

15.1 System Performance Check Plots

20170329 BODY 5250MHz System Check DATA Dipole 5GHz Power 100mW_D5GHz-graded

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 5.517$ S/m; $\epsilon_r = 48.994$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.98, 4.98, 4.98); 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 (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.6 W/kg

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

Reference Value = 63.33 V/m; Power Drift = -0.08 dB

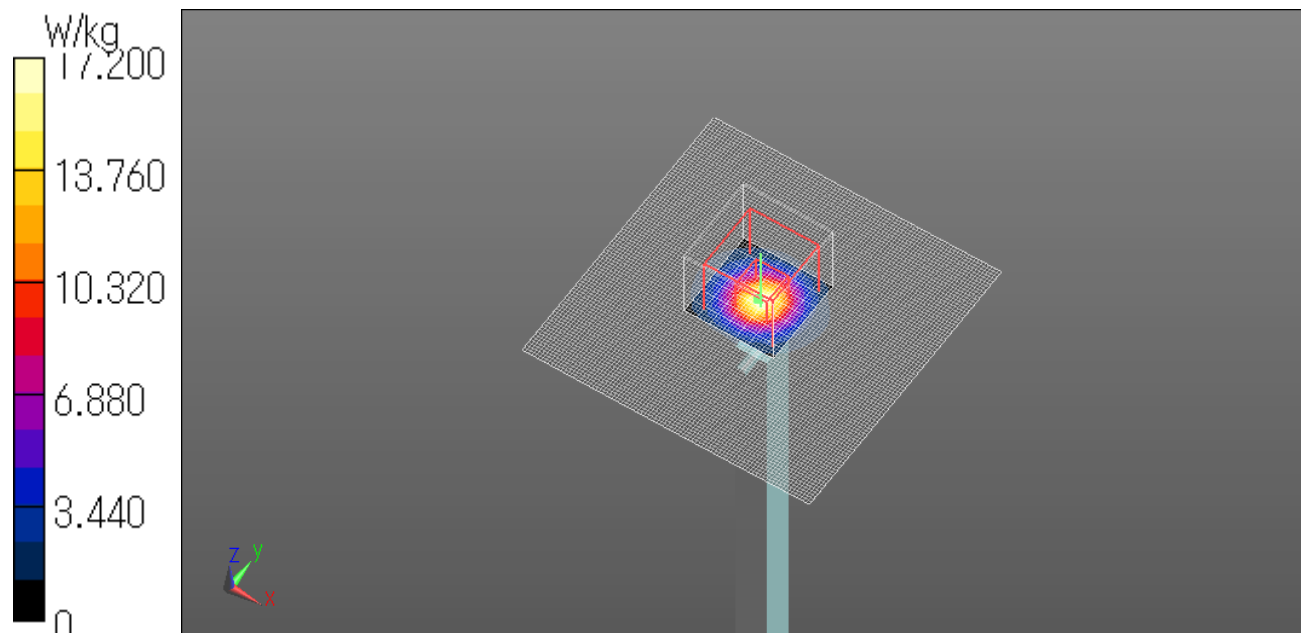
Peak SAR (extrapolated) = 31.0 W/kg

SAR(1 g) = 6.96 W/kg; SAR(10 g) = 1.93 W/kg

Maximum value of SAR (measured) = 17.2 W/kg

Date: 2017/03/29

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



20170329 BODY 5250MHz System Check DATA Dipole 5GHz Power 100mW_D5GHz-graded

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 5.517$ S/m; $\epsilon_r = 48.994$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.98, 4.98, 4.98); Calibrated: 2016/12/14;

Sensor-Surface: 0mm (Fix Surface)

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

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

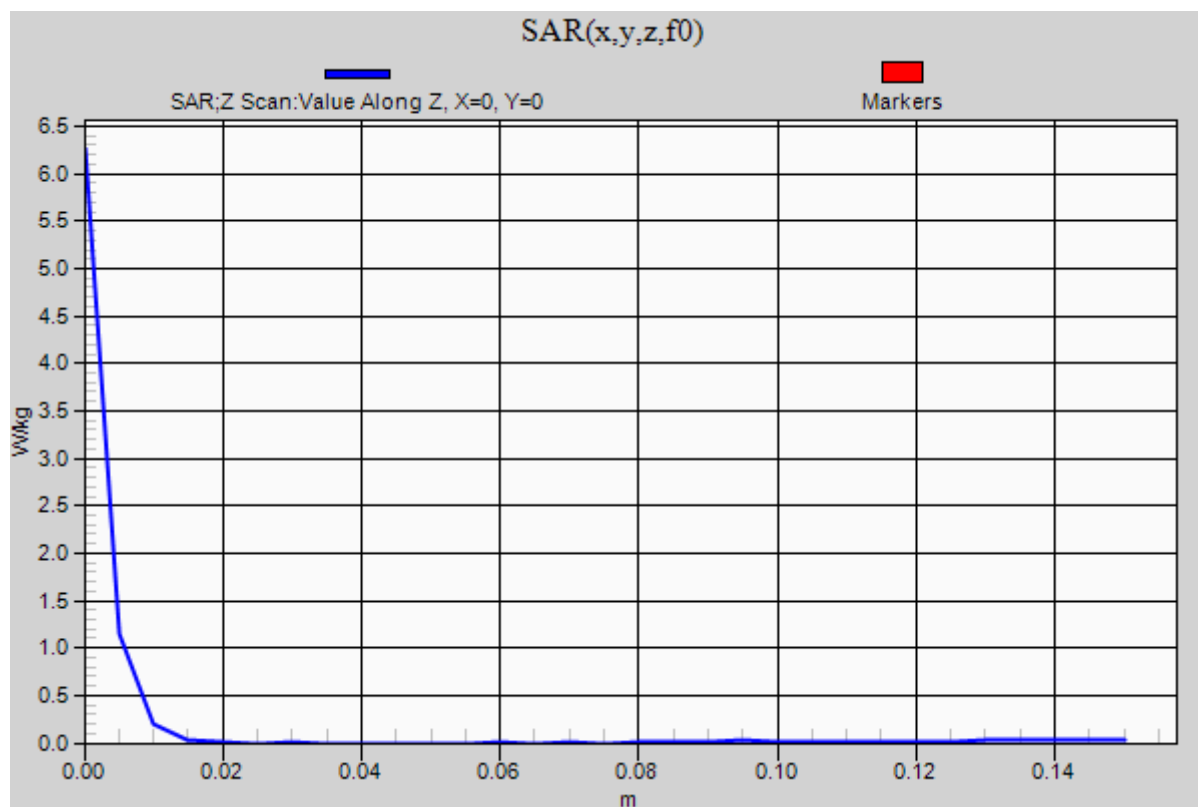
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 6.26 W/kg

Date: 2017/03/29

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



20170330 BODY 5600MHz System Check DATA Dipole 5GHz Power 100mW_D5GHz-graded

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.903$ S/m; $\epsilon_r = 47.083$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

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 (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.7 W/kg

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

Reference Value = 67.20 V/m; Power Drift = 0.01 dB

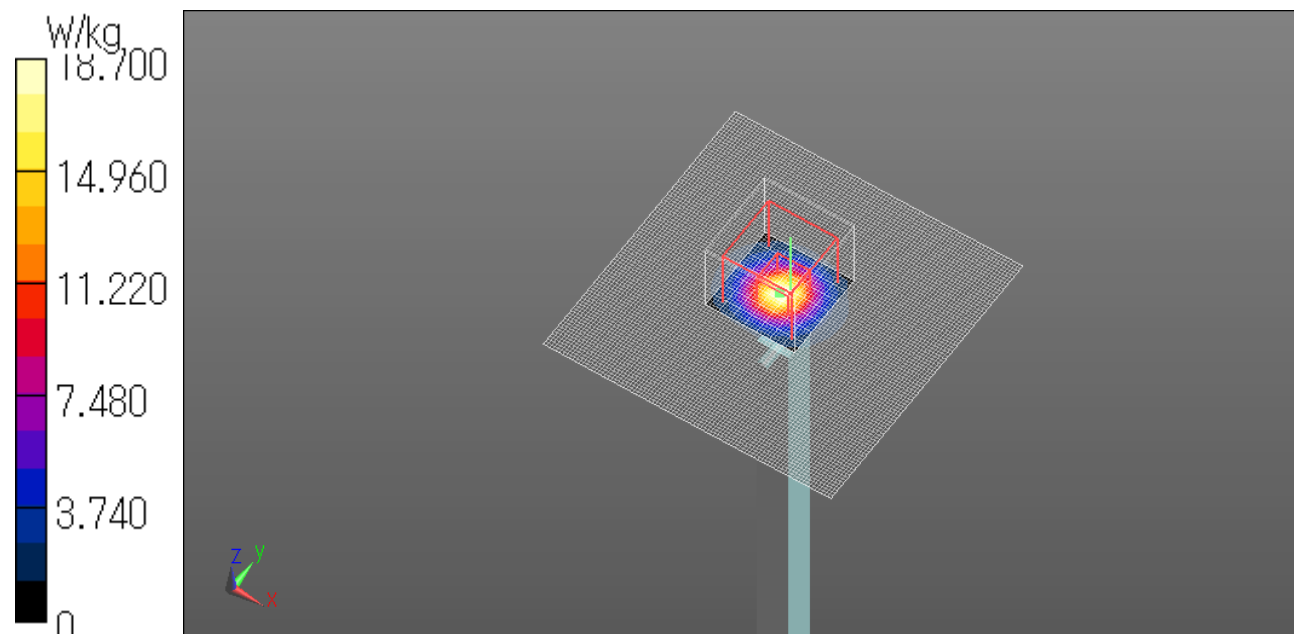
Peak SAR (extrapolated) = 33.5 W/kg

SAR(1 g) = 7.62 W/kg; SAR(10 g) = 2.1 W/kg

Maximum value of SAR (measured) = 18.7 W/kg

Date: 2017/03/30

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



20170330 BODY 5600MHz System Check DATA Dipole 5GHz Power 100mW_D5GHz-graded

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.903$ S/m; $\epsilon_r = 47.083$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(4.16, 4.16, 4.16); Calibrated: 2016/12/14;

Sensor-Surface: 0mm (Fix Surface)

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

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

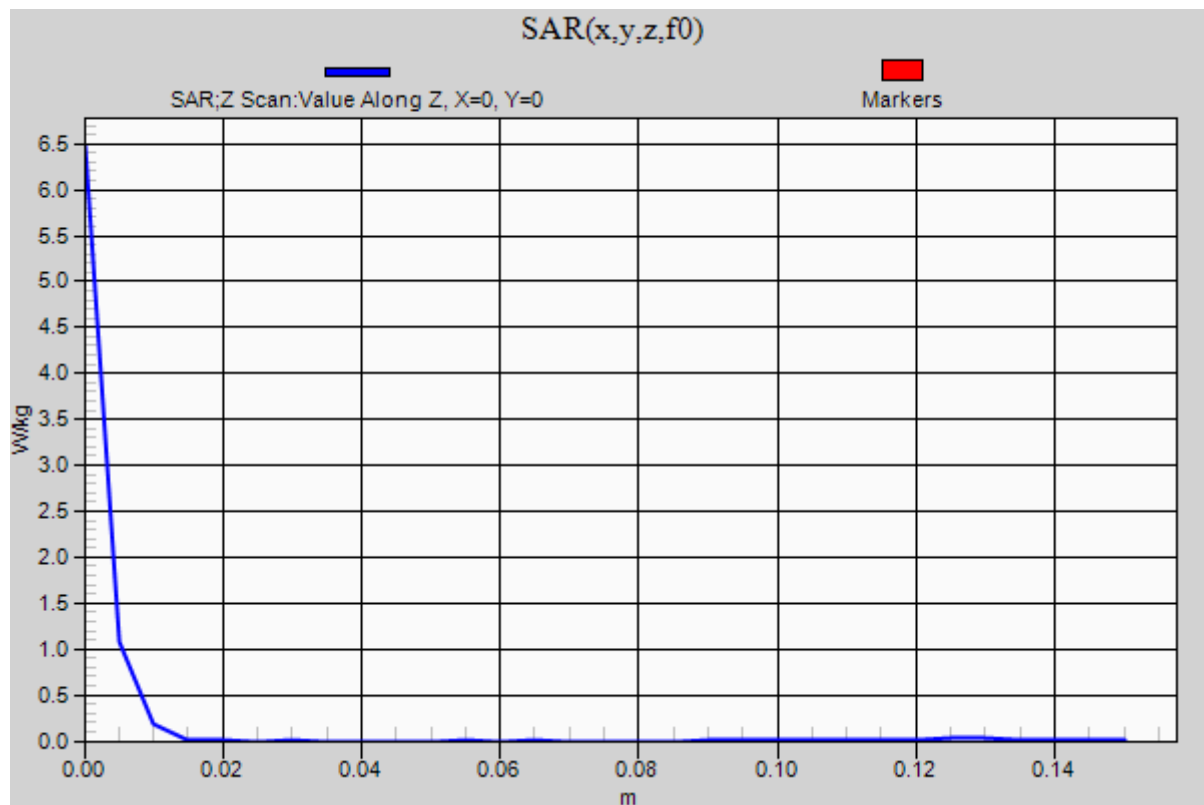
Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 6.46 W/kg

Date: 2017/03/30

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



20170403 BODY 5750MHz System Check DATA Dipole 5GHz Power 100mW_D5GHz-graded

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 6.223$ S/m; $\epsilon_r = 47.111$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

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 (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.8 W/kg

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

Reference Value = 65.20 V/m; Power Drift = -0.07 dB

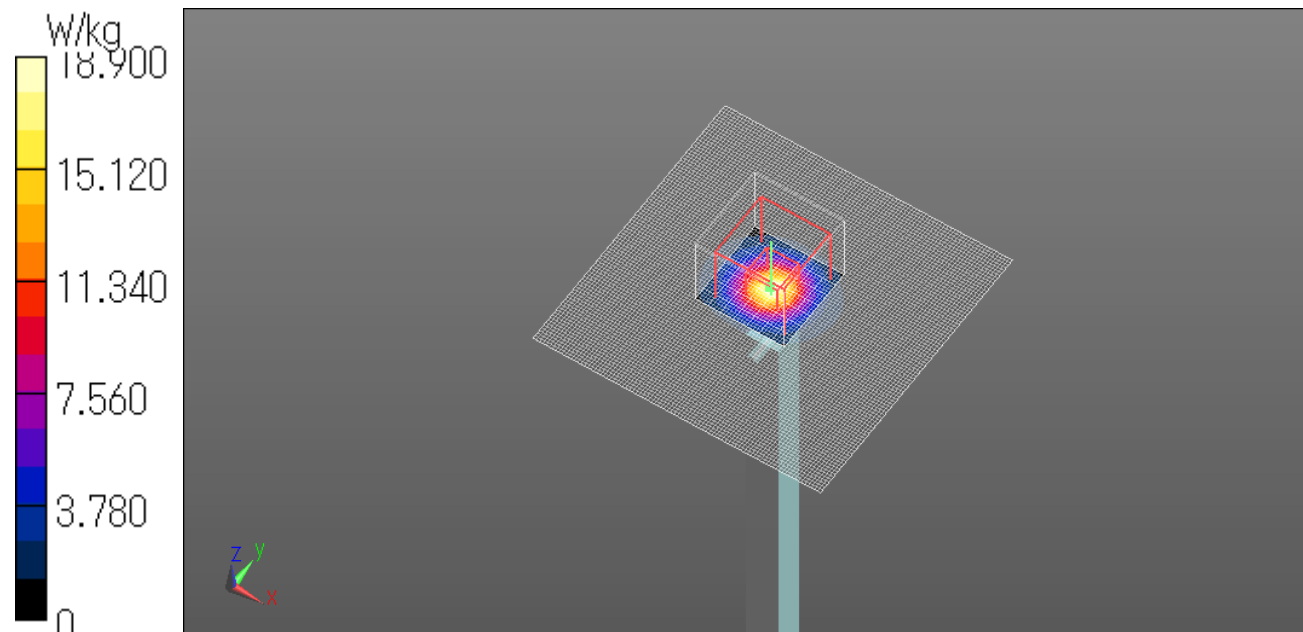
Peak SAR (extrapolated) = 36.4 W/kg

SAR(1 g) = 7.36 W/kg; SAR(10 g) = 2.05 W/kg

Maximum value of SAR (measured) = 18.9 W/kg

Date: 2017/04/03

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



20170403 BODY 5750MHz System Check DATA Dipole 5GHz Power 100mW_D5GHz-graded

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 6.223$ S/m; $\epsilon_r = 47.111$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration

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

Sensor-Surface: 0mm (Fix Surface)

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

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

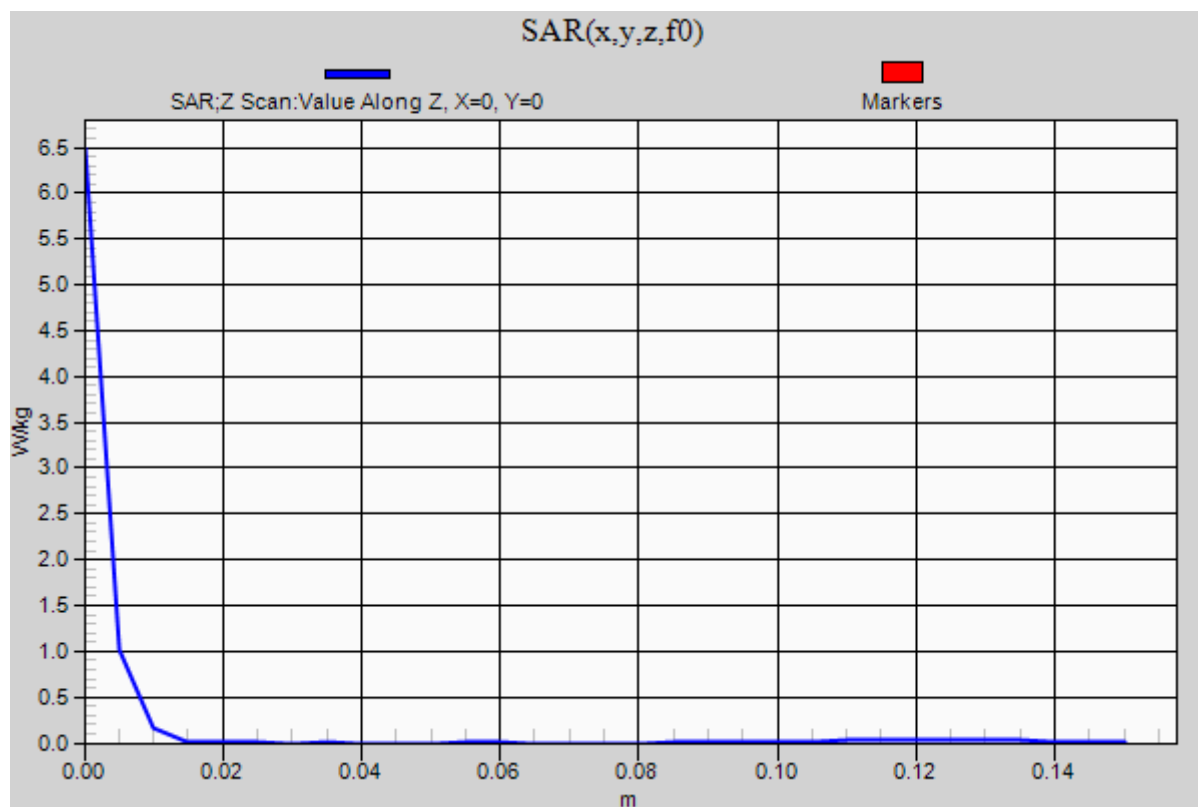
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 6.48 W/kg

Date: 2017/04/03

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



20170405 BODY 2450MHz System Check DATA Dipole 2450MHz Power 250mW_D2450MHz

Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.993$ S/m; $\epsilon_r = 50.902$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.28, 7.28, 7.28); Calibrated: 2016/05/12;

Sensor-Surface: 2mm (Mechanical Surface Detection)

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

Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045

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

Area Scan (81x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 21.1 W/kg

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

Reference Value = 102.8 V/m; Power Drift = 0.03 dB

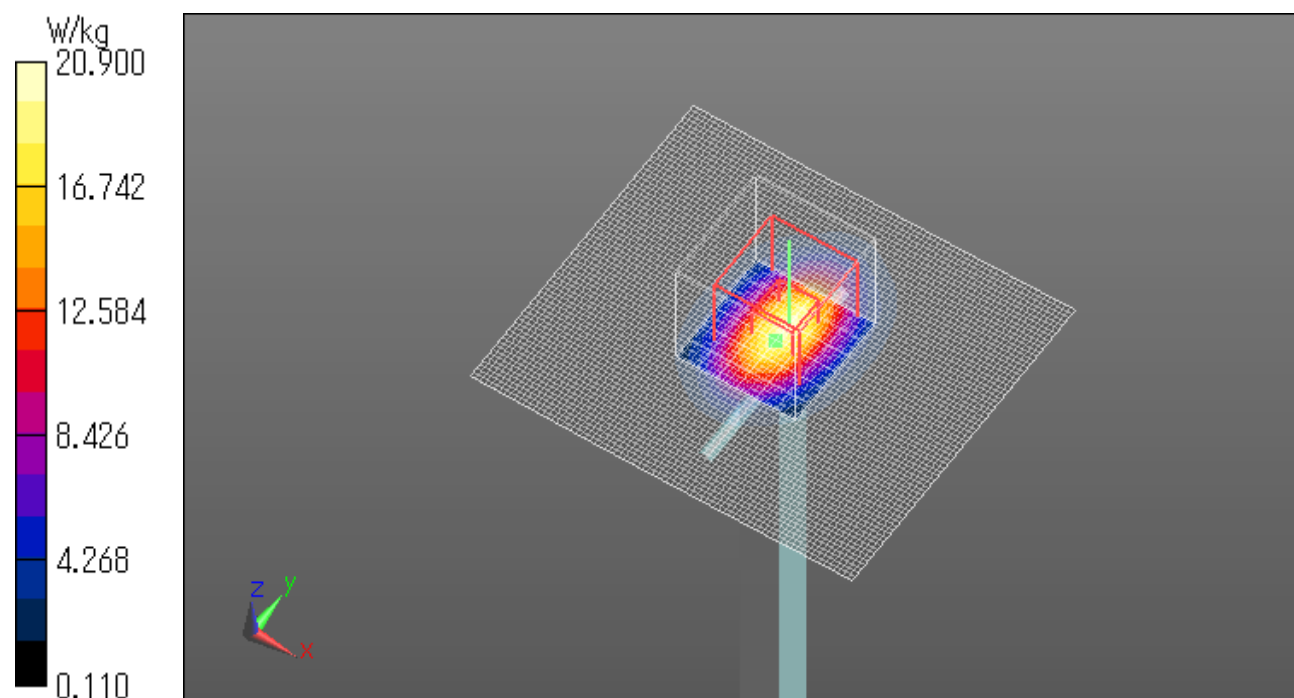
Peak SAR (extrapolated) = 27.9 W/kg

SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.38 W/kg

Maximum value of SAR (measured) = 20.9 W/kg

Date: 2017/04/05

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



20170405 BODY 2450MHz System Check DATA Dipole 2450MHz Power 250mW_D2450MHz

Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.993$ S/m; $\epsilon_r = 50.902$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.28, 7.28, 7.28); Calibrated: 2016/05/12;

Sensor-Surface: 0mm (Fix Surface)

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

Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045

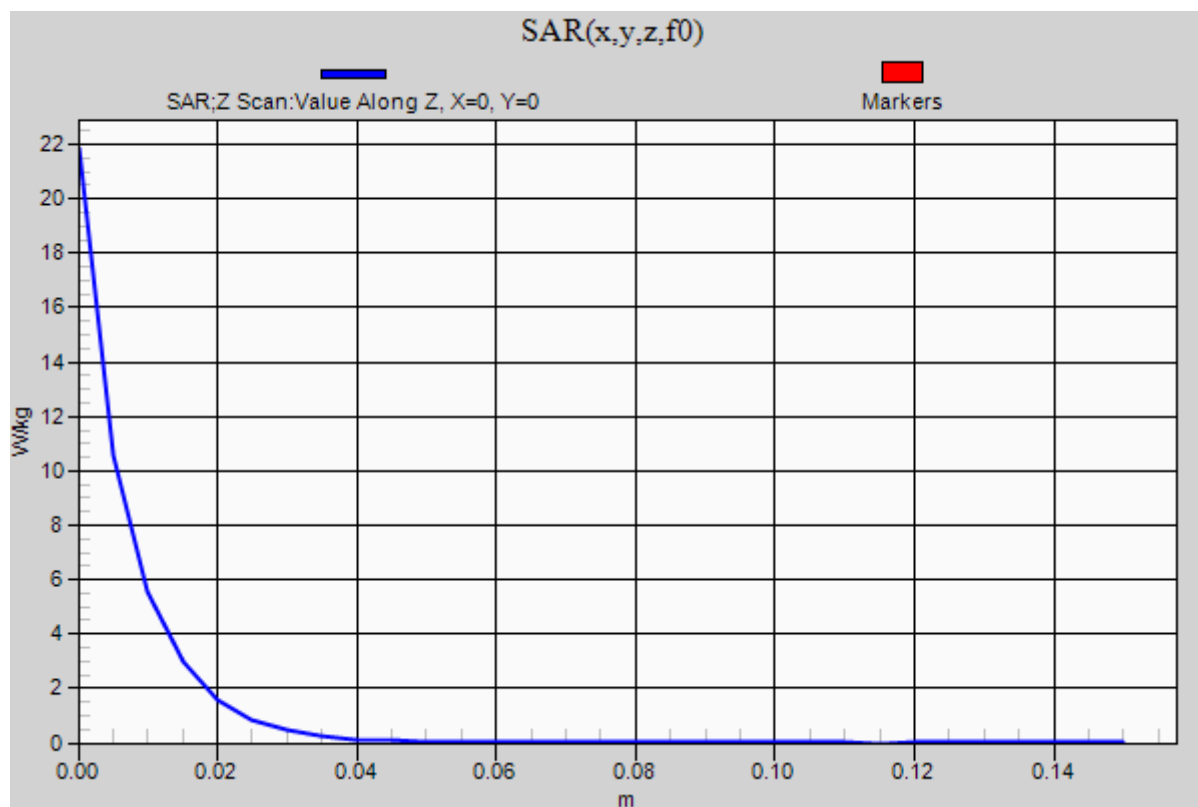
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 21.8 W/kg

Date: 2017/04/05

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



20170407 BODY 2450MHz System Check DATA Dipole 2450MHz Power 250mW_D2450MHz

Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.97$ S/m; $\epsilon_r = 50.885$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.28, 7.28, 7.28); Calibrated: 2016/05/12;

Sensor-Surface: 2mm (Mechanical Surface Detection)

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

Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045

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

Area Scan (81x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 21.9 W/kg

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

Reference Value = 105.0 V/m; Power Drift = -0.01 dB

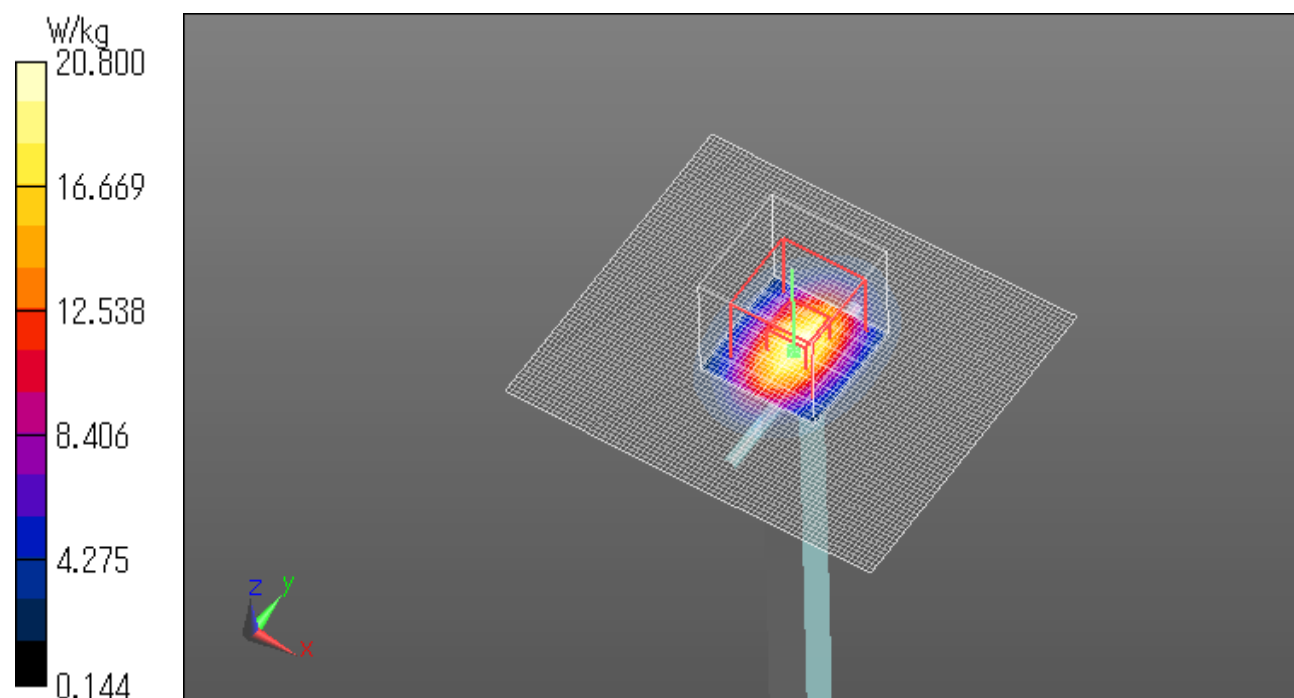
Peak SAR (extrapolated) = 27.7 W/kg

SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.47 W/kg

Maximum value of SAR (measured) = 20.8 W/kg

Date: 2017/04/07

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



20170407 BODY 2450MHz System Check DATA Dipole 2450MHz Power 250mW_D2450MHz

Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.97$ S/m; $\epsilon_r = 50.885$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.28, 7.28, 7.28); Calibrated: 2016/05/12;

Sensor-Surface: 0mm (Fix Surface)

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

Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045

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

Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 21.7 W/kg

Date: 2017/04/07

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

