

APPENDIX B: SAR DIPOLE VERIFICATION PLOTS

ELEMENT

DUT: Dipole 150.0 MHz; Type: CLA-150 - SN4022

Communication System: UID: 0, CW; Frequency: 150.0 MHz
Medium: 150 Head; Medium parameters used:
f = 150.0 MHz; cond = 0.724 S/m; perm = 51.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 0 mm

Test Date: 9/18/2023; Ambient Temp: 20.0°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN3914; ConvF:(12.39,12.39,12.39); 2023-05-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; 2023-05-11
Phantom: ELI V4.0; Serial: 1202
Measurement SW: DASY Module SAR V16.2.0.1425

150.0 MHz System Verification at 26.99 dBm (500 mW)

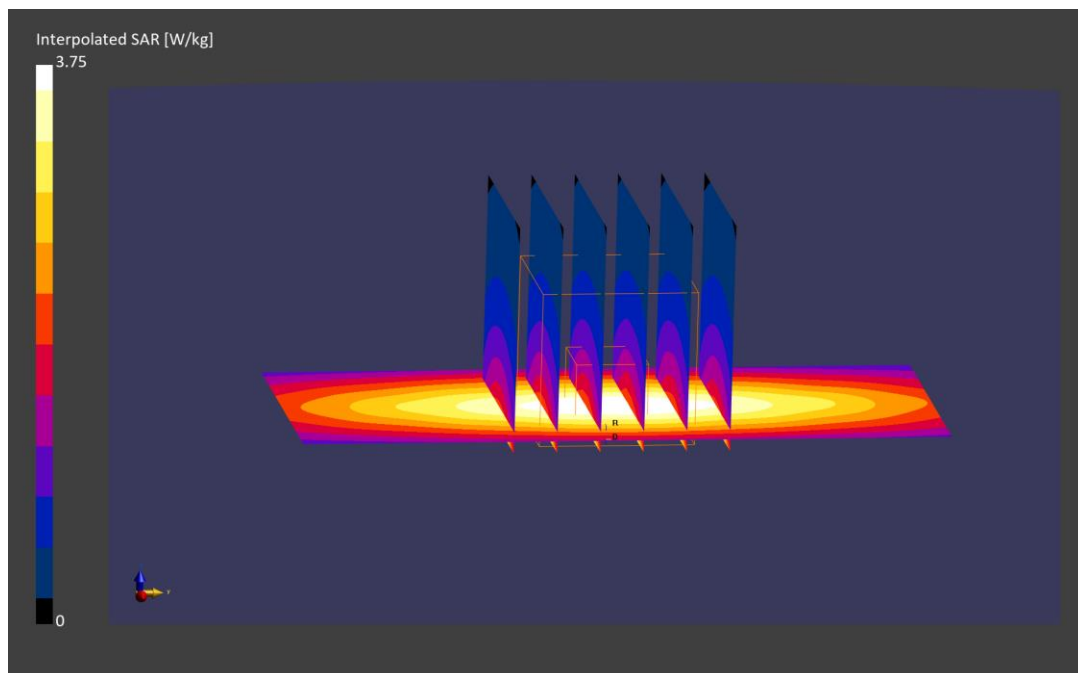
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 3.75 W/kg

SAR(1 g) = 1.97 W/kg; SAR(10 g) = 1.29 W/kg

Deviation (1 g) = 5.07%; Deviation (10 g) = 4.45%



ELEMENT

DUT: Dipole 300.0 MHz; Type: D300V3 - SN1025

Communication System: UID: 0, CW; Frequency: 300.0 MHz
Medium: 300 Head; Medium parameters used:
f = 300.0 MHz; cond = 0.856 S/m; perm = 44.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 9/18/2023; Ambient Temp: 20.0°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN3914; ConvF:(11.97,11.97,11.97); 2023-05-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; 2023-05-11
Phantom: ELI V4.0; Serial: 1202
Measurement SW: DASY Module SAR V16.2.0.1425

300.0 MHz System Verification at 23.98 dBm (250 mW)

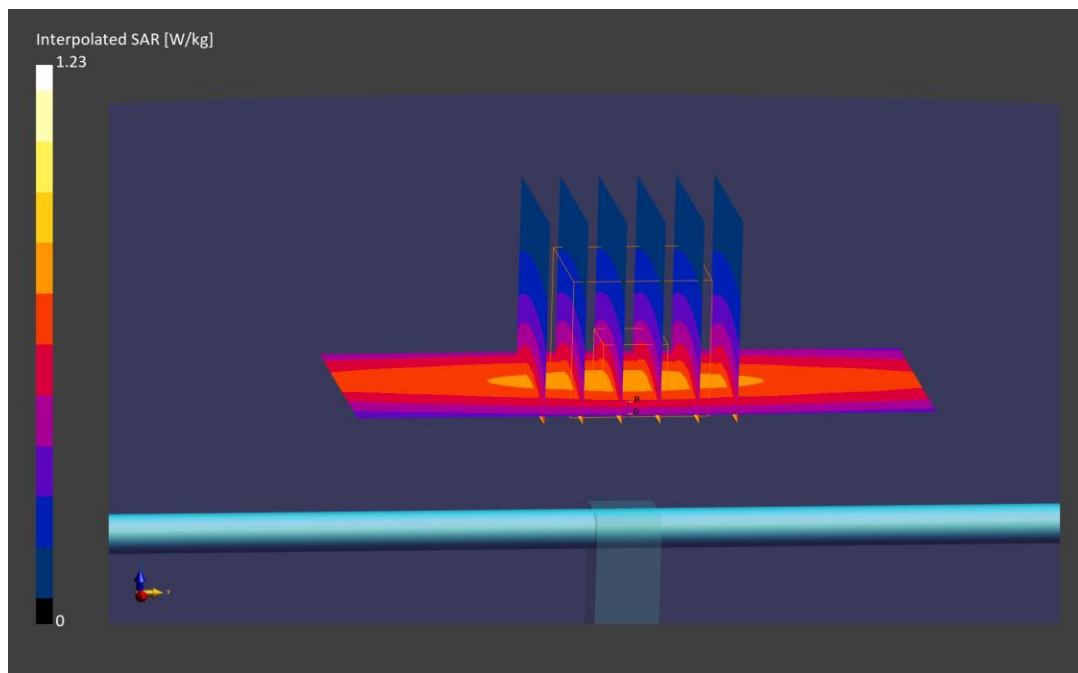
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.690 W/kg; SAR(10 g) = 0.465 W/kg

Deviation (1 g) = -3.50%; Deviation (10 g) = -3.63%



ELEMENT

DUT: Dipole 450.0 MHz; Type: D450V3 - SN1104

Communication System: UID: 0, CW; Frequency: 450.0 MHz
Medium: 450 Head; Medium parameters used:
f = 450.0 MHz; cond = 0.835 S/m; perm = 43.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 9/19/2023; Ambient Temp: 20.7°C; Tissue Temp: 24.0°C

Probe: EX3DV4 - SN3914; ConvF:(10.3,10.3,10.3); 2023-05-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; 2023-05-11
Phantom: ELI V4.0; Serial: 1202
Measurement SW: DASY Module SAR V16.2.0.1425

450.0 MHz System Verification at 23.0 dBm (200 mW)

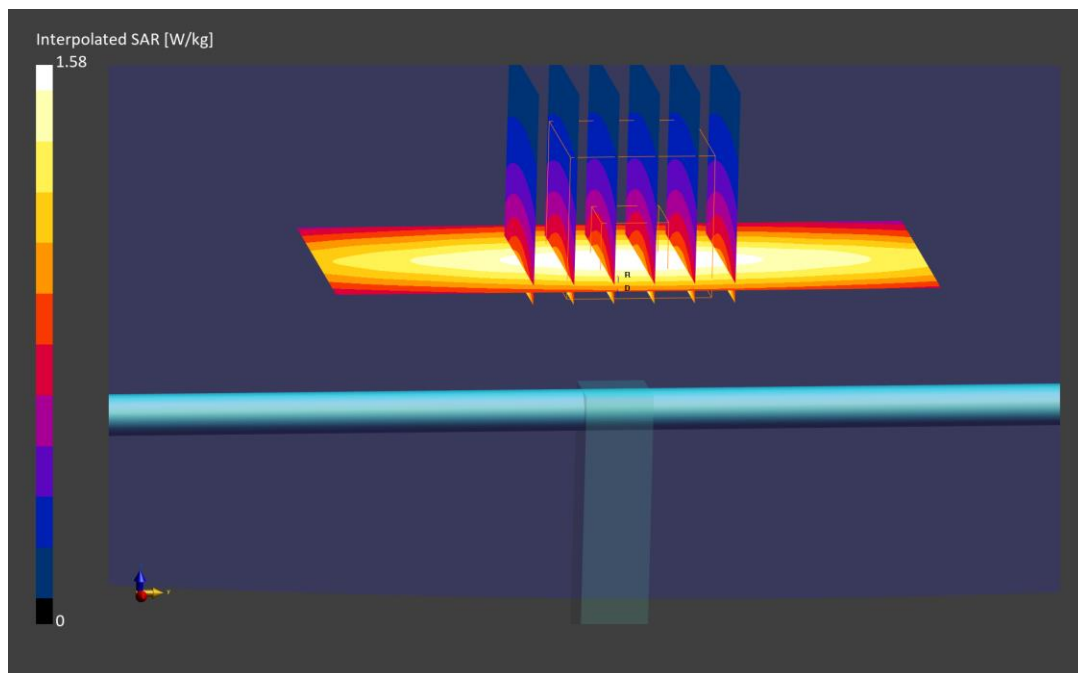
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.946 W/kg; SAR(10 g) = 0.641 W/kg

Deviation (1 g) = 3.05%; Deviation (10 g) = 3.39%



ELEMENT

DUT: Dipole 450.0 MHz; Type: D450V3 - SN1104

Communication System: UID: 0, CW; Frequency: 450.0 MHz
Medium: 450 Head; Medium parameters used:
f = 450.0 MHz; cond = 0.847 S/m; perm = 45.0; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 02/05/2024; Ambient Temp: 20.6°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN3914; ConvF:(10.3,10.3,10.3); 2023-05-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; 2023-05-11
Phantom: Twin-SAM V8.0; Serial: 2064
Measurement SW: DASY Module SAR V16.2.0.1425

450.0 MHz System Verification at 23.0 dBm (200 mW)

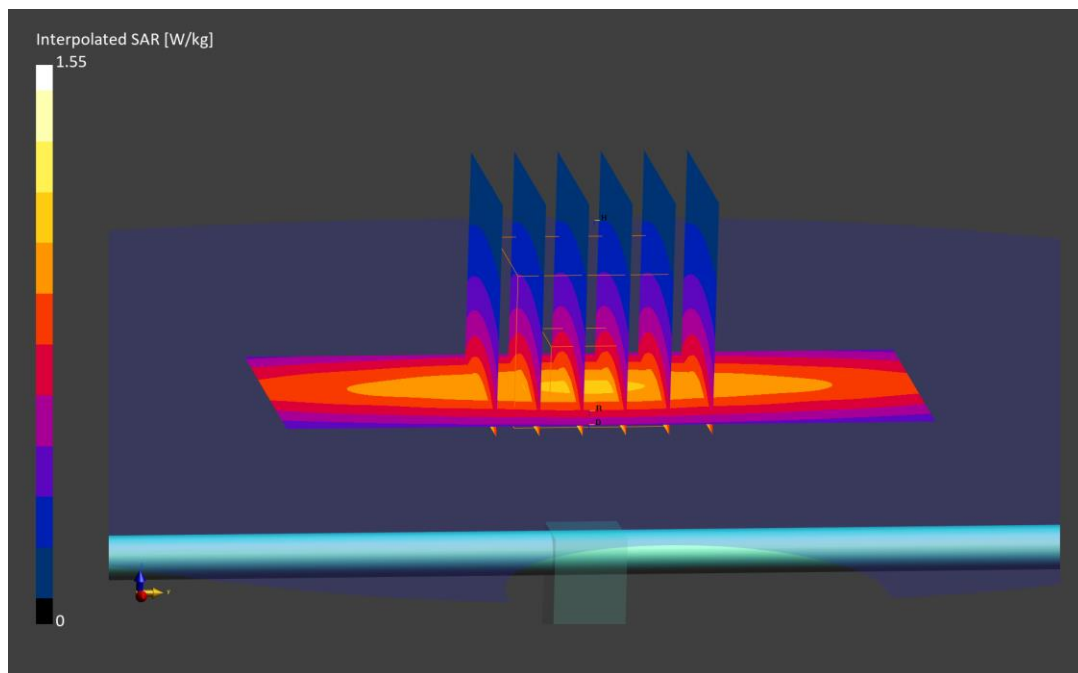
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.953 W/kg; SAR(10 g) = 0.650 W/kg

Deviation (1 g) = 3.81%; Deviation (10 g) = 4.84%



ELEMENT

DUT: Dipole 600.0 MHz; Type: D600V3 - SN1013

Communication System: UID: 0, CW; Frequency: 600.0 MHz
Medium: 600 Head; Medium parameters used:
f = 600.0 MHz; cond = 0.881 S/m; perm = 43.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 9/19/2023; Ambient Temp: 20.7°C; Tissue Temp: 24.0°C

Probe: EX3DV4 - SN3914; ConvF:(10.44,10.44,10.44); 2023-05-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; 2023-05-11
Phantom: ELI V4.0; Serial: 1202
Measurement SW: DASY Module SAR V16.2.0.1425

600.0 MHz System Verification at 23.0 dBm (200 mW)

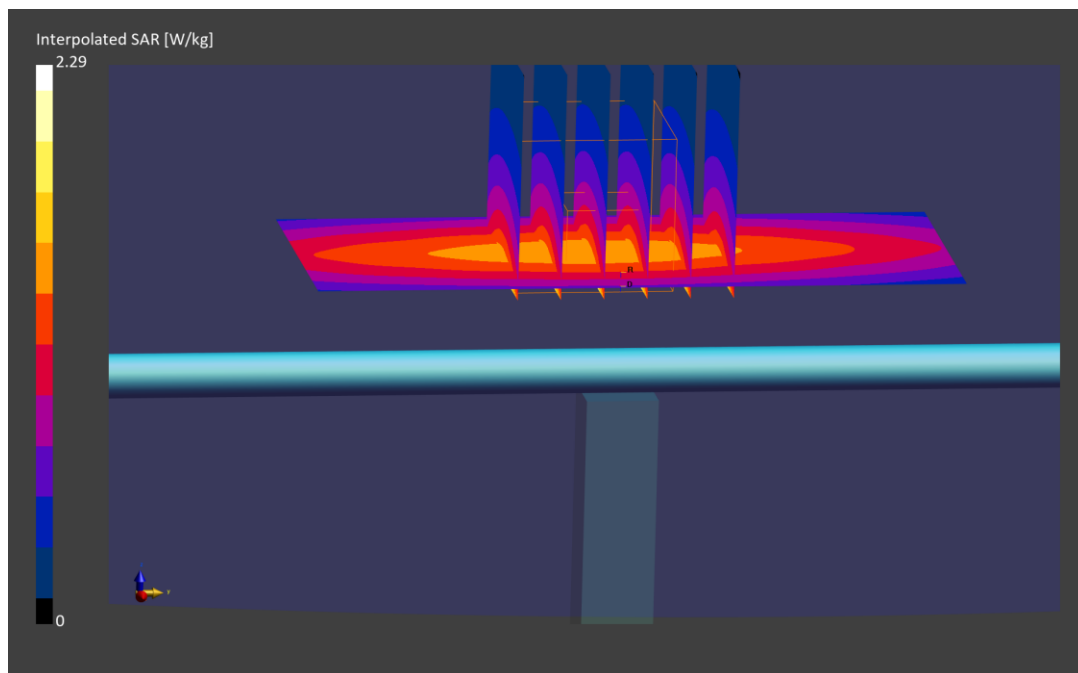
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.29 W/kg

SAR(1 g) = 1.32 W/kg; SAR(10 g) = 0.880 W/kg

Deviation (1 g) = 3.45%; Deviation (10 g) = 4.76%



ELEMENT

DUT: Dipole 600.0 MHz; Type: D600V3 - SN1013

Communication System: UID: 0, CW; Frequency: 600.0 MHz
Medium: 600 Head; Medium parameters used:
f = 600.0 MHz; cond = 0.890 S/m; perm = 44.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 02/05/2024; Ambient Temp: 20.6°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN3914; ConvF:(10.44,10.44,10.44); 2023-05-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; 2023-05-11
Phantom: Twin-SAM V8.0; Serial: 2064
Measurement SW: DASY Module SAR V16.2.0.1425

600.0 MHz System Verification at 23.0 dBm (200 mW)

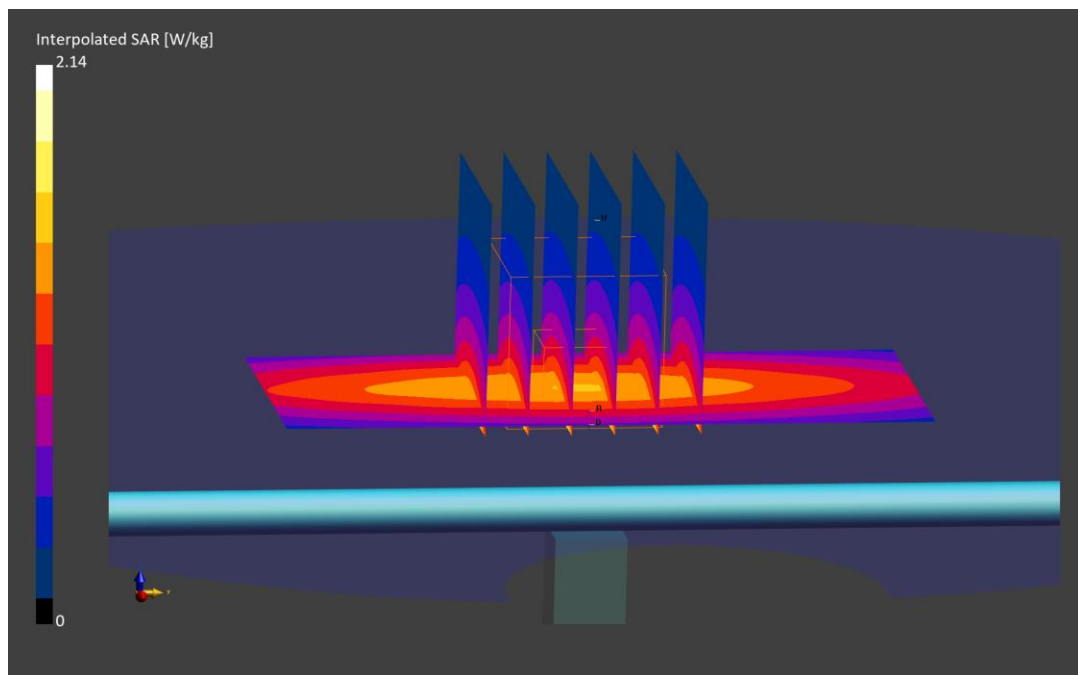
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.14 W/kg

SAR(1 g) = 1.28 W/kg; SAR(10 g) = 0.864 W/kg

Deviation (1 g) = 0.31%; Deviation (10 g) = 2.86%



ELEMENT

DUT: Dipole 900.0 MHz; Type: D900V2 - SN189

Communication System: UID: 0, CW; Frequency: 900.0 MHz
Medium: 900 Head; Medium parameters used:
f = 900.0 MHz; cond = 0.930 S/m; perm = 41.7; density = 1000 kg/m3
Phantom Section: Flat; Space: 15 mm

Test Date: 09/18/2023; Ambient Temp: 20.0°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7406; ConvF:(9.53,9.53,9.53); 2023-07-07
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; 2023-07-10
Phantom: Twin-SAM V8.0; Serial: 2056
Measurement SW: DASY Module SAR V16.2.0.1425

900.0 MHz System Verification at 23.0 dBm (200 mW)

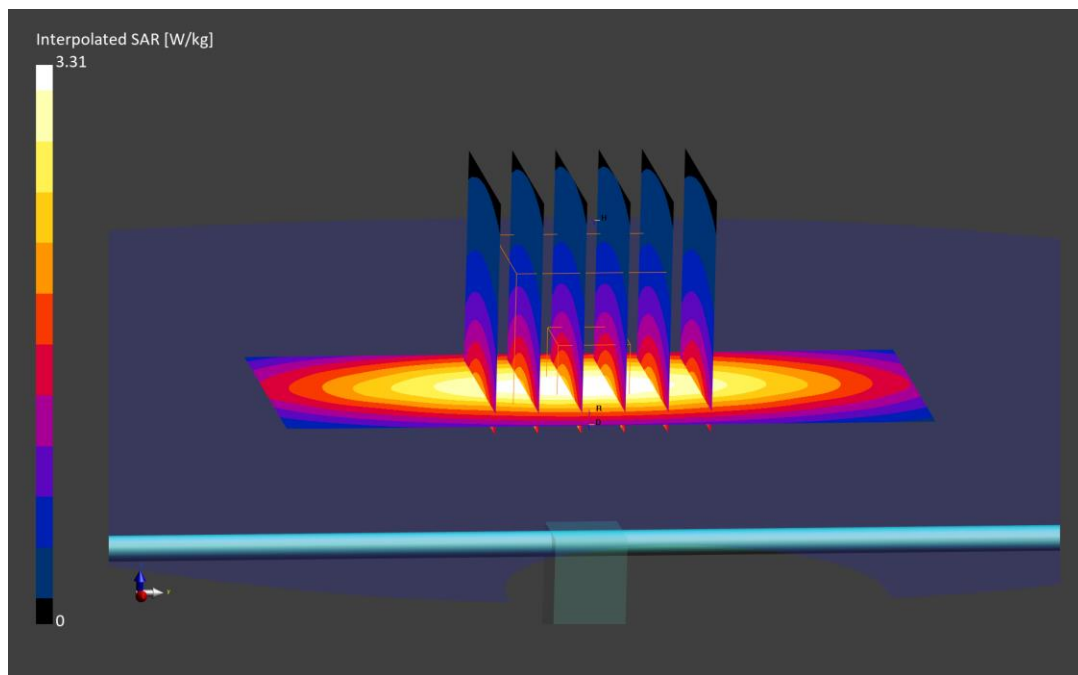
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 3.31 W/kg

SAR(1 g) = 2.07 W/kg; SAR(10 g) = 1.33 W/kg

Deviation (1 g) = -6.76%; Deviation (10 g) = -6.47%



ELEMENT

DUT: Dipole 1450.0 MHz; Type: D1450V2 - SN1025

Communication System: UID: 0, CW; Frequency: 1450.0 MHz
Medium: 1450 Head; Medium parameters used:
f = 1450.0 MHz; cond = 1.23 S/m; perm = 41.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 9/15/2023; Ambient Temp: 19.3°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN3914; ConvF:(7.93,7.93,7.93); Calibrated: 2023-05-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; Calibrated: 2023-05-11
Phantom: Twin-SAM V8.0; Serial: 2064
Measurement SW: DASY Module SAR V16.2.0.1425

1450 MHz System Verification at 20 dBm (100 mW)

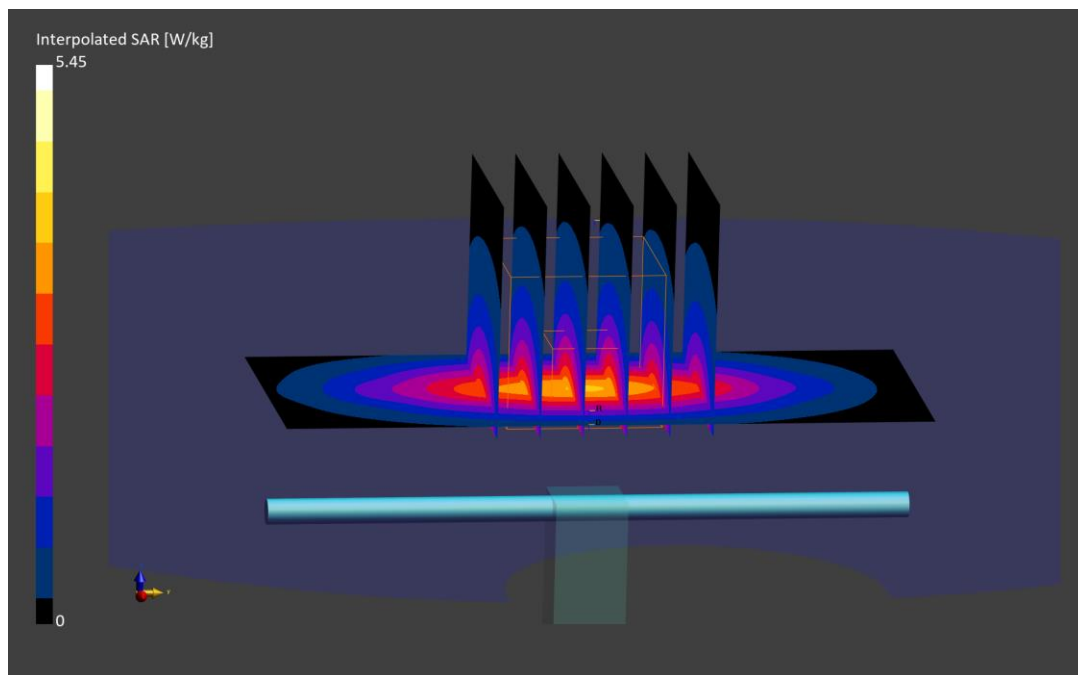
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 5.45 W/kg

SAR(1 g) = 3.03 W/kg; SAR(10 g) = 1.72 W/kg

Deviation (1 g) = 3.77%; Deviation (10 g) = 7.50%;



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN719

Communication System: UID: 0, CW; Frequency: 2450.0 MHz

Medium: 2450 Head; Medium parameters used:

f = 2450.0 MHz; cond = 1.78 S/m; perm = 39.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 09/20/2023; Ambient Temp: 24.6°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7661; ConvF:(8.03,8.03,8.03); 2023-06-14

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn728; 2023-05-11

Phantom: ELI V4.0; Serial: 1202

Measurement SW: DASY Module SAR V16.2.0.1425

2450.0 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 12.4 W/kg

SAR(1 g) = 5.72 W/kg; SAR(10 g) = 2.66 W/kg

Deviation (1 g) = 4.00%; Deviation (10 g) = 3.50%

