

17.1 System Performance Check Plots

20180213 Body 2600MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D2600 (2600.0 MHz);

Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.243$ S/m; $\epsilon_r = 50.397$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASYS Configuration

Probe: EX3DV4 - SN3917; ConvF(7.41, 7.41, 7.41); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

Measurement SW: DASYS2, 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) = 23.1 W/kg

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

Reference Value = 100.1 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 30.1 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.12 W/kg

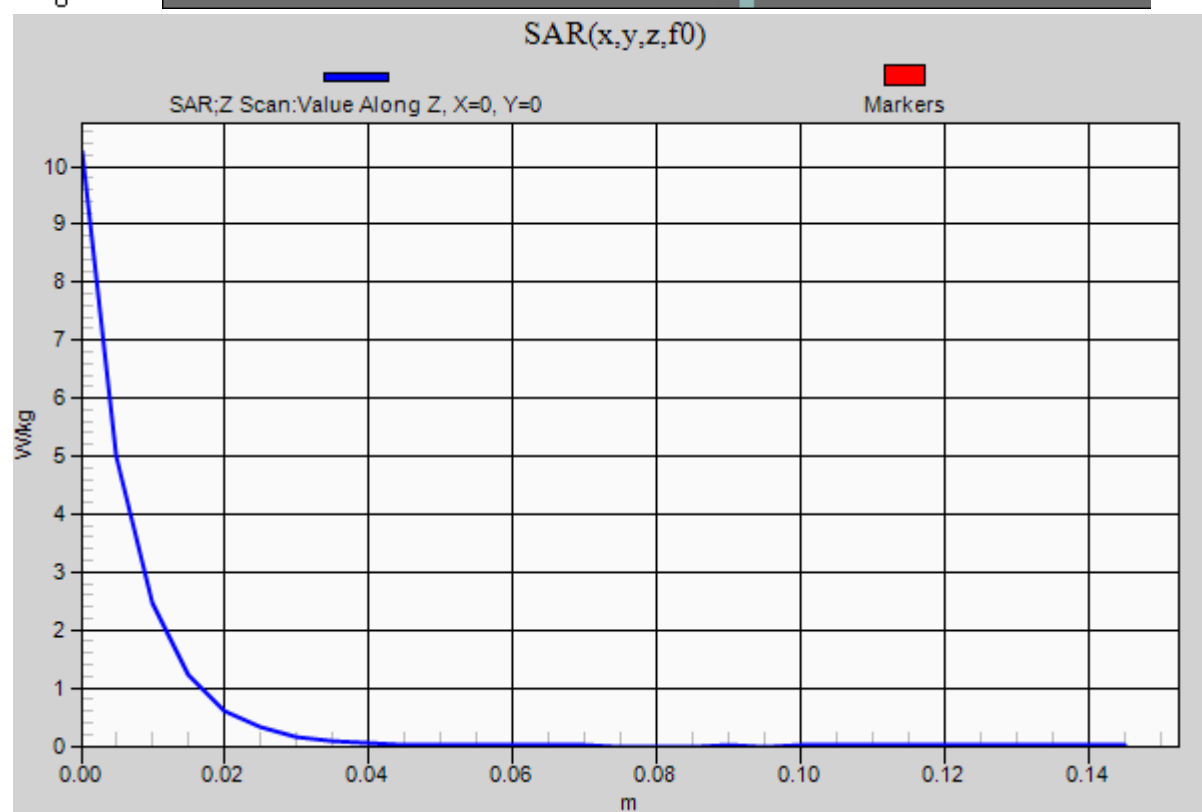
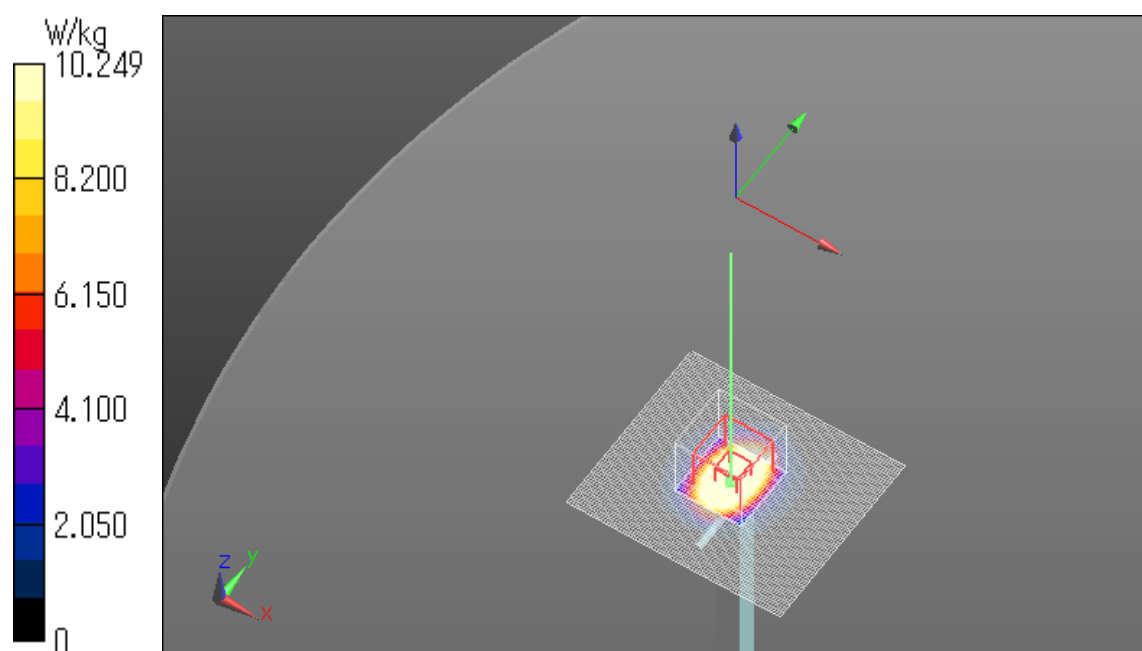
Maximum value of SAR (measured) = 21.8 W/kg

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

Maximum value of SAR (measured) = 10.2 W/kg

Date: 2018/02/13

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



20180214 Body 2600MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D2600 (2600.0 MHz);

Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.241$ S/m; $\epsilon_r = 50.383$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.41, 7.41, 7.41); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

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) = 23.5 W/kg

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

Reference Value = 100.9 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 30.7 W/kg

SAR(1 g) = 14 W/kg; SAR(10 g) = 6.1 W/kg

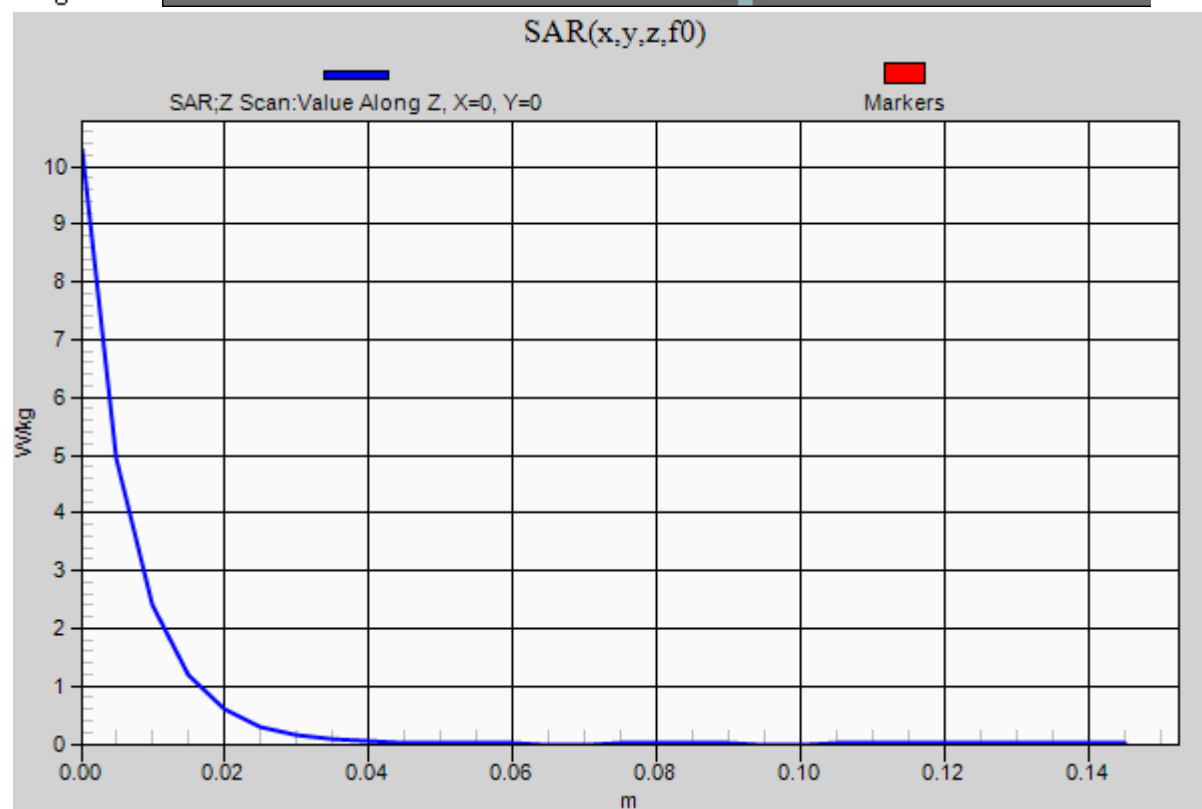
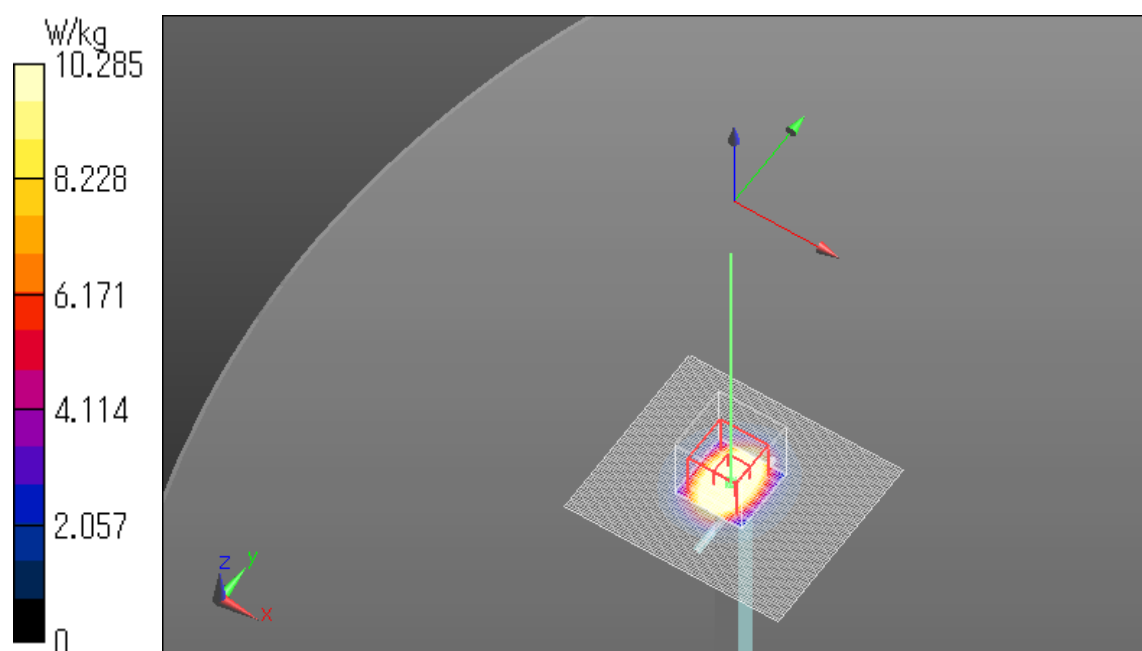
Maximum value of SAR (measured) = 22.2 W/kg

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

Maximum value of SAR (measured) = 10.3 W/kg

Date: 2018/02/14

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



20180215 Body 2600MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D2600 (2600.0 MHz);

Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.14$ S/m; $\epsilon_r = 50.506$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.41, 7.41, 7.41); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

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) = 22.3 W/kg

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

Reference Value = 101.8 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 28.9 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.13 W/kg

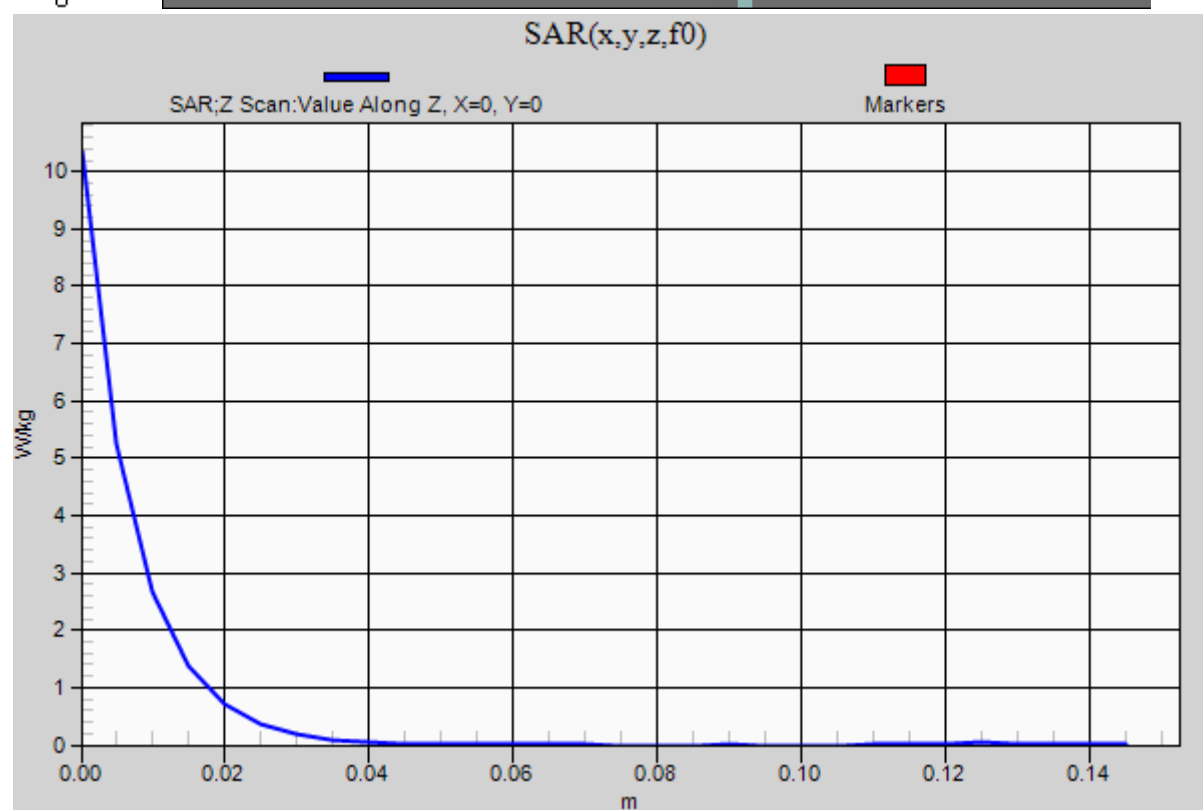
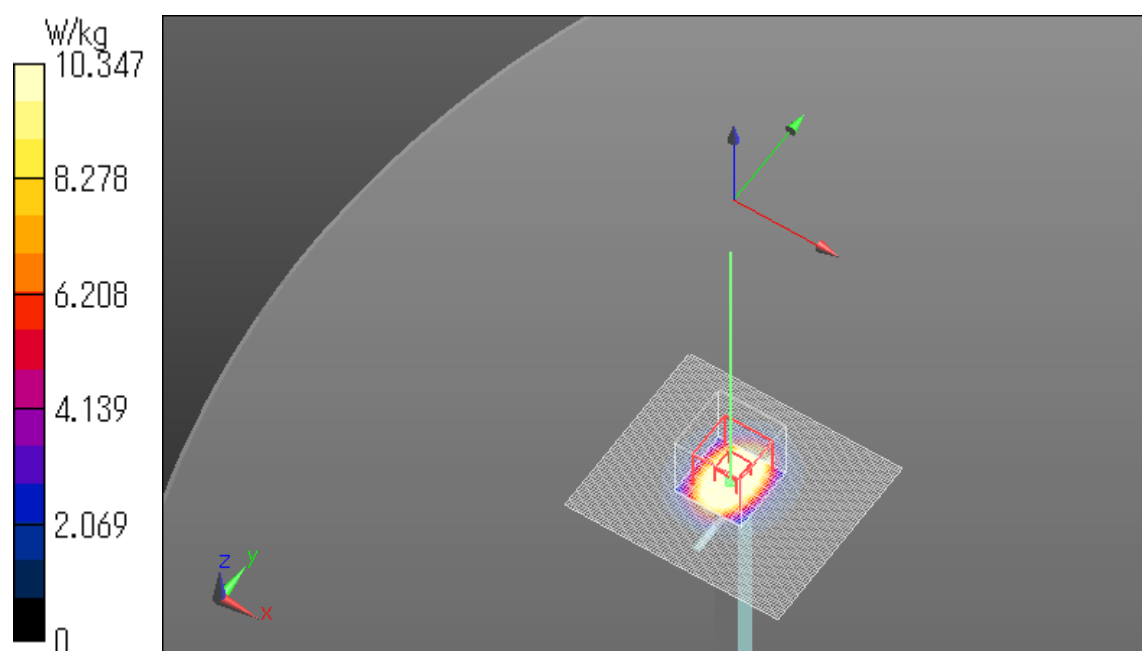
Maximum value of SAR (measured) = 21.2 W/kg

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

Maximum value of SAR (measured) = 10.3 W/kg

Date: 2018/02/15

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



20180215 Body 1750MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D1750 (1750.0 MHz);

Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.439$ S/m; $\epsilon_r = 52.975$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3825; ConvF(8.29, 8.29, 8.29); Calibrated: 2017/12/11;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn509; Calibrated: 2017/07/11

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 (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 12.1 W/kg

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

Reference Value = 92.94 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 15.1 W/kg

SAR(1 g) = 8.55 W/kg; SAR(10 g) = 4.62 W/kg

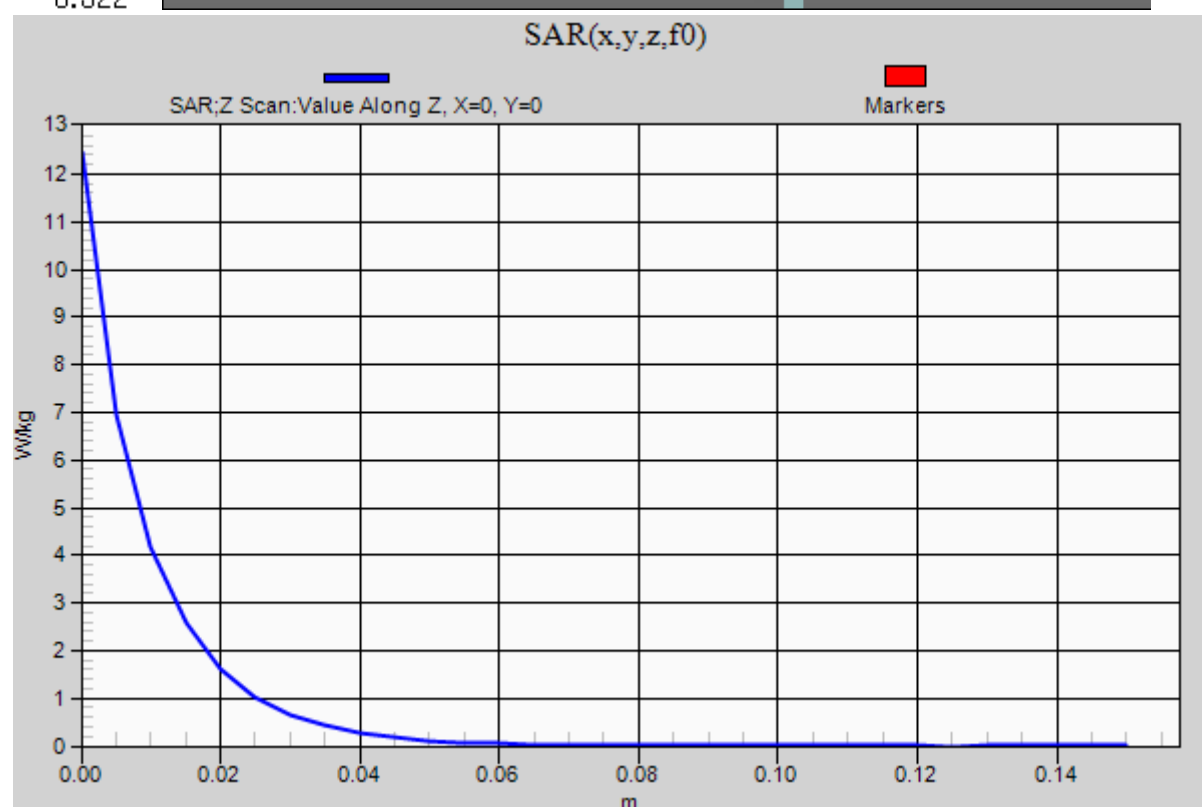
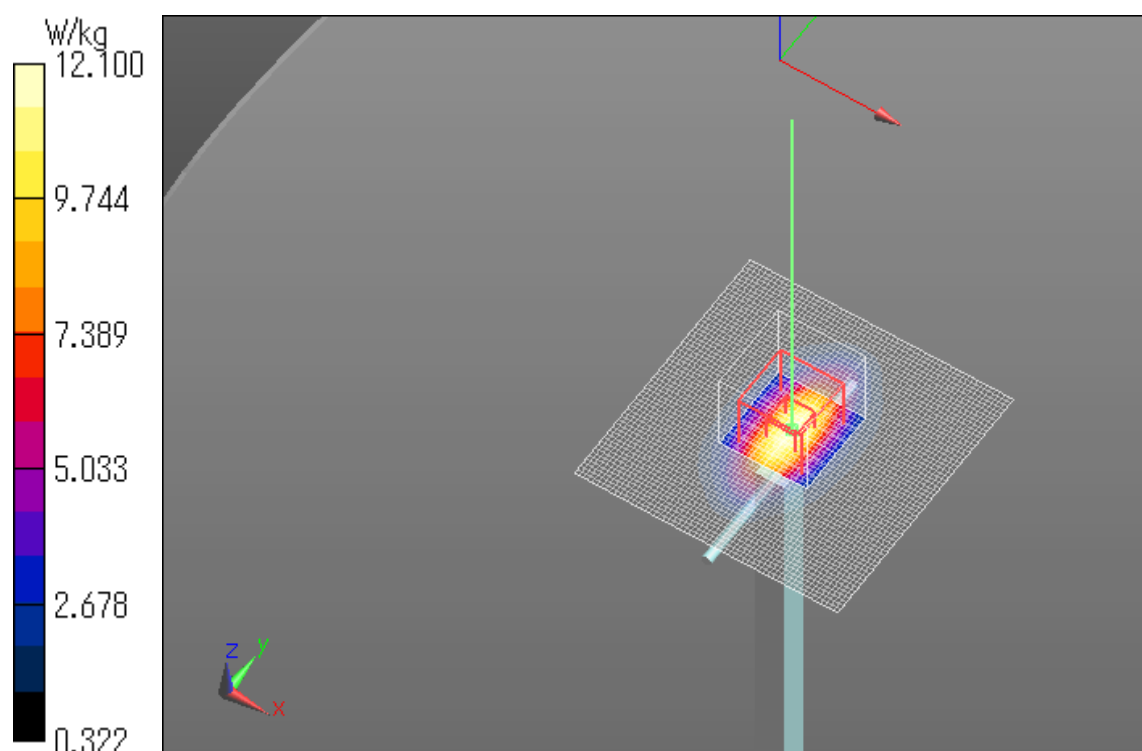
Maximum value of SAR (measured) = 12.1 W/kg

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

Maximum value of SAR (measured) = 12.4 W/kg

Date: 2018/02/15

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



20180216 Body 2600MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D2600 (2600.0 MHz);

Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.171$ S/m; $\epsilon_r = 51.26$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.41, 7.41, 7.41); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

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) = 23.9 W/kg

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

Reference Value = 103.5 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 30.6 W/kg

SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.49 W/kg

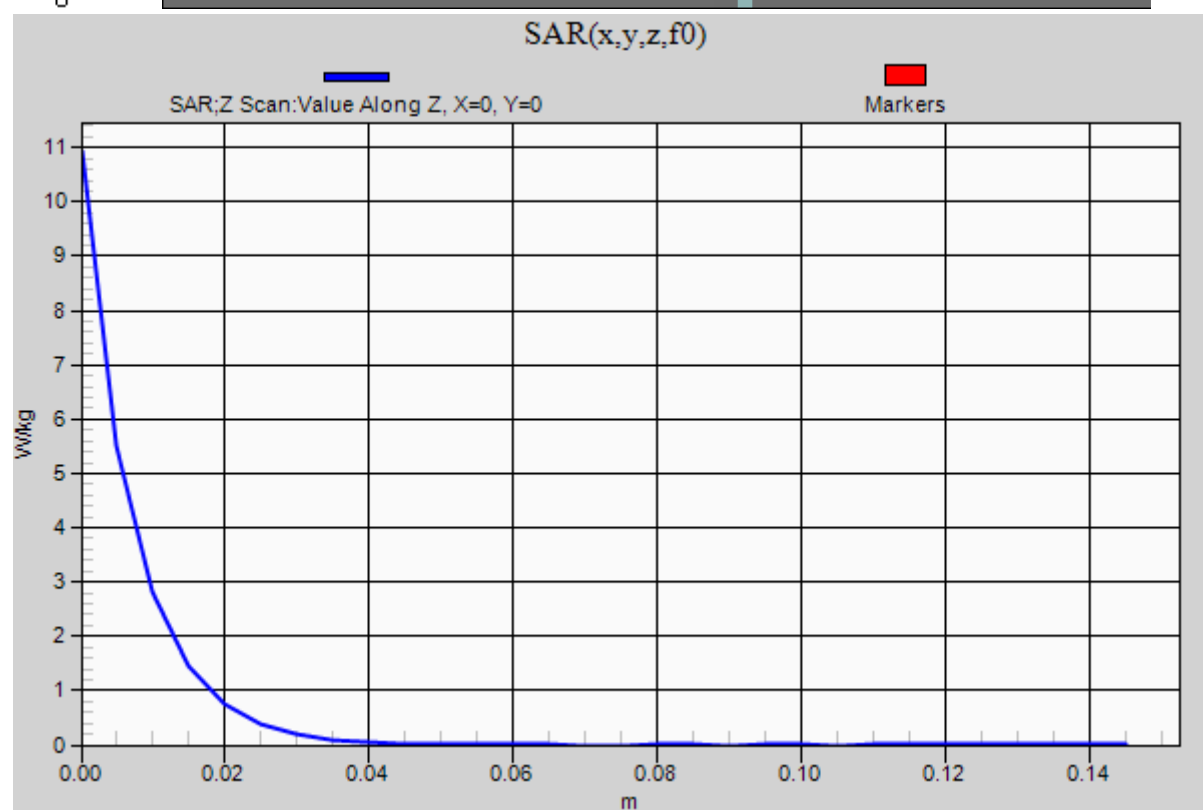
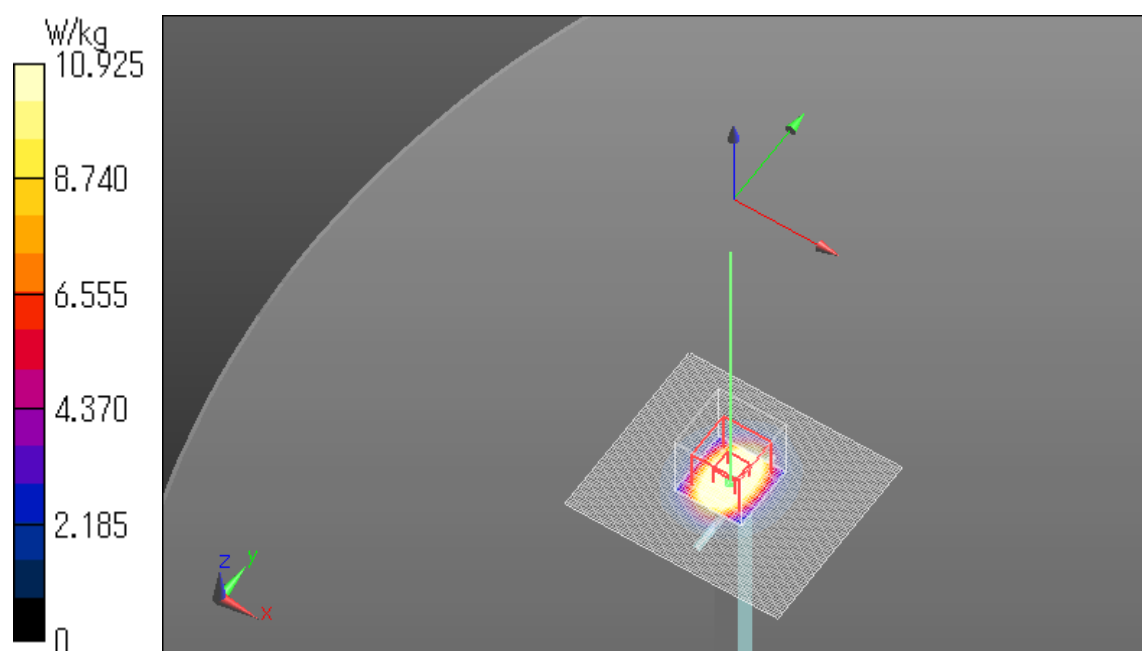
Maximum value of SAR (measured) = 22.5 W/kg

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

Maximum value of SAR (measured) = 10.9 W/kg

Date: 2018/02/16

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



20180216 Body 1750MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D1750 (1750.0 MHz);

Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.489$ S/m; $\epsilon_r = 53.114$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3825; ConvF(8.29, 8.29, 8.29); Calibrated: 2017/12/11;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn509; Calibrated: 2017/07/11

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 (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 12.9 W/kg

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

Reference Value = 94.17 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 16.2 W/kg

SAR(1 g) = 9.08 W/kg; SAR(10 g) = 4.85 W/kg

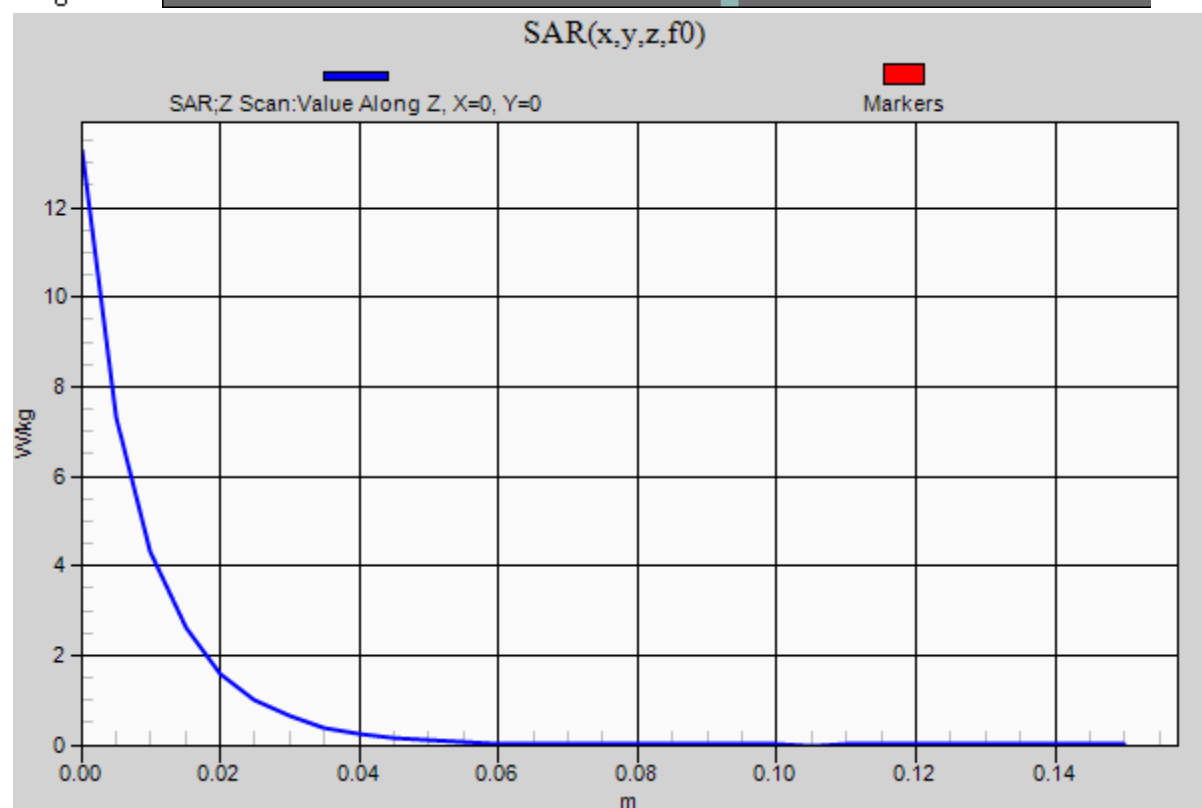
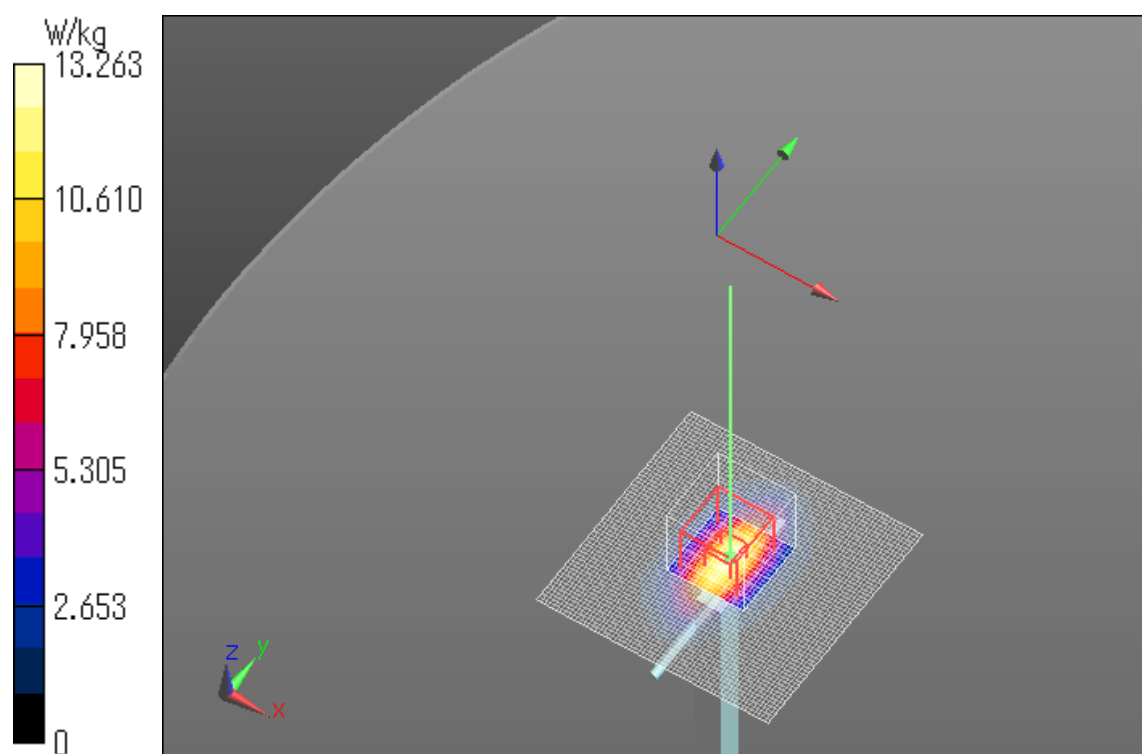
Maximum value of SAR (measured) = 12.9 W/kg

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

Maximum value of SAR (measured) = 13.3 W/kg

Date: 2018/02/16

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



20180219 Body 835MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 1.006$ S/m; $\epsilon_r = 53.382$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(9.93, 9.93, 9.93); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

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

Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.25 W/kg

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

Reference Value = 58.40 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.82 W/kg

SAR(1 g) = 2.62 W/kg; SAR(10 g) = 1.74 W/kg

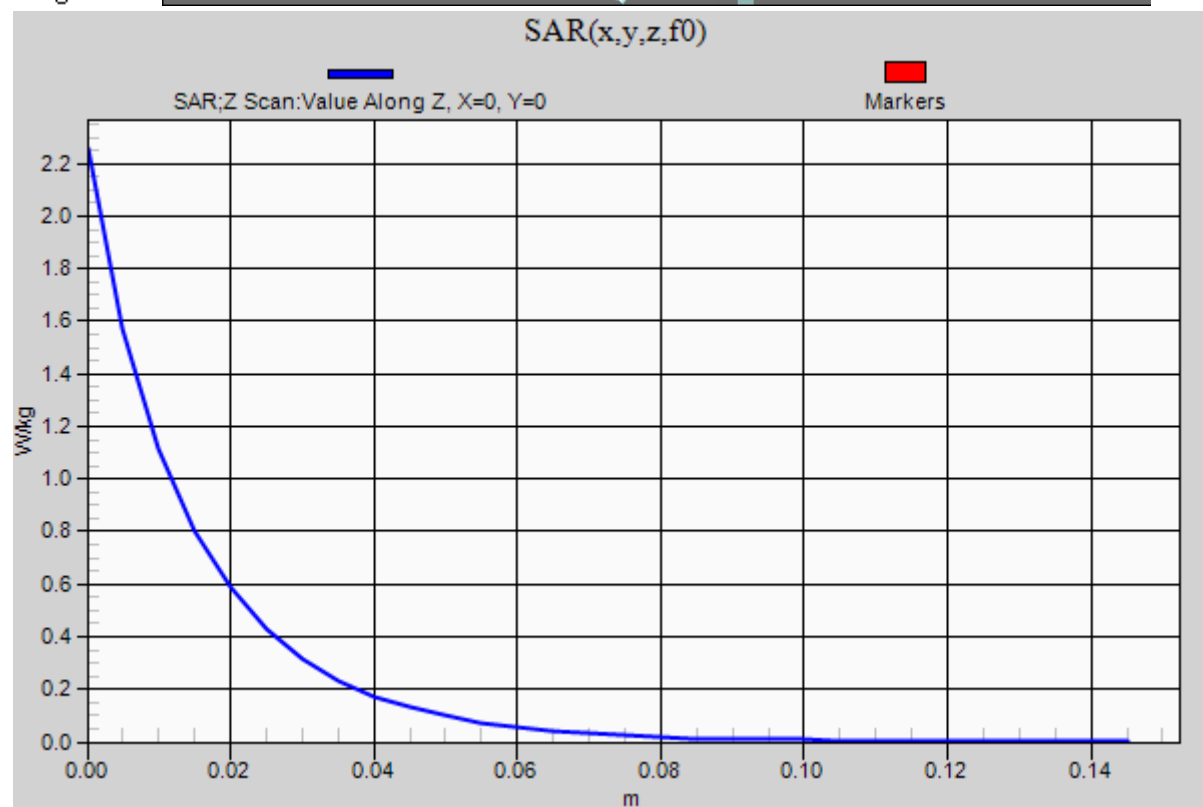
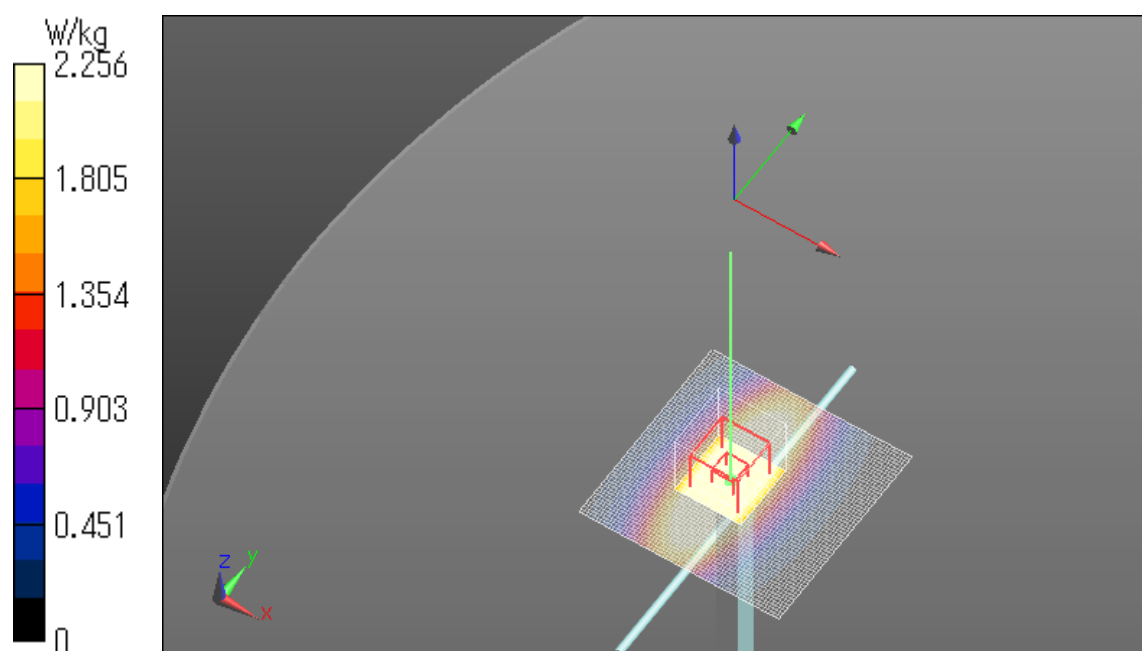
Maximum value of SAR (measured) = 3.29 W/kg

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

Maximum value of SAR (measured) = 2.26 W/kg

Date: 2018/02/19

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



20180219 Body 1900MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D1900 (1900.0 MHz);

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.54$ S/m; $\epsilon_r = 52.464$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3825; ConvF(8, 8, 8); Calibrated: 2017/12/11;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn509; Calibrated: 2017/07/11

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 (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.1 W/kg

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

Reference Value = 94.10 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 9.17 W/kg; SAR(10 g) = 4.84 W/kg

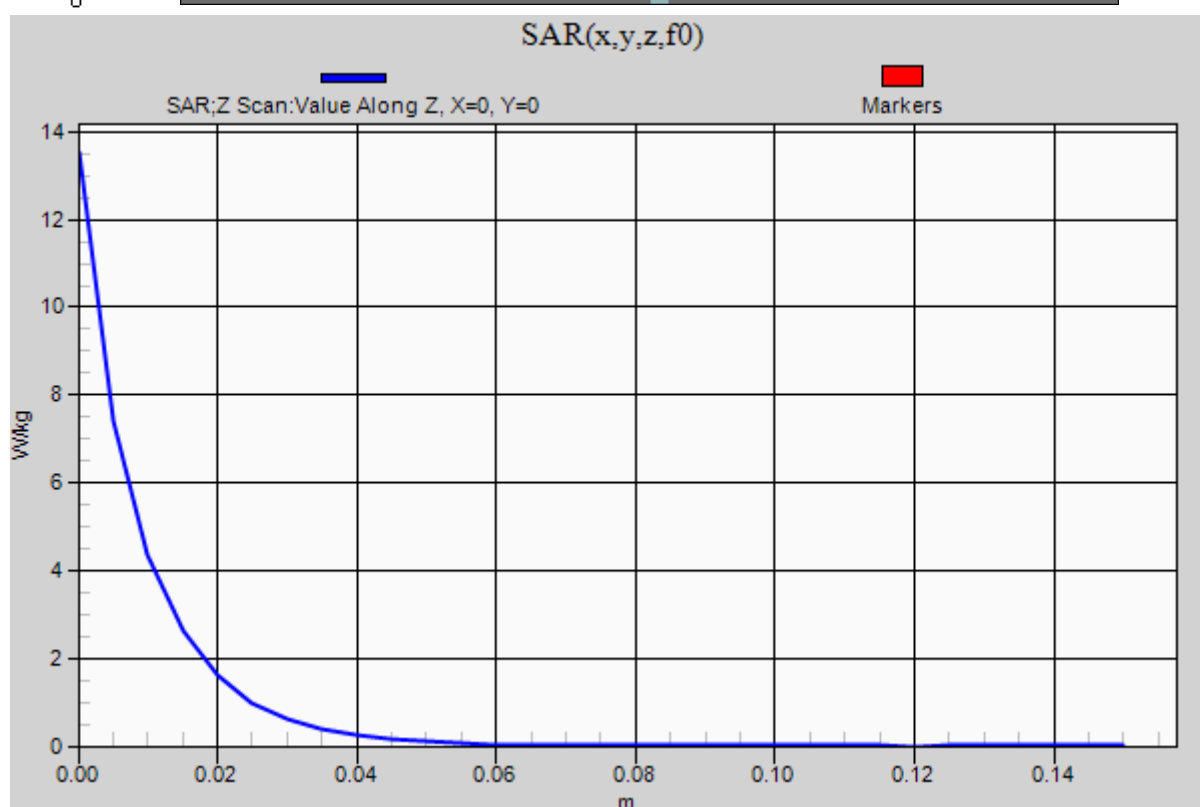
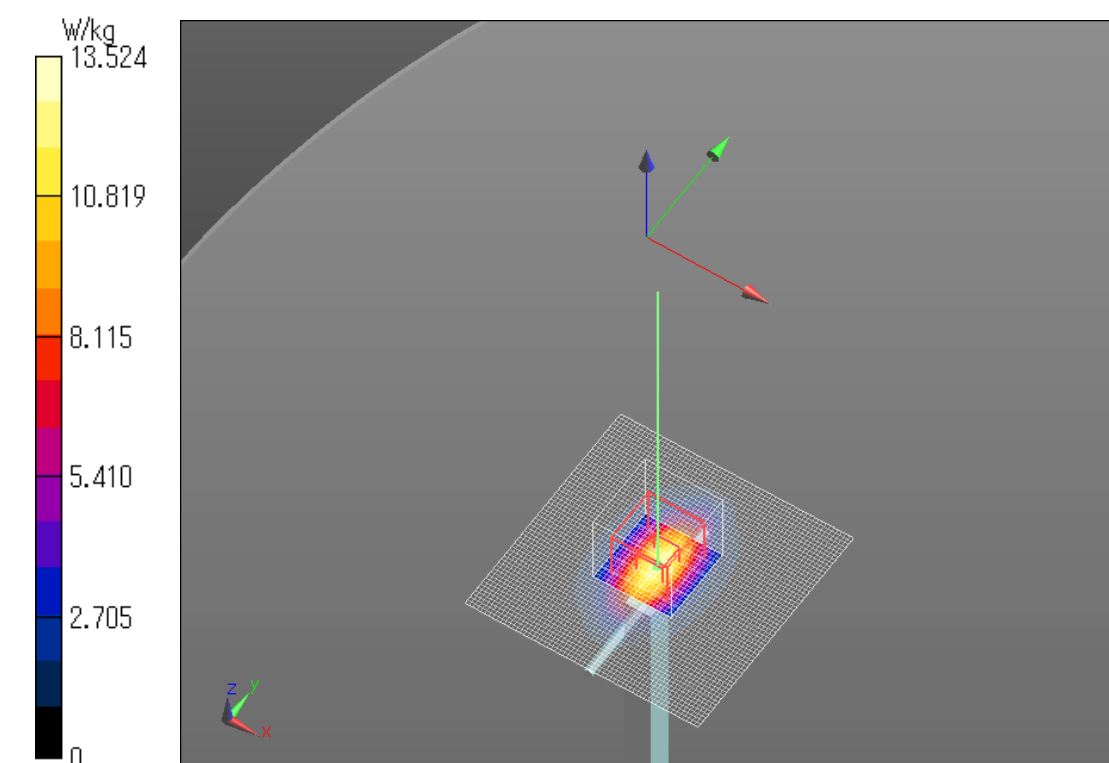
Maximum value of SAR (measured) = 13.1 W/kg

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

Maximum value of SAR (measured) = 13.5 W/kg

Date: 2018/02/19

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



20180220 Body 1900MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D1900 (1900.0 MHz);

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.537$ S/m; $\epsilon_r = 53.433$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3825; ConvF(8, 8, 8); Calibrated: 2017/12/11;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn509; Calibrated: 2017/07/11

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 (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 12.9 W/kg

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

Reference Value = 95.02 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 9.42 W/kg; SAR(10 g) = 4.93 W/kg

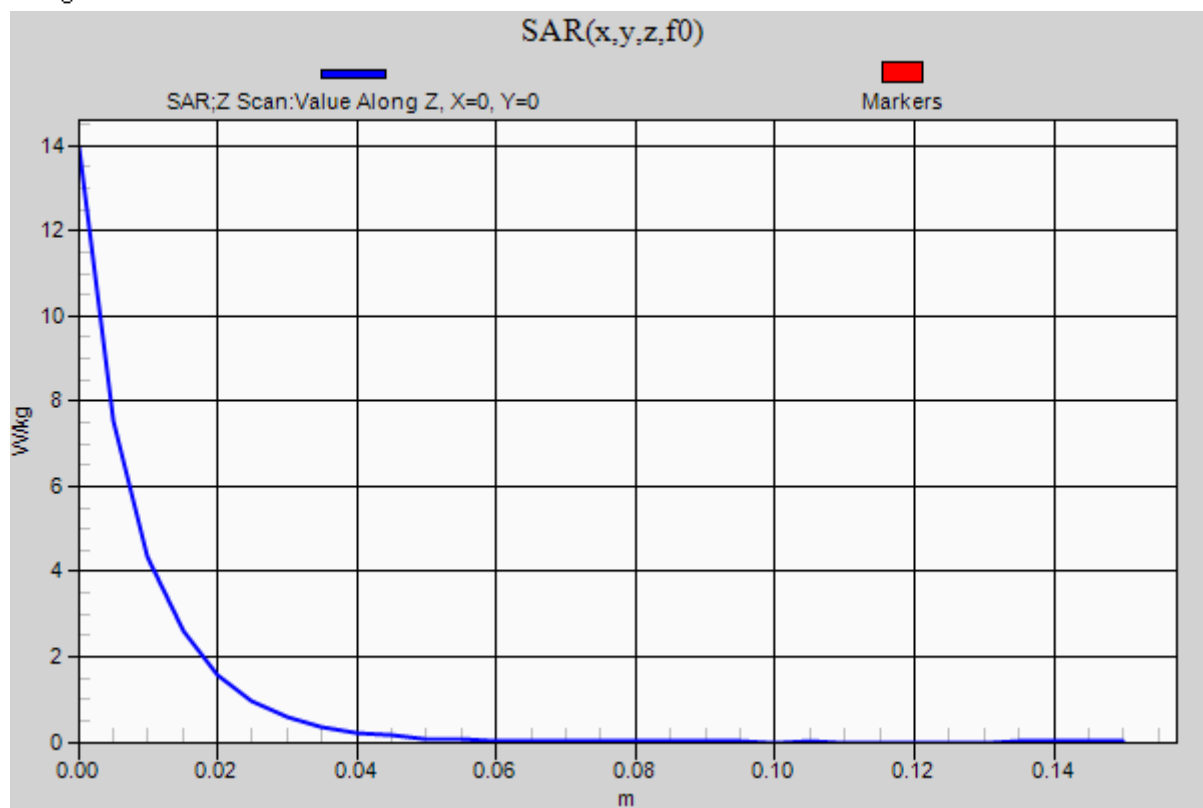
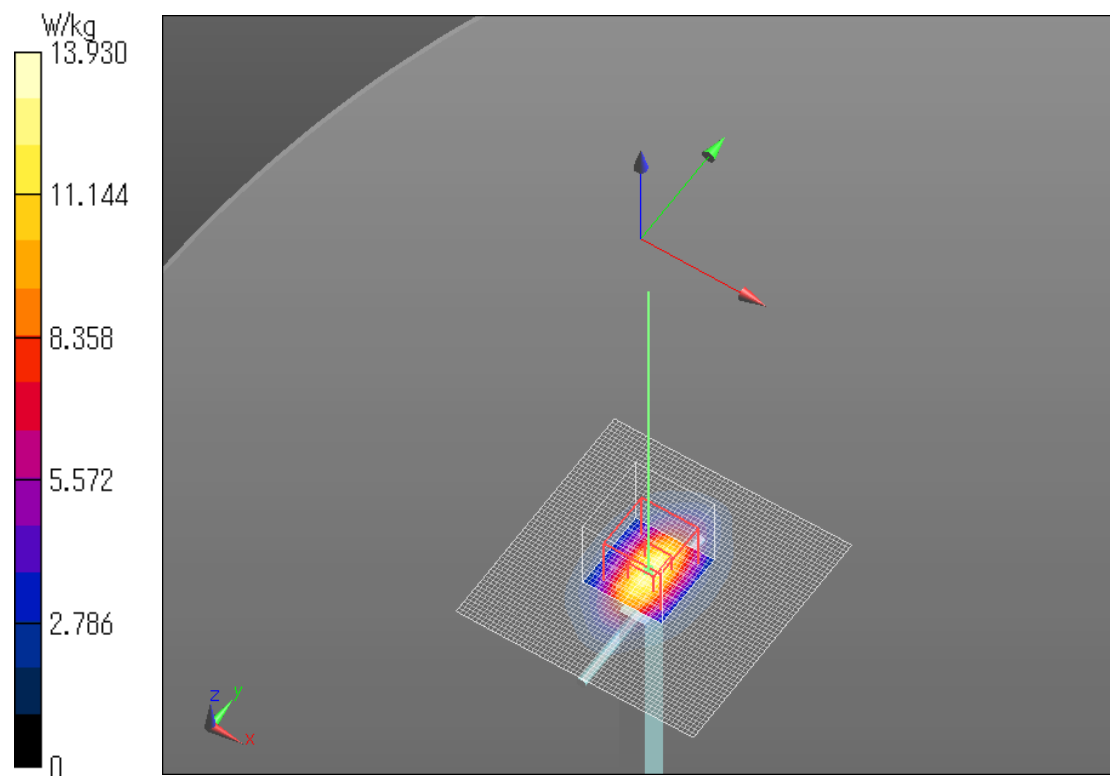
Maximum value of SAR (measured) = 13.5 W/kg

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

Maximum value of SAR (measured) = 13.9 W/kg

Date: 2018/02/20

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



20180220 Body 835MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.999$ S/m; $\epsilon_r = 54.753$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(9.93, 9.93, 9.93); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

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

Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.29 W/kg

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

Reference Value = 58.62 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.80 W/kg

SAR(1 g) = 2.61 W/kg; SAR(10 g) = 1.73 W/kg

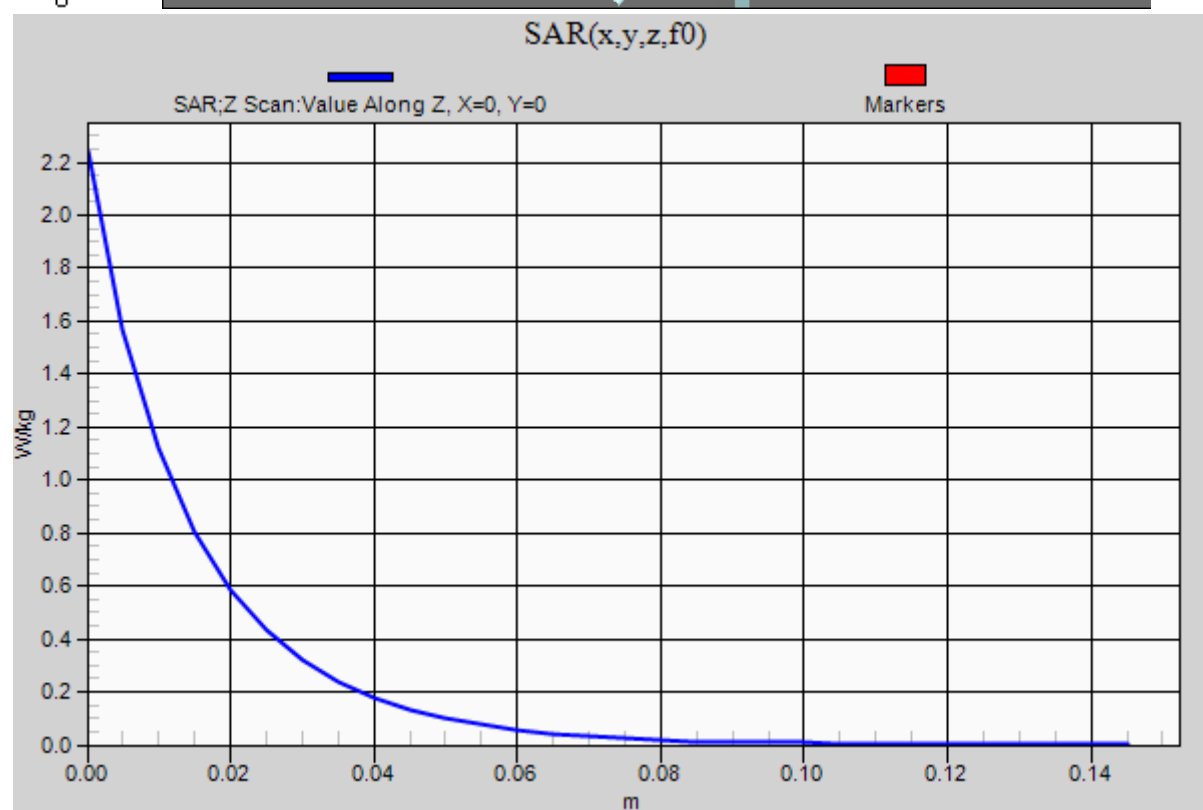
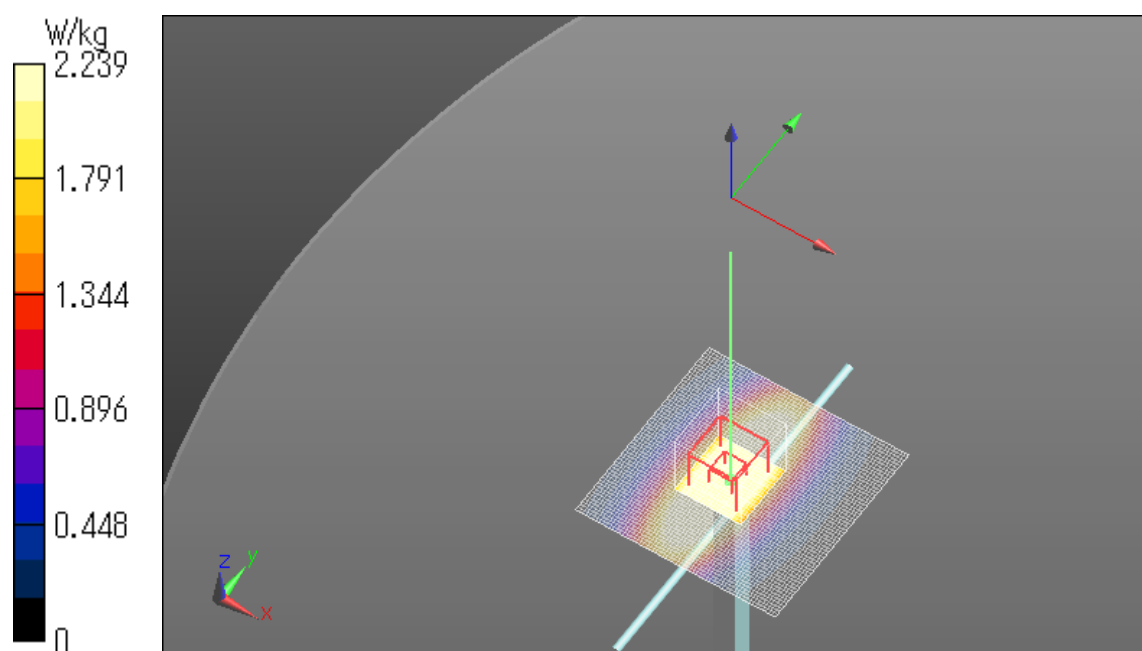
Maximum value of SAR (measured) = 3.26 W/kg

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

Maximum value of SAR (measured) = 2.24 W/kg

Date: 2018/02/20

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



20180221 Body 1900MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D1900 (1900.0 MHz);

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.552$ S/m; $\epsilon_r = 53.13$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3825; ConvF(8, 8, 8); Calibrated: 2017/12/11;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn509; Calibrated: 2017/07/11

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 (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.7 W/kg

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

Reference Value = 95.68 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 9.52 W/kg; SAR(10 g) = 4.97 W/kg

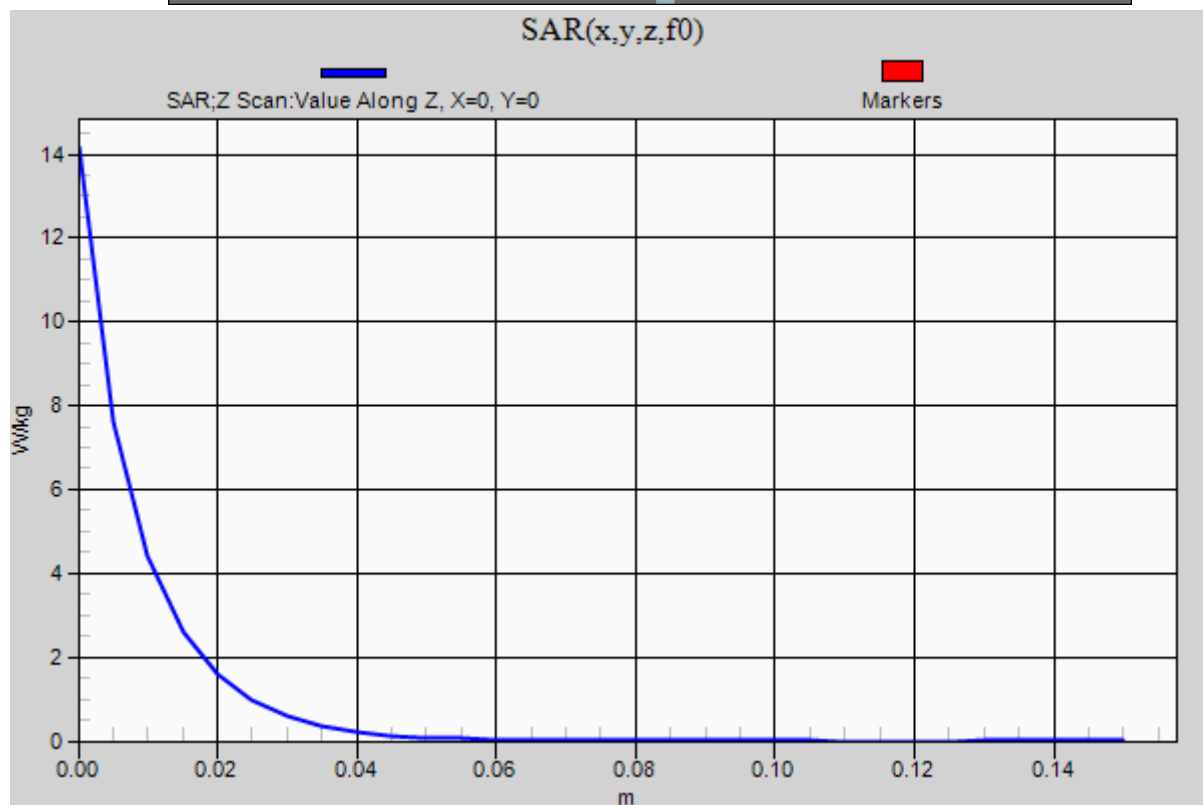
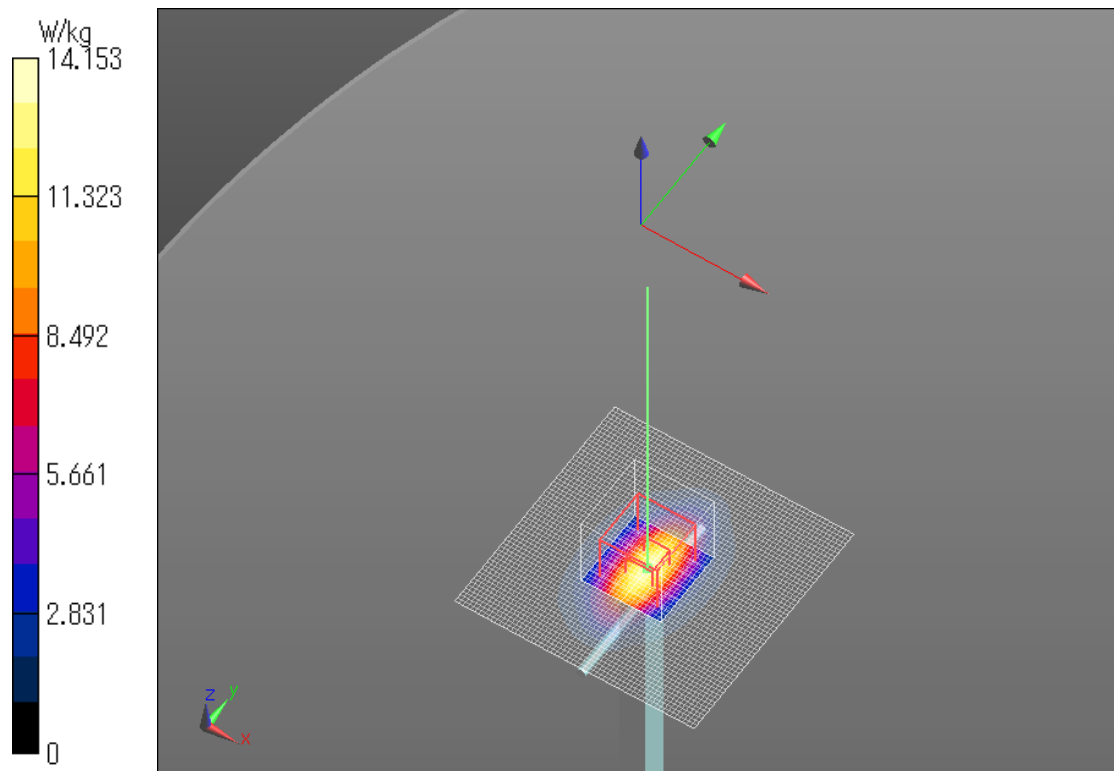
Maximum value of SAR (measured) = 13.7 W/kg

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

Maximum value of SAR (measured) = 14.2 W/kg

Date: 2018/02/21

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



20180221 Body 835MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 1.007$ S/m; $\epsilon_r = 53.961$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(9.93, 9.93, 9.93); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

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

Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.31 W/kg

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

Reference Value = 58.63 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.85 W/kg

SAR(1 g) = 2.64 W/kg; SAR(10 g) = 1.76 W/kg

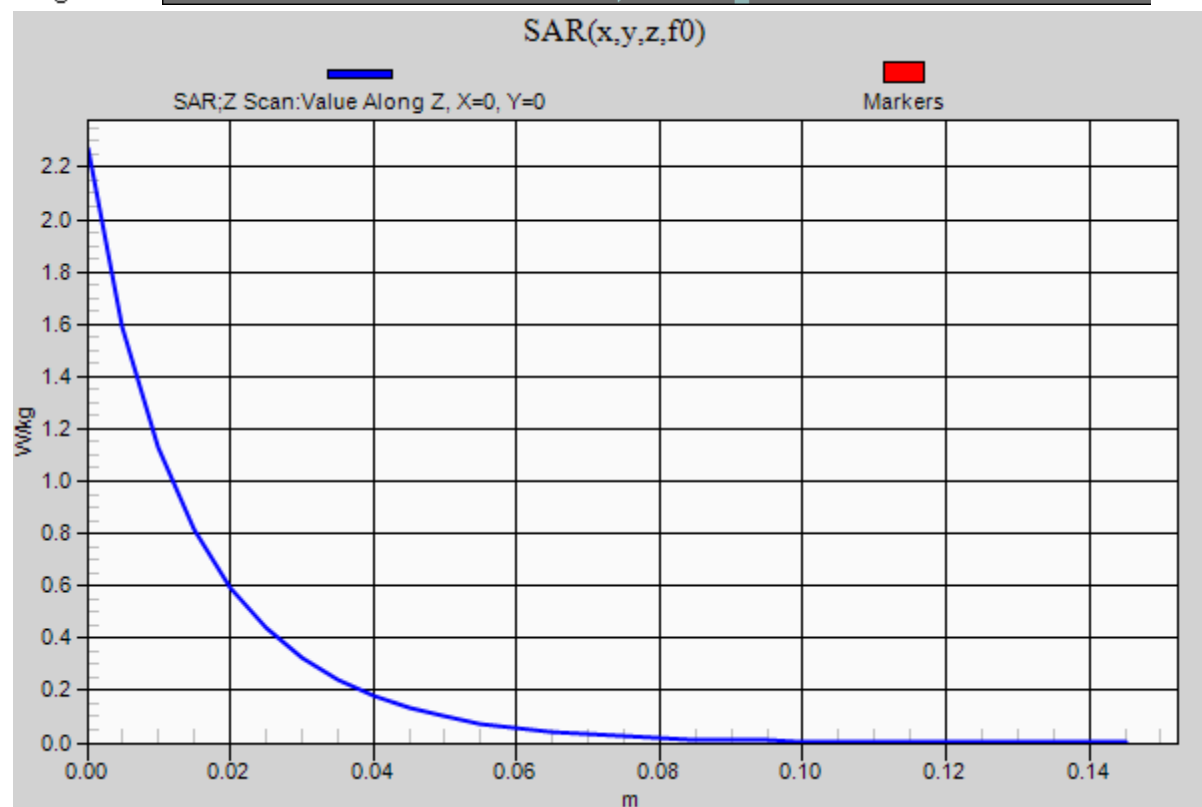
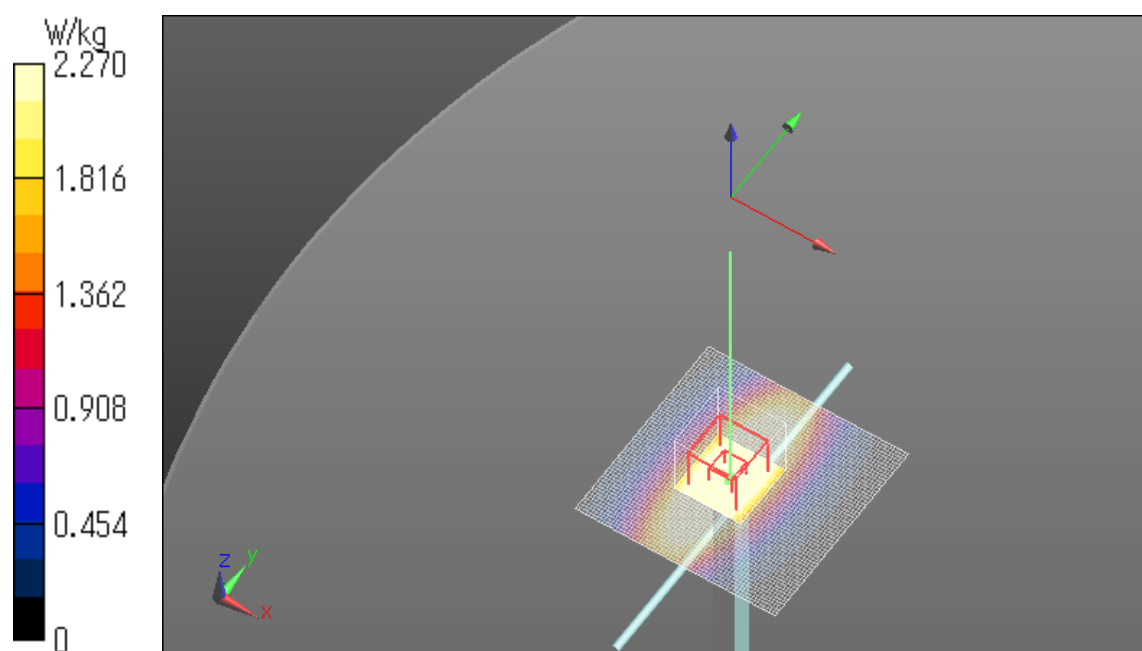
Maximum value of SAR (measured) = 3.31 W/kg

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

Maximum value of SAR (measured) = 2.27 W/kg

Date: 2018/02/21

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



20180222 Body 835MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.969$ S/m; $\epsilon_r = 53.929$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(9.93, 9.93, 9.93); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

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

Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.12 W/kg

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

Reference Value = 58.33 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.66 W/kg

SAR(1 g) = 2.51 W/kg; SAR(10 g) = 1.67 W/kg

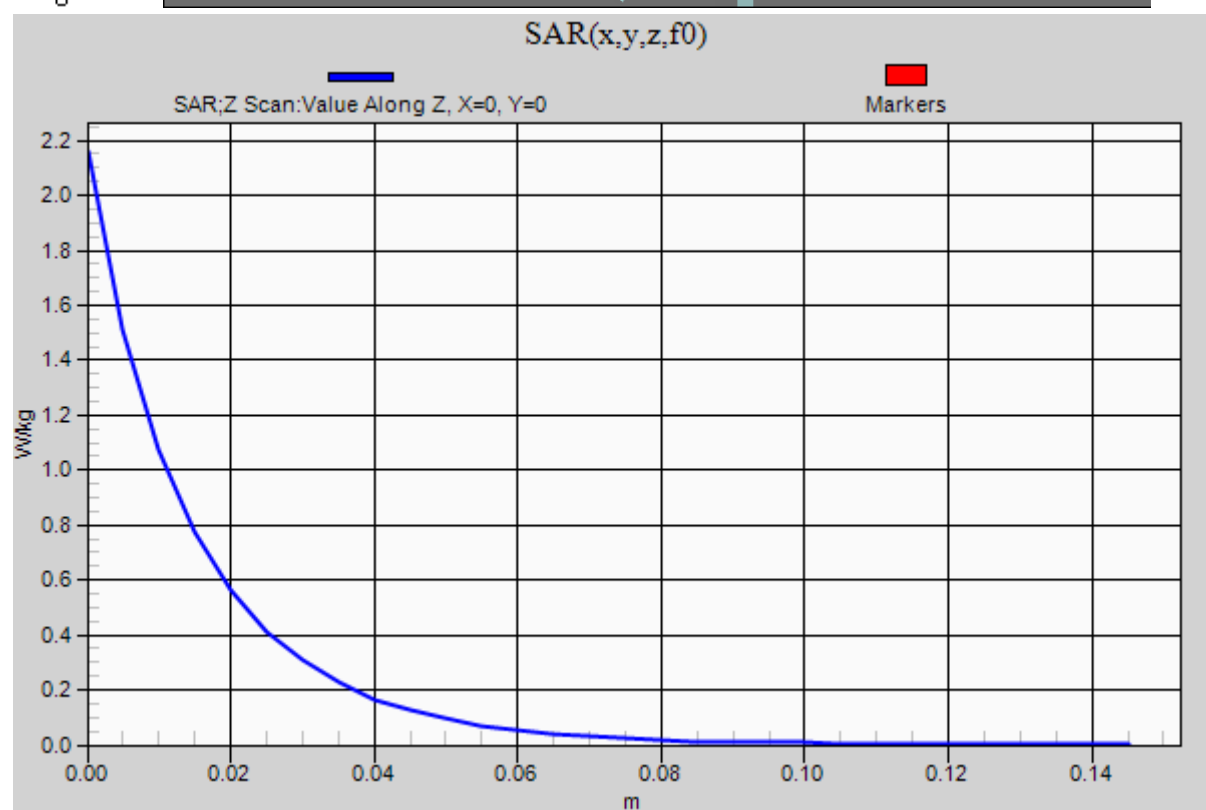
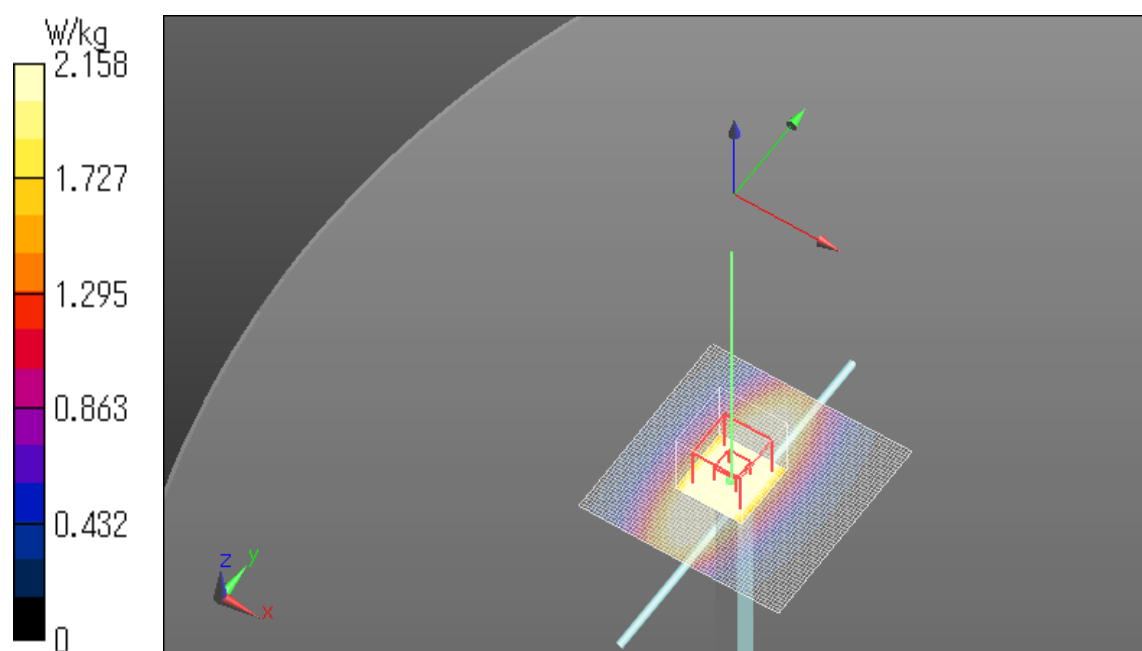
Maximum value of SAR (measured) = 3.14 W/kg

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

Maximum value of SAR (measured) = 2.16 W/kg

Date: 2018/02/22

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



20180222 Body 750MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D750 (750.0 MHz); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750$ MHz; $\sigma = 0.959$ S/m; $\epsilon_r = 54.936$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(10.29, 10.29, 10.29); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

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

Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.72 W/kg

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

Reference Value = 54.65 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.24 W/kg

SAR(1 g) = 2.2 W/kg; SAR(10 g) = 1.47 W/kg

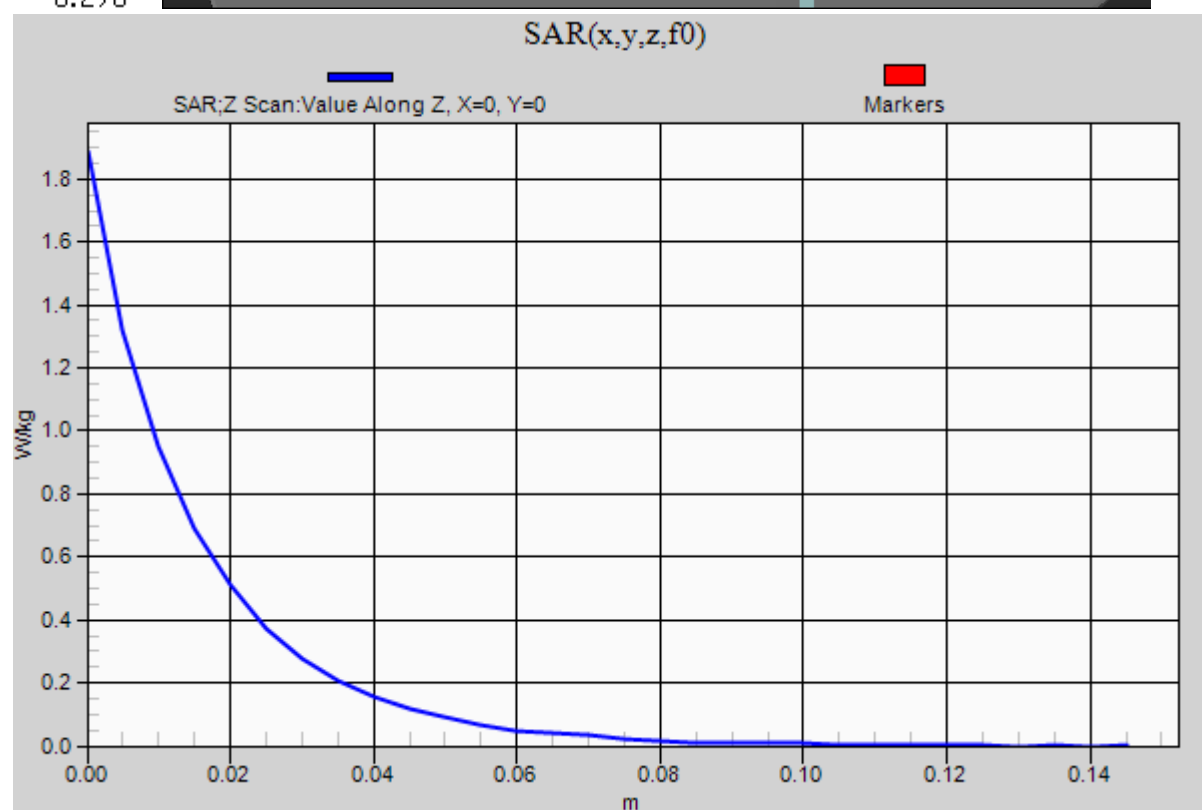
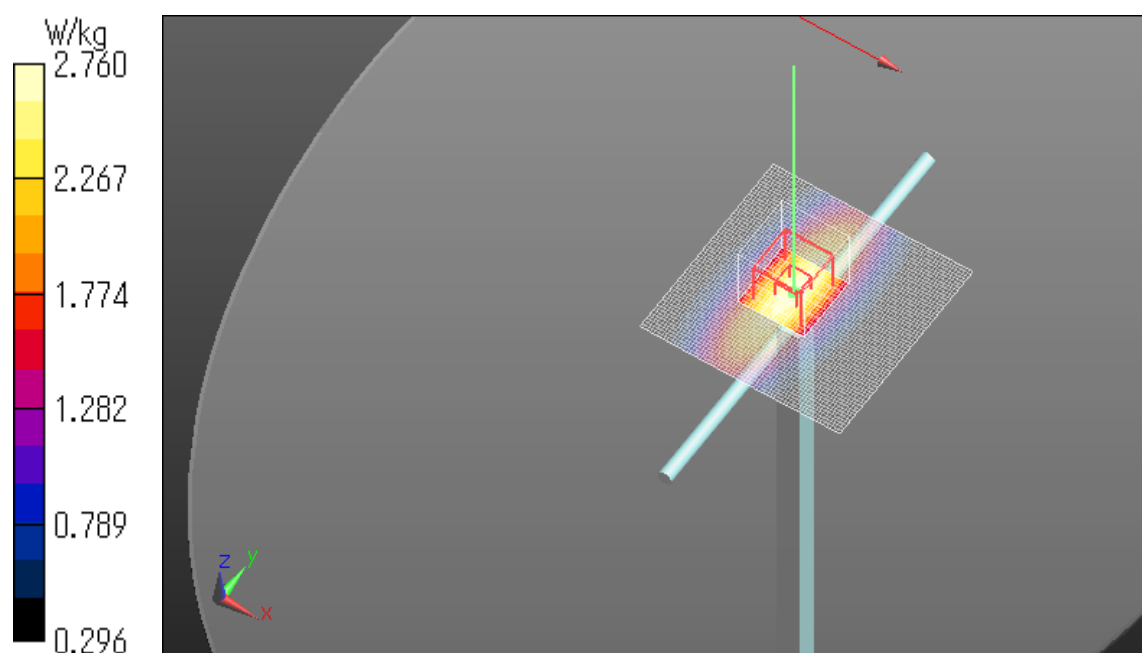
Maximum value of SAR (measured) = 2.76 W/kg

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

Maximum value of SAR (measured) = 1.89 W/kg

Date: 2018/02/27

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



20180305 Body 835MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 1 \text{ S/m}$; $\epsilon_r = 56.416$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(9.93, 9.93, 9.93); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

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

Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 3.19 W/kg

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

Reference Value = 57.90 V/m ; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 3.72 W/kg

SAR(1 g) = 2.56 W/kg ; SAR(10 g) = 1.7 W/kg

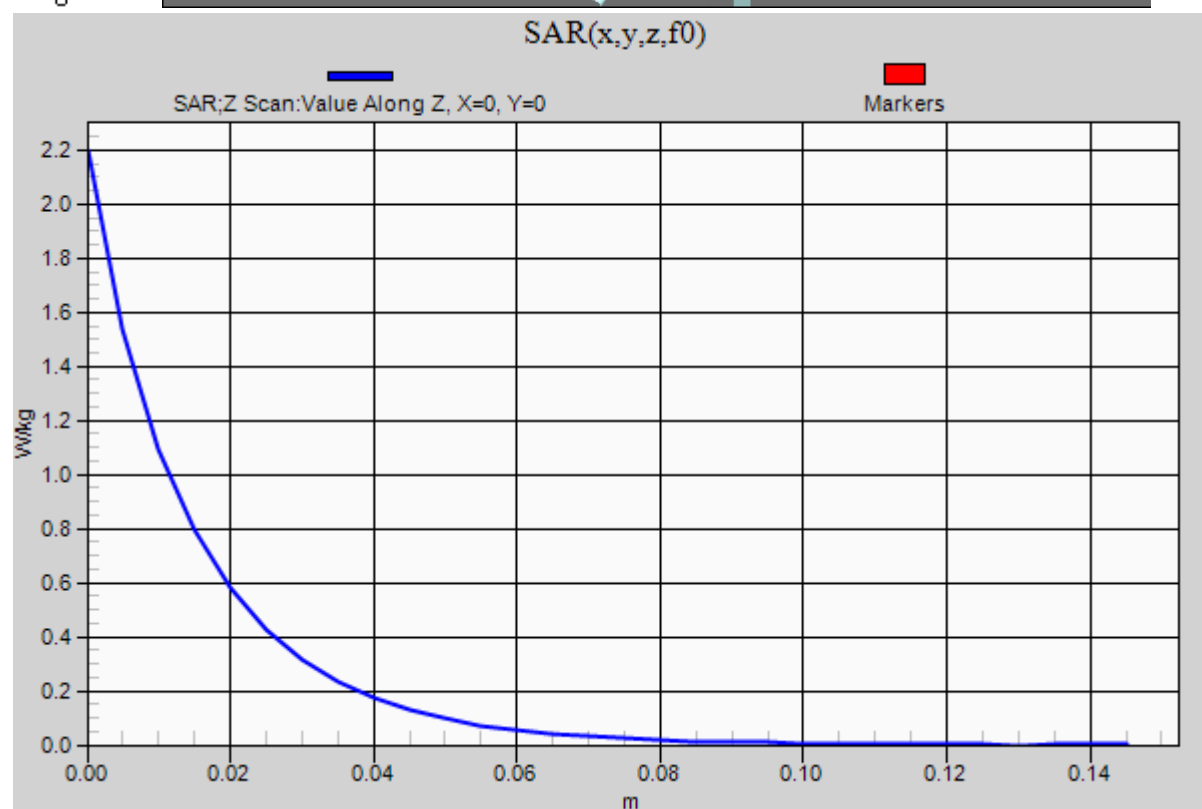
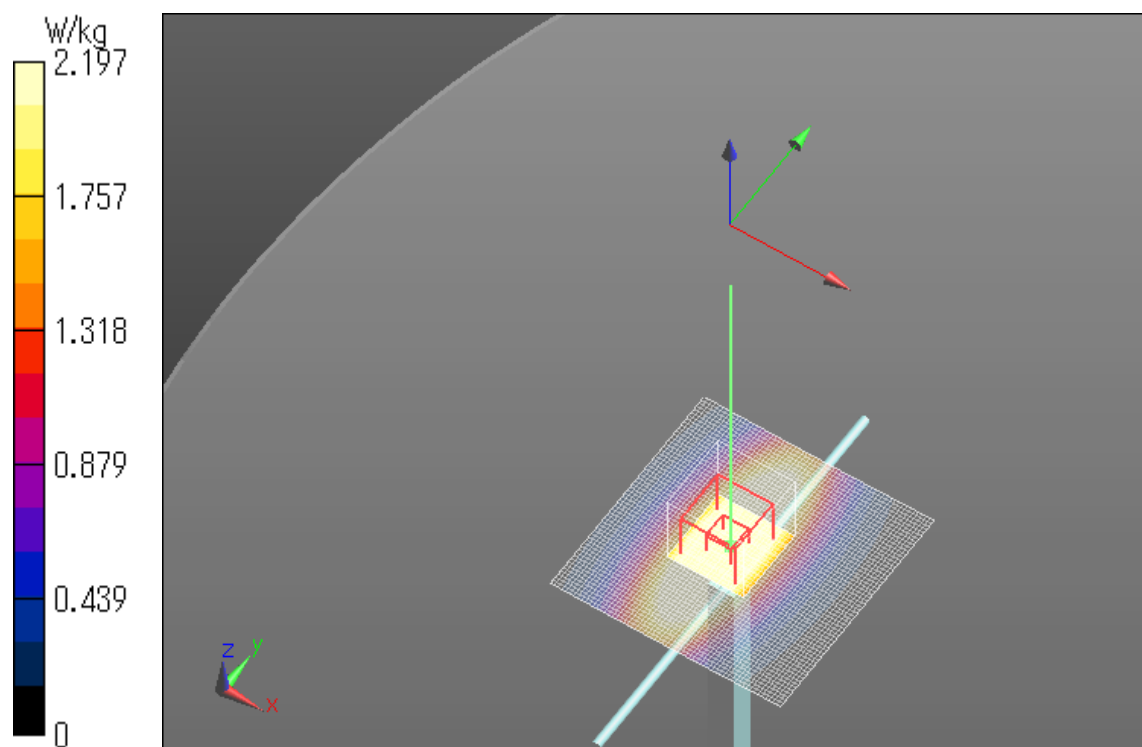
Maximum value of SAR (measured) = 3.19 W/kg

Z Scan (1x1x31): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$

Maximum value of SAR (measured) = 2.20 W/kg

Date: 2018/03/05

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



20180305 Body 750MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D750 (750.0 MHz); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750$ MHz; $\sigma = 0.97$ S/m; $\epsilon_r = 54.541$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(10.29, 10.29, 10.29); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

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

Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.84 W/kg

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

Reference Value = 55.25 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.37 W/kg

SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.53 W/kg

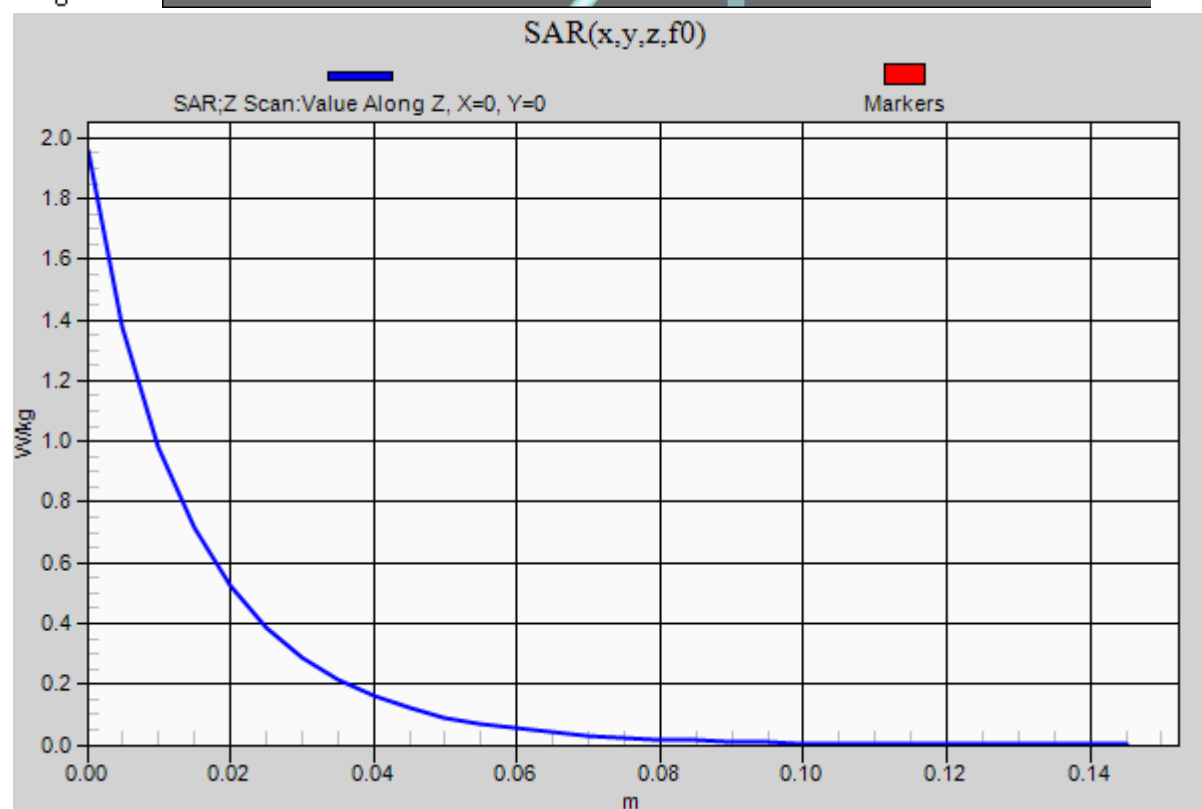
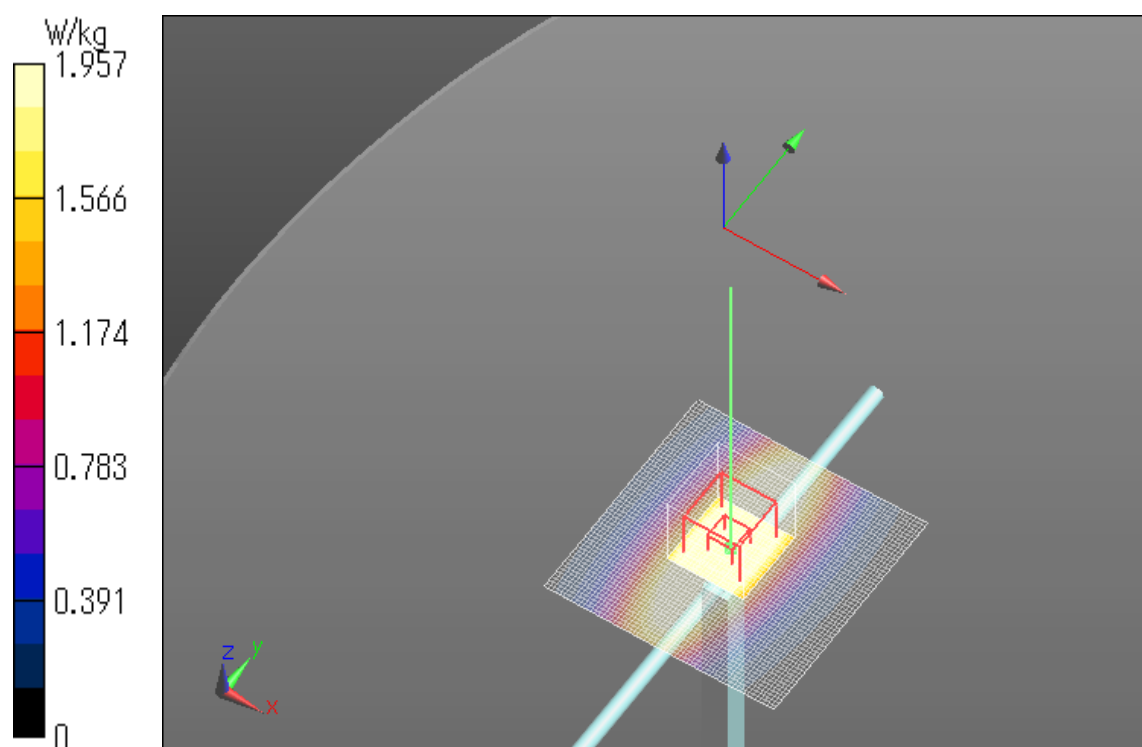
Maximum value of SAR (measured) = 2.87 W/kg

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

Maximum value of SAR (measured) = 1.96 W/kg

Date: 2018/03/05

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



20180306 Body 1900MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D1900 (1900.0 MHz);

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.503$ S/m; $\epsilon_r = 50.987$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(8.04, 8.04, 8.04); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

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

Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.3 W/kg

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

Reference Value = 96.03 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 17.0 W/kg

SAR(1 g) = 9.48 W/kg; SAR(10 g) = 5 W/kg

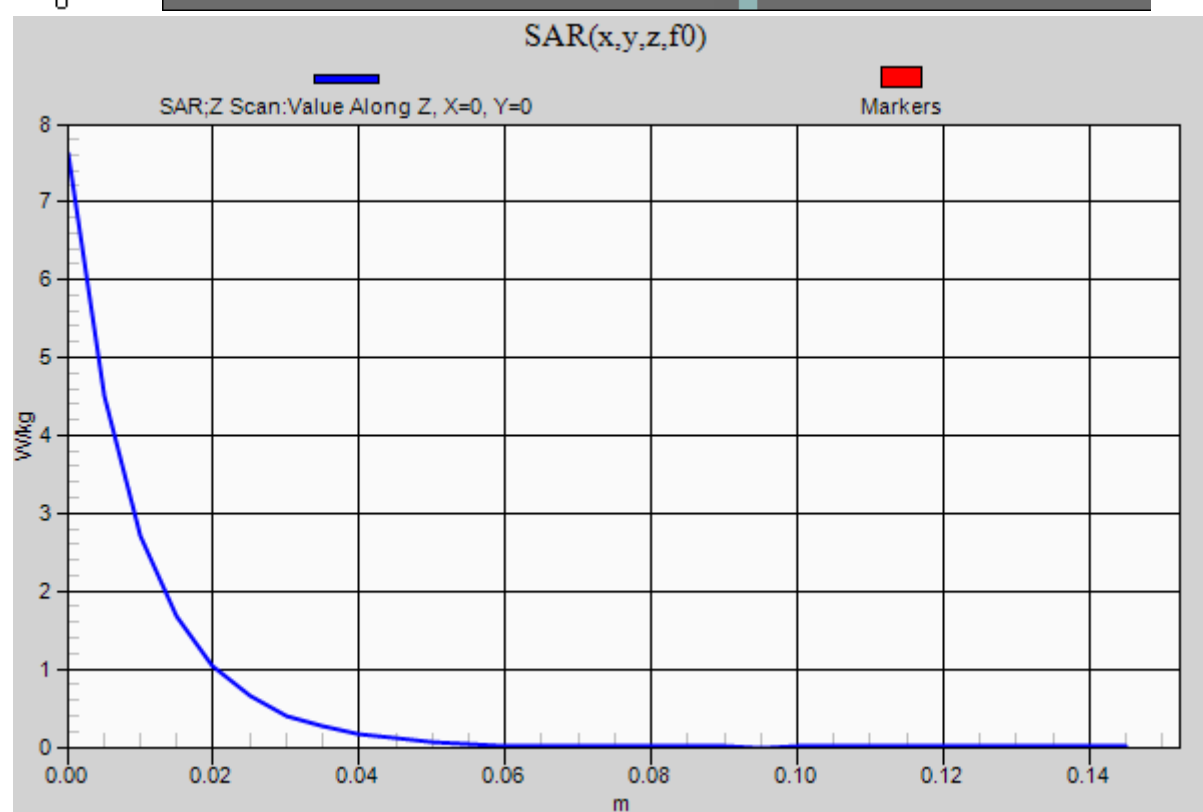
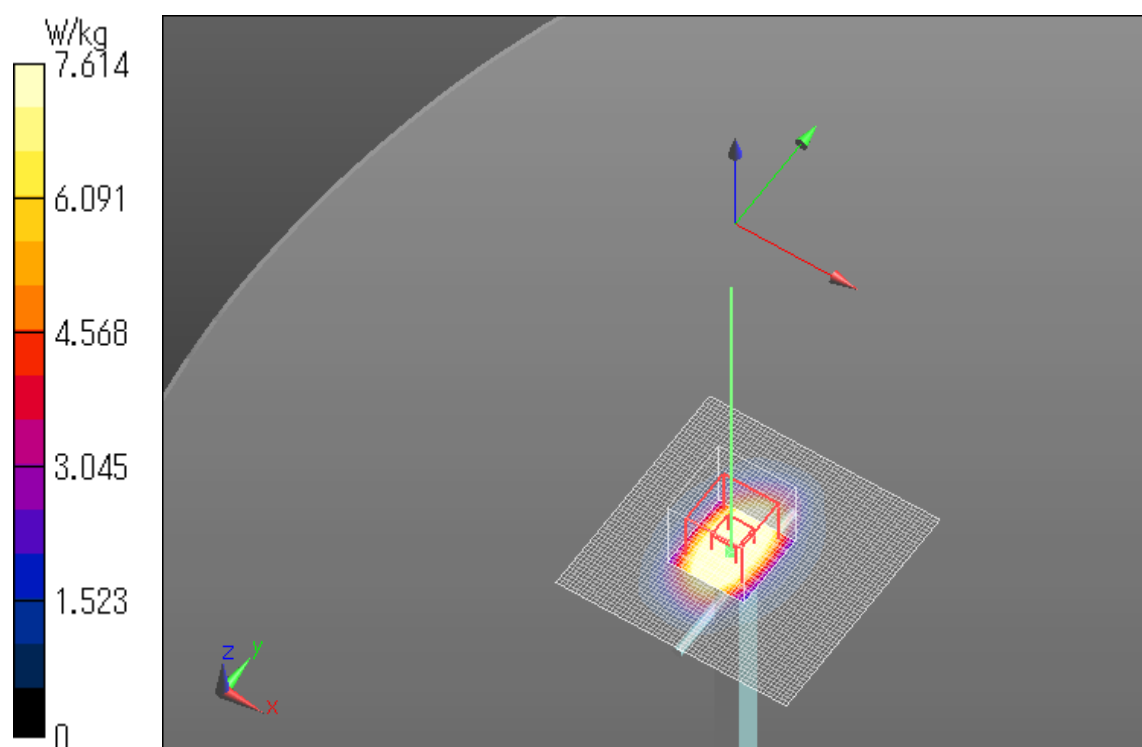
Maximum value of SAR (measured) = 13.4 W/kg

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

Maximum value of SAR (measured) = 7.61 W/kg

Date: 2018/03/06

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



20180307 Body 1750MHz System Check Power 250mW

Communication System: UID 0, CW (0); Communication System Band: D1750 (1750.0 MHz);

Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 52.701$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASYS Configuration

Probe: EX3DV4 - SN3917; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

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

Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.0 W/kg

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

Reference Value = 97.70 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 9.38 W/kg; SAR(10 g) = 5.07 W/kg

Maximum value of SAR (measured) = 13.2 W/kg

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

Maximum value of SAR (measured) = 7.72 W/kg

Date: 2018/03/07

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

