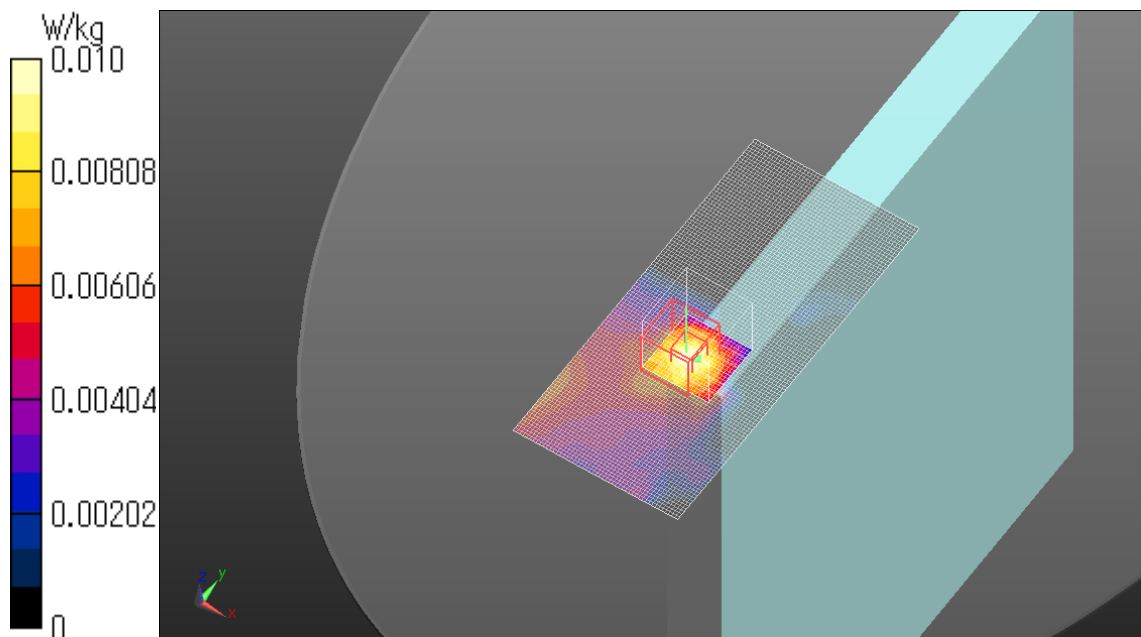
Peak SAR (extrapolated) = 0.0170 W/kg

SAR(1 g) = 0.0074 W/kg; SAR(10 g) = 0.00431 W/kg

Maximum value of SAR (measured) = 0.0101 W/kg

Date: 2017/01/16

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



WCDMA Band4 12.2kRMC 1712.4MHz Edge2 tilt 0mm

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; $\sigma = 1.406$ S/m; $\epsilon_r = 51.341$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.9, 7.9, 7.9); Calibrated: 2016/05/12;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2016/05/13

Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1203

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

Area Scan (91x91x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.0144 W/kg

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

Reference Value = 3.396 V/m; Power Drift = -0.08 dB

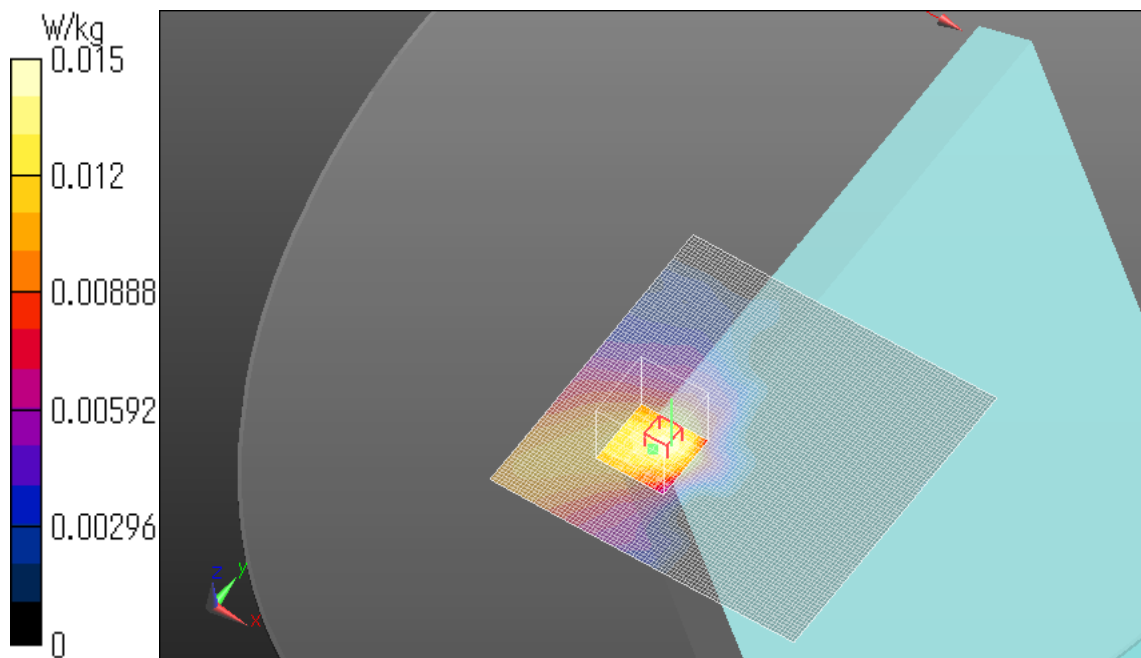
Peak SAR (extrapolated) = 0.0210 W/kg

SAR(1 g) = 0.010 W/kg

Maximum value of SAR (measured) = 0.0148 W/kg

Date: 2017/02/15

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



WCDMA Band4 12.2kRMC 1712.4MHz Edge3 0mm

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; $\sigma = 1.469$ S/m; $\epsilon_r = 51.301$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.9, 7.9, 7.9); Calibrated: 2016/05/12;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2016/05/13

Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1203

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

Area Scan (51x111x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.0110 W/kg

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

Reference Value = 1.929 V/m; Power Drift = -0.09 dB

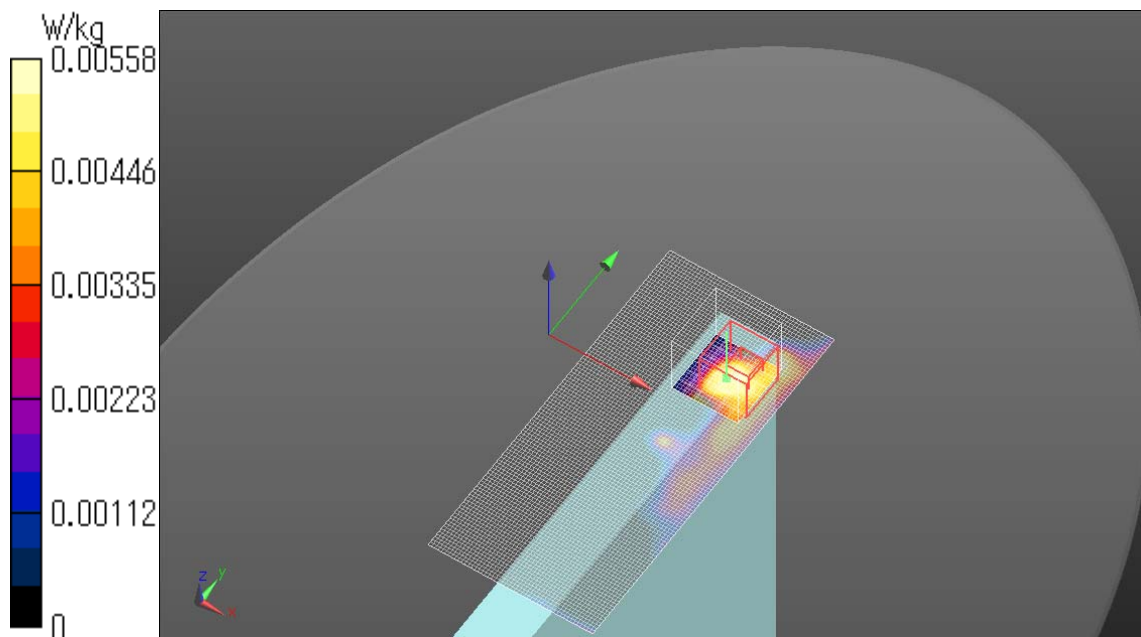
Peak SAR (extrapolated) = 0.00715 W/kg

SAR(1 g) = 0.00399 W/kg; SAR(10 g) = 0.00222 W/kg

Maximum value of SAR (measured) = 0.00558 W/kg

Date: 2017/01/16

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



WCDMA Band4 12.2kRMC 1712.4MHz Edge4 0mm

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; $\sigma = 1.469$ S/m; $\epsilon_r = 51.301$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.9, 7.9, 7.9); Calibrated: 2016/05/12;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2016/05/13

Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1203

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

Area Scan (81x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.236 W/kg

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

Reference Value = 13.94 V/m; Power Drift = 0.11 dB

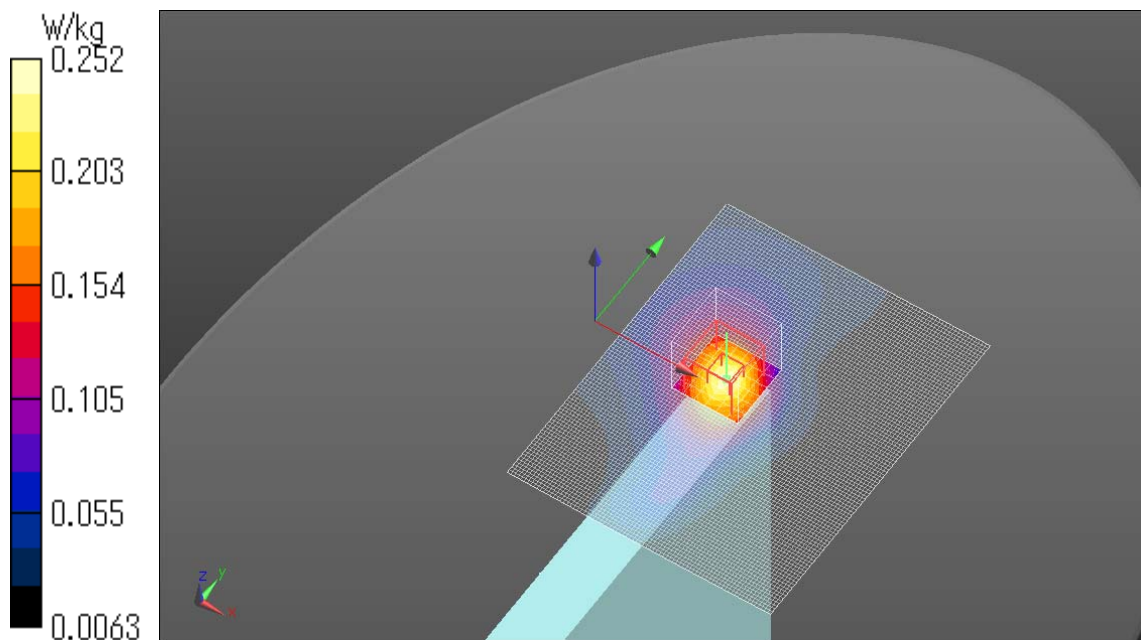
Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.185 W/kg; SAR(10 g) = 0.109 W/kg

Maximum value of SAR (measured) = 0.252 W/kg

Date: 2017/01/16

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



WCDMA Band4 12.2kRMC 1712.4MHz Edge4 tilt 0mm

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; $\sigma = 1.406$ S/m; $\epsilon_r = 51.341$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.9, 7.9, 7.9); Calibrated: 2016/05/12;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2016/05/13

Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1203

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

Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.205 W/kg

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

Reference Value = 13.13 V/m; Power Drift = -0.09 dB

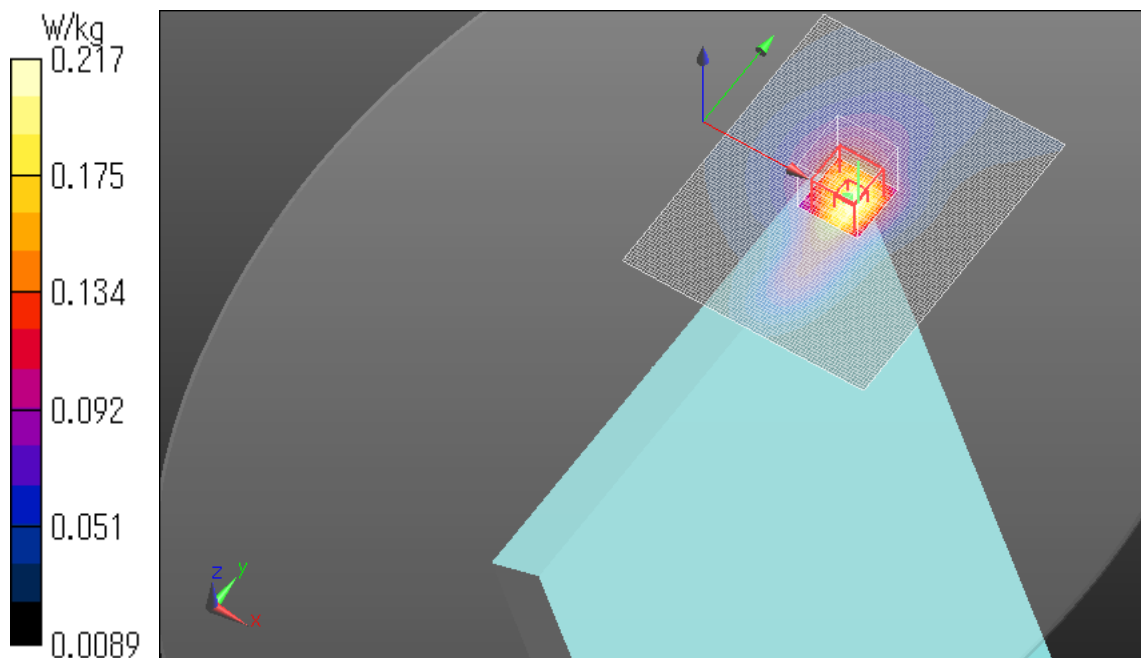
Peak SAR (extrapolated) = 0.267 W/kg

SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.099 W/kg

Maximum value of SAR (measured) = 0.217 W/kg

Date: 2017/02/15

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



WCDMA Band4 12.2kRMC 1712.4MHz Rear 21mm

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; $\sigma = 1.469$ S/m; $\epsilon_r = 51.301$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.9, 7.9, 7.9); Calibrated: 2016/05/12;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2016/05/13

Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1203

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

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.501 W/kg

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

Reference Value = 19.95 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.605 W/kg

SAR(1 g) = 0.390 W/kg; SAR(10 g) = 0.238 W/kg

Maximum value of SAR (measured) = 0.508 W/kg

Date: 2017/01/16

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

