

APPENDIX B: SAR DIPOLE VERIFICATION PLOTS

ELEMENT

DUT: Dipole 13.000 MHz; Type: CLA-13 - SN1004

Communication System: UID: 0, CW; Frequency: 13.000 MHz
Medium: 30 Head; Medium parameters used:
f = 13.000 MHz; cond = 0.725 S/m; perm = 52.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 0 mm

Test Date: 10/07/2024; Ambient Temp: 22.8°C; Tissue Temp: 23.2°C

Probe: EX3DV4 - SN7308; ConvF:(16.59,16.59,16.59); 2024-02-09
Sensor-Surface: 1.4mm (All points)
Electronics: DAE4 Sn534; 2024-03-06
Phantom: ELI V6.0; Serial: 2003
Measurement SW: DASY Module SAR V16.4.0.5005

13.0 MHz System Verification at 30.0 dBm (1000 mW)

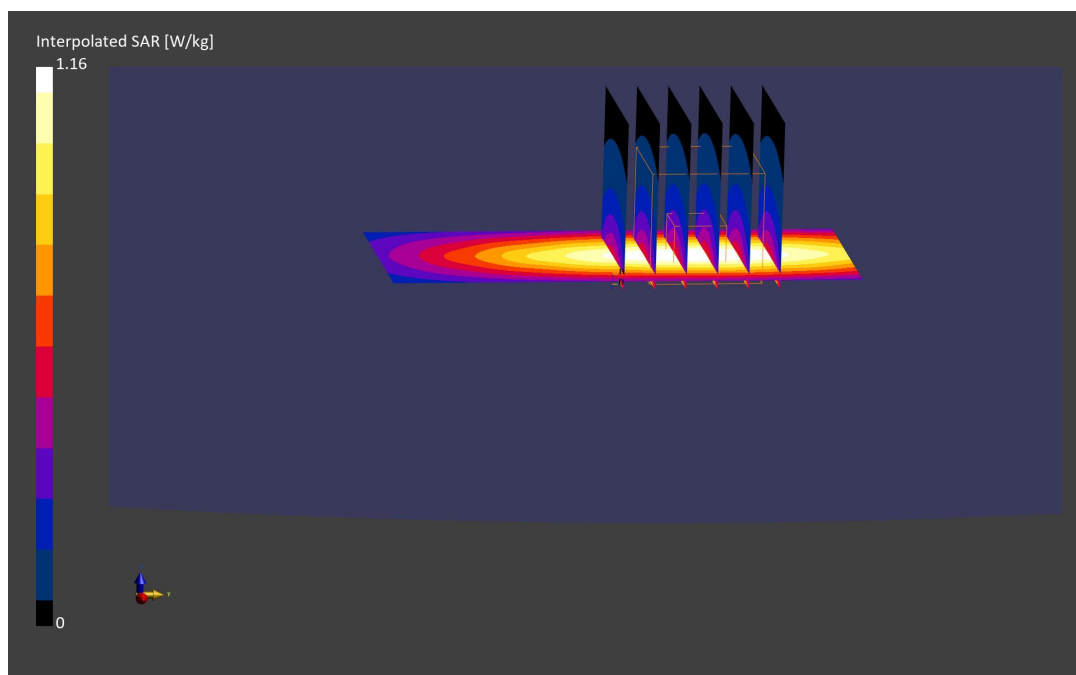
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 1.16 W/kg

SAR(1 g) = 0.552 W/kg; SAR(10 g) = 0.339 W/kg

Deviation (1 g) = -4.50%; Deviation (10 g) = -4.78%



ELEMENT

DUT: Dipole 750.000 MHz; Type: D750V3 - SN1161

Communication System: UID: 0, CW; Frequency: 750.000 MHz
Medium: 750 Head; Medium parameters used:
f = 750.000 MHz; cond = 0.911 S/m; perm = 40.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 09/17/2024; Ambient Temp: 23.9°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN7406; ConvF:(9.51,8.99,10.02); 2024-07-05
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; 2024-07-08
Phantom: Twin-SAM V5.0; Serial: 1800
Measurement SW: DASY Module SAR V16.4.0.5005

750.0 MHz System Verification at 23.0 dBm (200 mW)

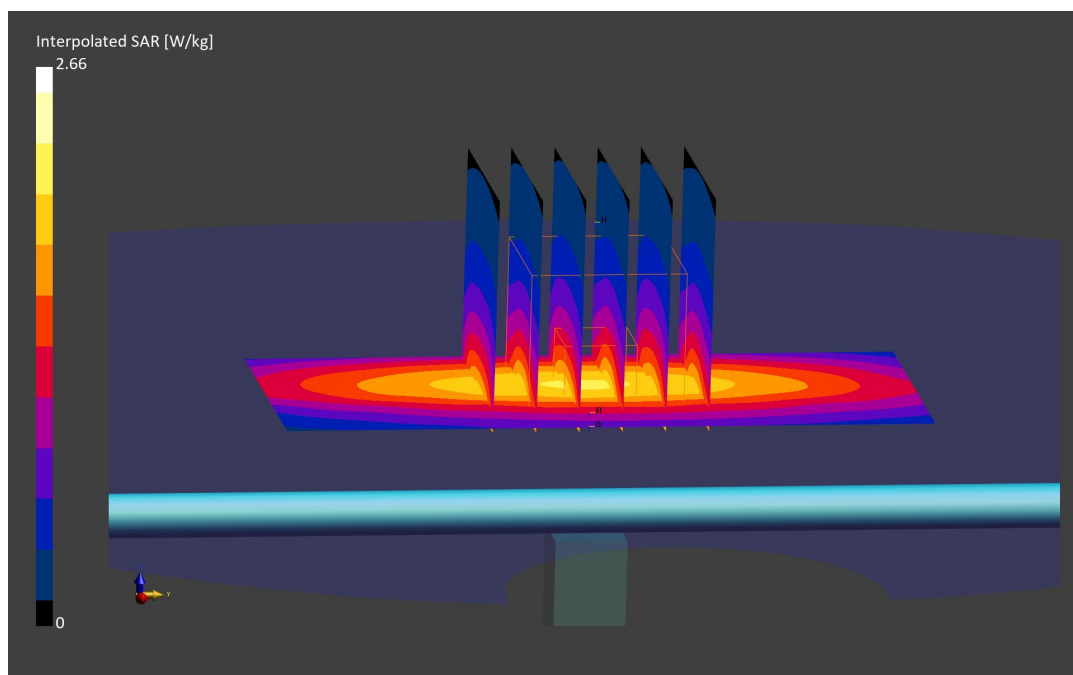
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 2.66 W/kg

SAR(1 g) = 1.73 W/kg; SAR(10 g) = 1.13 W/kg

Deviation (1 g) = 2.49%; Deviation (10 g) = 2.54%



ELEMENT

DUT: Dipole 750.000 MHz; Type: D750V3 - SN1054

Communication System: UID: 0, CW; Frequency: 750.000 MHz
Medium: 750 Head; Medium parameters used:
f = 750.000 MHz; cond = 0.882 S/m; perm = 43.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 10/09/2024; Ambient Temp: 23.2°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7803; ConvF:(9.32,9.52,9.69); 2024-06-28
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1583; 2024-07-08
Phantom: Twin-SAM V8.0; Serial: 2065
Measurement SW: DASY Module SAR V16.4.0.5005

750.0 MHz System Verification at 23.0 dBm (200 mW)

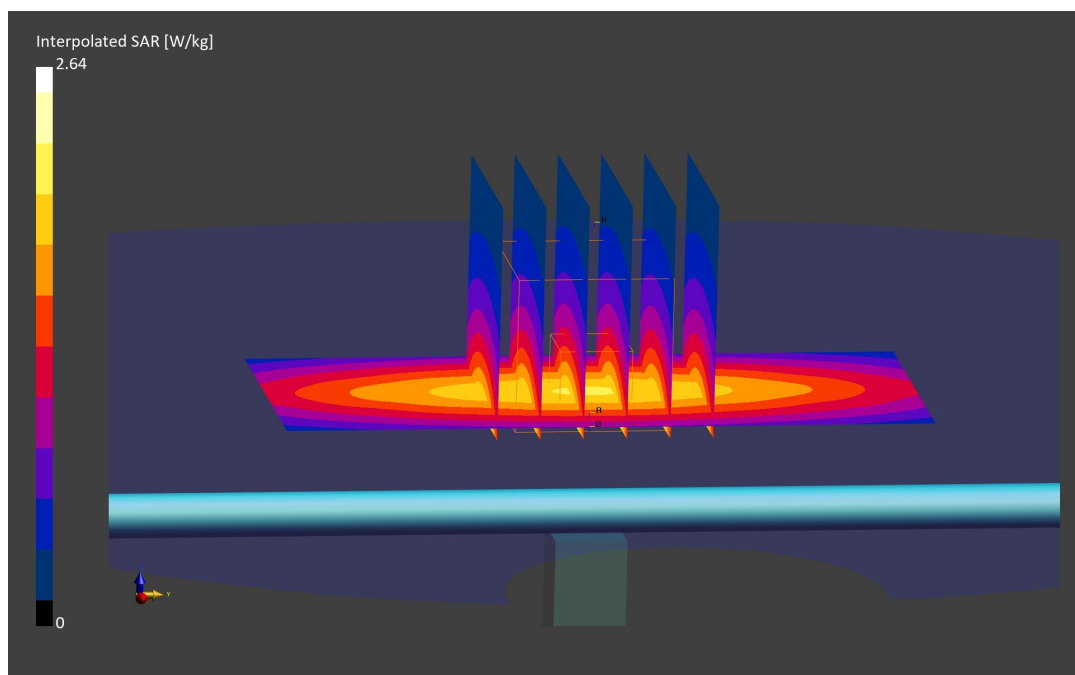
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 2.64 W/kg

SAR(1 g) = 1.77 W/kg; SAR(10 g) = 1.18 W/kg

Deviation (1 g) = 3.87%; Deviation (10 g) = 5.36%



ELEMENT

DUT: Dipole 835.000 MHz; Type: D835V2 - SN4d047

Communication System: UID: 0, CW; Frequency: 835.000 MHz
Medium: 750 Head; Medium parameters used:
f = 835.000 MHz; cond = 0.943 S/m; perm = 39.8; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 09/15/2024; Ambient Temp: 24.3°C; Tissue Temp: 23.1°C

Probe: EX3DV4 - SN7406; ConvF:(9.29,8.78,9.79); 2024-07-05
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; 2024-07-08
Phantom: Twin-SAM V5.0; Serial: 1800
Measurement SW: DASY Module SAR V16.4.0.5005

835.0 MHz System Verification at 23.0 dBm (200 mW)

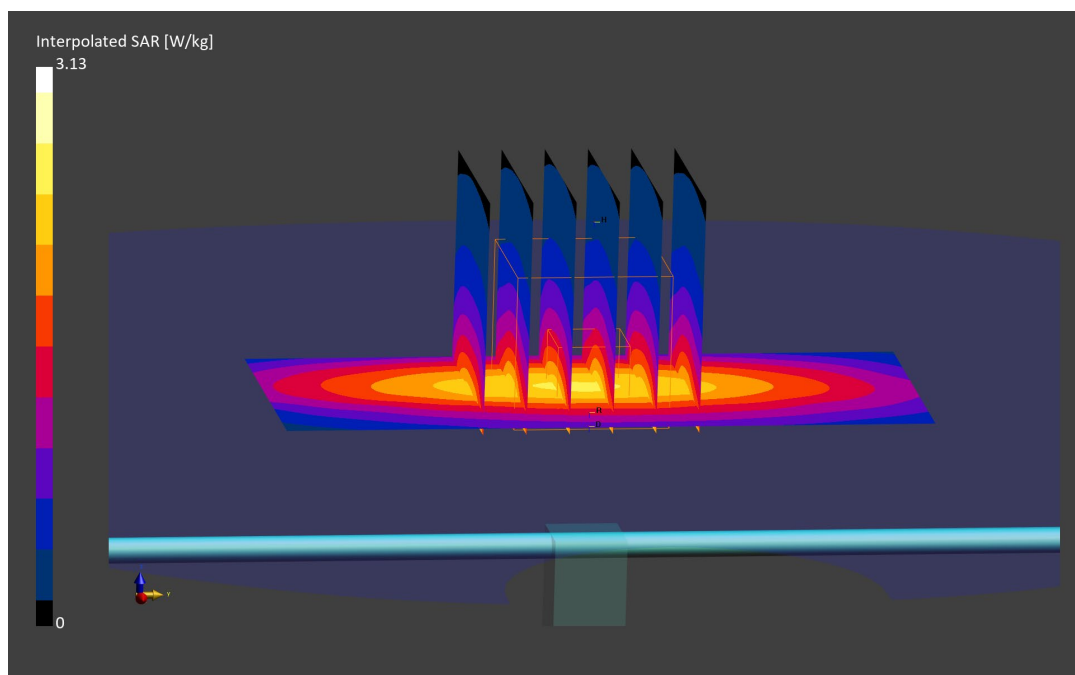
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.13 W/kg

SAR(1 g) = 2.05 W/kg; SAR(10 g) = 1.33 W/kg

Deviation (1 g) = 6.22%; Deviation (10 g) = 5.39%



ELEMENT

DUT: Dipole 835.000 MHz; Type: D835V2 - SN4d047

Communication System: UID: 0, CW; Frequency: 835.000 MHz
Medium: 750 Head; Medium parameters used:
f = 835.000 MHz; cond = 0.942 S/m; perm = 39.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 09/17/2024; Ambient Temp: 23.9°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN7406; ConvF:(9.29,8.78,9.79); 2024-07-05
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; 2024-07-08
Phantom: Twin-SAM V5.0; Serial: 1800
Measurement SW: DASY Module SAR V16.4.0.5005

835.0 MHz System Verification at 23.0 dBm (200 mW)

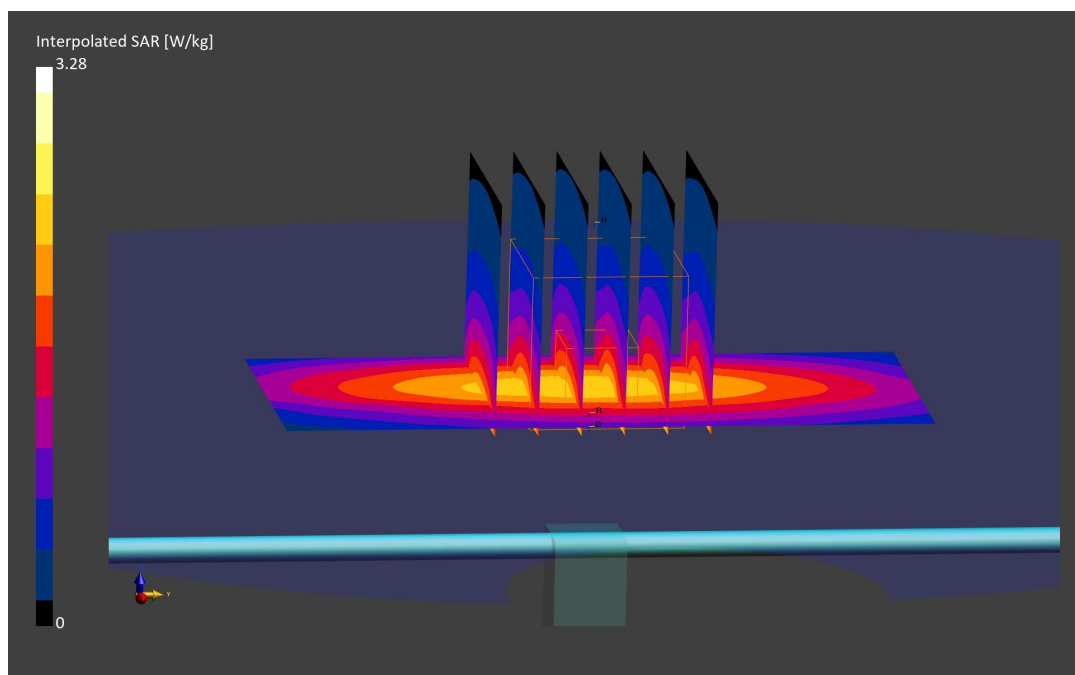
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.28 W/kg

SAR(1 g) = 2.07 W/kg; SAR(10 g) = 1.34 W/kg

Deviation (1 g) = 7.25%; Deviation (10 g) = 6.18%



ELEMENT

DUT: Dipole 835.000 MHz; Type: D835V2 - SN4d119

Communication System: UID: 0, CW; Frequency: 835.000 MHz
Medium: 835 Head; Medium parameters used:
f = 835.000 MHz; cond = 0.910 S/m; perm = 42.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 10/02/2024; Ambient Temp: 22.7°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7558; ConvF:(9.68,9.17,9.65); 2024-09-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1364; 2024-09-10
Phantom: Twin-SAM V8.0; Serial: 1934
Measurement SW: DASY Module SAR V16.4.0.5005

835.0 MHz System Verification at 23.0 dBm (200 mW)

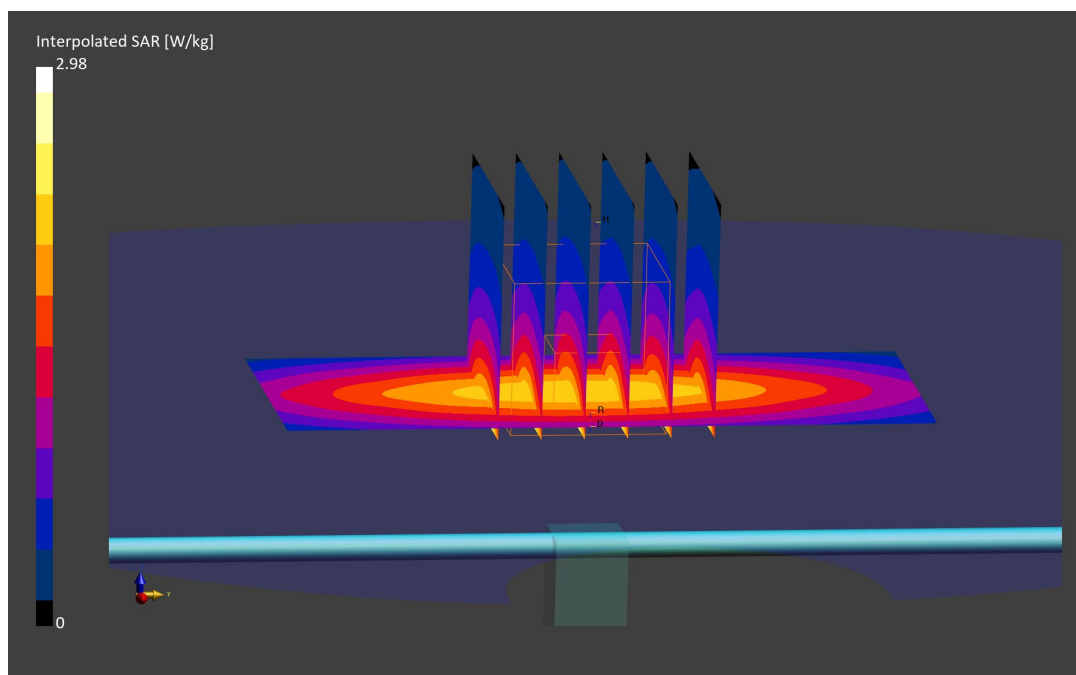
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 2.98 W/kg

SAR(1 g) = 1.95 W/kg; SAR(10 g) = 1.28 W/kg

Deviation (1 g) = -2.11%; Deviation (10 g) = -1.23%



ELEMENT

DUT: Dipole 835.000 MHz; Type: D835V2 - SN4d119

Communication System: UID: 0, CW; Frequency: 835.000 MHz

Medium: 835 Head; Medium parameters used:

f = 835.000 MHz; cond = 0.920 S/m; perm = 42.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 10/23/2024; Ambient Temp: 20.5°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7402; ConvF:(8.42,9.63,9.16); 2024-05-10

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

Electronics: DAE4 Sn1502; 2024-05-08

Phantom: Twin-SAM V5.0; Serial: 1797

Measurement SW: DASY Module SAR V16.4.0.5005

835.0 MHz System Verification at 23.0 dBm (200 mW)

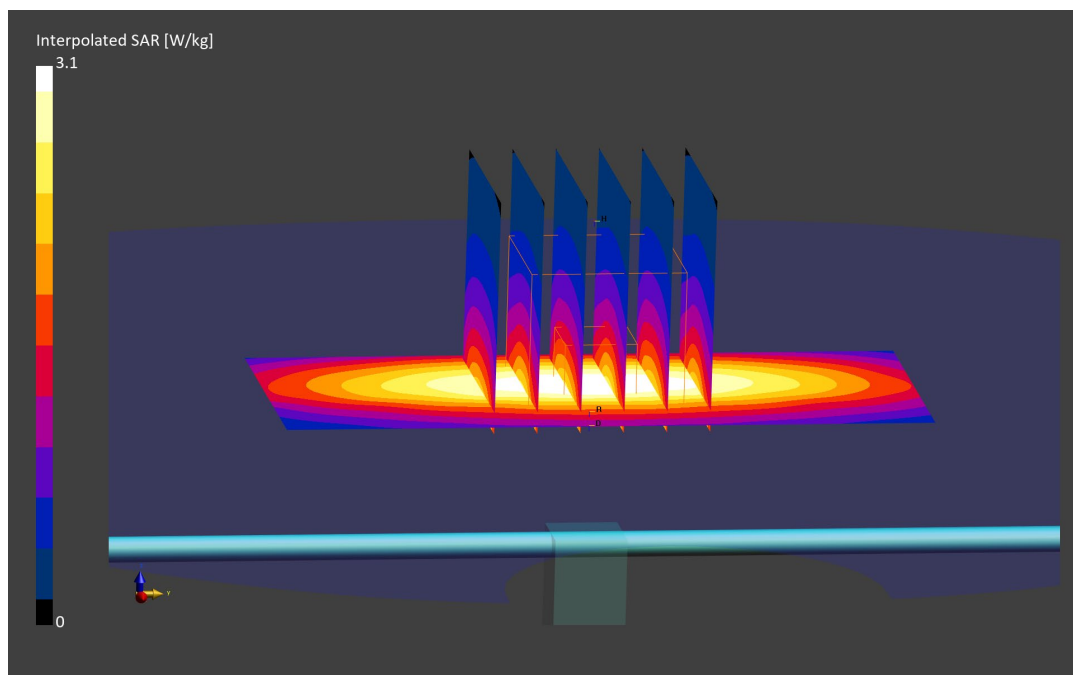
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.10 W/kg

SAR(1 g) = 2.10 W/kg; SAR(10 g) = 1.38 W/kg

Deviation (1 g) = 5.42%; Deviation (10 g) = 6.48%



ELEMENT

DUT: Dipole 1750.000 MHz; Type: D1750V2 - SN1148

Communication System: UID: 0, CW; Frequency: 1750.000 MHz
Medium: 1750 Head; Medium parameters used:
f = 1750.000 MHz; cond = 1.31 S/m; perm = 40.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 09/15/2024; Ambient Temp: 22.5°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7803; ConvF:(7.77,7.94,8.07); 2024-06-28
Sensor-Surface: 1.4mm (All points)
Electronics: DAE4 Sn1583; 2024-07-08
Phantom: Twin-SAM V8.0; Serial: 2065
Measurement SW: DASY Module SAR V16.4.0.5005

1750.0 MHz System Verification at 20.0 dBm (100 mW)

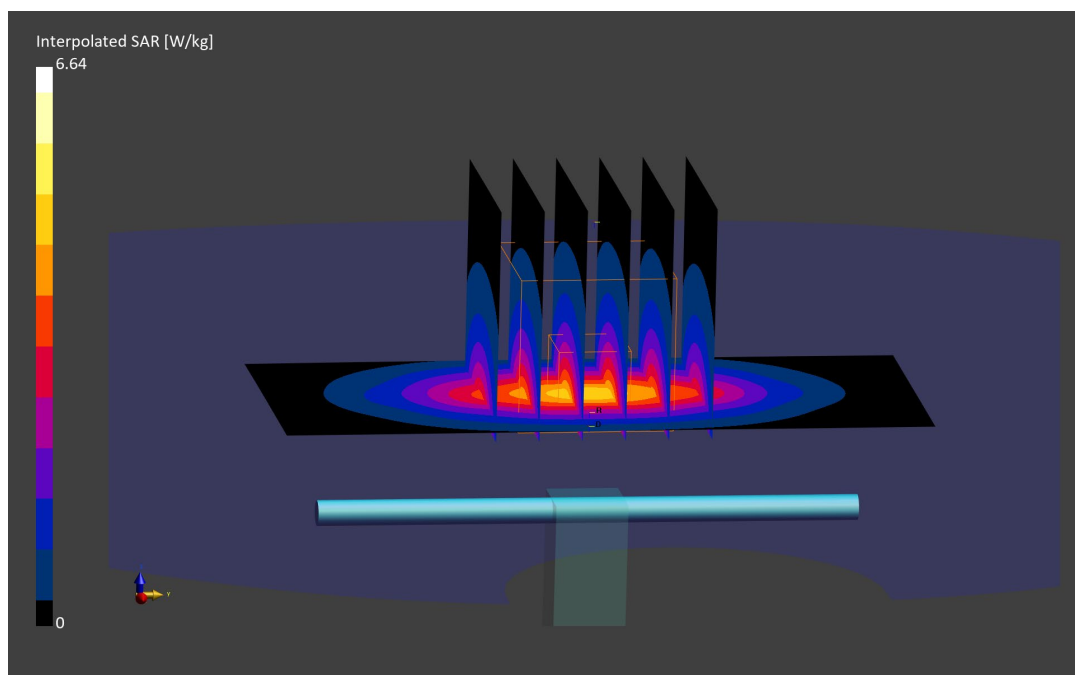
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.64 W/kg

SAR(1 g) = 3.72 W/kg; SAR(10 g) = 2.01 W/kg

Deviation (1 g) = 0.00%; Deviation (10 g) = 3.61%



ELEMENT

DUT: Dipole 1750.000 MHz; Type: D1750V2 - SN1150

Communication System: UID: 0, CW; Frequency: 1750.000 MHz
Medium: 1750 Head; Medium parameters used:
f = 1750.000 MHz; cond = 1.36 S/m; perm = 40.4; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 09/16/2024; Ambient Temp: 22.6°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7659; ConvF:(9.1,9.1,9.1); 2024-04-17
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1407; 2024-04-18
Phantom: Twin-SAM V8.0; Serial: 2064
Measurement SW: DASY Module SAR V16.4.0.5005

1750.0 MHz System Verification at 20.0 dBm (100 mW)

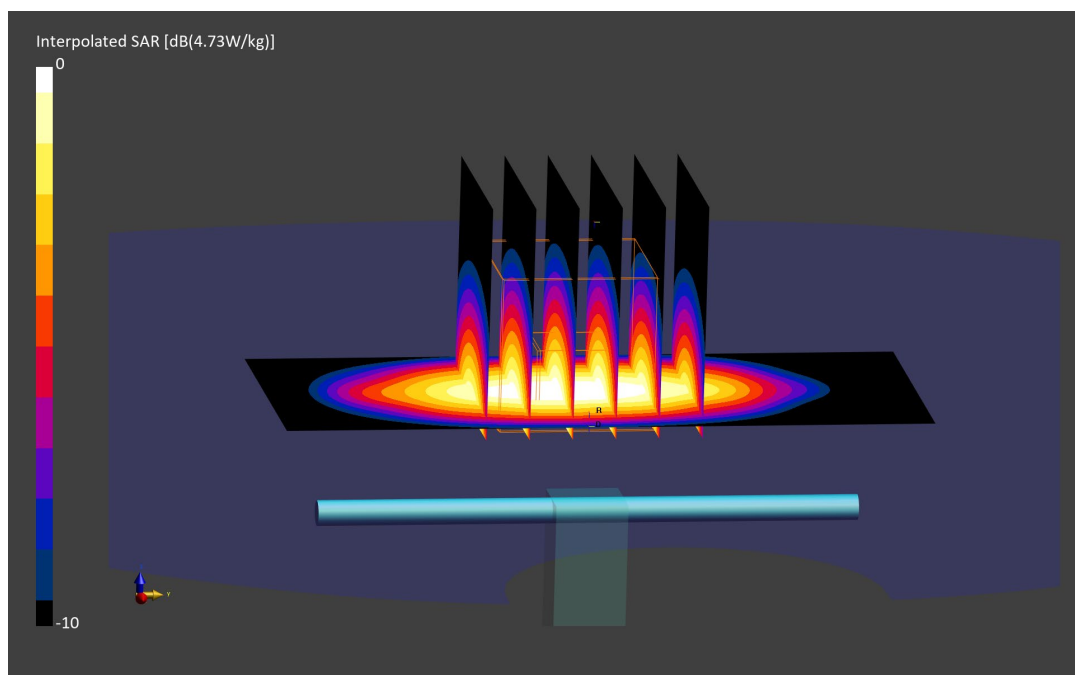
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.17 W/kg

SAR(1 g) = 3.83 W/kg; SAR(10 g) = 2.05 W/kg

Deviation (1 g) = 3.79%; Deviation (10 g) = 5.67%



ELEMENT

DUT: Dipole 1750.000 MHz; Type: D1750V2 - SN1150

Communication System: UID: 0, CW; Frequency: 1750.000 MHz
Medium: 1750 Head; Medium parameters used:
f = 1750.000 MHz; cond = 1.36 S/m; perm = 39.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 09/16/2024; Ambient Temp: 22.3°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7409; ConvF:(8.09,7.68,8.14); 2024-06-17
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1334; 2024-06-11
Phantom: Twin-SAM V8.0; Serial: 2056
Measurement SW: DASY Module SAR V16.4.0.5005

1750.0 MHz System Verification at 20.0 dBm (100 mW)

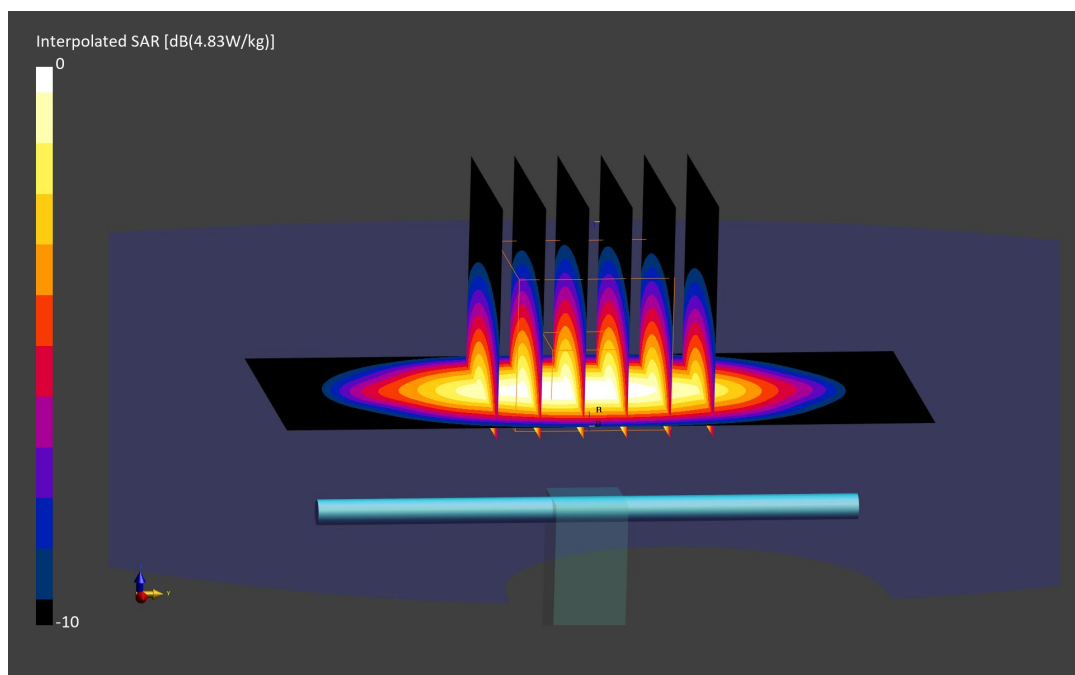
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.09 W/kg

SAR(1 g) = 3.87 W/kg; SAR(10 g) = 2.07 W/kg

Deviation (1 g) = 4.88%; Deviation (10 g) = 6.70%



ELEMENT

DUT: Dipole 1750.000 MHz; Type: D1750V2 - SN1148

Communication System: UID: 0, CW; Frequency: 1750.000 MHz
Medium: 1750 Head; Medium parameters used:
f = 1750.000 MHz; cond = 1.32 S/m; perm = 39.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 09/16/2024; Ambient Temp: 21.9°C; Tissue Temp: 21°C

Probe: EX3DV4 - SN3914; ConvF:(8.12,7.51,7.51); 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; 2024-05-08
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.4.0.5005

1750.0 MHz System Verification at 20.0 dBm (100 mW)

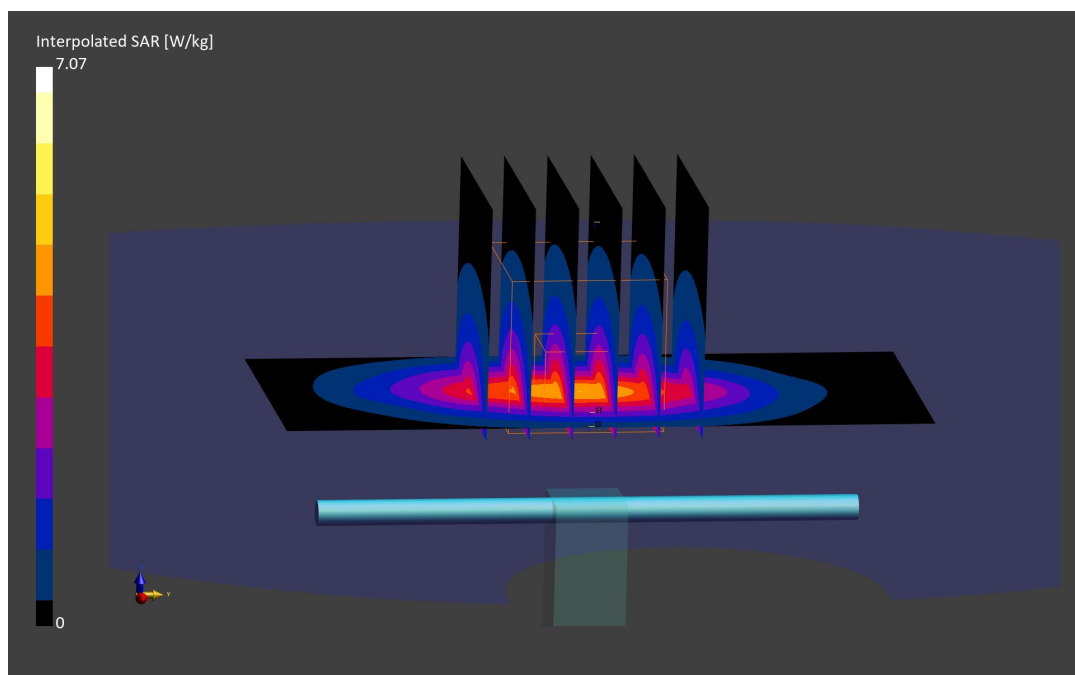
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.07 W/kg

SAR(1 g) = 3.82 W/kg; SAR(10 g) = 2.05 W/kg

Deviation (1 g) = 2.69%; Deviation (10 g) = 5.67%



ELEMENT

DUT: Dipole 1750.000 MHz; Type: D1750V2 - SN1148

Communication System: UID: 0, CW; Frequency: 1750.000 MHz
Medium: 1750 Head; Medium parameters used:
f = 1750.000 MHz; cond = 1.36 S/m; perm = 39.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/02/2024; Ambient Temp: 23.5°C; Tissue Temp: 22.4°C

Probe: EX3DV4 - SN7409; ConvF:(8.09,7.68,8.14); 2024-06-17
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1334; 2024-06-11
Phantom: Twin-SAM V8.0; Serial: 2056
Measurement SW: DASY Module SAR V16.4.0.5005

1750.0 MHz System Verification at 20.0 dBm (100 mW)

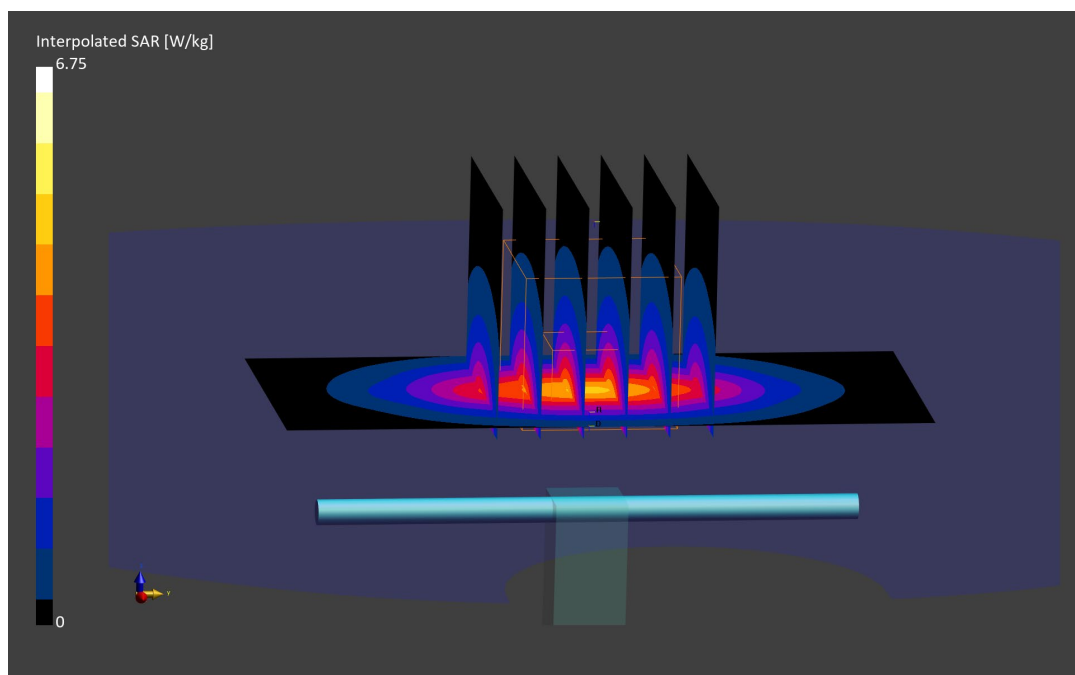
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.75 W/kg

SAR(1 g) = 3.67 W/kg; SAR(10 g) = 1.95 W/kg

Deviation (1 g) = -1.34%; Deviation (10 g) = 0.52%



ELEMENT

DUT: Dipole 1750.000 MHz; Type: D1750V2 - SN1092

Communication System: UID: 0, CW; Frequency: 1750.000 MHz
Medium: 1750 Head; Medium parameters used:
f = 1750.000 MHz; cond = 1.35 S/m; perm = 39.4; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/02/2024; Ambient Temp: 20.0°C; Tissue Temp: 19.3°C

Probe: EX3DV4 - SN7565; ConvF:(8.65,7.49,7.3); 2024-01-16

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

Electronics: DAE4 Sn1466; 2024-01-16

Phantom: Twin-SAM V5.0; Serial: 1868

Measurement SW: DASY Module SAR V16.4.0.5005

1750.0 MHz System Verification at 20.0 dBm (100 mW)

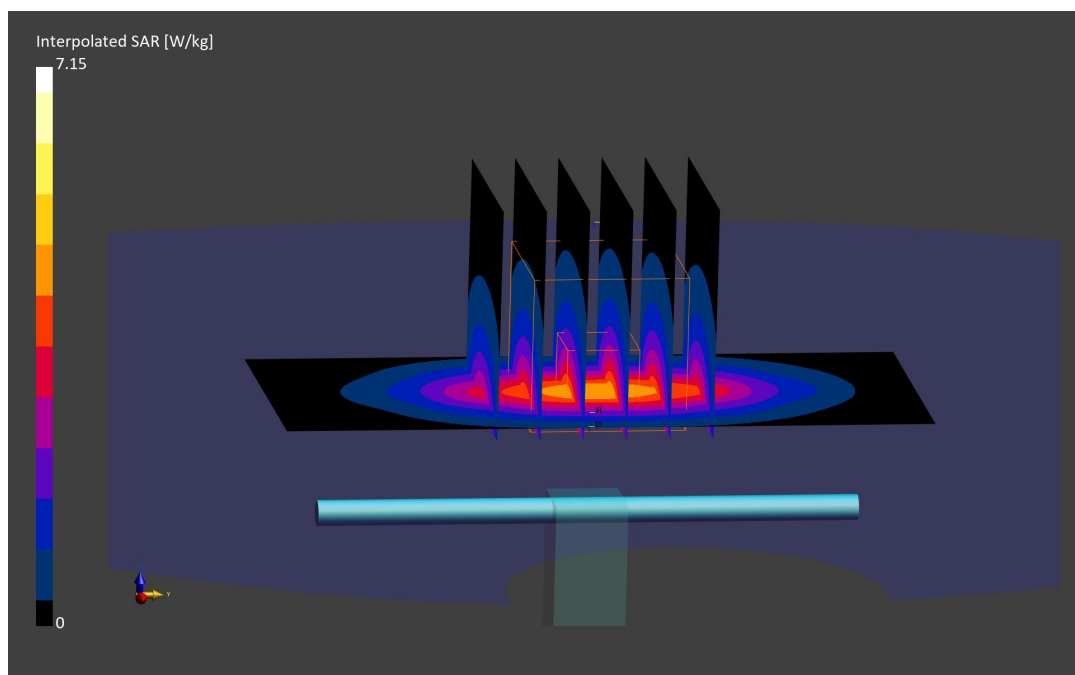
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.15 W/kg

SAR(1 g) = 3.80 W/kg; SAR(10 g) = 2.02 W/kg

Deviation (1 g) = 3.26%; Deviation (10 g) = 4.12%



ELEMENT

DUT: Dipole 1750.000 MHz; Type: D1750V2 - SN1051

Communication System: UID: 0, CW; Frequency: 1750.000 MHz
Medium: 1750 Head; Medium parameters used:
f = 1750.000 MHz; cond = 1.35 S/m; perm = 40.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/16/2024; Ambient Temp: 22.2°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7565; ConvF:(8.65,7.49,7.3); 2024-01-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; 2024-01-16
Phantom: Twin-SAM V5.0; Serial: 1868
Measurement SW: DASY Module SAR V16.4.0.5005

1750.0 MHz System Verification at 20.0 dBm (100 mW)

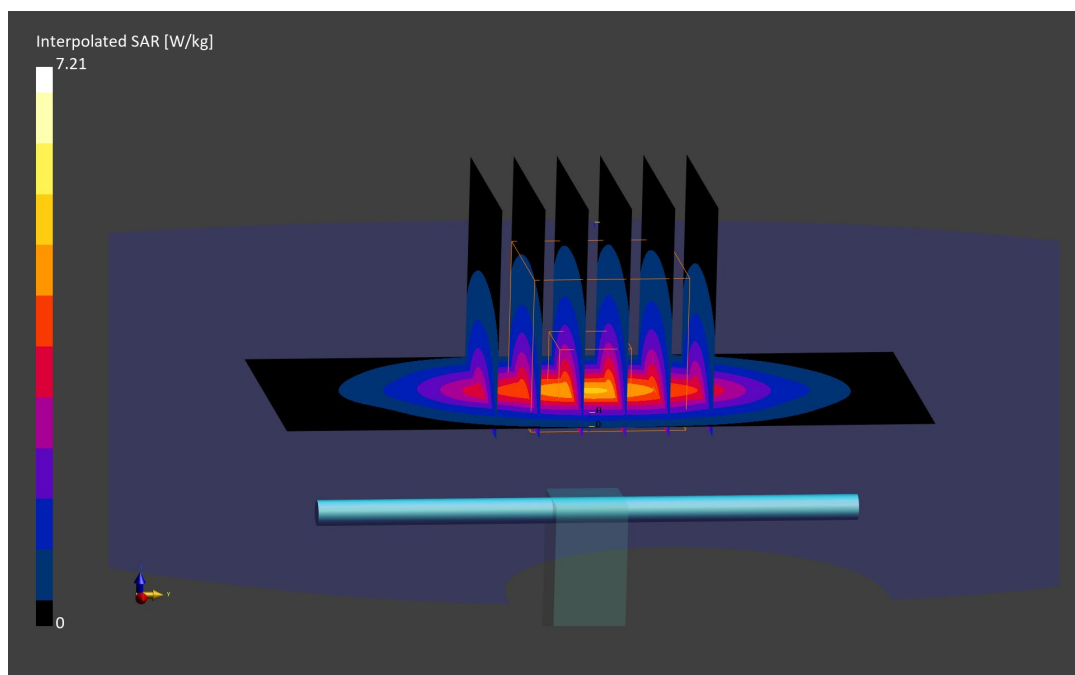
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.21 W/kg

SAR(1 g) = 3.87 W/kg; SAR(10 g) = 2.06 W/kg

Deviation (1 g) = 4.59%; Deviation (10 g) = 5.64%



ELEMENT

DUT: Dipole 1900.000 MHz; Type: D1900V2 - SN5d080

Communication System: UID: 0, CW; Frequency: 1900.000 MHz
Medium: 1750 Head; Medium parameters used:
f = 1900.000 MHz; cond = 1.39 S/m; perm = 40.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 09/15/2024; Ambient Temp: 22.5°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7803; ConvF:(7.55,7.72,7.85); 2024-06-28
Sensor-Surface: 1.4mm (All points)
Electronics: DAE4 Sn1583; 2024-07-08
Phantom: Twin-SAM V8.0; Serial: 2065
Measurement SW: DASY Module SAR V16.4.0.5005

1900.0 MHz System Verification at 20.0 dBm (100 mW)

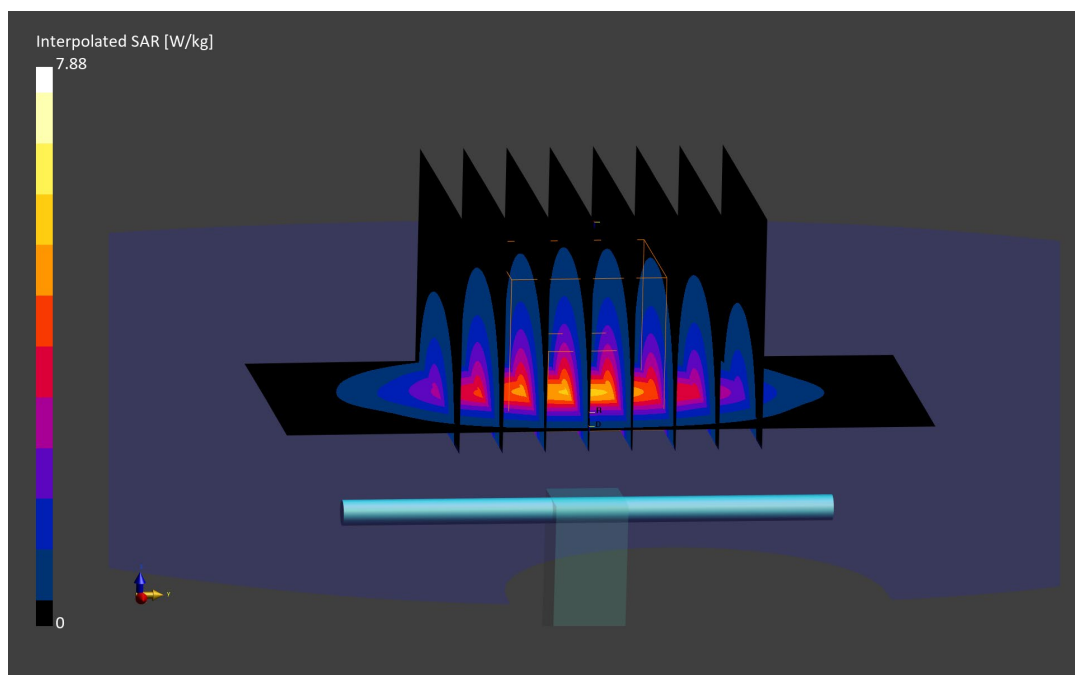
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.88 W/kg

SAR(1 g) = 4.32 W/kg

Deviation (1 g) = 9.09%;



ELEMENT

DUT: Dipole 1900.000 MHz; Type: D1900V2 - SN5d148

Communication System: UID: 0, CW; Frequency: 1900.000 MHz
Medium: 1750 Head; Medium parameters used:
f = 1900.000 MHz; cond = 1.45 S/m; perm = 40.2; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 09/16/2024; Ambient Temp: 22.6°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7659; ConvF:(8.88,8.88,8.88); 2024-04-17
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1407; 2024-04-18
Phantom: Twin-SAM V8.0; Serial: 2064
Measurement SW: DASY Module SAR V16.4.0.5005

1900.0 MHz System Verification at 20.0 dBm (100 mW)

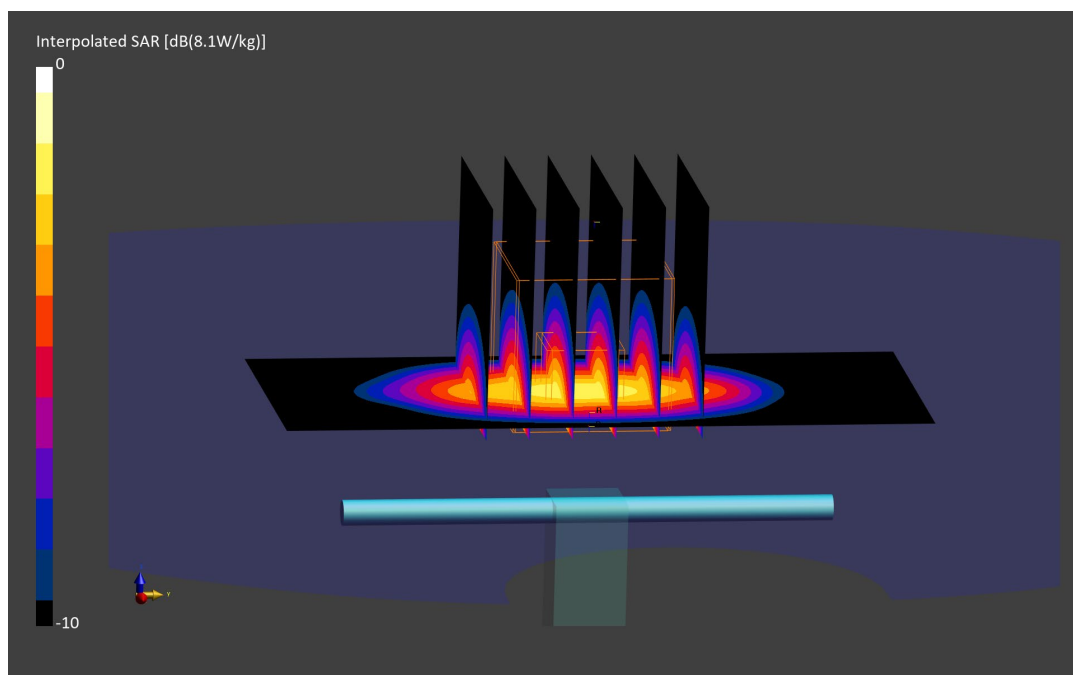
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 8.10 W/kg

SAR(1 g) = 4.18 W/kg; SAR(10 g) = 2.16 W/kg

Deviation (1 g) = 4.24%; Deviation (10 g) = 2.86%



ELEMENT

DUT: Dipole 1900.000 MHz; Type: D1900V2 - SN5d148

Communication System: UID: 0, CW; Frequency: 1900.000 MHz
Medium: 1750 Head; Medium parameters used:
f = 1900.000 MHz; cond = 1.46 S/m; perm = 39.0; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 09/16/2024; Ambient Temp: 22.3°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7409; ConvF:(7.72,7.32,7.76); 2024-06-17
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1334; 2024-06-11
Phantom: Twin-SAM V8.0; Serial: 2056
Measurement SW: DASY Module SAR V16.4.0.5005

1900.0 MHz System Verification at 20.0 dBm (100 mW)

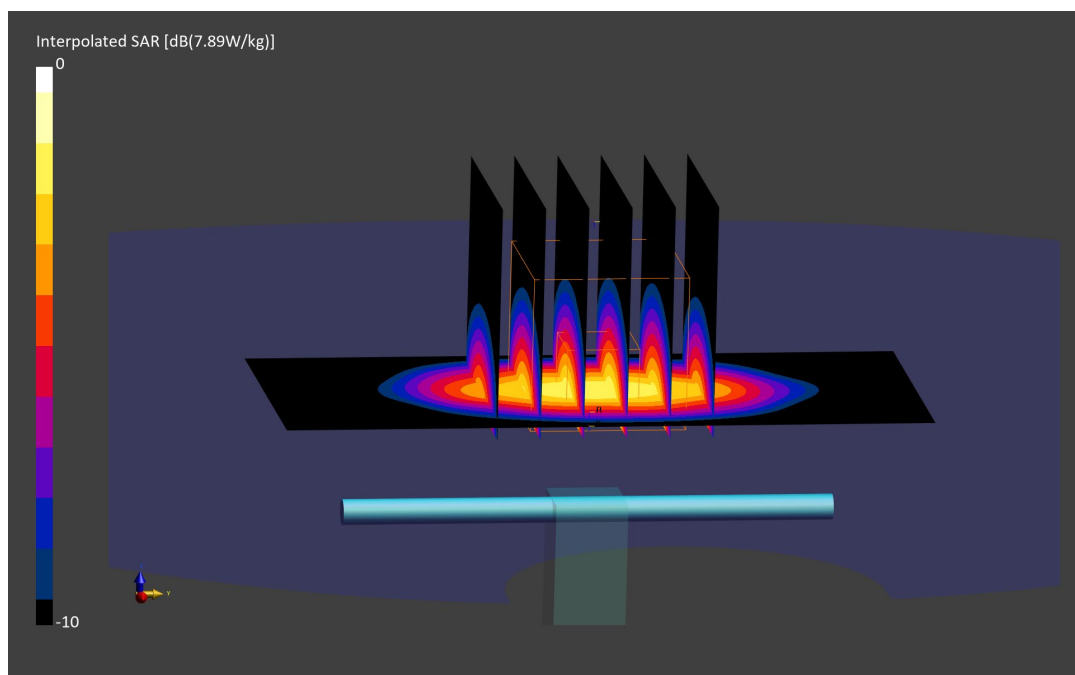
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.89 W/kg

SAR(1 g) = 4.25 W/kg; SAR(10 g) = 2.20 W/kg

Deviation (1 g) = 5.99%; Deviation (10 g) = 4.76%



ELEMENT

DUT: Dipole 1900.000 MHz; Type: D1900V2 - SN5d080

Communication System: UID: 0, CW; Frequency: 1900.000 MHz
Medium: 1750 Head; Medium parameters used:
f = 1900.000 MHz; cond = 1.41 S/m; perm = 39.0; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 09/16/2024; Ambient Temp: 21.9°C; Tissue Temp: 21°C

Probe: EX3DV4 - SN3914; ConvF:(8.04,7.37,7.44); 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; 2024-05-08
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.4.0.5005

1900.0 MHz System Verification at 20.0 dBm (100 mW)

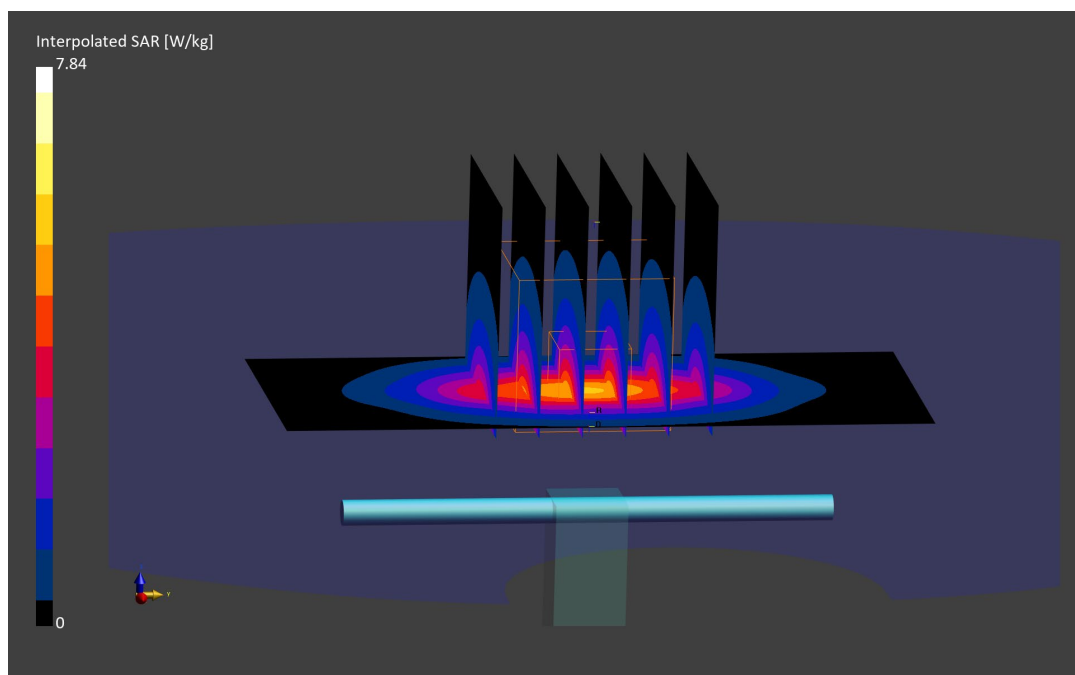
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.84 W/kg

SAR(1 g) = 4.20 W/kg; SAR(10 g) = 2.20 W/kg

Deviation (1 g) = 6.06%; Deviation (10 g) = 6.28%



ELEMENT

DUT: Dipole 1900.000 MHz; Type: D1900V2 - SN5d026

Communication System: UID: 0, CW; Frequency: 1900.000 MHz
Medium: 1750 Head; Medium parameters used:
f = 1900.000 MHz; cond = 1.45 S/m; perm = 39.2; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/02/2024; Ambient Temp: 20.0°C; Tissue Temp: 19.3°C

Probe: EX3DV4 - SN7565; ConvF:(8.53,7.25,7.16); 2024-01-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; 2024-01-16
Phantom: Twin-SAM V5.0; Serial: 1868
Measurement SW: DASY Module SAR V16.4.0.5005

1900.0 MHz System Verification at 20.0 dBm (100 mW)

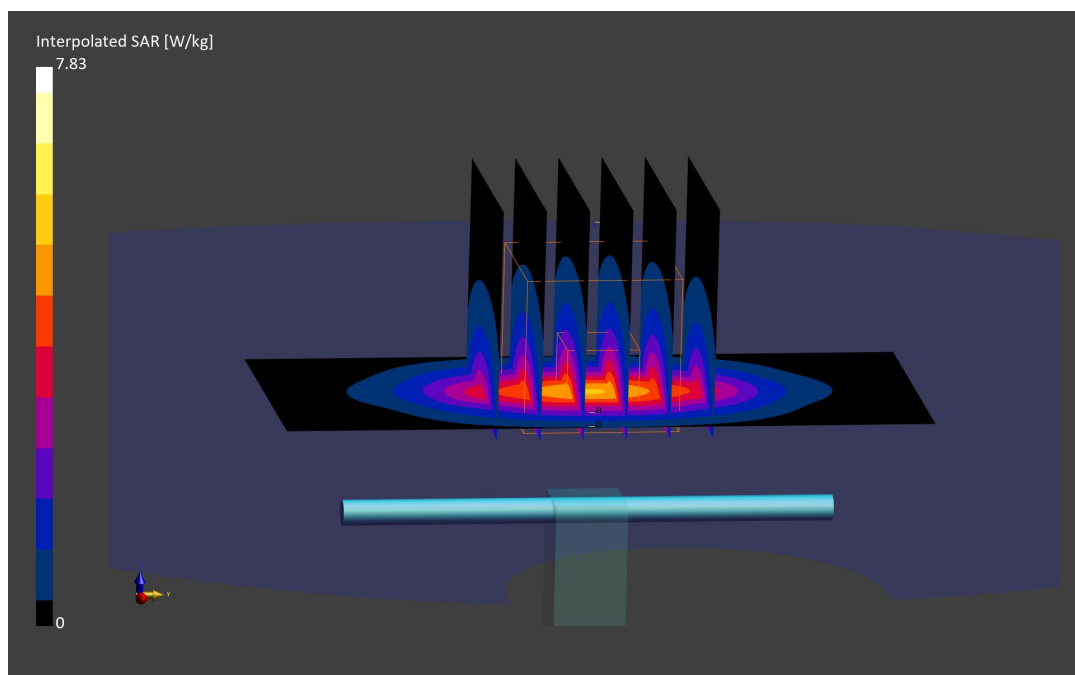
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.83 W/kg

SAR(1 g) = 4.14 W/kg; SAR(10 g) = 2.14 W/kg

Deviation (1 g) = 4.02%; Deviation (10 g) = 3.38%



ELEMENT

DUT: Dipole 1900.000 MHz; Type: D1900V2 - SN5d148

Communication System: UID: 0, CW; Frequency: 1900.000 MHz
Medium: 1750 Head; Medium parameters used:
f = 1900.000 MHz; cond = 1.41 S/m; perm = 41.8; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/07/2024; Ambient Temp: 21.9°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN3914; ConvF:(8.04,7.37,7.44); 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; 2024-05-08
Phantom: Twin-SAM V8.0; Serial: 2060
Measurement SW: DASY Module SAR V16.4.0.5005

1900.0 MHz System Verification at 20.0 dBm (100 mW)

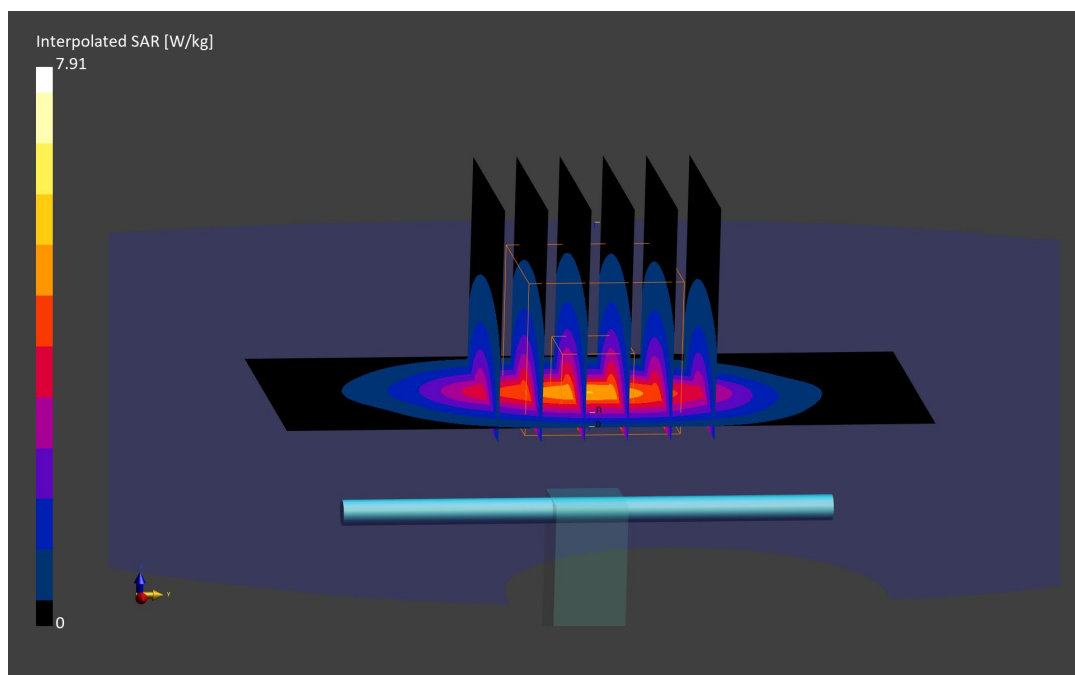
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.91 W/kg

SAR(1 g) = 4.23 W/kg; SAR(10 g) = 2.21 W/kg

Deviation (1 g) = 5.49%; Deviation (10 g) = 5.24%



ELEMENT

DUT: Dipole 1900.000 MHz; Type: D1900V2 - SN5d141

Communication System: UID: 0, CW; Frequency: 1900.000 MHz
Medium: 1750 Head; Medium parameters used:
f = 1900.000 MHz; cond = 1.44 S/m; perm = 40.4; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/16/2024; Ambient Temp: 22.2°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7565; ConvF:(8.53,7.25,7.16); 2024-01-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; 2024-01-16
Phantom: Twin-SAM V5.0; Serial: 1868
Measurement SW: DASY Module SAR V16.4.0.5005

1900.0 MHz System Verification at 20.0 dBm (100 mW)

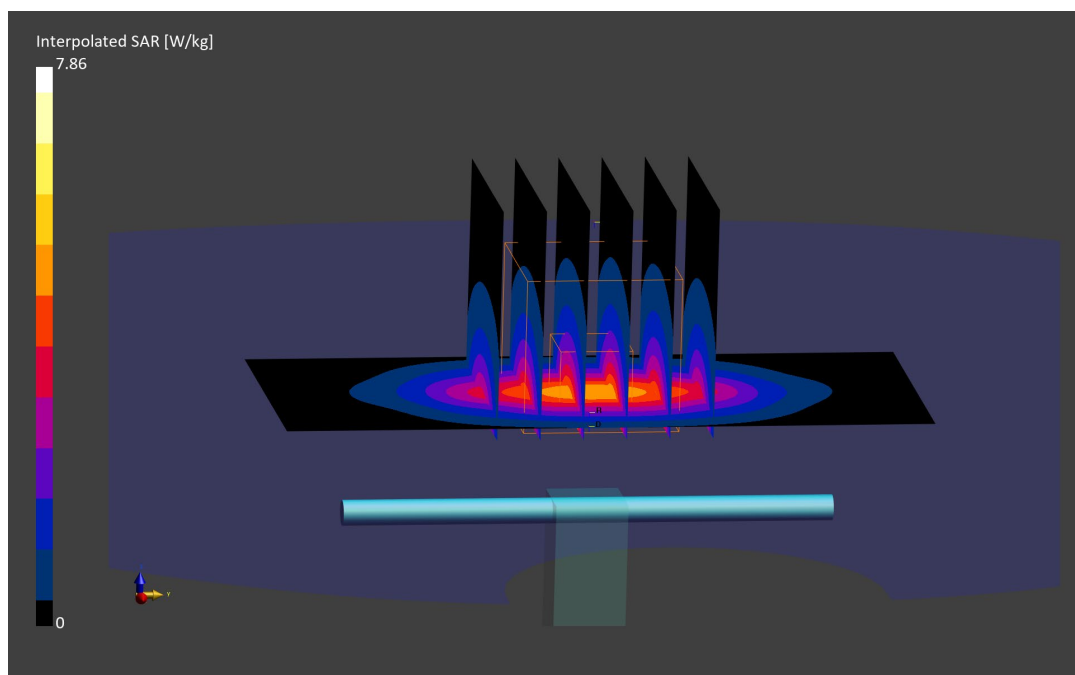
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.85 W/kg

SAR(1 g) = 4.09 W/kg; SAR(10 g) = 2.12 W/kg

Deviation (1 g) = 1.49%; Deviation (10 g) = 0.95%



ELEMENT

DUT: Dipole 2450.000 MHz; Type: D2450V2 - SN945

Communication System: UID: 0, CW; Frequency: 2450.000 MHz
Medium: 2450 Head; Medium parameters used:
 $f = 2450.000$ MHz; $\text{cond} = 1.85$ S/m; $\text{perm} = 38.2$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/02/2024; Ambient Temp: 20.9°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7640; ConvF:(8.05,7.65,8.28); 2024-02-09
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; 2024-02-09
Phantom: Twin-SAM V8.0; Serial: 1937
Measurement SW: DASY Module SAR V16.4.0.5005

2450.0 MHz System Verification at 20.0 dBm (100 mW)

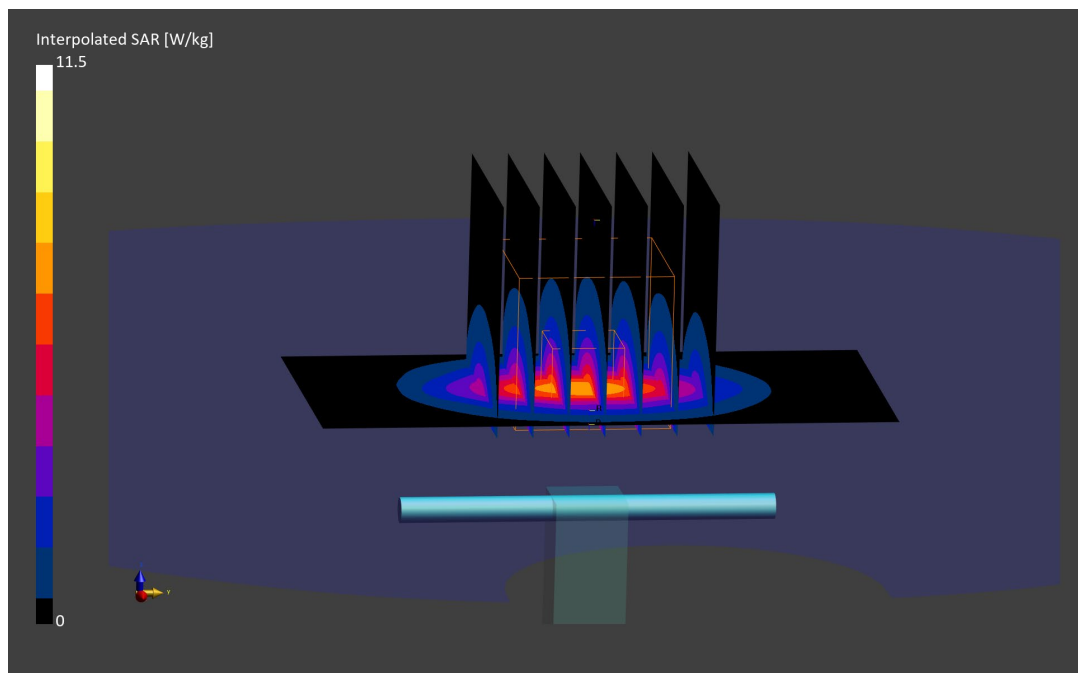
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 11.5 W/kg

SAR(1 g) = 5.62 W/kg; SAR(10 g) = 2.62 W/kg

Deviation (1 g) = 5.24%; Deviation (10 g) = 4.38%



ELEMENT

DUT: Dipole 2450.000 MHz; Type: D2450V2 - SN945

Communication System: UID: 0, CW; Frequency: 2450.000 MHz
Medium: 2450 Head; Medium parameters used:
f = 2450.000 MHz; cond = 1.81 S/m; perm = 39.0; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/14/2024; Ambient Temp: 21.0°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7640; ConvF:(8.05,7.65,8.28); 2024-02-09
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; 2024-02-09
Phantom: Twin-SAM V8.0; Serial: 1937
Measurement SW: DASY Module SAR V16.4.0.5005

2450.0 MHz System Verification at 20.0 dBm (100 mW)

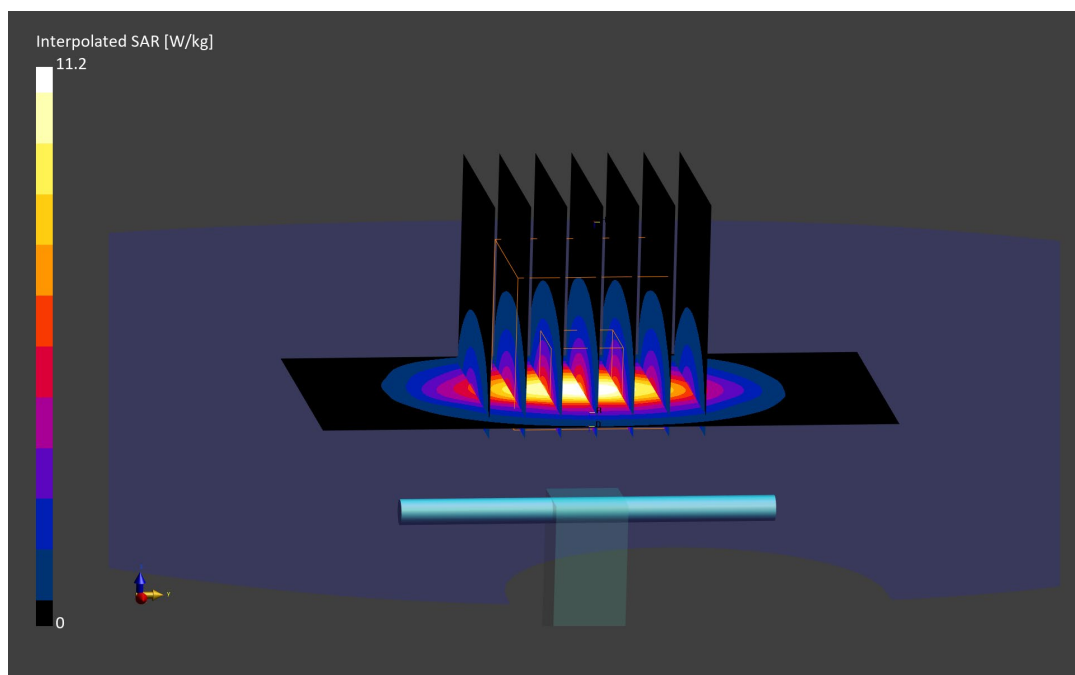
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.2 W/kg

SAR(1 g) = 5.46 W/kg; SAR(10 g) = 2.55 W/kg

Deviation (1 g) = 2.25%; Deviation (10 g) = 1.59%



ELEMENT

DUT: Dipole 2450.000 MHz; Type: D2450V2 - SN882

Communication System: UID: 0, CW; Frequency: 2450.000 MHz
Medium: 2450 Head; Medium parameters used:
f = 2450.000 MHz; cond = 1.81 S/m; perm = 40.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/21/2024; Ambient Temp: 22.2°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7558; ConvF:(7.45,7.06,7.43); 2024-09-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1364; 2024-09-10
Phantom: Twin-SAM V8.0; Serial: 1934
Measurement SW: DASY Module SAR V16.4.0.5005

2450.0 MHz System Verification at 20.0 dBm (100 mW)

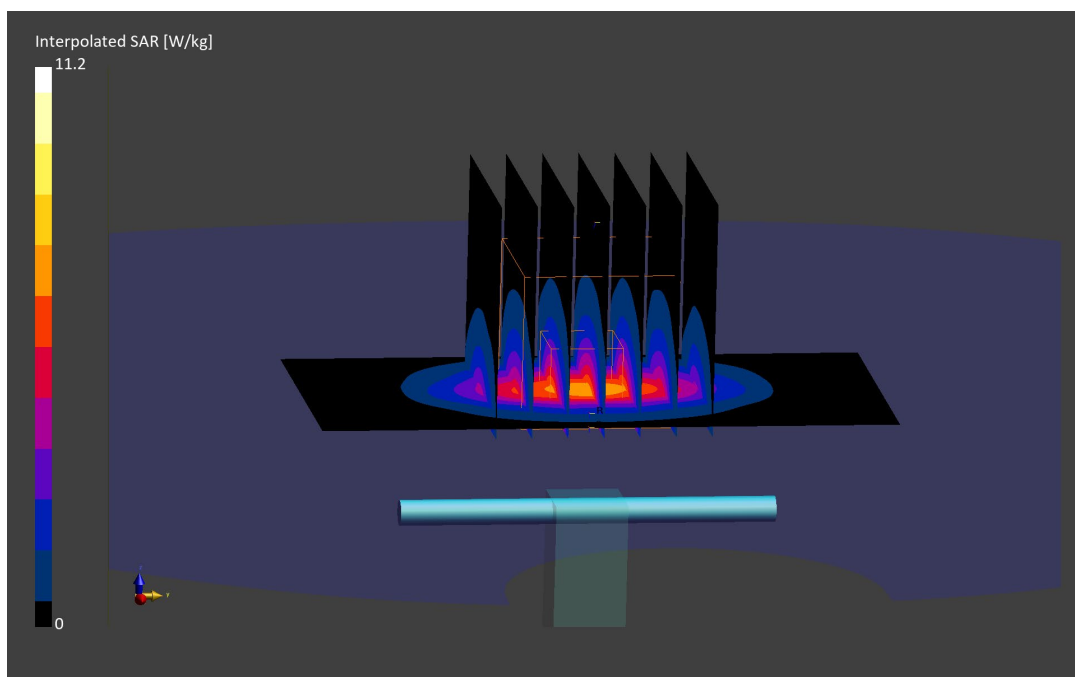
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.2 W/kg

SAR(1 g) = 5.53 W/kg; SAR(10 g) = 2.59 W/kg

Deviation (1 g) = 4.34%; Deviation (10 g) = 4.02%



ELEMENT

DUT: Dipole 2450.000 MHz; Type: D2450V2 - SN945

Communication System: UID: 0, CW; Frequency: 2450.000 MHz
Medium: 2450 Head; Medium parameters used:
f = 2450.000 MHz; cond = 1.84 S/m; perm = 38.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/23/2024; Ambient Temp: 20.0°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7640; ConvF:(8.05,7.65,8.28); 2024-02-09
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; 2024-02-09
Phantom: Twin-SAM V8.0; Serial: 1937
Measurement SW: DASY Module SAR V16.4.0.5005

2450.0 MHz System Verification at 20.0 dBm (100 mW)

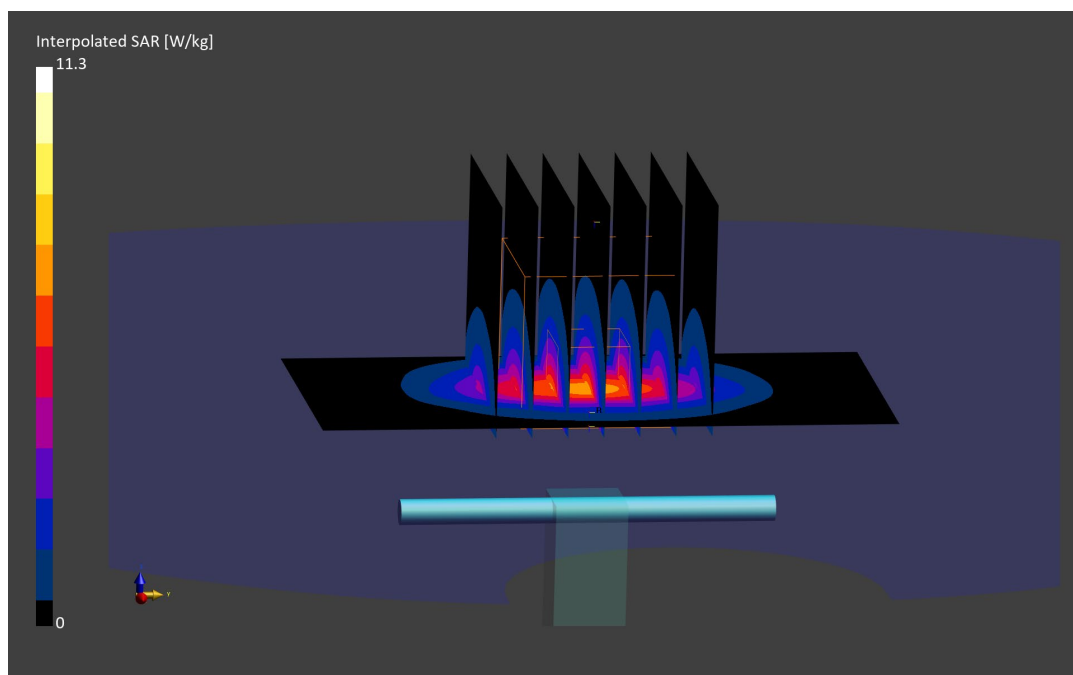
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.3 W/kg

SAR(1 g) = 5.52 W/kg; SAR(10 g) = 2.57 W/kg

Deviation (1 g) = 3.37%; Deviation (10 g) = 2.39%



ELEMENT

DUT: Dipole 2450.000 MHz; Type: D2450V2 - SN945

Communication System: UID: 0, CW; Frequency: 2450.000 MHz
Medium: 2450 Head; Medium parameters used:
 $f = 2450.000$ MHz; $\text{cond} = 1.83$ S/m; $\text{perm} = 38.1$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/04/2024; Ambient Temp: 20.7°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7640; ConvF:(8.05,7.65,8.28); 2024-02-09
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; 2024-02-09
Phantom: Twin-SAM V8.0; Serial: 1937
Measurement SW: DASY Module SAR V16.4.0.5005

2450.0 MHz System Verification at 20.0 dBm (100 mW)

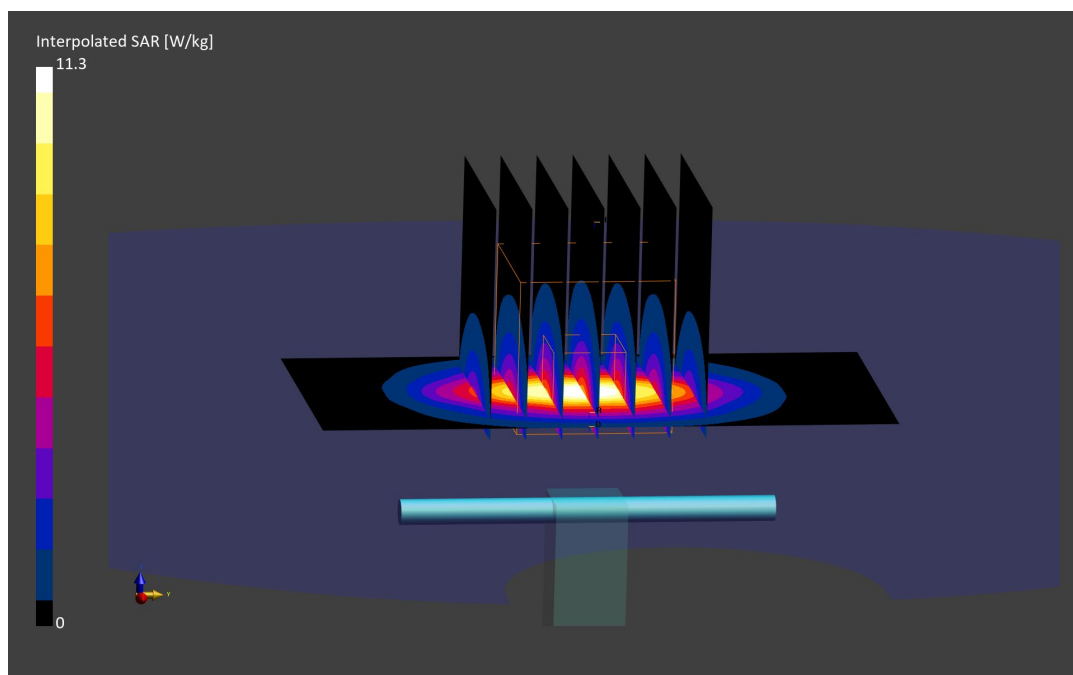
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 11.3 W/kg

SAR(1 g) = 5.54 W/kg; SAR(10 g) = 2.58 W/kg

Deviation (1 g) = 3.75%; Deviation (10 g) = 2.79%



ELEMENT

DUT: Dipole 2600.000 MHz; Type: D2600V2 - SN1009

Communication System: UID: 0, CW; Frequency: 2600.000 MHz
Medium: 2450 Head; Medium parameters used:
f = 2600.000 MHz; cond = 1.97 S/m; perm = 37.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/02/2024; Ambient Temp: 20.9°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7640; ConvF:(8.13,7.69,8.37); 2024-02-09
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; 2024-02-09
Phantom: Twin-SAM V8.0; Serial: 1937
Measurement SW: DASY Module SAR V16.4.0.5005

2600.0 MHz System Verification at 20.0 dBm (100 mW)

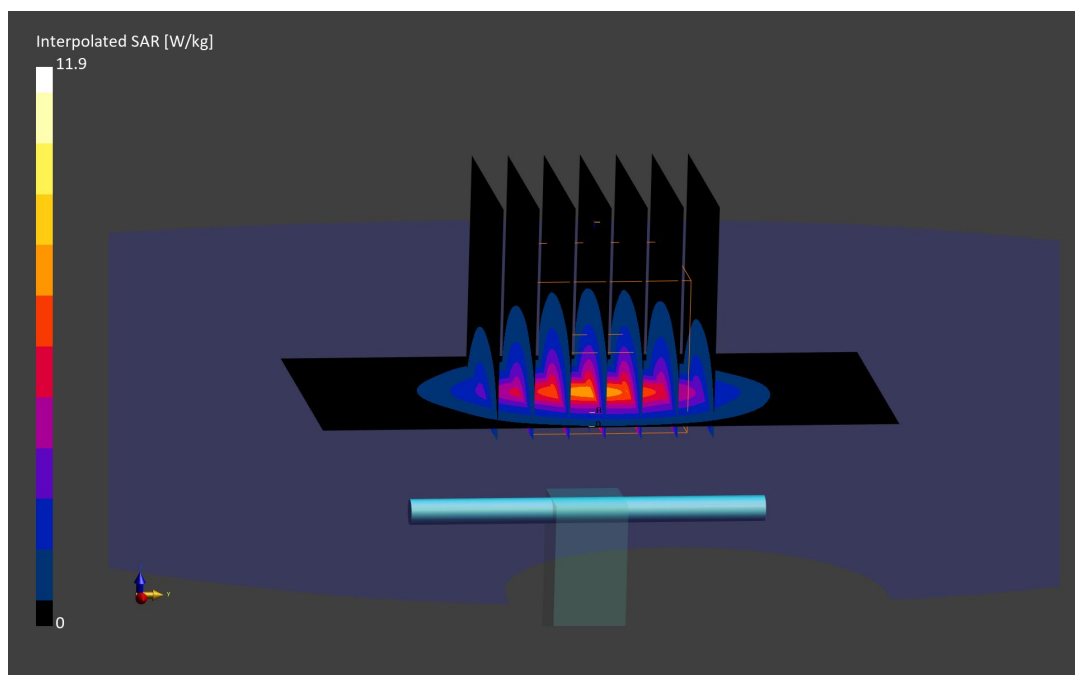
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.9 W/kg

SAR(1 g) = 5.62 W/kg; SAR(10 g) = 2.53 W/kg

Deviation (1 g) = -0.71%; Deviation (10 g) = -0.78%



ELEMENT

DUT: Dipole 2600.000 MHz; Type: D2600V2 - SN1009

Communication System: UID: 0, CW; Frequency: 2600.000 MHz
Medium: 2450 Head; Medium parameters used:
f = 2600.000 MHz; cond = 1.92 S/m; perm = 37.8; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/07/2024; Ambient Temp: 21.0°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7640; ConvF:(8.13,7.69,8.37); 2024-02-09
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; 2024-02-09
Phantom: Twin-SAM V8.0; Serial: 1937
Measurement SW: DASY Module SAR V16.4.0.5005

2600.0 MHz System Verification at 20.0 dBm (100 mW)

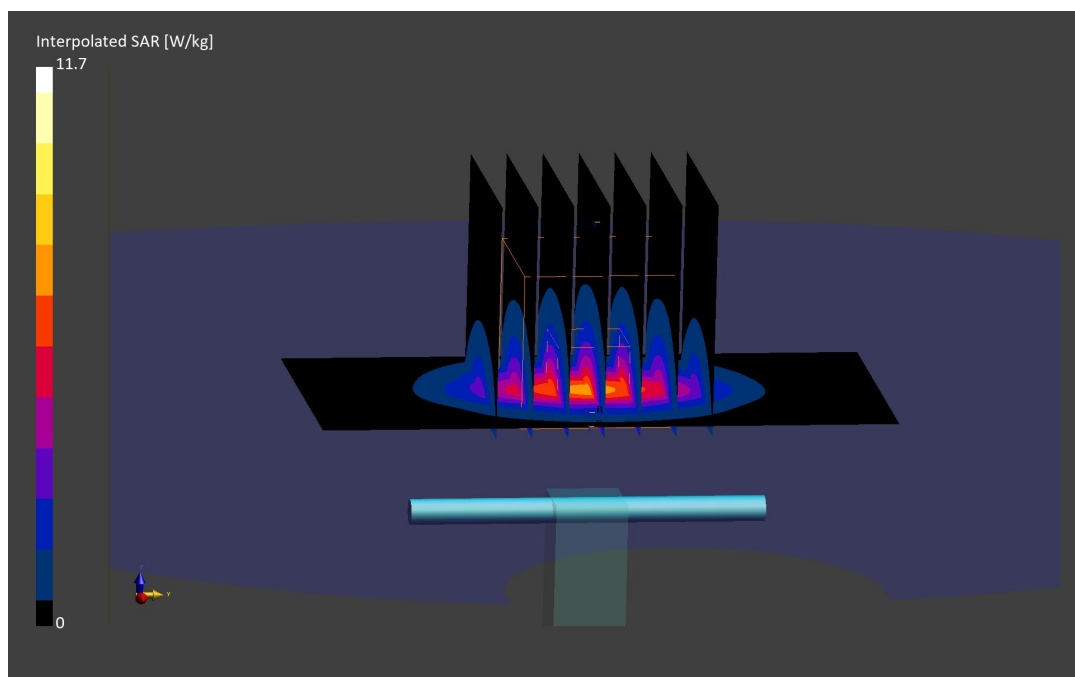
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.7 W/kg

SAR(1 g) = 5.53 W/kg; SAR(10 g) = 2.49 W/kg

Deviation (1 g) = -2.30%; Deviation (10 g) = -2.35%



ELEMENT

DUT: Dipole 2600.000 MHz; Type: D2600V2 - SN1009

Communication System: UID: 0, CW; Frequency: 2600.000 MHz
Medium: 2450 Head; Medium parameters used:
f = 2600.000 MHz; cond = 1.91 S/m; perm = 38.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/09/2024; Ambient Temp: 21.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7640; ConvF:(8.13,7.69,8.37); 2024-02-09
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; 2024-02-09
Phantom: Twin-SAM V8.0; Serial: 1937
Measurement SW: DASY Module SAR V16.4.0.5005

2600.0 MHz System Verification at 20.0 dBm (100 mW)

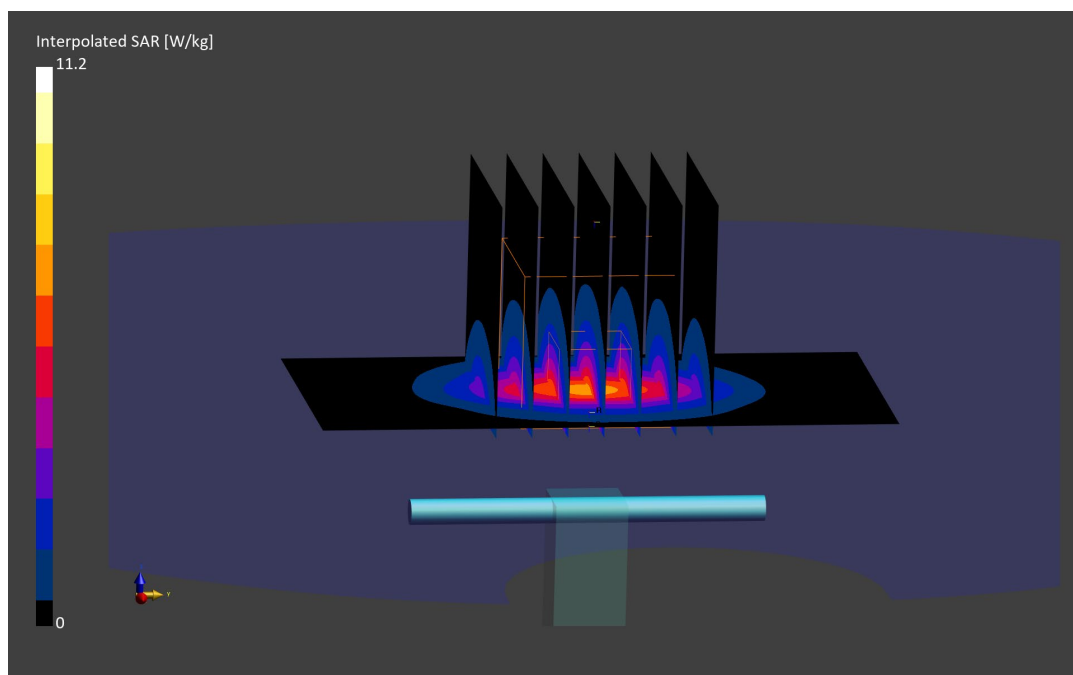
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.2 W/kg

SAR(1 g) = 5.26 W/kg; SAR(10 g) = 2.37 W/kg

Deviation (1 g) = -7.07%; Deviation (10 g) = -7.06%



ELEMENT

DUT: Dipole 2600.000 MHz; Type: D2600V2 - SN1009

Communication System: UID: 0, CW; Frequency: 2600.000 MHz
Medium: 2450 Head; Medium parameters used:
f = 2600.000 MHz; cond = 1.93 S/m; perm = 38.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/14/2024; Ambient Temp: 21.0°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7640; ConvF:(8.13,7.69,8.37); 2024-02-09
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; 2024-02-09
Phantom: Twin-SAM V8.0; Serial: 1937
Measurement SW: DASY Module SAR V16.4.0.5005

2600.0 MHz System Verification at 20.0 dBm (100 mW)

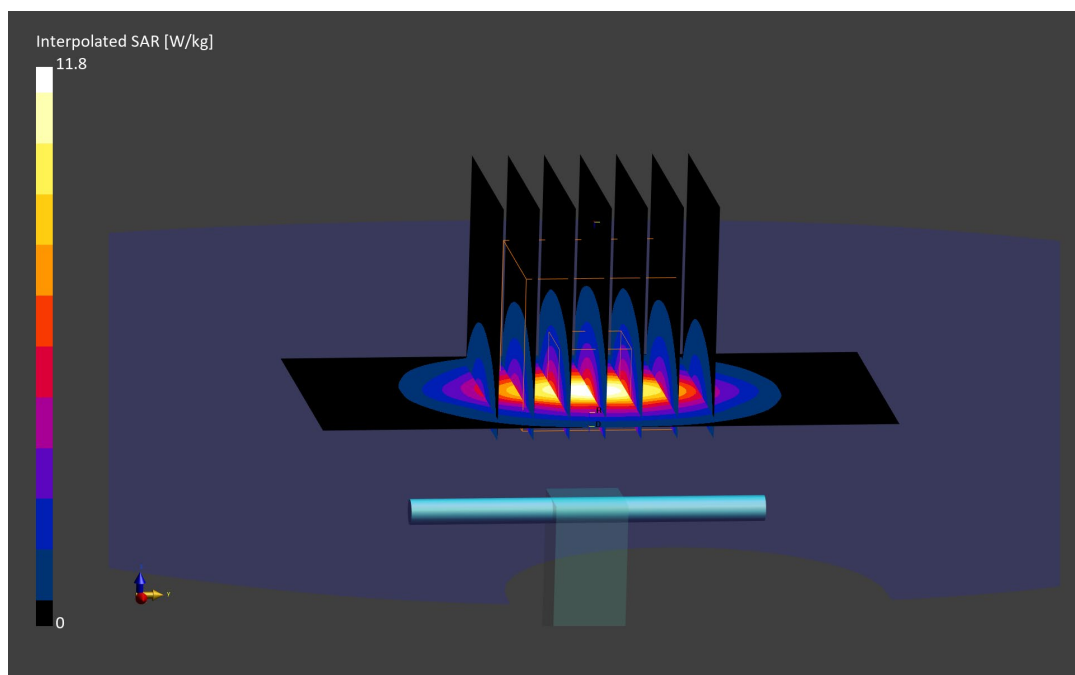
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.8 W/kg

SAR(1 g) = 5.56 W/kg; SAR(10 g) = 2.50 W/kg

Deviation (1 g) = -1.77%; Deviation (10 g) = -1.96%



ELEMENT

DUT: Dipole 3500.000 MHz; Type: D3500V2 - SN1127

Communication System: UID: 0, CW; Frequency: 3500.000 MHz
Medium: 3600 Head; Medium parameters used:
f = 3500.000 MHz; cond = 2.78 S/m; perm = 37.4; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/07/2024; Ambient Temp: 21.4°C; Tissue Temp: 19.1°C

Probe: EX3DV4 - SN7565; ConvF:(6.96,6.13,6.05); 2024-01-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; 2024-01-16
Phantom: Twin-SAM V5.0; Serial: 1868
Measurement SW: DASY Module SAR V16.4.0.5005

3500.0 MHz System Verification at 20.0 dBm (100 mW)

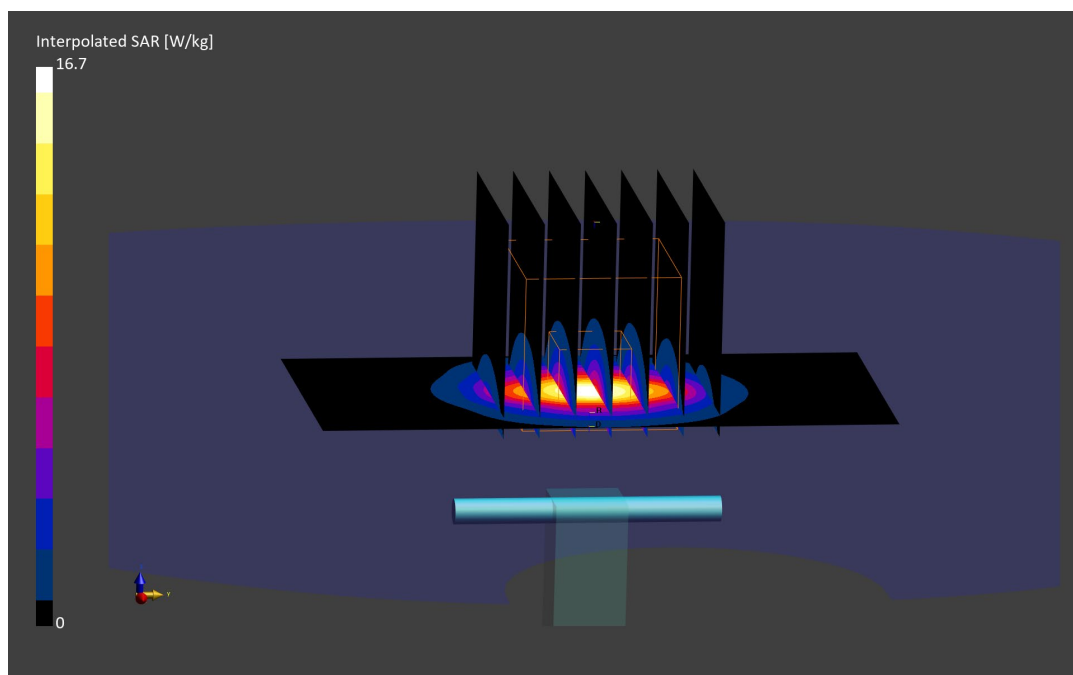
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 16.7 W/kg

SAR(1 g) = 6.40 W/kg; SAR(10 g) = 2.45 W/kg

Deviation (1 g) = -2.44%; Deviation (10 g) = -1.21%



ELEMENT

DUT: Dipole 3500.000 MHz; Type: D3500V2 - SN1127

Communication System: UID: 0, CW; Frequency: 3500.000 MHz
Medium: 3600 Head; Medium parameters used:
f = 3500.000 MHz; cond = 2.77 S/m; perm = 38.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/14/2024; Ambient Temp: 21.4°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7565; ConvF:(6.96,6.13,6.05); 2024-01-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; 2024-01-16
Phantom: Twin-SAM V5.0; Serial: 1868
Measurement SW: DASY Module SAR V16.4.0.5005

3500.0 MHz System Verification at 20.0 dBm (100 mW)

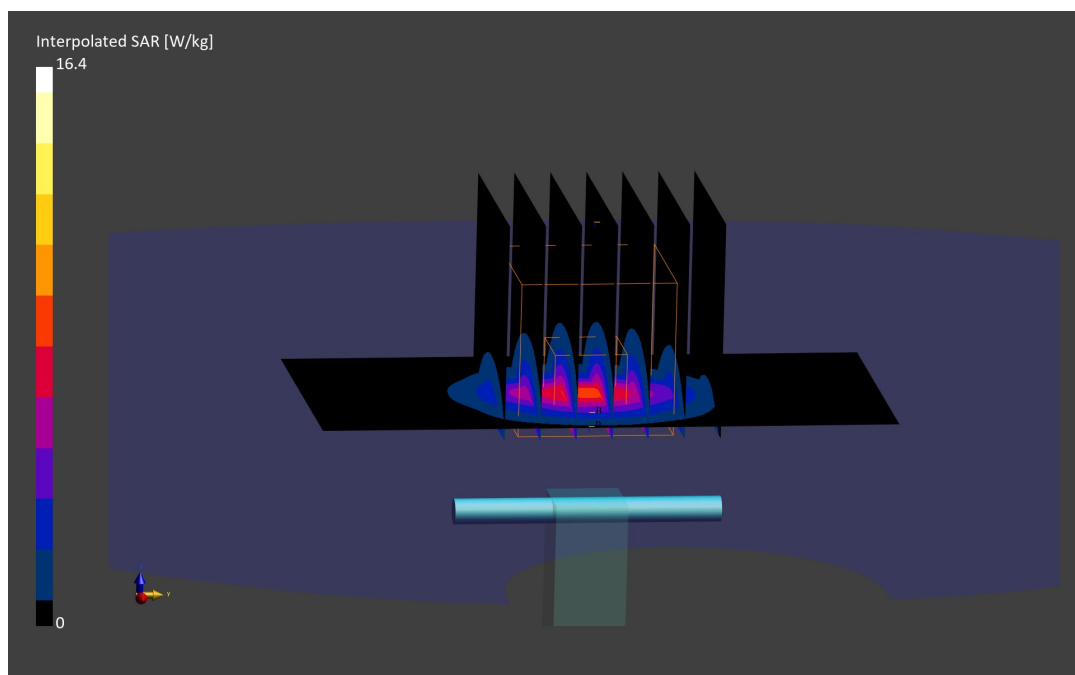
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 6.37 W/kg; SAR(10 g) = 2.44 W/kg

Deviation (1 g) = -2.90%; Deviation (10 g) = -1.61%



ELEMENT

DUT: Dipole 3700.000 MHz; Type: D3700V2 - SN1096

Communication System: UID: 0, CW; Frequency: 3700.000 MHz
Medium: 3600 Head; Medium parameters used:
f = 3700.000 MHz; cond = 2.98 S/m; perm = 37.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/07/2024; Ambient Temp: 21.4°C; Tissue Temp: 19.1°C

Probe: EX3DV4 - SN7565; ConvF:(6.82,5.99,5.94); 2024-01-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; 2024-01-16
Phantom: Twin-SAM V5.0; Serial: 1868
Measurement SW: DASY Module SAR V16.4.0.5005

3700.0 MHz System Verification at 20.0 dBm (100 mW)

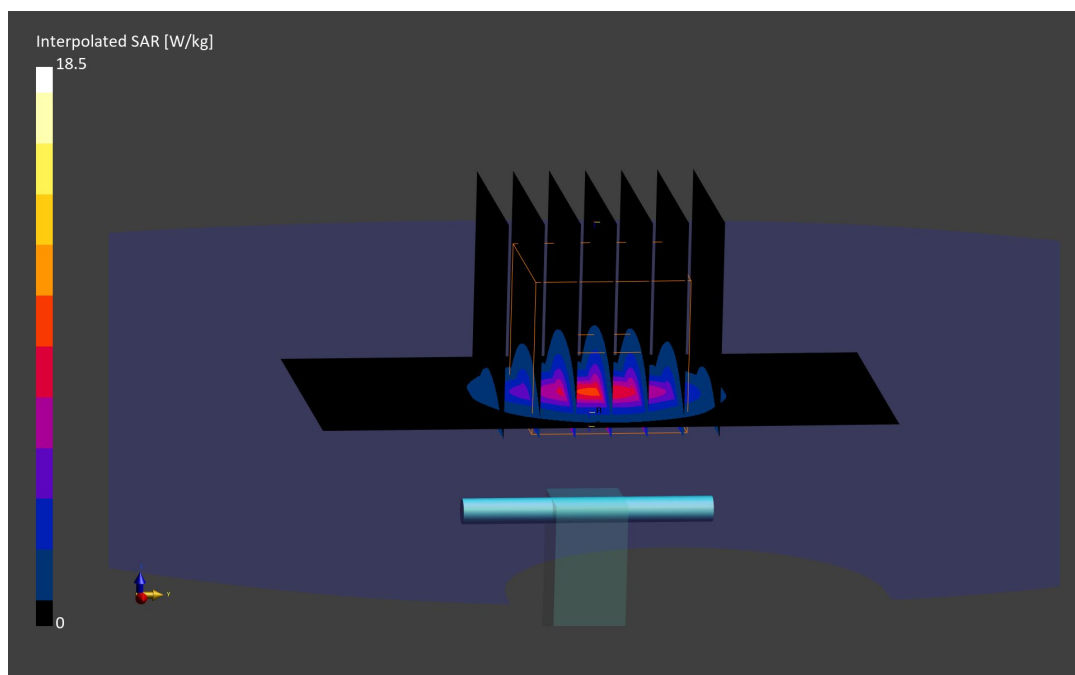
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 18.5 W/kg

SAR(1 g) = 6.78 W/kg; SAR(10 g) = 2.52 W/kg

Deviation (1 g) = 0.30%; Deviation (10 g) = 2.02%



ELEMENT

DUT: Dipole 3700.000 MHz; Type: D3700V2 - SN1096

Communication System: UID: 0, CW; Frequency: 3700.000 MHz
Medium: 3600 Head; Medium parameters used:
f = 3700.000 MHz; cond = 2.96 S/m; perm = 38.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/14/2024; Ambient Temp: 21.4°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7565; ConvF:(6.82,5.99,5.94); 2024-01-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; 2024-01-16
Phantom: Twin-SAM V5.0; Serial: 1868
Measurement SW: DASY Module SAR V16.4.0.5005

3700.0 MHz System Verification at 20.0 dBm (100 mW)

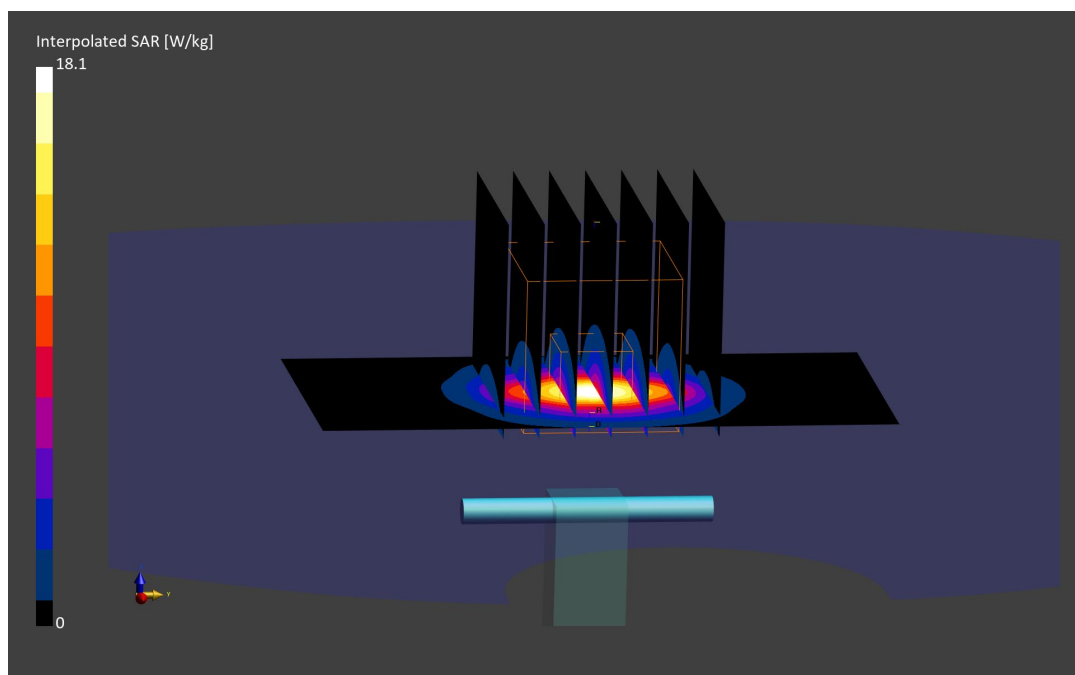
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 6.68 W/kg; SAR(10 g) = 2.48 W/kg

Deviation (1 g) = -1.18%; Deviation (10 g) = 0.40%



ELEMENT

DUT: Dipole 3900.000 MHz; Type: D3900V2 - SN1074

Communication System: UID: 0, CW; Frequency: 3900.000 MHz
Medium: 3600 Head; Medium parameters used:
 $f = 3900.000$ MHz; $\text{cond} = 3.18$ S/m; $\text{perm} = 36.7$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/07/2024; Ambient Temp: 21.4°C; Tissue Temp: 19.1°C

Probe: EX3DV4 - SN7565; ConvF:(6.69,5.89,5.81); 2024-01-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; 2024-01-16
Phantom: Twin-SAM V5.0; Serial: 1868
Measurement SW: DASY Module SAR V16.4.0.5005

3900.0 MHz System Verification at 20.0 dBm (100 mW)

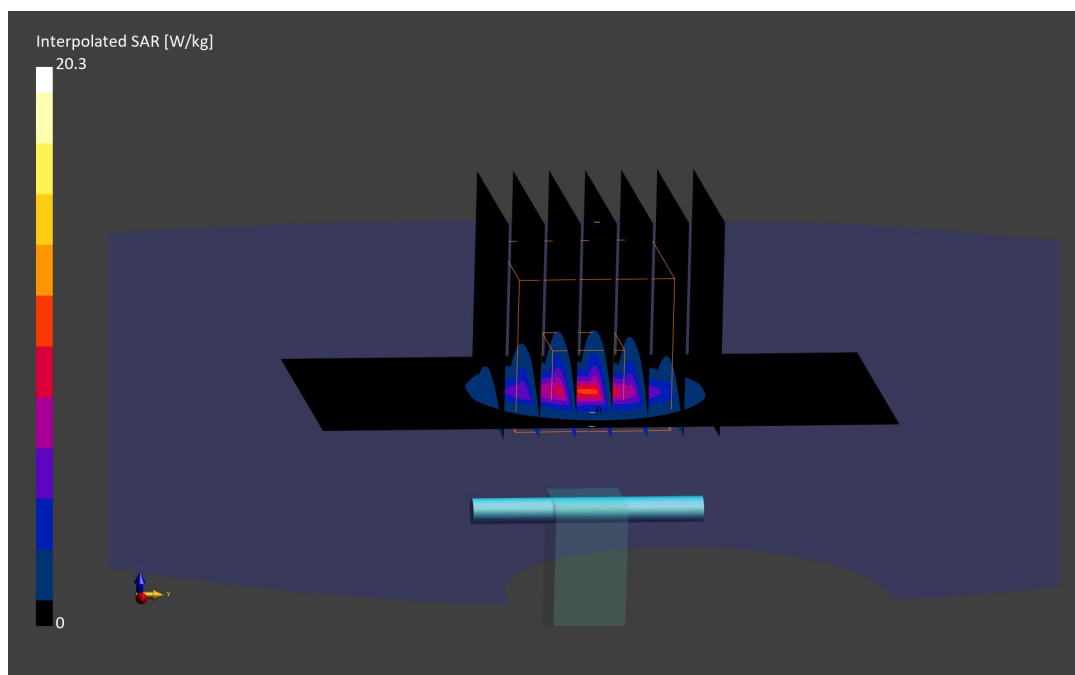
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 20.3 W/kg

SAR(1 g) = 7.02 W/kg; SAR(10 g) = 2.47 W/kg

Deviation (1 g) = 2.18%; Deviation (10 g) = 2.92%



ELEMENT

DUT: Dipole 3900.000 MHz; Type: D3900V2 - SN1074

Communication System: UID: 0, CW; Frequency: 3900.000 MHz
Medium: 3600 Head; Medium parameters used:
f = 3900.000 MHz; cond = 3.17 S/m; perm = 38.0; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/14/2024; Ambient Temp: 21.4°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7565; ConvF:(6.69,5.89,5.81); 2024-01-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; 2024-01-16
Phantom: Twin-SAM V5.0; Serial: 1868
Measurement SW: DASY Module SAR V16.4.0.5005

3900.0 MHz System Verification at 20.0 dBm (100 mW)

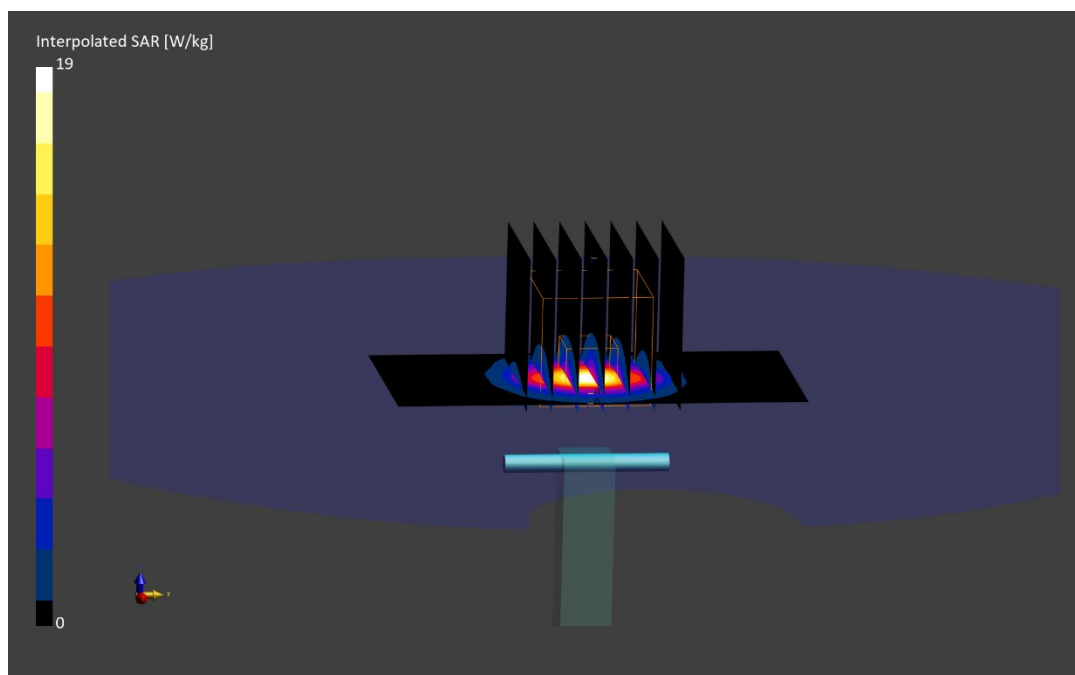
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 19.0 W/kg

SAR(1 g) = 6.67 W/kg; SAR(10 g) = 2.36 W/kg

Deviation (1 g) = -2.91%; Deviation (10 g) = -1.67%



ELEMENT

DUT: Dipole 5250.000 MHz; Type: D5GHzV2 - SN1237

Communication System: UID: 0, CW; Frequency: 5250.000 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5250.000 MHz; cond = 4.69 S/m; perm = 34.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/14/2024; Ambient Temp: 20.8°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7402; ConvF:(4.95,5.4,5.04); 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1502; 2024-05-08
Phantom: Twin-SAM V5.0; Serial: 1797
Measurement SW: DASY Module SAR V16.4.0.5005

5250.0 MHz System Verification at 17.0 dBm (50 mW)

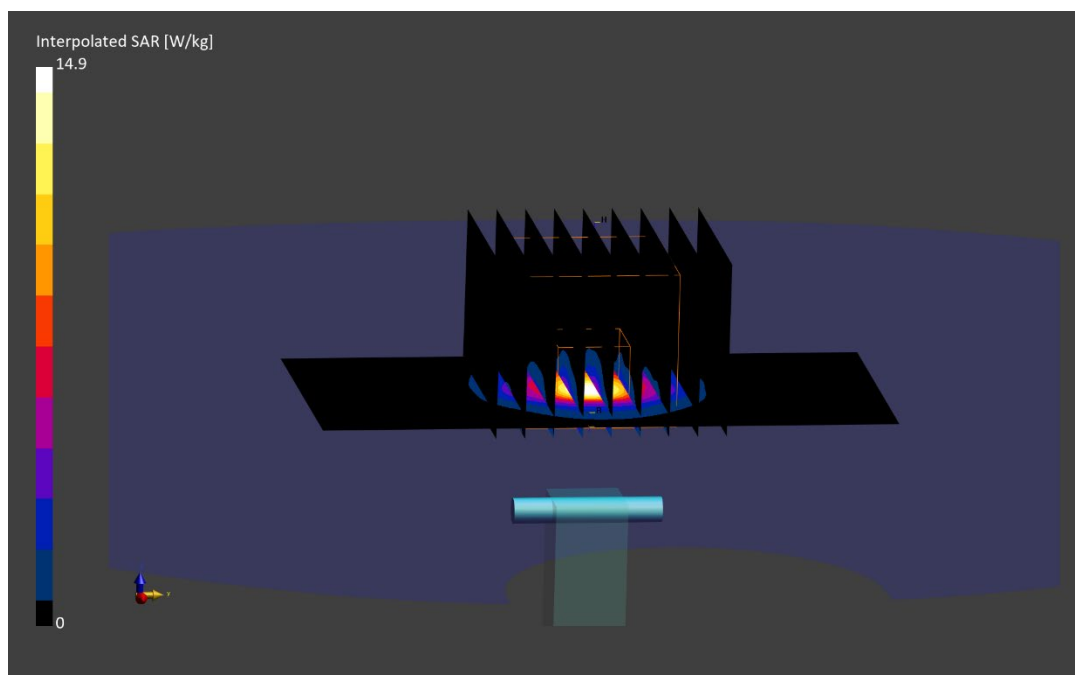
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 14.9 W/kg

SAR(1 g) = 3.73 W/kg; SAR(10 g) = 1.06 W/kg

Deviation (1 g) = -6.87%; Deviation (10 g) = -7.42%



ELEMENT

DUT: Dipole 5600.000 MHz; Type: D5GHzV2 - SN1237

Communication System: UID: 0, CW; Frequency: 5600.000 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5600.000 MHz; cond = 5.08 S/m; perm = 33.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/14/2024; Ambient Temp: 20.8°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7402; ConvF:(4.57,4.97,4.64); 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1502; 2024-05-08
Phantom: Twin-SAM V5.0; Serial: 1797
Measurement SW: DASY Module SAR V16.4.0.5005

5600.0 MHz System Verification at 17.0 dBm (50 mW)

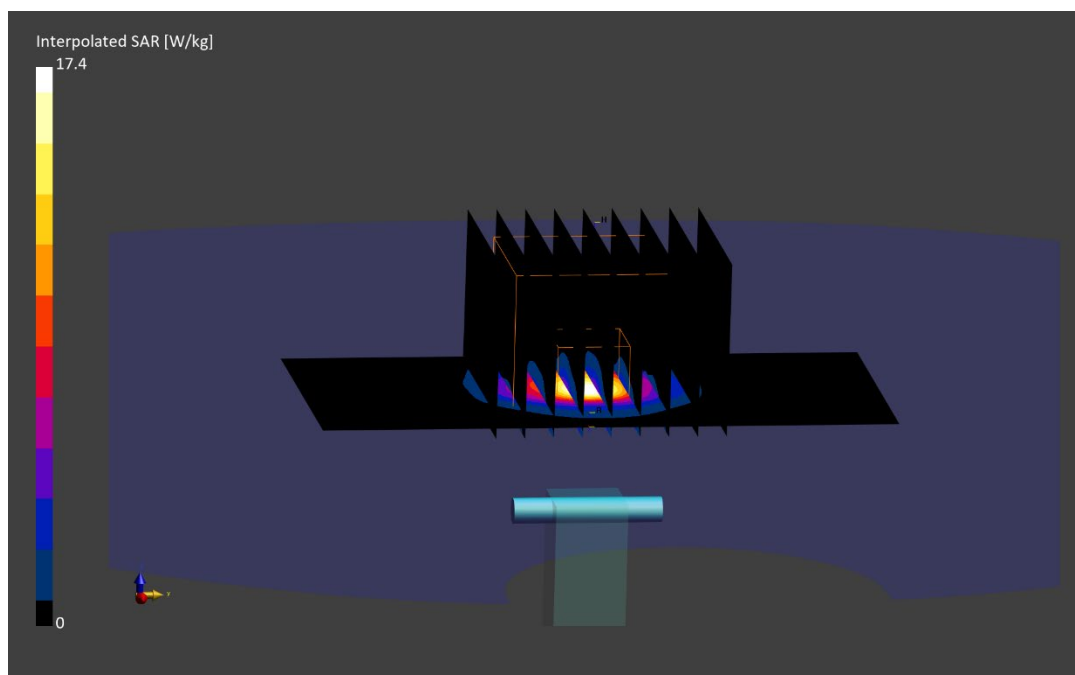
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.4 W/kg

SAR(1 g) = 4.08 W/kg; SAR(10 g) = 1.16 W/kg

Deviation (1 g) = -0.49%; Deviation (10 g) = -0.43%



ELEMENT

DUT: Dipole 5750.000 MHz; Type: D5GHzV2 - SN1237

Communication System: UID: 0, CW; Frequency: 5750.000 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5750.000 MHz; cond = 5.28 S/m; perm = 33.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/14/2024; Ambient Temp: 20.8°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7402; ConvF:(4.1,4.4,4.13); 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1502; 2024-05-08
Phantom: Twin-SAM V5.0; Serial: 1797
Measurement SW: DASY Module SAR V16.4.0.5005

5750.0 MHz System Verification at 17.0 dBm (50 mW)

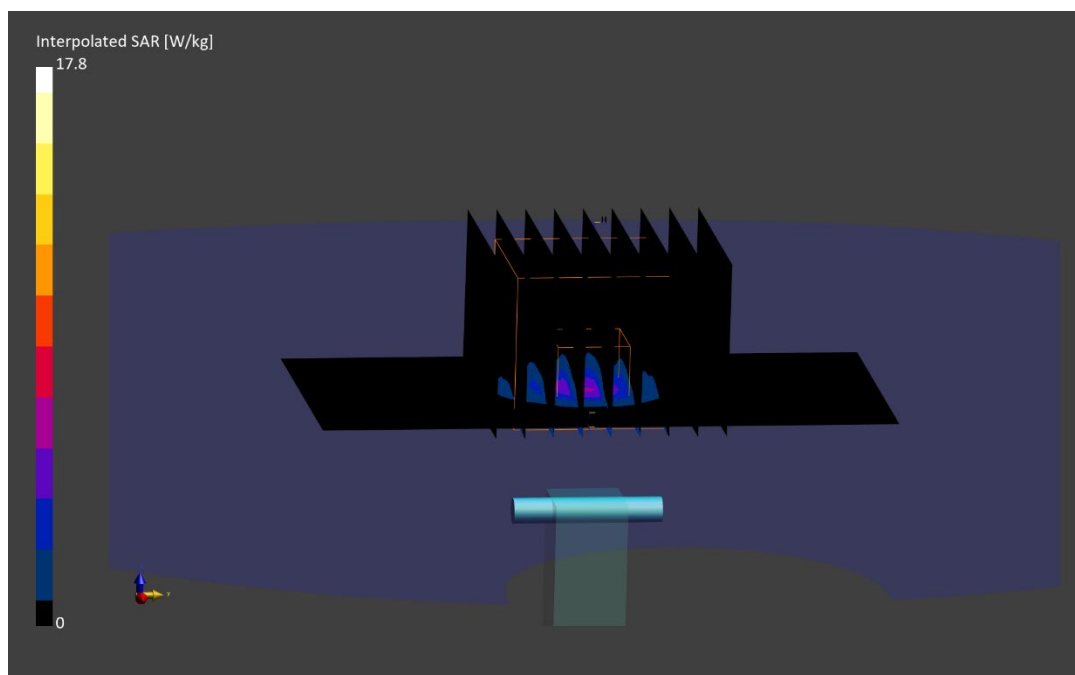
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 4.03 W/kg; SAR(10 g) = 1.15 W/kg

Deviation (1 g) = 1.77%; Deviation (10 g) = 2.22%



ELEMENT

DUT: Dipole 5850.000 MHz; Type: D5GHzV2 - SN1237

Communication System: UID: 0, CW; Frequency: 5850.000 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5850.000 MHz; cond = 5.39 S/m; perm = 33.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/14/2024; Ambient Temp: 20.8°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7402; ConvF:(3.95,4.27,4.0); 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1502; 2024-05-08
Phantom: Twin-SAM V5.0; Serial: 1797
Measurement SW: DASY Module SAR V16.4.0.5005

5850.0 MHz System Verification at 17.0 dBm (50 mW)

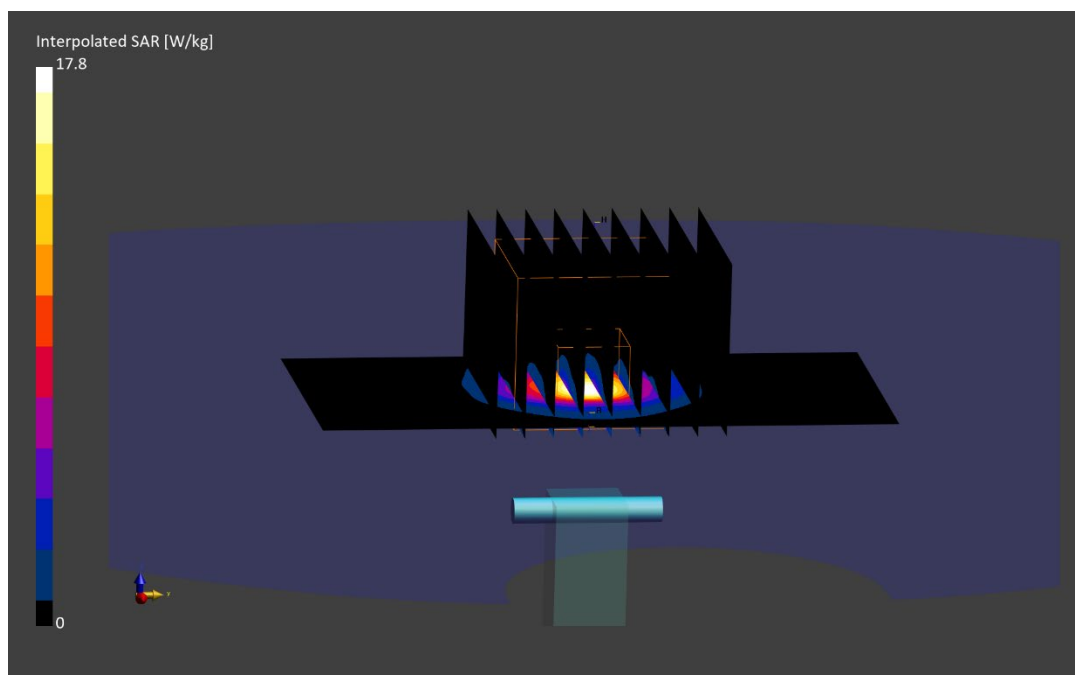
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 3.99 W/kg; SAR(10 g) = 1.14 W/kg

Deviation (1 g) = -0.75%; Deviation (10 g) = 0.00%



ELEMENT

DUT: Dipole 6500.000 MHz; Type: D6.5GHzV2 - SN1018

Communication System: UID: 0, CW; Frequency: 6500.0 MHz
Medium: 6000 Head; Medium parameters used:
f = 6500.0 MHz; cond = 6.03 S/m; perm = 33.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 5 mm

Test Date: 10/14/2024; Ambient Temp: 21.0°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7421; ConvF:(5.35,5.35,5.35); 2024-03-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn604; 2024-03-06
Phantom: Twin-SAM V8.0; Serial: 2067
Measurement SW: DASY Module SAR V16.4.0.5005

6500.0 MHz System Verification at 14.0 dBm (25 mW)

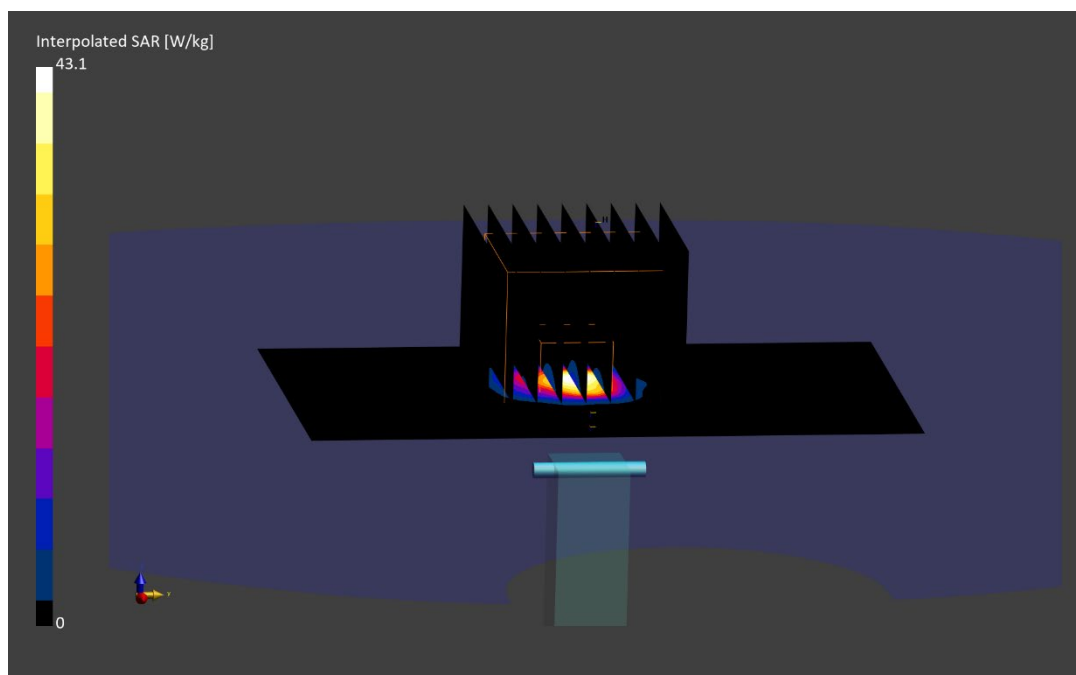
Area Scan (51.0 x 85.0): Measurement grid: dx=8.5 mm, dy=8.5 mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=3.4 mm, dy=3.4 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 43.1 W/kg

SAR(1 g) = 6.89 W/kg; SAR(10 g) = 1.27 W/kg

Deviation (1 g) = -5.94%; Deviation (10 g) = -5.75%



ELEMENT

DUT: Dipole 6500.000 MHz; Type: D6.5GHzV2 - SN1111

Communication System: UID: 0, CW; Frequency: 6500.000 MHz
Medium: 6000 Head; Medium parameters used:
 $f = 6500.000$ MHz; $\text{cond} = 6.01$ S/m; $\text{perm} = 33.8$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 5 mm

Test Date: 10/21/2024; Ambient Temp: 21.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7527; ConvF:(5.15,4.68,5.36); 2024-03-08
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1272; 2024-03-12
Phantom: Twin-SAM V8.0; Serial: 1979
Measurement SW: DASY Module SAR V16.4.0.5005

6500.0 MHz System Verification at 14.0 dBm (25 mW)

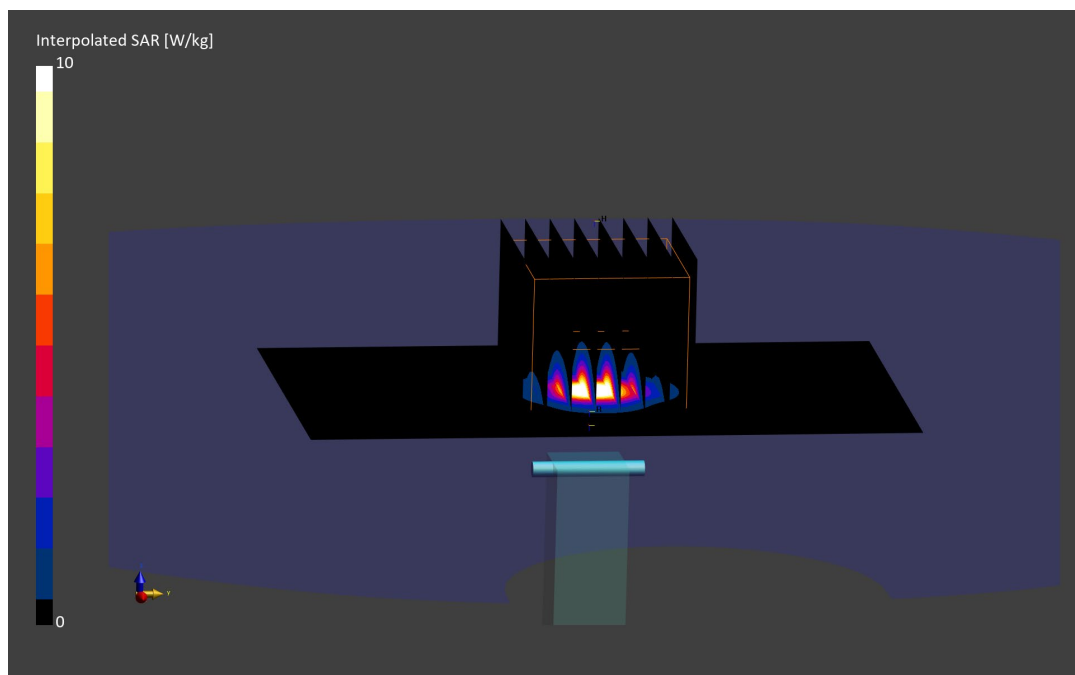
Area Scan (51.0 x 85.0): Measurement grid: $dx=8.5$ mm, $dy=8.5$ mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: $dx=3.4$ mm, $dy=3.4$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 49.8 W/kg

SAR(1 g) = 7.89 W/kg; SAR(10 g) = 1.45 W/kg; APD(4 cm²) = 35.2 W/m²

Deviation (1 g) = 8.45%; Deviation (10 g) = 8.41%; Deviation (APD) = 8.31%



ELEMENT

DUT: Dipole 6500.000 MHz; Type: D6.5GHzV2 - SN1111

Communication System: UID: 0, CW; Frequency: 6500.000 MHz
Medium: 6000 Head; Medium parameters used:
f = 6500.000 MHz; cond = 6.27 S/m; perm = 34.0; density = 1000 kg/m³
Phantom Section: Flat; Space: 5 mm

Test Date: 11/04/2024; Ambient Temp: 20.7°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7659; ConvF:(5.95,5.95,5.95); 2024-04-17
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1407; 2024-04-18
Phantom: Twin-SAM V8.0; Serial: 2064
Measurement SW: DASY Module SAR V16.4.0.5005

6500.0 MHz System Verification at 14.0 dBm (25 mW)

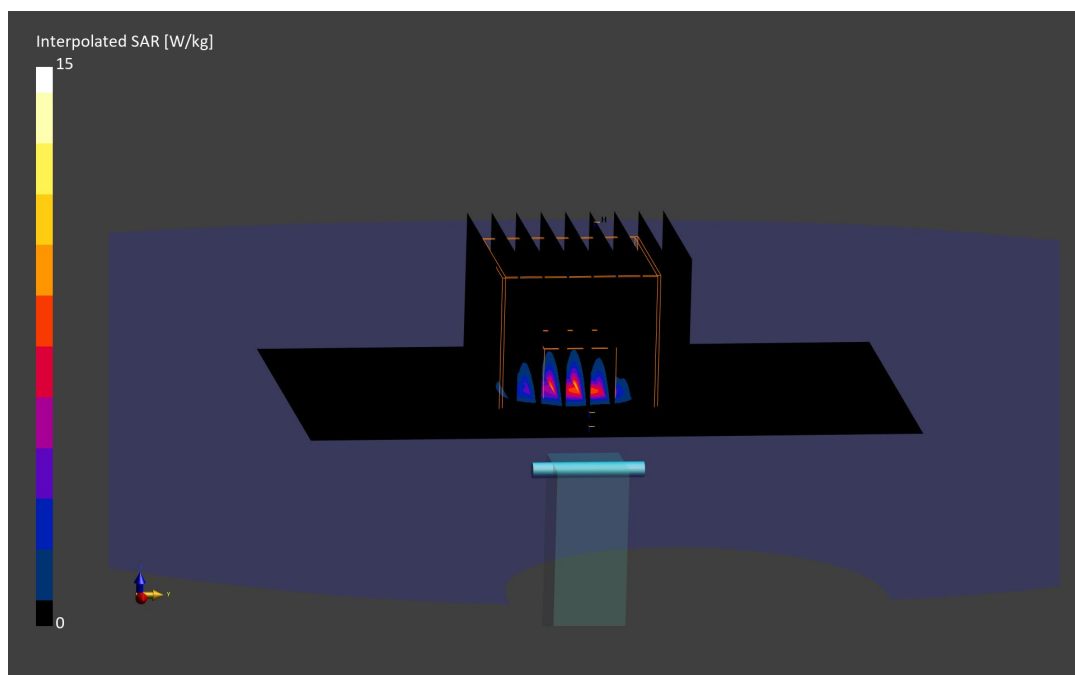
Area Scan (51.0 x 85.0): Measurement grid: dx=8.5 mm, dy=8.5 mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=3.4 mm, dy=3.4 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 42.9 W/kg

SAR(1 g) = 6.73 W/kg; SAR(10 g) = 1.26 W/kg; APD(4.0 cm²) = 30.4 W/m²

Deviation (1 g) = -7.49%; Deviation (10 g) = -5.79%; Deviation (APD) = -6.46%



ELEMENT

DUT: Dipole 8000.000 MHz; Type: D8GHzV2 - SN1007

Communication System: UID: 0, CW; Frequency: 8000.000 MHz
Medium: 6000 Head; Medium parameters used:
 $f = 8000.000$ MHz; $\text{cond} = 7.79$ S/m; $\text{perm} = 31.4$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 5 mm

Test Date: 10/21/2024; Ambient Temp: 21.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7527; ConvF:(5.33,4.76,5.57); 2024-03-08
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1272; 2024-03-12
Phantom: Twin-SAM V8.0; Serial: 1979
Measurement SW: DASY Module SAR V16.4.0.5005

8000.0 MHz System Verification at 14.0 dBm (25 mW)

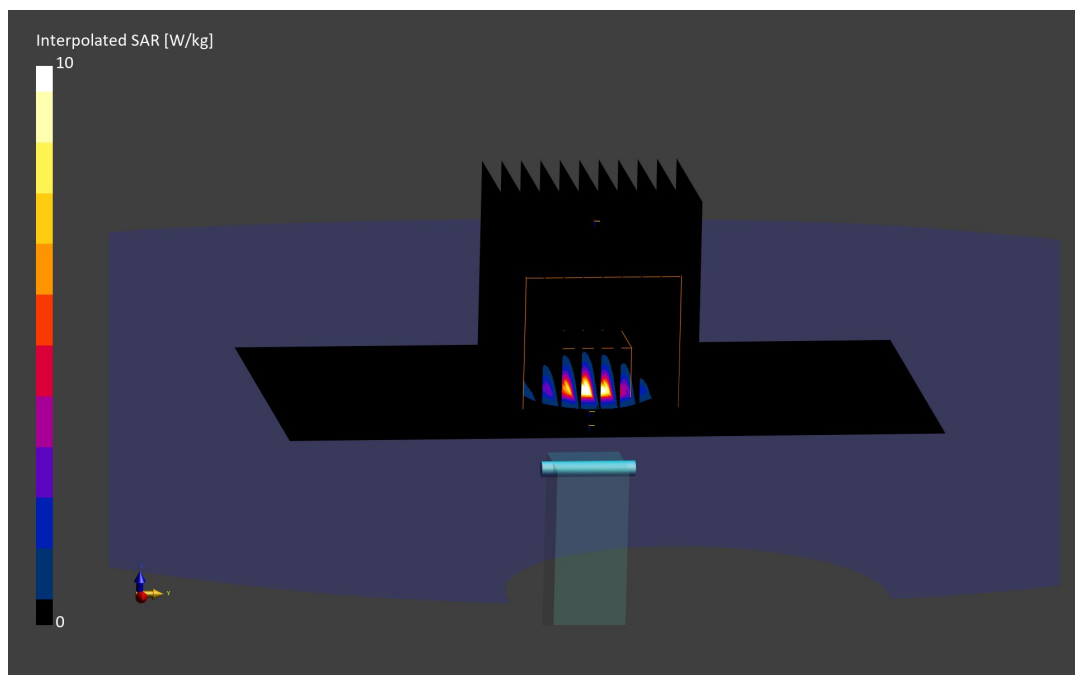
Area Scan (52.0 x 91.0): Measurement grid: $dx=6.5$ mm, $dy=6.5$ mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: $dx=2.7$ mm, $dy=2.7$ mm, $dz=1.3$ mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 59.9 W/kg

SAR(1 g) = 6.83 W/kg; SAR(10 g) = 1.14 W/kg; APD(4.0 cm²) = 27.6 W/m²

Deviation (1 g) = 1.56%; Deviation (10 g) = 0.66%; Deviation (APD) = -0.54%



Date: 2024-10-20

Measurement Group

Device Under Test Properties

DUT	Serial Number
10 GHz Verification Source	1002

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	10.00	Validation band	10000.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV4 – SN9622, 2024-02-02	DAE4 – SN1449, 2024-09-10

Software Setup

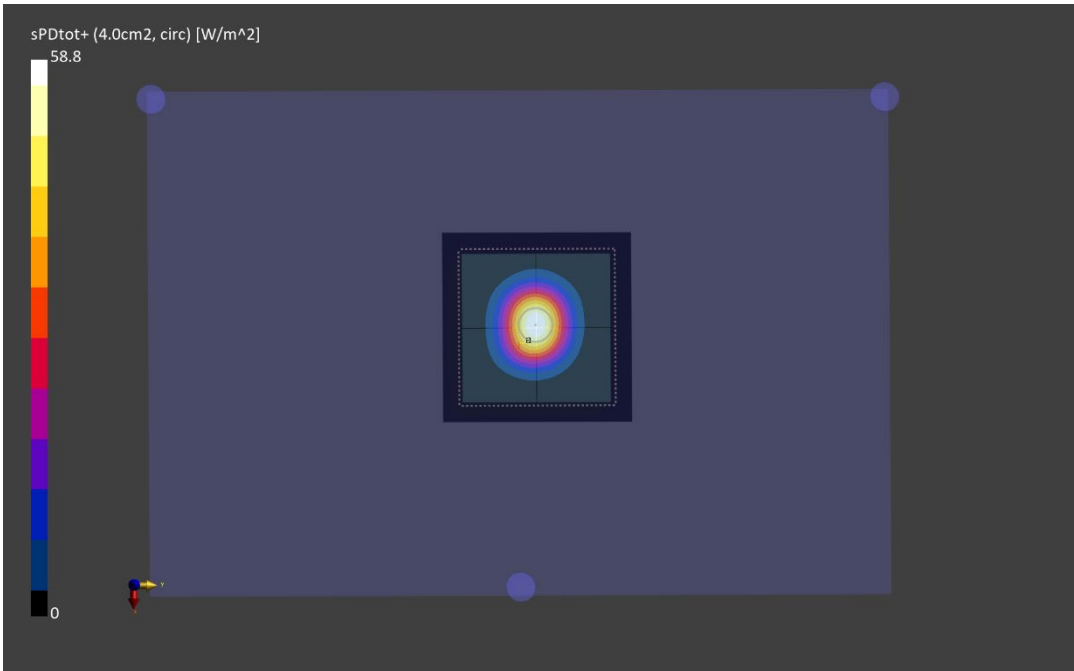
Software	Software Version
cDASY6 Module mmWave	3.2.0.1840

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm²]	4.00
pS _{tot} avg [W/m²]	58.8
pS _n avg [W/m²]	58.5
E _{peak} [V/m]	159
Deviation [dB] pS _{tot}	0.30
Deviation [dB] pS _n	0.30



Date: 2024-10-27

Measurement Group

Device Under Test Properties

DUT	Serial Number
10 GHz Verification Source	1002

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	10.00	Validation band	10000.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV4 – SN9622, 2024-02-02	DAE4 – SN1449, 2024-09-10

Software Setup

Software	Software Version
cDASY6 Module mmWave	3.2.0.1840

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm²]	4.00
pS _{tot} avg [W/m²]	56.7
pS _n avg [W/m²]	56.4
E _{peak} [V/m]	154
Deviation [dB] pS _{tot}	0.14
Deviation [dB] pS _n	0.14

