

APPENDIX B: SYSTEM VERIFICATION

ELEMENT

DUT: Dipole 13.0 MHz; Type: CLA-13 - SN1004

Communication System: UID: 0, CW; Frequency: 13.0 MHz
Medium: 30 Head; Medium parameters used:
 $f = 13.0$ MHz; $\text{cond} = 0.755$ S/m; $\text{perm} = 52.4$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 0 mm

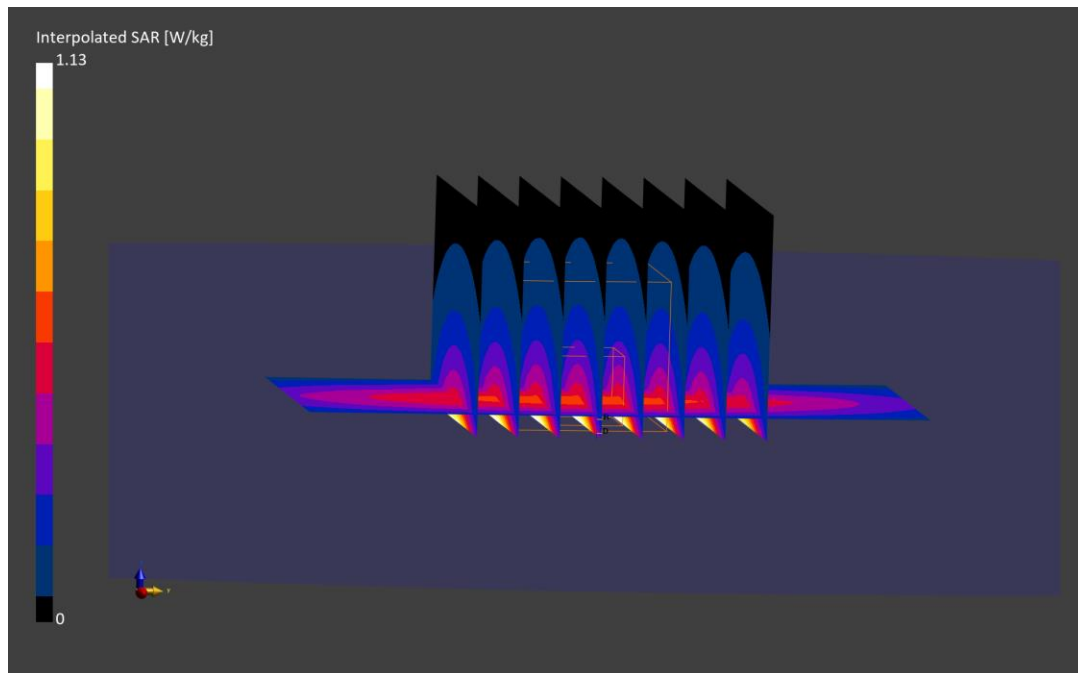
Test Date: 12/09/2024; Ambient Temp: 21.3°C; Tissue Temp: 23.8°C

Probe: EX3DV4 - SN7308; ConvF:(16.59,16.59,16.59); Calibrated: 2024-02-09
Sensor-Surface: 1.4mm (All points)
Electronics: DAE4 Sn534; Calibrated: 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 (42.0 x 42.0 x 31.2): Measurement grid: $dx=6.0$ mm, $dy=6.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5
Peak SAR (extrapolated) = 1.13 W/kg
SAR(1 g) = 0.544 W/kg
Deviation (1 g) = -5.39%



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1057

Communication System: UID: 0, CW; Frequency: 750.0 MHz

Medium: 750 Head; Medium parameters used:

f = 750.0 MHz; cond = 0.882 S/m; perm = 41.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 10/31/2024; Ambient Temp: 22.3°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7416; ConvF:(8.53,9.4,8.96); Calibrated: 2024-05-13

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

Electronics: DAE4 Sn701; Calibrated: 2024-05-08

Phantom: Twin-SAM V8.0; Serial: 1736

Measurement SW: DASY Module SAR V16.4.0.5005

750.0 MHz System Verification at 23.0 dBm (200 mW)

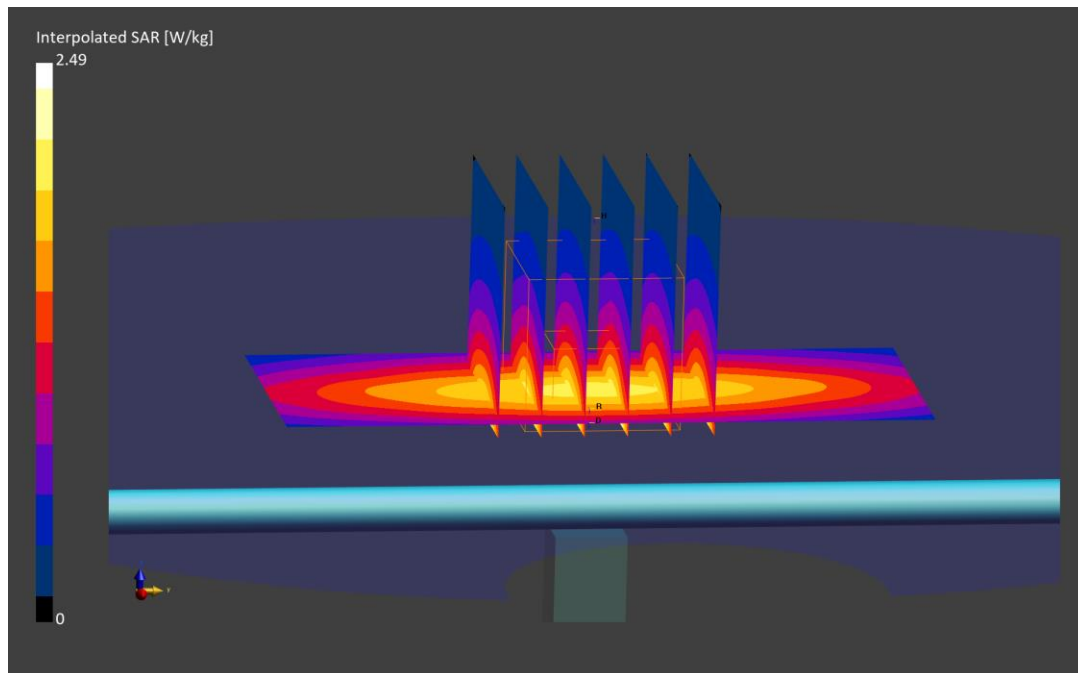
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.49 W/kg

SAR(1 g) = 1.71 W/kg

Deviation (1 g) = 0.47%



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1097

Communication System: UID: 0, CW; Frequency: 750.0 MHz

Medium: 750 Head; Medium parameters used:

$f = 750.0$ MHz; $\text{cond} = 0.914$ S/m; $\text{perm} = 41.0$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 10/31/2024; Ambient Temp: 22.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7532; ConvF:(9.83,9.71,10.46); Calibrated: 2024-04-16

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

Electronics: DAE4 Sn501; Calibrated: 2024-04-09

Phantom: Twin-SAM V5.0; Serial: 1647

Measurement SW: DASY Module SAR V16.4.0.5005

750.0 MHz System Verification at 23.0 dBm (200 mW)

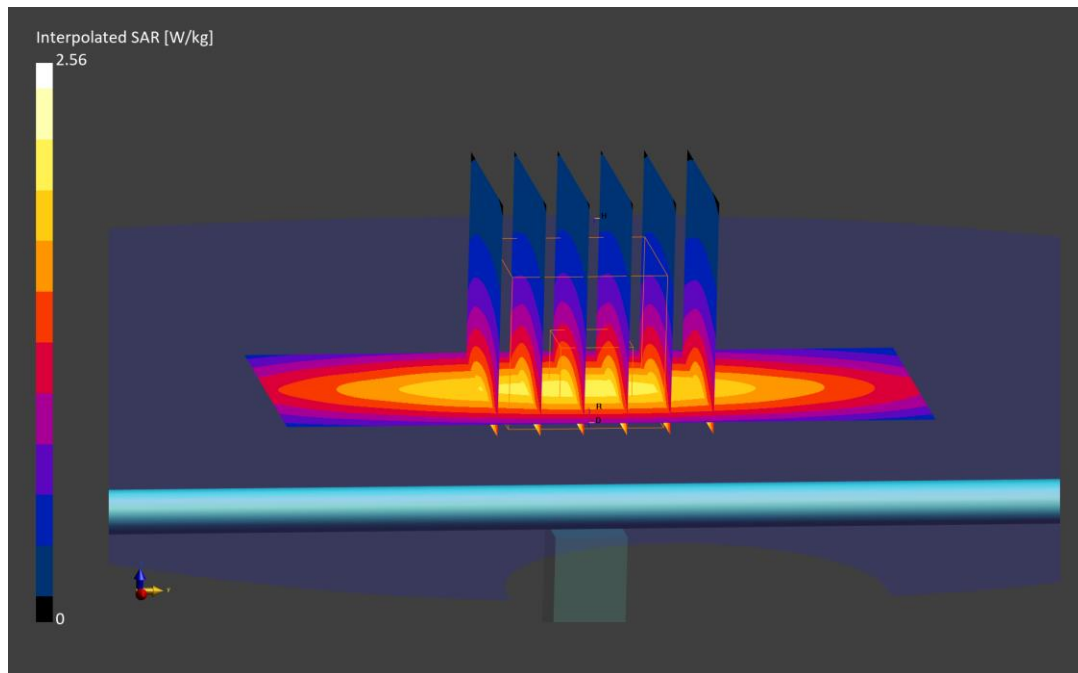
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: $dx=6.0$ mm, $dy=6.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.56 W/kg

SAR(1 g) = 1.74 W/kg

Deviation (1 g) = 5.20%



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1057

Communication System: UID: 0, CW; Frequency: 750.0 MHz

Medium: 750 Head; Medium parameters used:

$f = 750.0$ MHz; $\text{cond} = 0.880$ S/m; $\text{perm} = 40.6$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 11/04/2024; Ambient Temp: 22.6°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7416; ConvF:(8.53,9.4,8.96); Calibrated: 2024-05-13

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

Electronics: DAE4 Sn701; Calibrated: 2024-05-08

Phantom: Twin-SAM V8.0; Serial: 1736

Measurement SW: DASY Module SAR V16.4.0.5005

750.0 MHz System Verification at 23.0 dBm (200 mW)

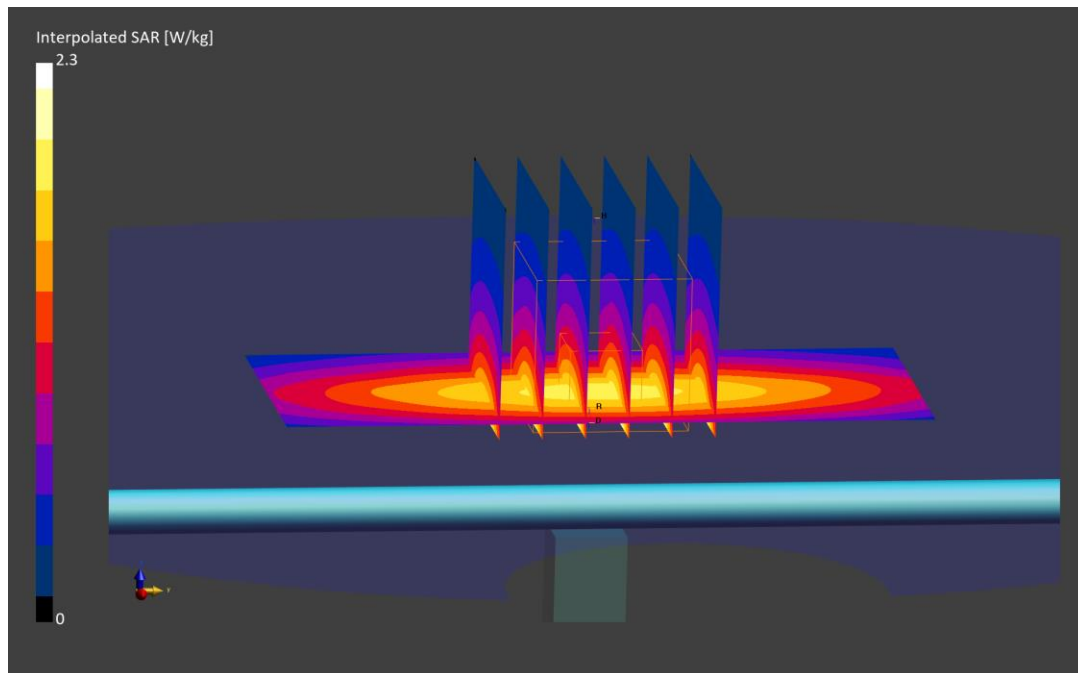
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: $dx=6.0$ mm, $dy=6.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 1.57 W/kg

Deviation (1 g) = -7.76%



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1097

Communication System: UID: 0, CW; Frequency: 750.0 MHz

Medium: 750 Head; Medium parameters used:

f = 750.0 MHz; cond = 0.902 S/m; perm = 40.7; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 11/04/2024; Ambient Temp: 21.0°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7532; ConvF:(9.83,9.71,10.46); Calibrated: 2024-04-16

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

Electronics: DAE4 Sn501; Calibrated: 2024-04-09

Phantom: Twin-SAM V5.0; Serial: 1647

Measurement SW: DASY Module SAR V16.4.0.5005

750.0 MHz System Verification at 23.0 dBm (200 mW)

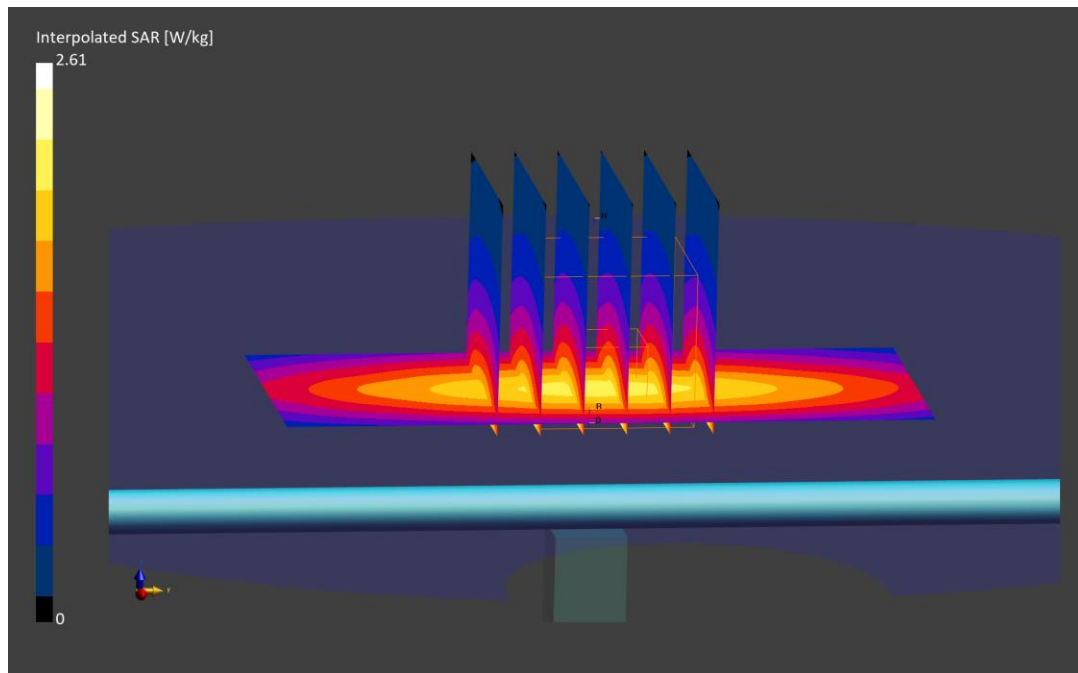
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.61 W/kg

SAR(1 g) = 1.76 W/kg

Deviation (1 g) = 6.41%



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1057

Communication System: UID: 0, CW; Frequency: 750.0 MHz

Medium: 750 Head; Medium parameters used:

$f = 750.0$ MHz; $\text{cond} = 0.901$ S/m; $\text{perm} = 41.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 11/08/2024; Ambient Temp: 22.9°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7416; ConvF:(8.53,9.4,8.96); Calibrated: 2024-05-13

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

Electronics: DAE4 Sn701; Calibrated: 2024-05-08

Phantom: Twin-SAM V8.0; Serial: 1736

Measurement SW: DASY Module SAR V16.4.0.5005

750.0 MHz System Verification at 23.0 dBm (200 mW)

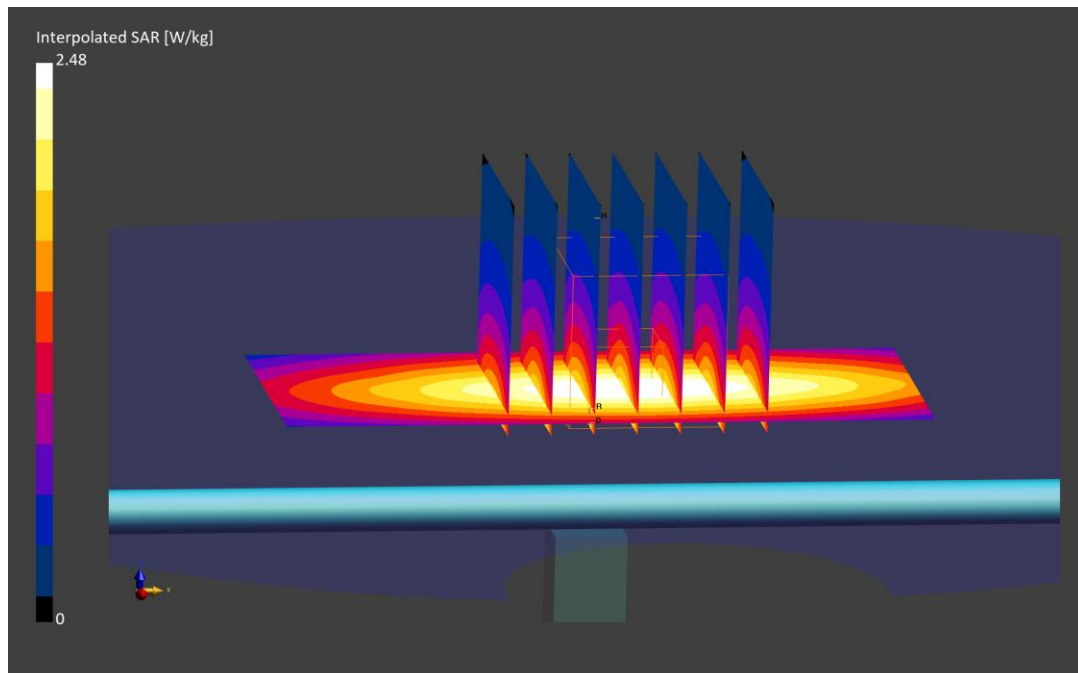
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

Zoom Scan (30.0 x 36.0 x 31.2): Measurement grid: $dx=6.0$ mm, $dy=6.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.48 W/kg

SAR(1 g) = 1.69 W/kg

Deviation (1 g) = -0.71%



ELEMENT

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1097

Communication System: UID: 0, CW; Frequency: 750.0 MHz

Medium: 750 Head; Medium parameters used:

f = 750.0 MHz; cond = 0.881 S/m; perm = 41.5; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 12/09/2024; Ambient Temp: 20.9°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7532; ConvF:(9.83,9.71,10.46); Calibrated: 2024-04-16

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

Electronics: DAE4 Sn501; Calibrated: 2024-04-09

Phantom: Twin-SAM V5.0; Serial: 1647

Measurement SW: DASY Module SAR V16.4.0.5005

750.0 MHz System Verification at 23.0 dBm (200 mW)

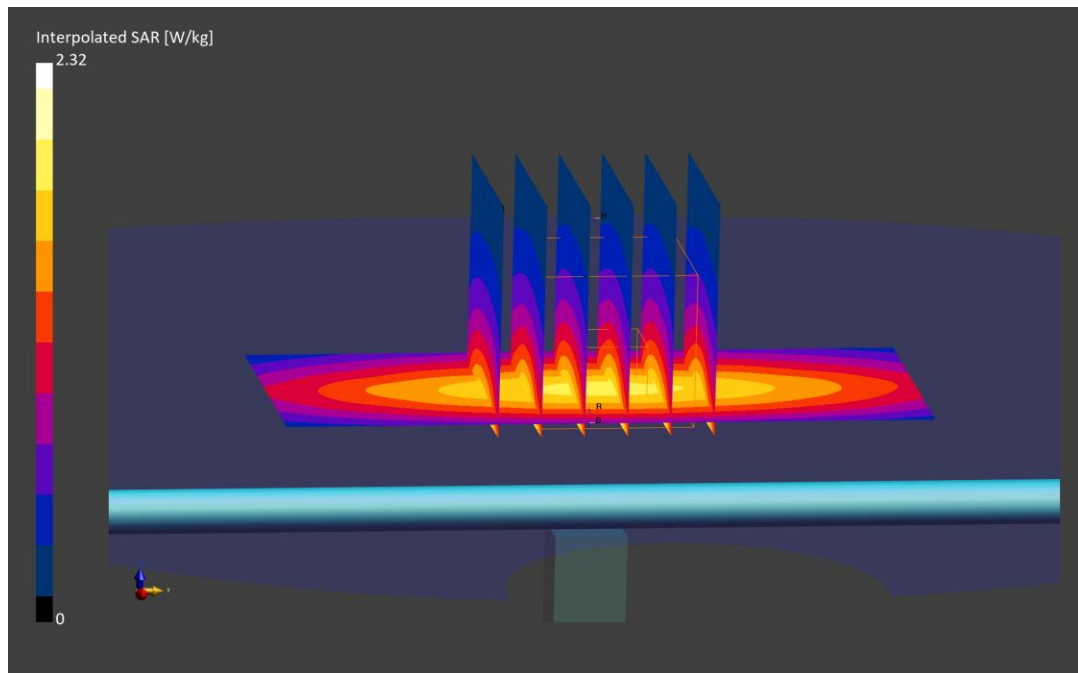
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.32 W/kg

SAR(1 g) = 1.59 W/kg

Deviation (1 g) = -3.87%



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN460

Communication System: UID: 0, CW; Frequency: 835.0 MHz

Medium: 835 Head; Medium parameters used:

$f = 835.0$ MHz; $\text{cond} = 0.885$ S/m; $\text{perm} = 40.1$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 11/01/2024; Ambient Temp: 21.2°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7682; ConvF:(9.76,9.52,10.09); Calibrated: 2024-05-13

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

Electronics: DAE4 Sn1683; Calibrated: 2024-05-08

Phantom: Twin-SAM V8.0; Serial: 1917

Measurement SW: DASY Module SAR V16.4.0.5005

835.0 MHz System Verification at 23.0 dBm (200 mW)

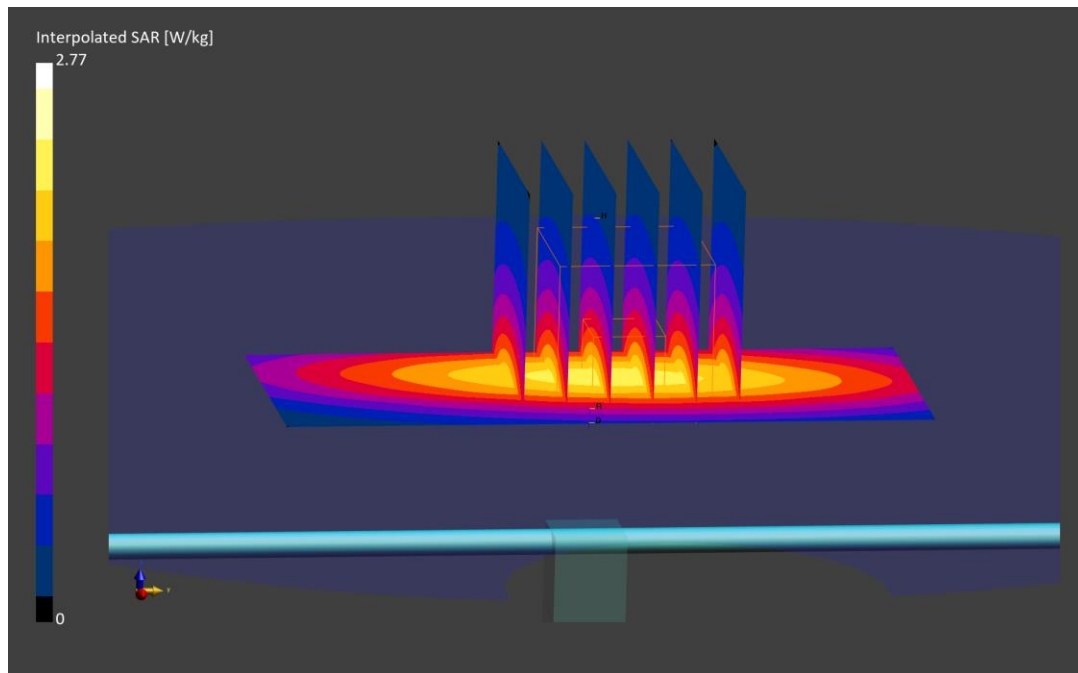
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: $dx=6.0$ mm, $dy=6.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.77 W/kg

SAR(1 g) = 1.93 W/kg

Deviation (1 g) = -0.72%



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN460

Communication System: UID: 0, CW; Frequency: 835.0 MHz

Medium: 835 Head; Medium parameters used:

f = 835.0 MHz; cond = 0.906 S/m; perm = 40.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 11/04/2024; Ambient Temp: 21.1°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7682; ConvF:(9.76,9.52,10.09); Calibrated: 2024-05-13

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

Electronics: DAE4 Sn1683; Calibrated: 2024-05-08

Phantom: Twin-SAM V8.0; Serial: 1917

Measurement SW: DASY Module SAR V16.4.0.5005

835.0 MHz System Verification at 23.0 dBm (200 mW)

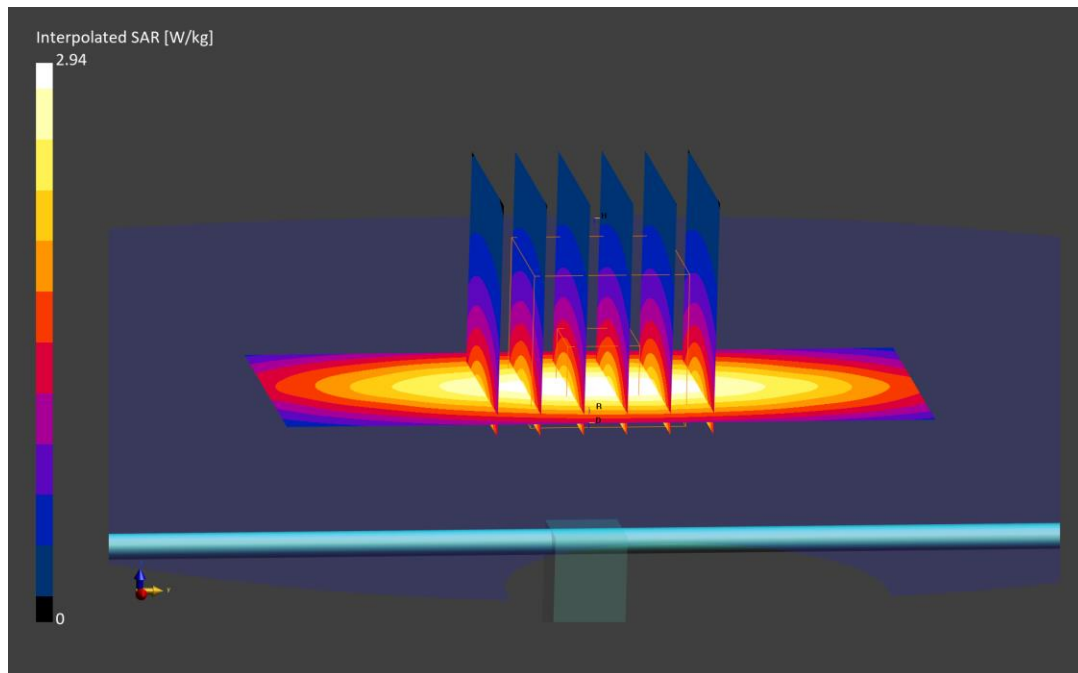
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.94 W/kg

SAR(1 g) = 2.03 W/kg

Deviation (1 g) = 4.42%



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN460

Communication System: UID: 0, CW; Frequency: 835.0 MHz

Medium: 835 Head; Medium parameters used:

$f = 835.0$ MHz; $\text{cond} = 0.901$ S/m; $\text{perm} = 40.9$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 11/06/2024; Ambient Temp: 21.2°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7682; ConvF:(9.76,9.52,10.09); Calibrated: 2024-05-13

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

Electronics: DAE4 Sn1683; Calibrated: 2024-05-08

Phantom: Twin-SAM V8.0; Serial: 1917

Measurement SW: DASY Module SAR V16.4.0.5005

835.0 MHz System Verification at 23.0 dBm (200 mW)

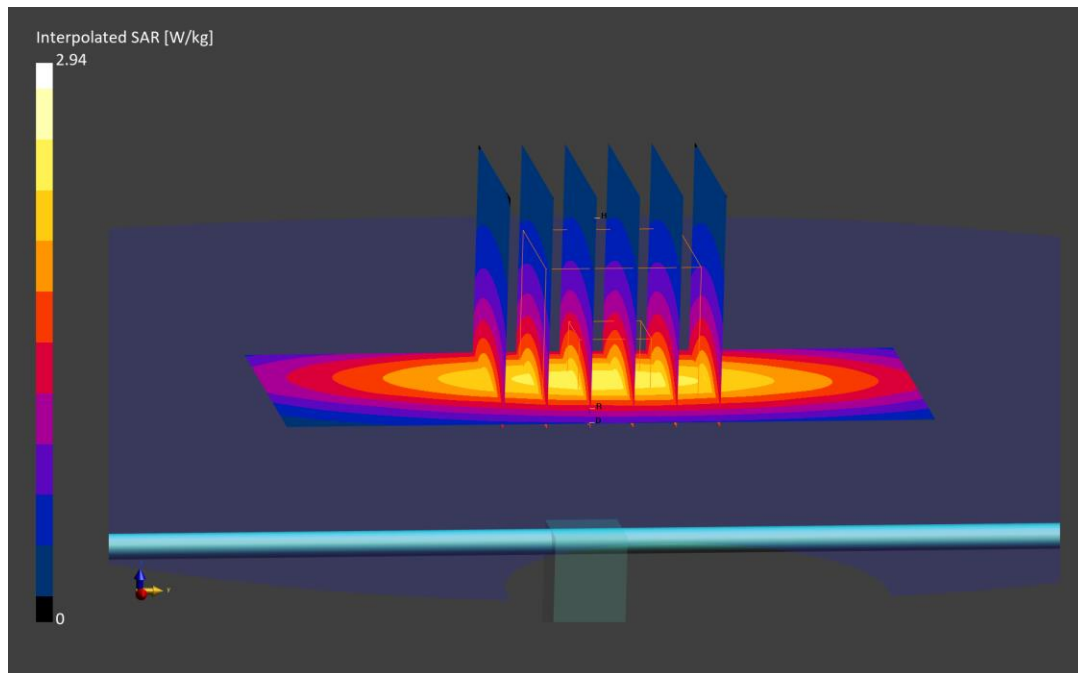
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: $dx=6.0$ mm, $dy=6.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.94 W/kg

SAR(1 g) = 2.04 W/kg

Deviation (1 g) = 4.94%



ELEMENT

DUT: Dipole 835.0 MHz; Type: D835V2 - SN460

Communication System: UID: 0, CW; Frequency: 835.0 MHz

Medium: 835 Head; Medium parameters used:

$f = 835.0$ MHz; $\text{cond} = 0.906$ S/m; $\text{perm} = 40.6$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 11/11/2024; Ambient Temp: 20.2°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7682; ConvF:(9.76,9.52,10.09); Calibrated: 2024-05-13

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

Electronics: DAE4 Sn1683; Calibrated: 2024-05-08

Phantom: Twin-SAM V8.0; Serial: 1917

Measurement SW: DASY Module SAR V16.4.0.5005

835.0 MHz System Verification at 23.0 dBm (200 mW)

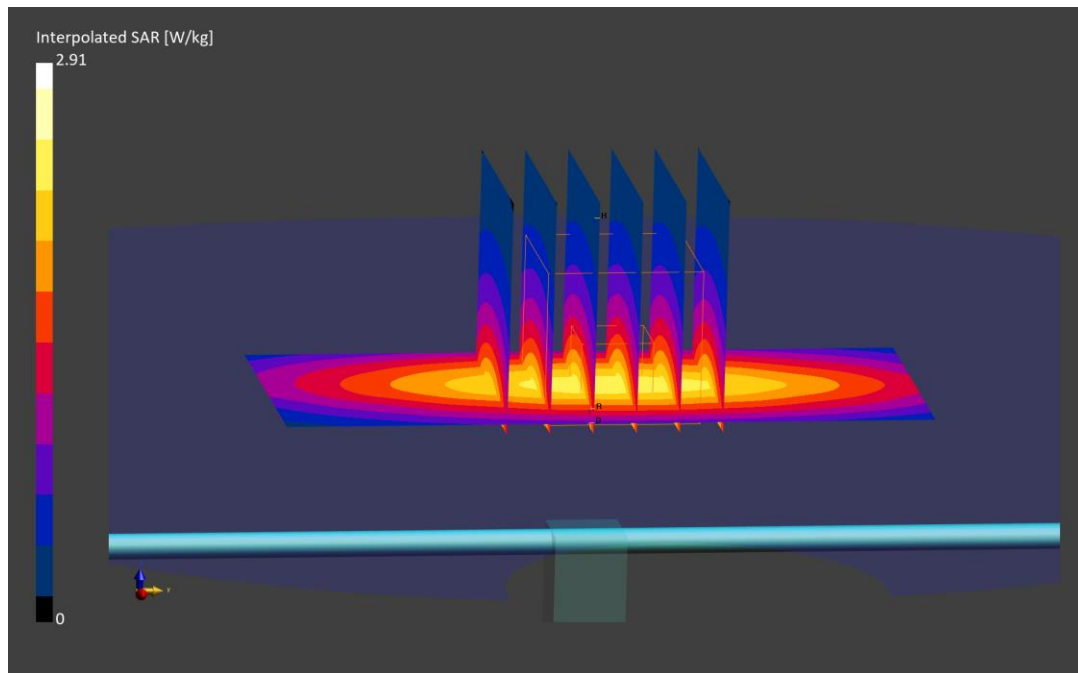
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: $dx=6.0$ mm, $dy=6.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.91 W/kg

SAR(1 g) = 2.03 W/kg

Deviation (1 g) = 4.42%



ELEMENT

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1083

Communication System: UID: 0, CW; Frequency: 1750.0 MHz

Medium: 1750 Head; Medium parameters used:

f = 1750.0 MHz; cond = 1.41 S/m; perm = 38.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/15/2024; Ambient Temp: 23.0°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7360; ConvF:(7.89,7.7,8.86); Calibrated: 2024-03-11

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

Electronics: DAE4 Sn534; Calibrated: 2024-03-06

Phantom: Twin-SAM V4.0; Serial: 1598

Measurement SW: DASY Module SAR V16.4.0.5005

1750.0 MHz System Verification at 20.0 dBm (100 mW)

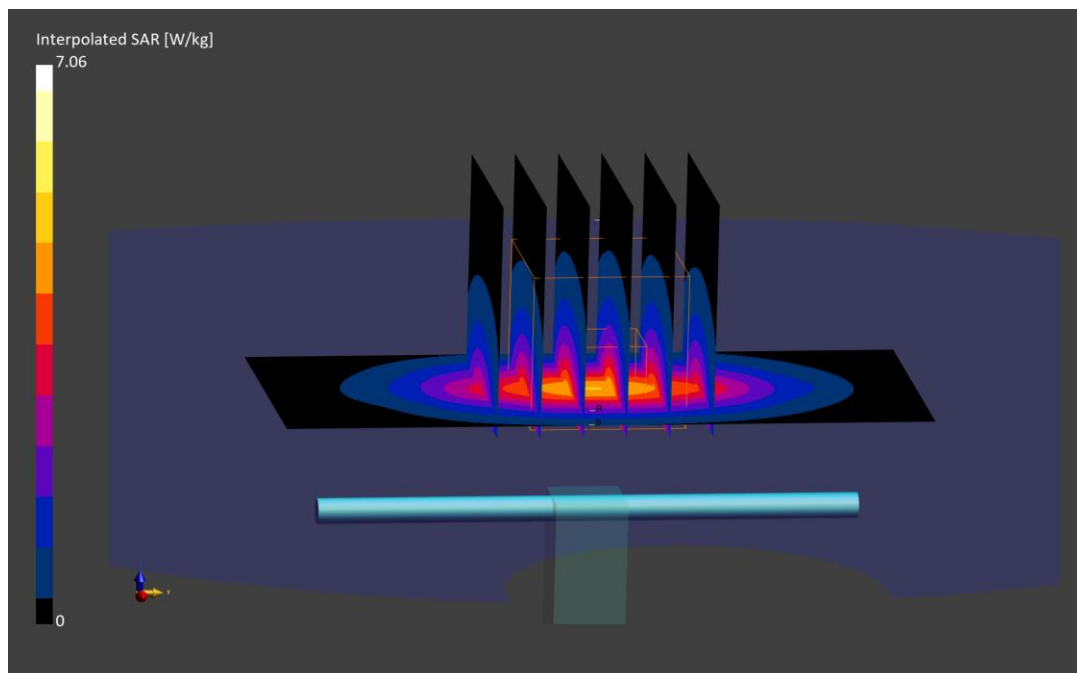
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 7.06 W/kg

SAR(1 g) = 3.76 W/kg

Deviation (1 g) = 3.01%



ELEMENT

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1083

Communication System: UID: 0, CW; Frequency: 1750.0 MHz

Medium: 1750 Head; Medium parameters used:

f = 1750.0 MHz; cond = 1.42 S/m; perm = 39.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/18/2024; Ambient Temp: 21.1°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7360; ConvF:(7.89,7.7,8.86); Calibrated: 2024-03-11

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

Electronics: DAE4 Sn534; Calibrated: 2024-03-06

Phantom: Twin-SAM V4.0; Serial: 1598

Measurement SW: DASY Module SAR V16.4.0.5005

1750.0 MHz System Verification at 20.0 dBm (100 mW)

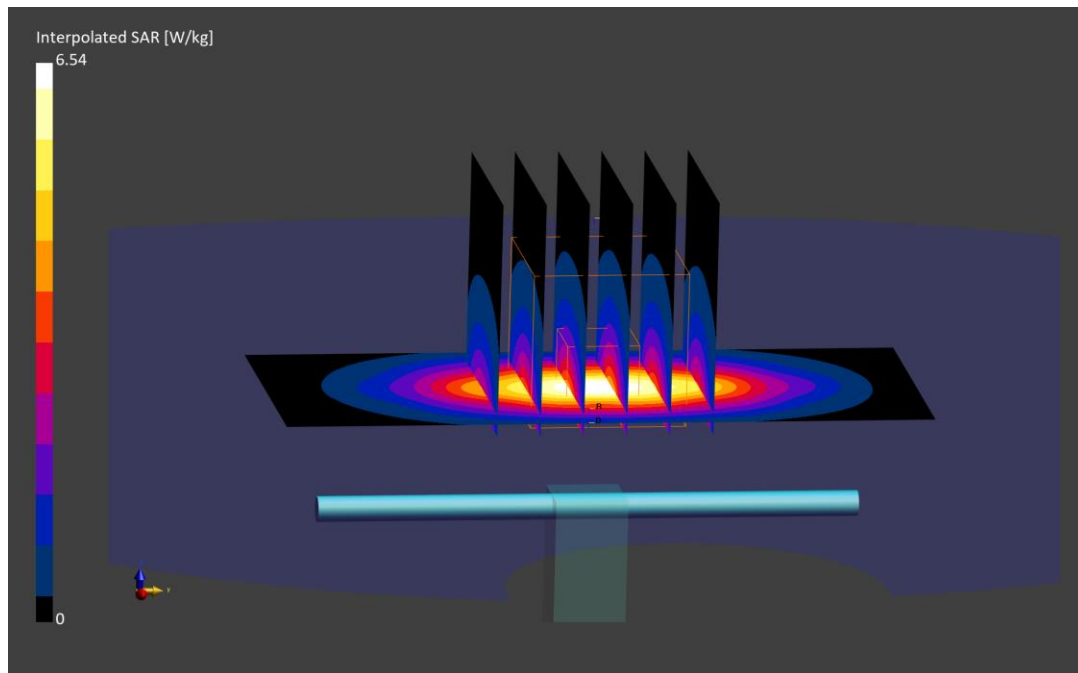
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 6.54 W/kg

SAR(1 g) = 3.47 W/kg

Deviation (1 g) = -4.93%



ELEMENT

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1083

Communication System: UID: 0, CW; Frequency: 1750.0 MHz

Medium: 1750 Head; Medium parameters used:

f = 1750.0 MHz; cond = 1.41 S/m; perm = 38.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/20/2024; Ambient Temp: 21.1°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7360; ConvF:(7.89,7.7,8.86); Calibrated: 2024-03-11

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

Electronics: DAE4 Sn534; Calibrated: 2024-03-06

Phantom: Twin-SAM V4.0; Serial: 1598

Measurement SW: DASY Module SAR V16.4.0.5005

1750.0 MHz System Verification at 20.0 dBm (100 mW)

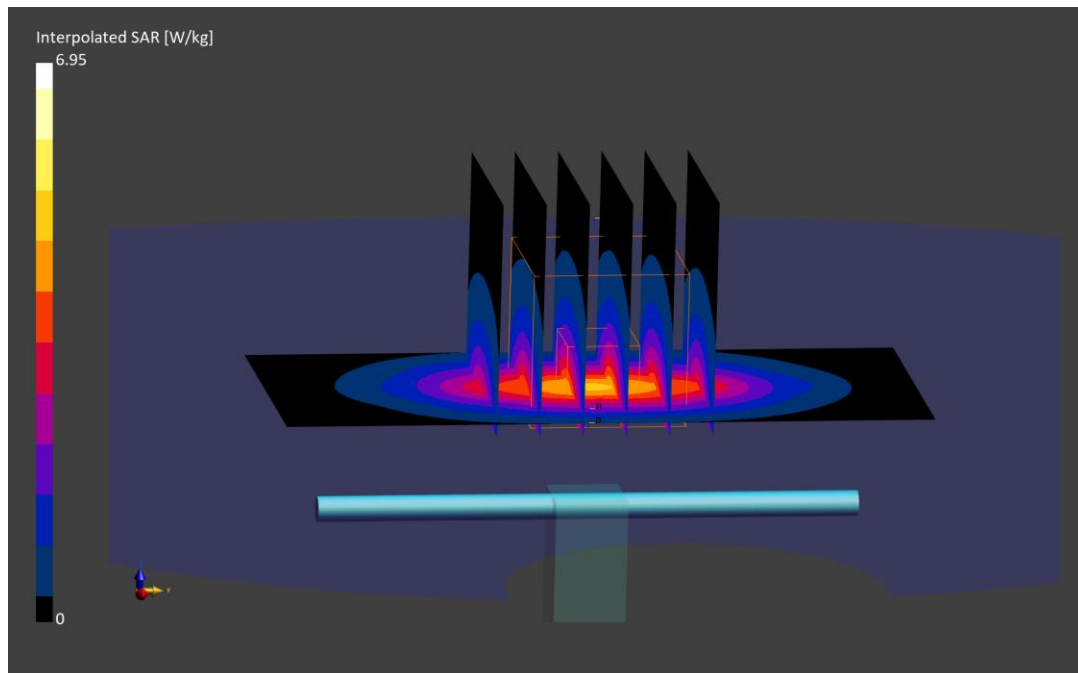
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 6.95 W/kg

SAR(1 g) = 3.70 W/kg

Deviation (1 g) = 1.37%



ELEMENT

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1083

Communication System: UID: 0, CW; Frequency: 1750.0 MHz

Medium: 1750 Head; Medium parameters used:

f = 1750.0 MHz; cond = 1.41 S/m; perm = 38.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/26/2024; Ambient Temp: 21.9°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7360; ConvF:(7.89,7.7,8.86); Calibrated: 2024-03-11

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

Electronics: DAE4 Sn534; Calibrated: 2024-03-06

Phantom: Twin-SAM V4.0; Serial: 1598

Measurement SW: DASY Module SAR V16.4.0.5005

1750.0 MHz System Verification at 20.0 dBm (100 mW)

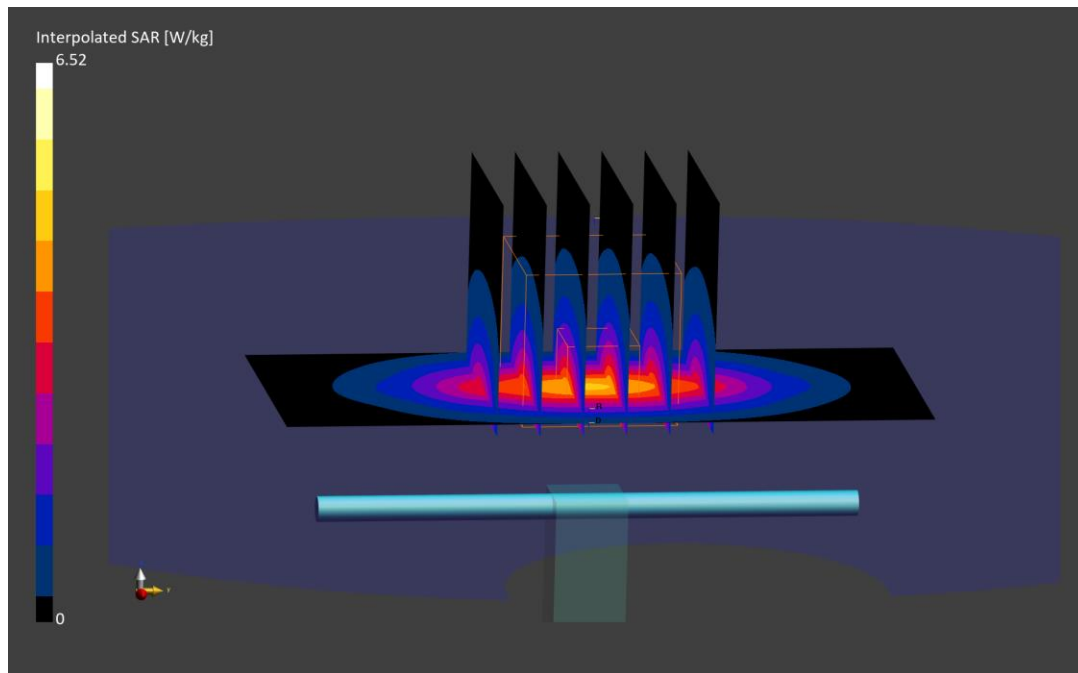
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 6.52 W/kg

SAR(1 g) = 3.47 W/kg

Deviation (1 g) = -4.93%



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d181

Communication System: UID: 0, CW; Frequency: 1900.0 MHz

Medium: 1900 Head; Medium parameters used:

f = 1900.0 MHz; cond = 1.42 S/m; perm = 38.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/04/2024; Ambient Temp: 21.0°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7421; ConvF:(7.63,7.63,7.63); Calibrated: 2024-03-11

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

Electronics: DAE4 Sn604; Calibrated: 2024-03-06

Phantom: Twin-SAM V8.0; Serial: 2067

Measurement SW: DASY Module SAR V16.4.0.5005

1900.0 MHz System Verification at 20.0 dBm (100 mW)

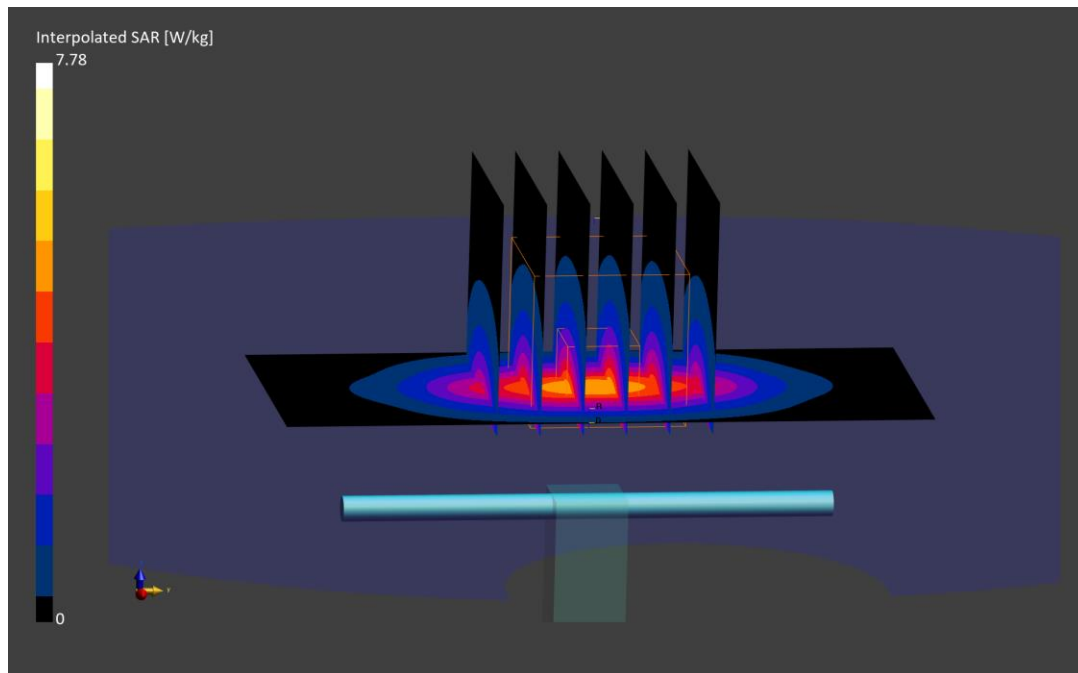
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 7.78 W/kg

SAR(1 g) = 4.07 W/kg

Deviation (1 g) = 2.01%



ELEMENT

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d181

Communication System: UID: 0, CW; Frequency: 1900.0 MHz

Medium: 1900 Head; Medium parameters used:

f = 1900.0 MHz; cond = 1.38 S/m; perm = 38.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/06/2024; Ambient Temp: 22.7°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7421; ConvF:(7.63,7.63,7.63); Calibrated: 2024-03-11

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

Electronics: DAE4 Sn604; Calibrated: 2024-03-06

Phantom: Twin-SAM V8.0; Serial: 2067

Measurement SW: DASY Module SAR V16.4.0.5005

1900.0 MHz System Verification at 20.0 dBm (100 mW)

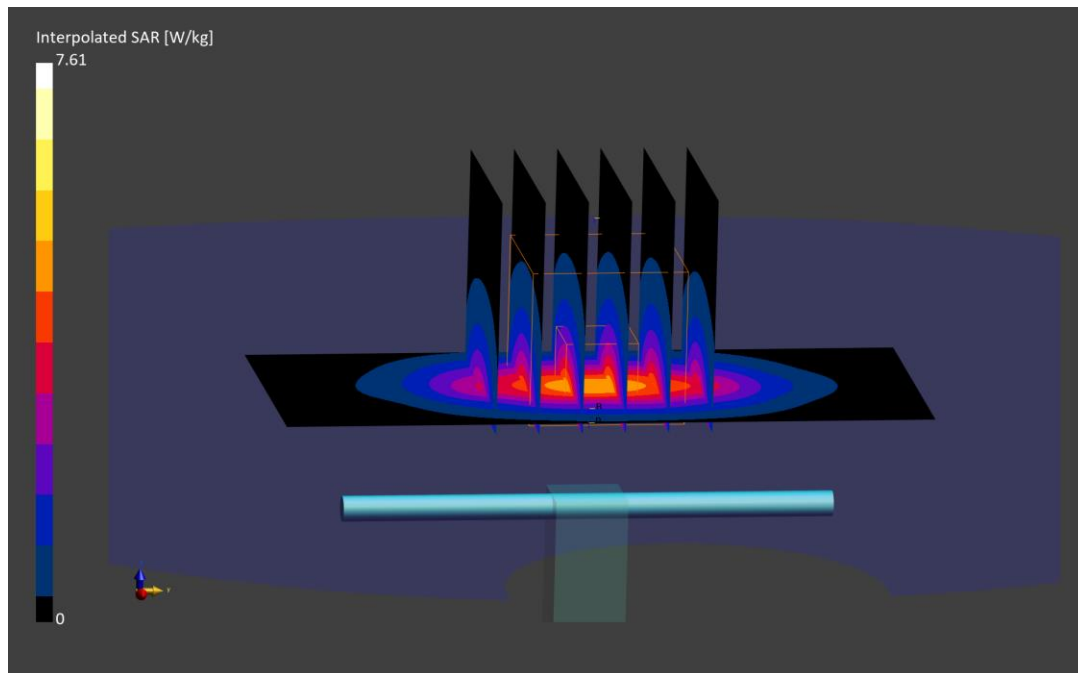
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 7.61 W/kg

SAR(1 g) = 3.98 W/kg

Deviation (1 g) = -0.25%



ELEMENT

DUT: Dipole 2300.0 MHz; Type: D2300V2 - SN1038

Communication System: UID: 0, CW; Frequency: 2300.0 MHz

Medium: 2450 Head; Medium parameters used:

f = 2300.0 MHz; cond = 1.67 S/m; perm = 38.4; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/02/2024; Ambient Temp: 23.1°C; Tissue Temp: 22.8°C

Probe: EX3DV4 - SN7546; ConvF:(7.57,6.87,7.42); Calibrated: 2024-04-16

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

Electronics: DAE4 Sn1402; Calibrated: 2024-04-10

Phantom: Twin-SAM V8.0; Serial: 2029

Measurement SW: DASY Module SAR V16.4.0.5005

2300.0 MHz System Verification at 20.0 dBm (100 mW)

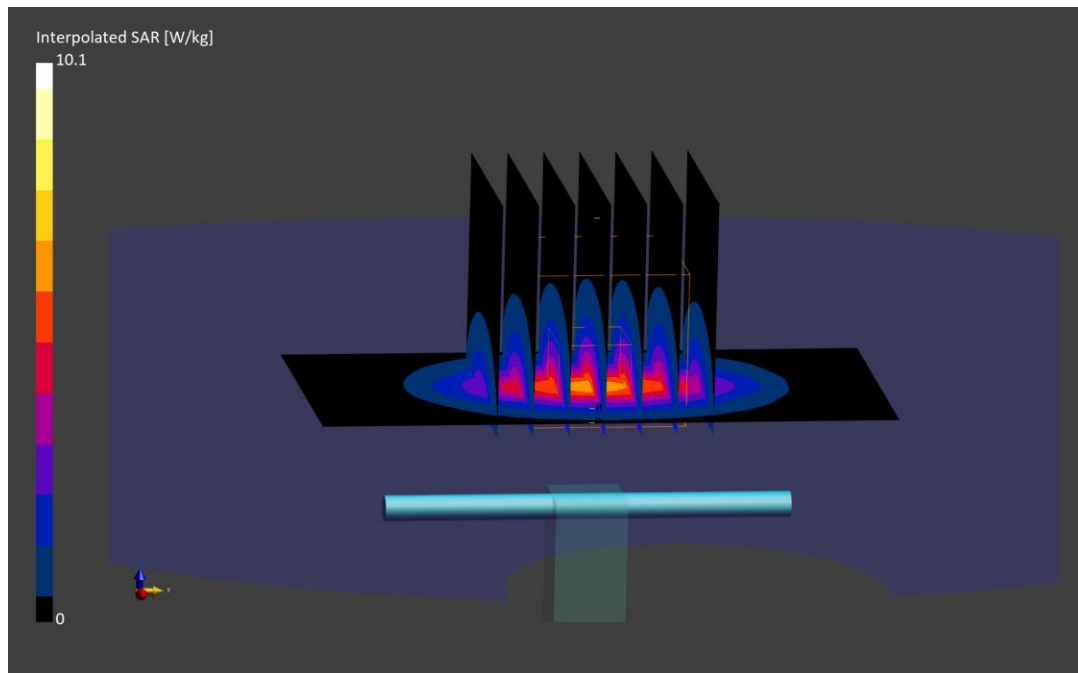
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 4.83 W/kg

Deviation (1 g) = -1.63%



ELEMENT

DUT: Dipole 2300.0 MHz; Type: D2300V2 - SN1038

Communication System: UID: 0, CW; Frequency: 2300.0 MHz

Medium: 2450 Head; Medium parameters used:

f = 2300.0 MHz; cond = 1.63 S/m; perm = 38.5; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/04/2024; Ambient Temp: 22.8°C; Tissue Temp: 22.8°C

Probe: EX3DV4 - SN7546; ConvF:(7.57,6.87,7.42); Calibrated: 2024-04-16

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

Electronics: DAE4 Sn1402; Calibrated: 2024-04-10

Phantom: Twin-SAM V8.0; Serial: 2029

Measurement SW: DASY Module SAR V16.4.0.5005

2300.0 MHz System Verification at 20.0 dBm (100 mW)

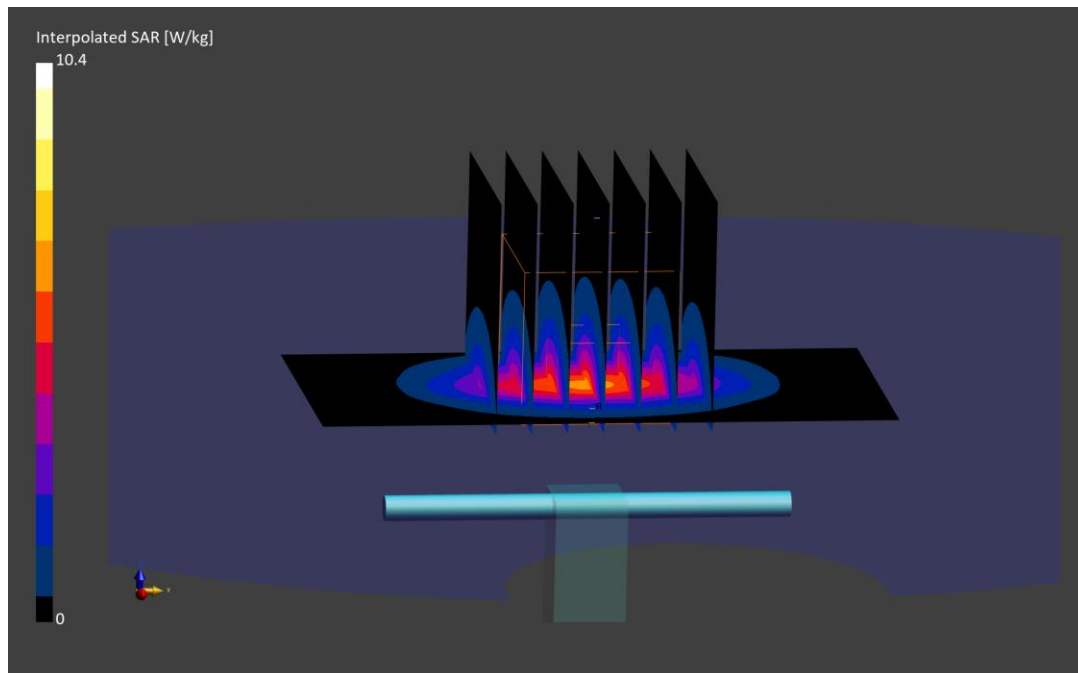
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 10.4 W/kg

SAR(1 g) = 4.94 W/kg

Deviation (1 g) = 0.61%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN750

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

Medium: 2450 Head; Medium parameters used:

$f = 2450.0$ MHz; $\text{cond} = 1.80$ S/m; $\text{perm} = 38.0$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/01/2024; Ambient Temp: 22.00°C; Tissue Temp: 23.5°C

Probe: EX3DV4 - SN7552; ConvF:(7.01,7.58,7.38); Calibrated: 2024-05-13

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

Electronics: DAE4 Sn1676; Calibrated: 2024-05-08

Phantom: Twin-SAM V8.0; Serial: 2058

Measurement SW: DASY Module SAR V16.4.0.5005

2450.0 MHz System Verification at 20.0 dBm (100 mW)

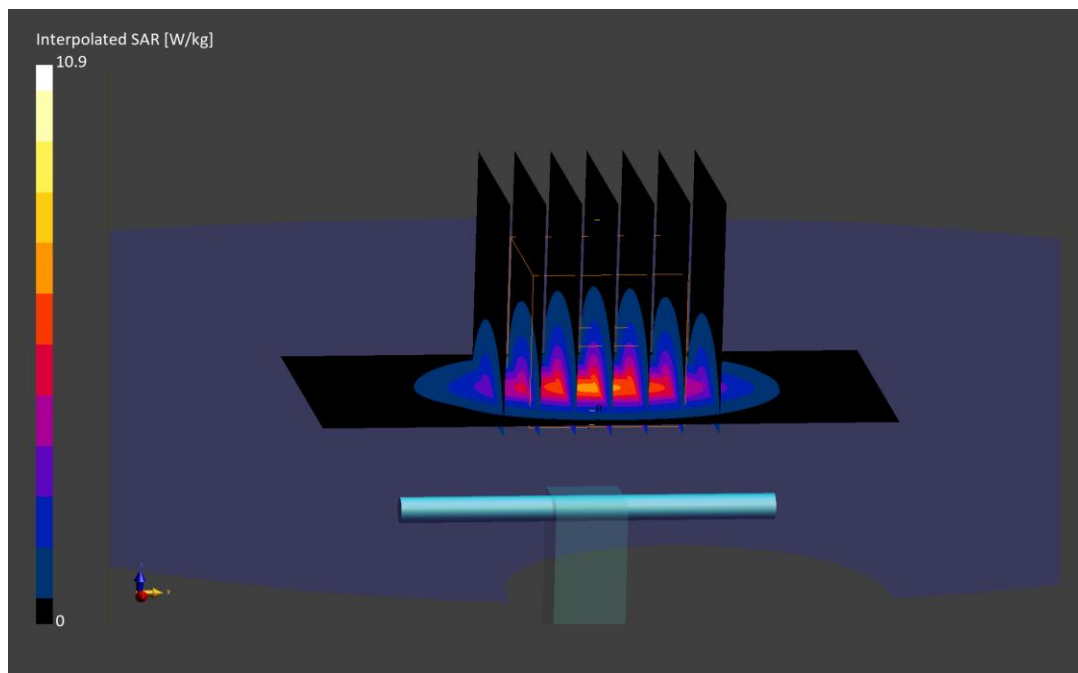
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 10.9 W/kg

SAR(1 g) = 5.09 W/kg

Deviation (1 g) = -3.23%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN750

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

Medium: 2450 Head; Medium parameters used:

$f = 2450.0$ MHz; $\text{cond} = 1.81$ S/m; $\text{perm} = 38.0$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/05/2024; Ambient Temp: 19.8°C; Tissue Temp: 19.2°C

Probe: EX3DV4 - SN7639; ConvF:(7.43,7.55,8.26); Calibrated: 2024-09-09

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

Electronics: DAE4 Sn1403; Calibrated: 2024-09-04

Phantom: Twin-SAM V8.0; Serial: 1357

Measurement SW: DASY Module SAR V16.4.0.5005

2450.0 MHz System Verification at 20.0 dBm (100 mW)

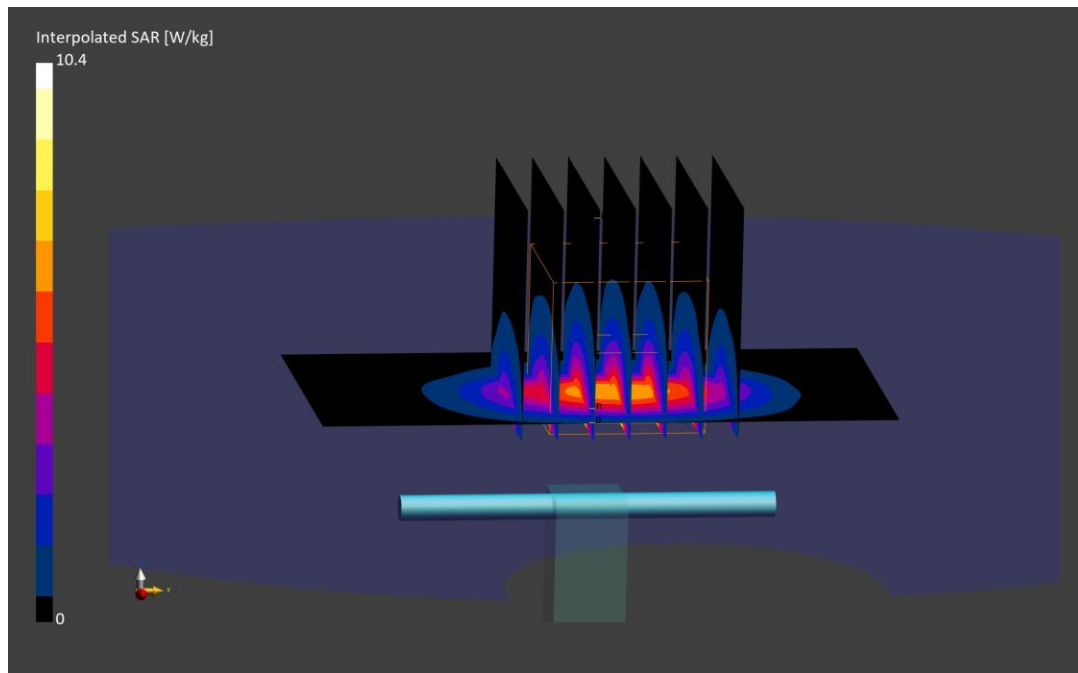
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 10.4 W/kg

SAR(1 g) = 5.21 W/kg

Deviation (1 g) = -0.95%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN921

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

Medium: 2450 Head; Medium parameters used:

f = 2450.0 MHz; cond = 1.81 S/m; perm = 38.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/13/2024; Ambient Temp: 20.3°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN7639; ConvF:(7.43,7.55,8.26); Calibrated: 2024-09-09

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

Electronics: DAE4 Sn1403; Calibrated: 2024-09-04

Phantom: Twin-SAM V8.0; Serial: 1357

Measurement SW: DASY Module SAR V16.4.0.5005

2450.0 MHz System Verification at 20.0 dBm (100 mW)

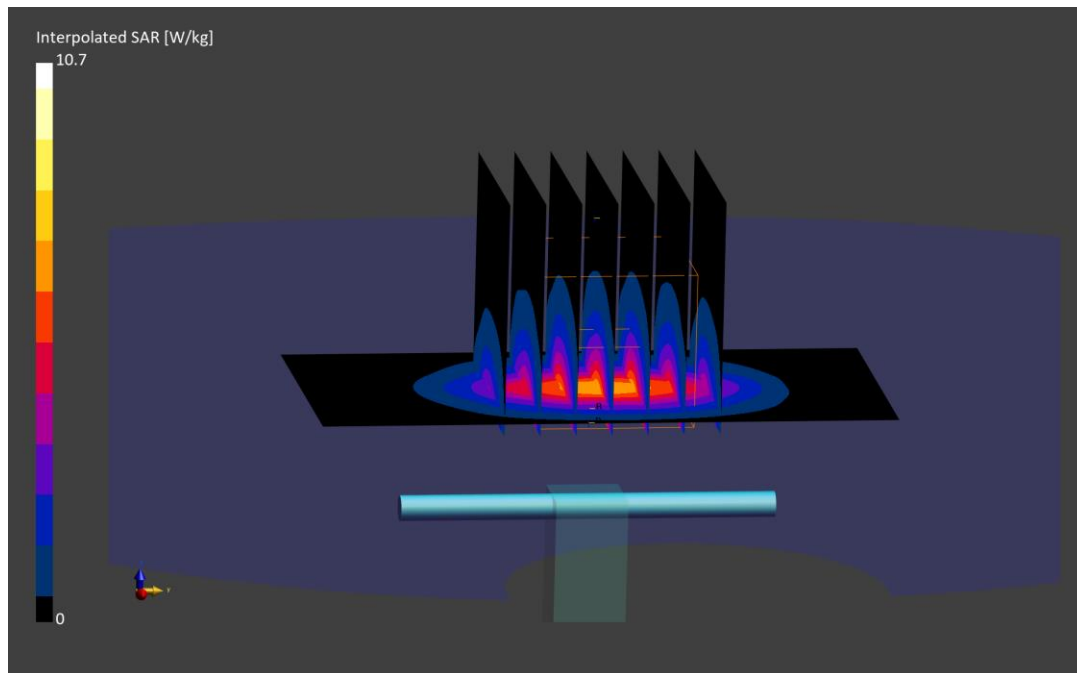
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 10.7 W/kg

SAR(1 g) = 5.42 W/kg

Deviation (1 g) = 3.83%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN750

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

Medium: 2450 Head; Medium parameters used:

$f = 2450.0$ MHz; $\text{cond} = 1.81$ S/m; $\text{perm} = 38.6$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/15/2024; Ambient Temp: 21.4°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7639; ConvF:(7.43,7.55,8.26); Calibrated: 2024-09-09

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

Electronics: DAE4 Sn1403; Calibrated: 2024-09-04

Phantom: Twin-SAM V8.0; Serial: 1357

Measurement SW: DASY Module SAR V16.4.0.5005

2450.0 MHz System Verification at 20.0 dBm (100 mW)

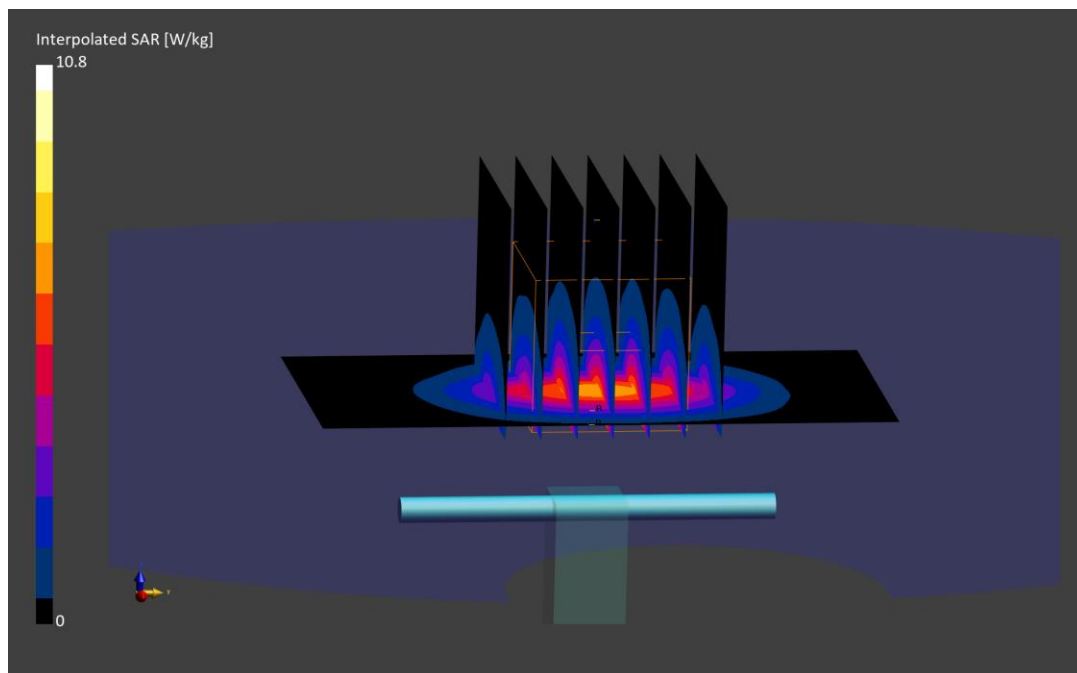
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 10.8 W/kg

SAR(1 g) = 5.35 W/kg

Deviation (1 g) = 1.71%



ELEMENT

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN750

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

Medium: 2450 Head; Medium parameters used:

$f = 2450.0$ MHz; $\text{cond} = 1.87$ S/m; $\text{perm} = 38.6$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/20/2024; Ambient Temp: 22.0°C; Tissue Temp: 22.9°C

Probe: EX3DV4 - SN7552; ConvF:(7.01,7.58,7.38); Calibrated: 2024-05-13

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

Electronics: DAE4 Sn1676; Calibrated: 2024-05-08

Phantom: Twin-SAM V8.0; Serial: 2058

Measurement SW: DASY Module SAR V16.4.0.5005

2450.0 MHz System Verification at 20.0 dBm (100 mW)

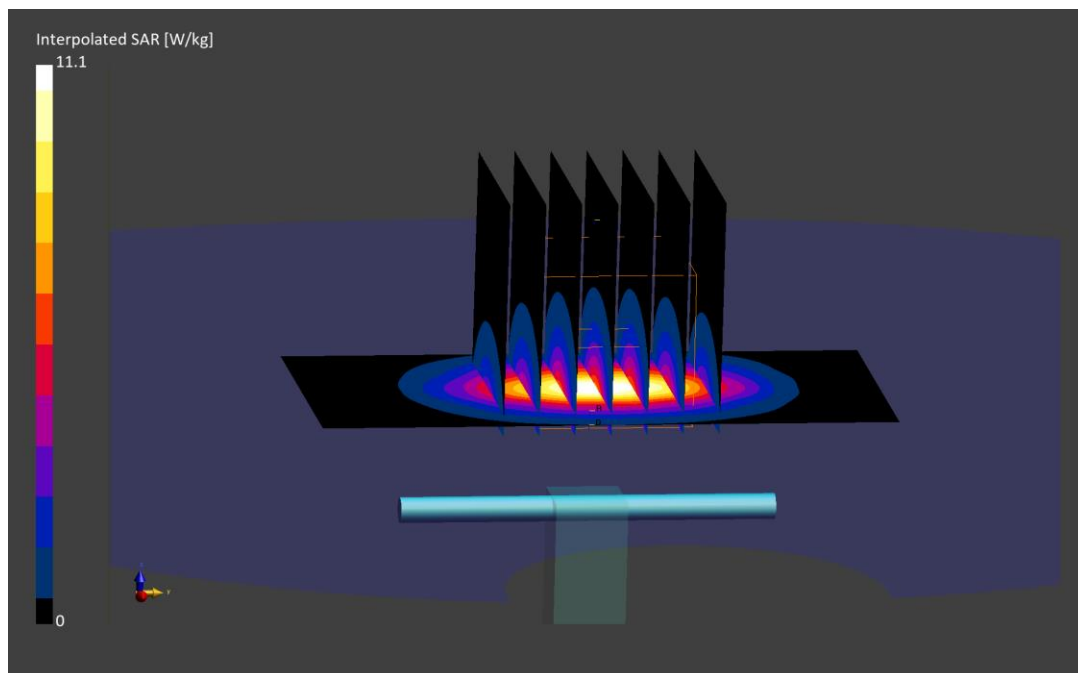
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 11.1 W/kg

SAR(1 g) = 5.15 W/kg

Deviation (1 g) = -2.09%



ELEMENT

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1042

Communication System: UID: 0, CW; Frequency: 2600.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2600.0$ MHz; $\text{cond} = 1.97$ S/m; $\text{perm} = 37.4$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/01/2024; Ambient Temp: 22.0°C; Tissue Temp: 23.5°C

Probe: EX3DV4 - SN7552; ConvF:(6.86,7.45,7.27); Calibrated: 2024-05-13

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

Electronics: DAE4 Sn1676; Calibrated: 2024-05-08

Phantom: Twin-SAM V8.0; Serial: 2058

Measurement SW: DASY Module SAR V16.4.0.5005

2600.0 MHz System Verification at 20.0 dBm (100 mW)

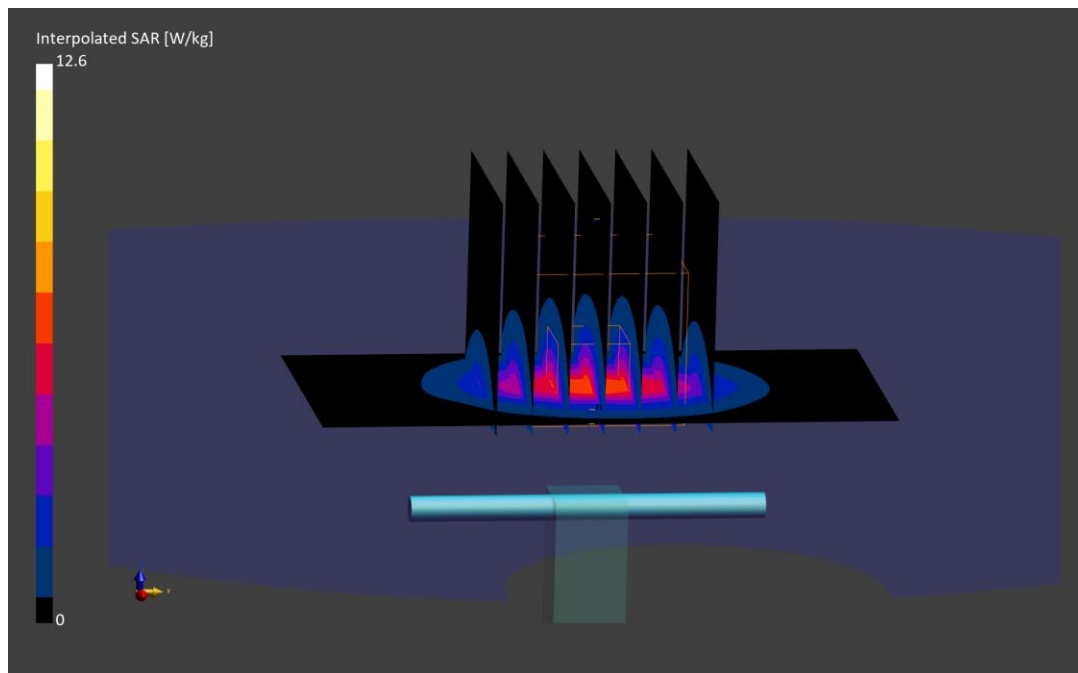
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 12.6 W/kg

SAR(1 g) = 5.56 W/kg

Deviation (1 g) = -0.36%



ELEMENT

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1042

Communication System: UID: 0, CW; Frequency: 2600.0 MHz

Medium: 2450 Head; Medium parameters used:

f = 2600.0 MHz; cond = 2.05 S/m; perm = 38.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/20/2024; Ambient Temp: 22.0°C; Tissue Temp: 22.9°C

Probe: EX3DV4 - SN7552; ConvF:(6.86,7.45,7.27); Calibrated: 2024-05-13

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

Electronics: DAE4 Sn1676; Calibrated: 2024-05-08

Phantom: Twin-SAM V8.0; Serial: 2058

Measurement SW: DASY Module SAR V16.4.0.5005

2600.0 MHz System Verification at 20.0 dBm (100 mW)

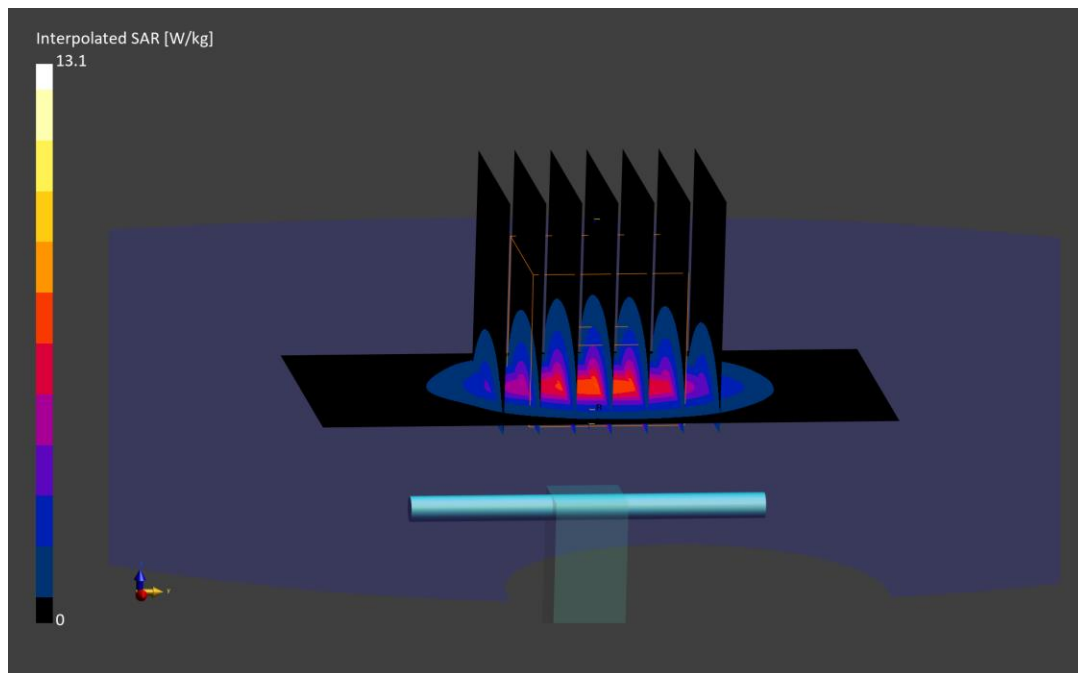
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 13.1 W/kg

SAR(1 g) = 5.76 W/kg

Deviation (1 g) = 3.23%



ELEMENT

DUT: Dipole 3500.0 MHz; Type: D3500V2 - SN1126

Communication System: UID: 0, CW; Frequency: 3500.0 MHz

Medium: 3600 Head; Medium parameters used:

f = 3500.0 MHz; cond = 2.81 S/m; perm = 38.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/06/2024; Ambient Temp: 23.5°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7357; ConvF:(7.28,6.37,7.82); Calibrated: 2024-04-16

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

Electronics: DAE4 Sn1582; Calibrated: 2024-04-09

Phantom: Twin-SAM V8.0; Serial: 2034

Measurement SW: DASY Module SAR V16.4.0.5005

3500.0 MHz System Verification at 20.0 dBm (100 mW)

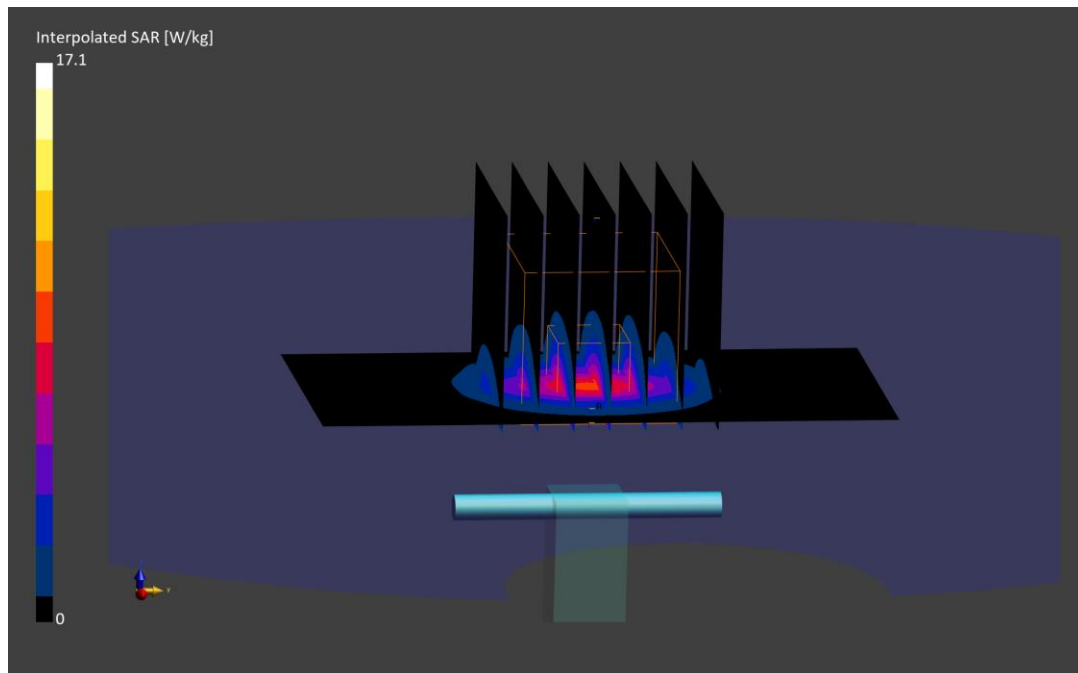
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 29.1): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 6.66 W/kg

Deviation (1 g) = 0.60%



ELEMENT

DUT: Dipole 3500.0 MHz; Type: D3500V2 - SN1126

Communication System: UID: 0, CW; Frequency: 3500.0 MHz

Medium: 3600 Head; Medium parameters used:

$f = 3500.0$ MHz; $\text{cond} = 2.85$ S/m; $\text{perm} = 37.0$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/06/2024; Ambient Temp: 23.4°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7668; ConvF:(6.14,6.41,6.15); Calibrated: 2024-09-04

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

Electronics: DAE4 Sn1681; Calibrated: 2024-08-08

Phantom: Twin-SAM V8.0; Serial: 1944

Measurement SW: DASY Module SAR V16.4.0.5005

3500.0 MHz System Verification at 20.0 dBm (100 mW)

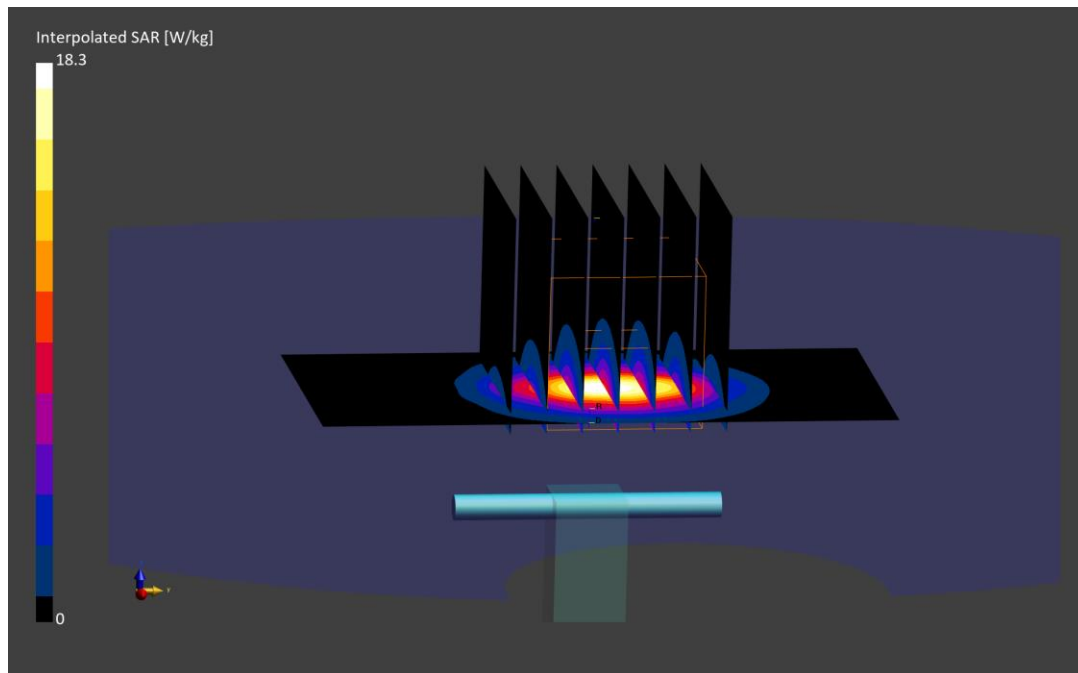
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 29.1): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 18.3 W/kg

SAR(1 g) = 6.97 W/kg

Deviation (1 g) = 5.29%



ELEMENT

DUT: Dipole 3500.0 MHz; Type: D3500V2 - SN1126

Communication System: UID: 0, CW; Frequency: 3500.0 MHz

Medium: 3600 Head; Medium parameters used:

f = 3500.0 MHz; cond = 2.88 S/m; perm = 36.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/09/2024; Ambient Temp: 23.3°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7668; ConvF:(6.14,6.41,6.15); Calibrated: 2024-09-04

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

Electronics: DAE4 Sn1681; Calibrated: 2024-08-08

Phantom: Twin-SAM V8.0; Serial: 1944

Measurement SW: DASY Module SAR V16.4.0.5005

3500.0 MHz System Verification at 20.0 dBm (100 mW)

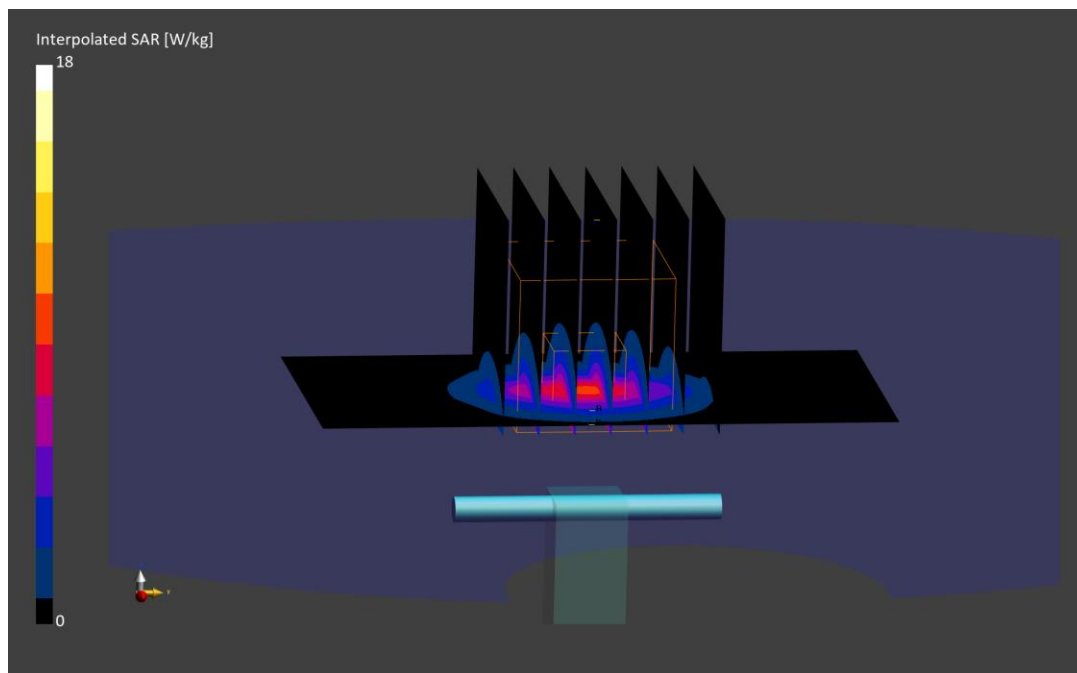
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 29.1): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 6.84 W/kg

Deviation (1 g) = 3.32%



ELEMENT

DUT: Dipole 3500.0 MHz; Type: D3500V2 - SN1126

Communication System: UID: 0, CW; Frequency: 3500.0 MHz

Medium: 3600 Head; Medium parameters used:

f = 3500.0 MHz; cond = 2.81 S/m; perm = 38.1; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/24/2024; Ambient Temp: 21.0°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7357; ConvF:(7.28,6.37,7.82); Calibrated: 2024-04-16

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

Electronics: DAE4 Sn1582; Calibrated: 2024-04-09

Phantom: Twin-SAM V8.0; Serial: 2034

Measurement SW: DASY Module SAR V16.4.0.5005

3500.0 MHz System Verification at 20.0 dBm (100 mW)

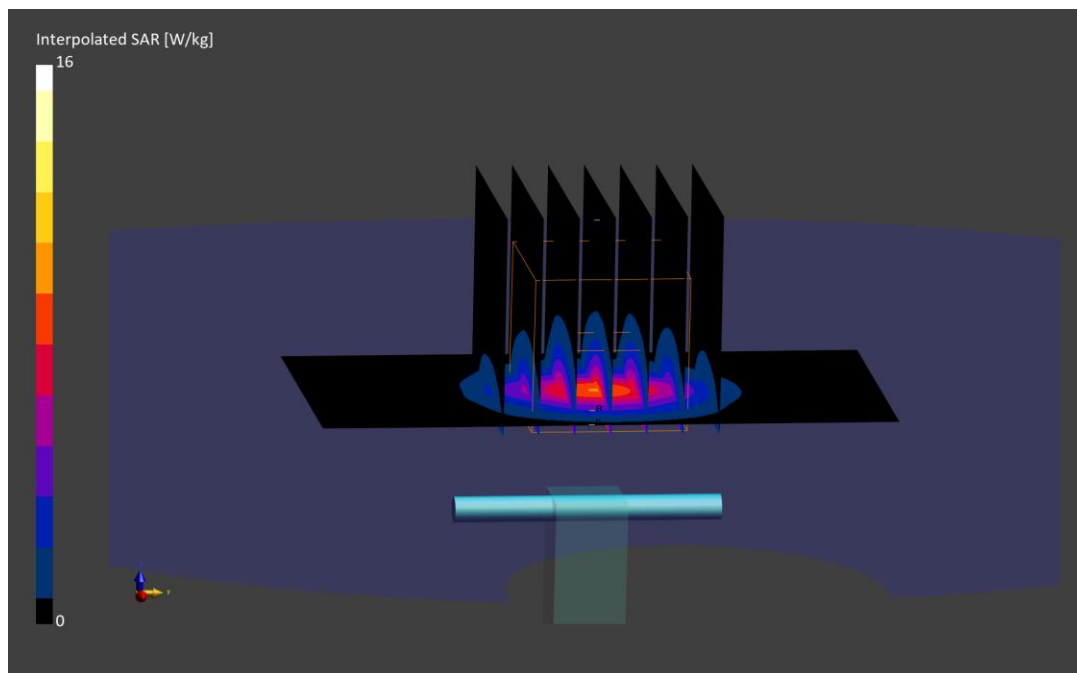
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 29.1): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 16.0 W/kg

SAR(1 g) = 6.67 W/kg

Deviation (1 g) = 0.76%



ELEMENT

DUT: Dipole 3700.0 MHz; Type: D3700V2 - SN1097

Communication System: UID: 0, CW; Frequency: 3700.0 MHz

Medium: 3600 Head; Medium parameters used:

f = 3700.0 MHz; cond = 3.00 S/m; perm = 37.8; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/06/2024; Ambient Temp: 23.5°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7357; ConvF:(7.21,6.3,7.75); Calibrated: 2024-04-16

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

Electronics: DAE4 Sn1582; Calibrated: 2024-04-09

Phantom: Twin-SAM V8.0; Serial: 2034

Measurement SW: DASY Module SAR V16.4.0.5005

3700.0 MHz System Verification at 20.0 dBm (100 mW)

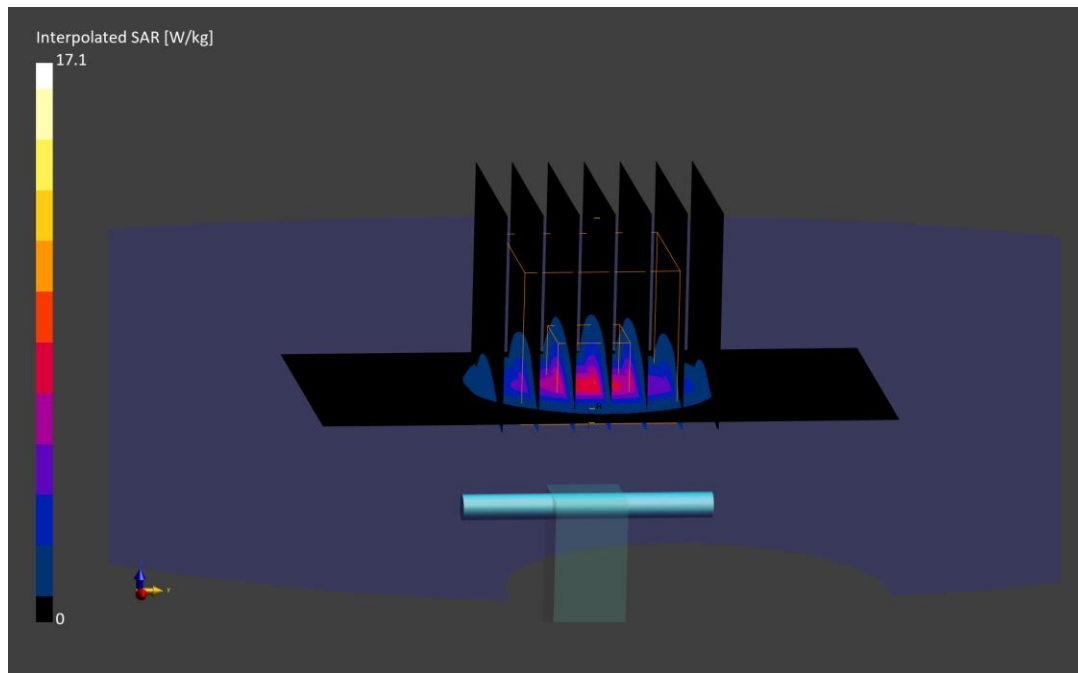
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 29.1): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 6.30 W/kg

Deviation (1 g) = -7.22%



ELEMENT

DUT: Dipole 3700.0 MHz; Type: D3700V2 - SN1097

Communication System: UID: 0, CW; Frequency: 3700.0 MHz

Medium: 3600 Head; Medium parameters used:

f = 3700.0 MHz; cond = 3.03 S/m; perm = 36.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/06/2024; Ambient Temp: 23.4°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7668; ConvF:(6.06,6.33,6.07); Calibrated: 2024-09-04

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

Electronics: DAE4 Sn1681; Calibrated: 2024-08-08

Phantom: Twin-SAM V8.0; Serial: 1944

Measurement SW: DASY Module SAR V16.4.0.5005

3700.0 MHz System Verification at 20.0 dBm (100 mW)

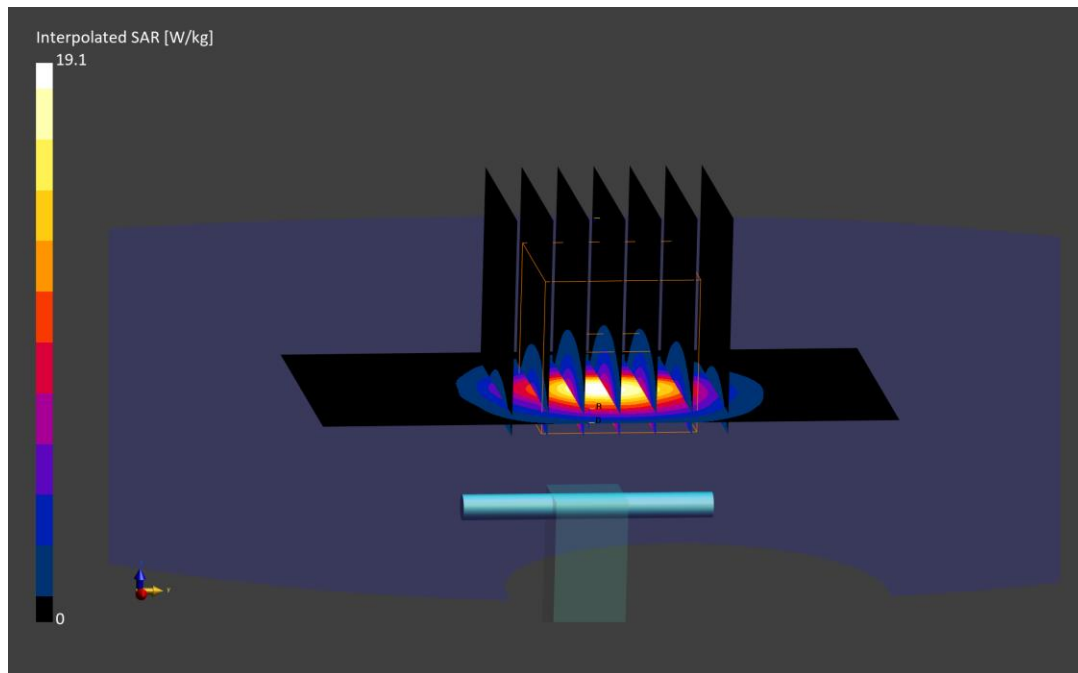
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 29.1): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 19.1 W/kg

SAR(1 g) = 7.00 W/kg

Deviation (1 g) = 3.09%



ELEMENT

DUT: Dipole 3700.0 MHz; Type: D3700V2 - SN1097

Communication System: UID: 0, CW; Frequency: 3700.0 MHz

Medium: 3600 Head; Medium parameters used:

f = 3700.0 MHz; cond = 3.05 S/m; perm = 36.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/09/2024; Ambient Temp: 23.3°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7668; ConvF:(6.06,6.33,6.07); Calibrated: 2024-09-04

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

Electronics: DAE4 Sn1681; Calibrated: 2024-08-08

Phantom: Twin-SAM V8.0; Serial: 1944

Measurement SW: DASY Module SAR V16.4.0.5005

3700.0 MHz System Verification at 20.0 dBm (100 mW)

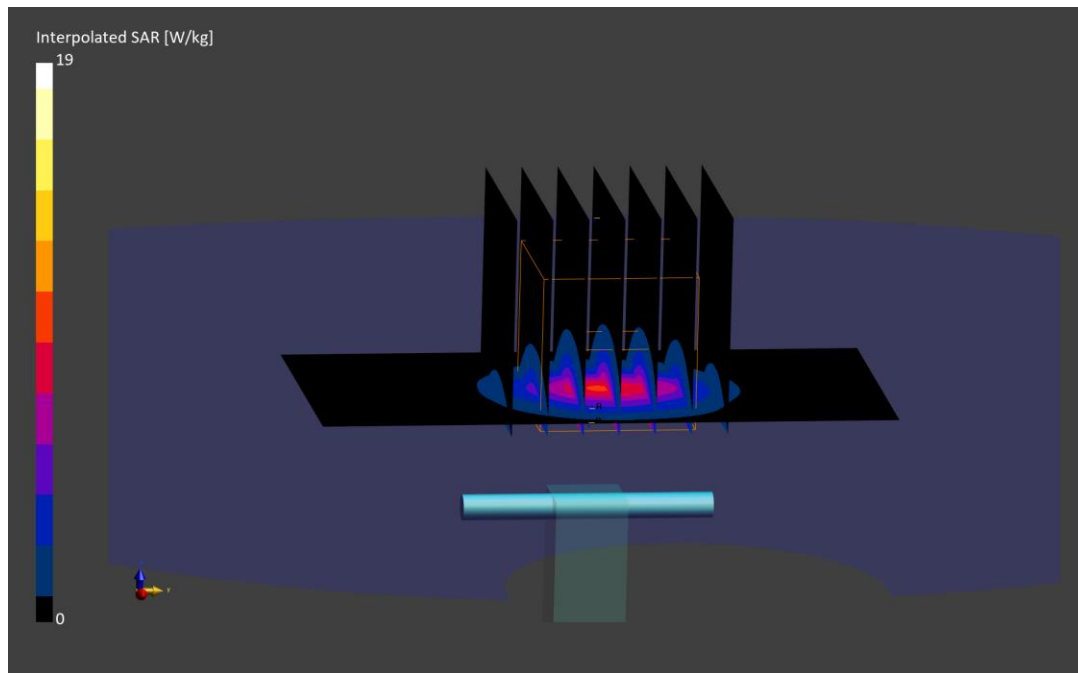
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 29.1): 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) = 6.97 W/kg

Deviation (1 g) = 2.65%



ELEMENT

DUT: Dipole 3700.0 MHz; Type: D3700V2 - SN1097

Communication System: UID: 0, CW; Frequency: 3700.0 MHz

Medium: 3600 Head; Medium parameters used:

$f = 3700.0$ MHz; $\text{cond} = 3.01$ S/m; $\text{perm} = 37.7$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/24/2024; Ambient Temp: 21.0°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7357; ConvF:(7.21,6.3,7.75); Calibrated: 2024-04-16

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

Electronics: DAE4 Sn1582; Calibrated: 2024-04-09

Phantom: Twin-SAM V8.0; Serial: 2034

Measurement SW: DASY Module SAR V16.4.0.5005

3700.0 MHz System Verification at 20.0 dBm (100 mW)

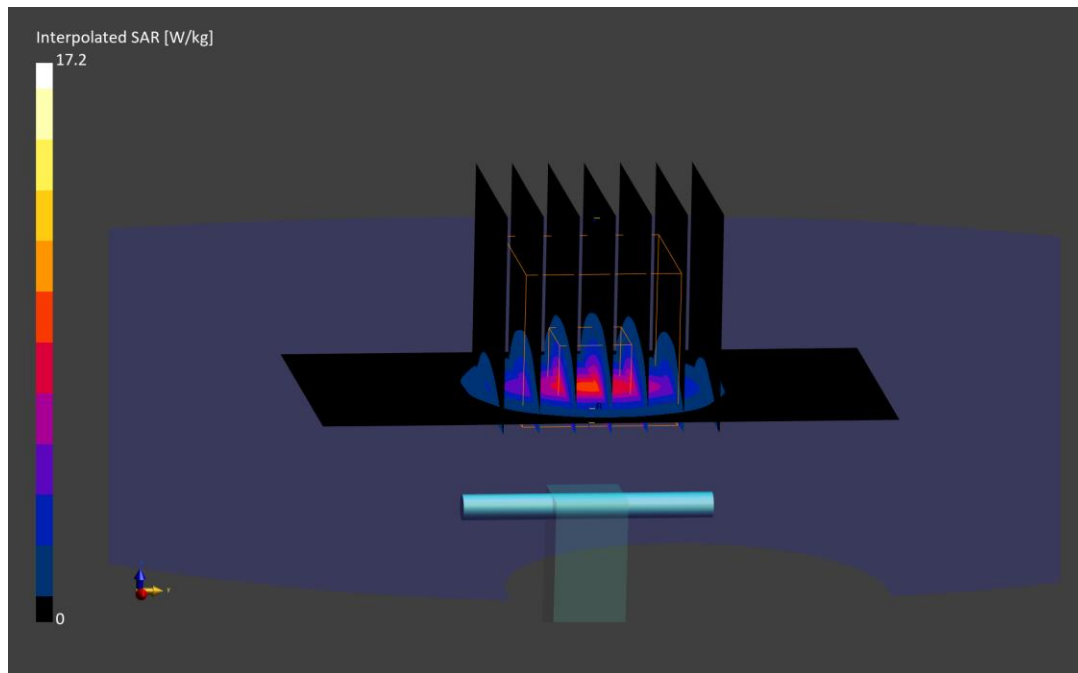
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 29.1): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 6.68 W/kg

Deviation (1 g) = -1.62%



ELEMENT

DUT: Dipole 3900.0 MHz; Type: D3900V2 - SN1056

Communication System: UID: 0, CW; Frequency: 3900.0 MHz

Medium: 3600 Head; Medium parameters used:

f = 3900.0 MHz; cond = 3.22 S/m; perm = 36.3; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/06/2024; Ambient Temp: 23.4°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7668; ConvF:(5.96,6.23,5.97); Calibrated: 2024-09-04

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

Electronics: DAE4 Sn1681; Calibrated: 2024-08-08

Phantom: Twin-SAM V8.0; Serial: 1944

Measurement SW: DASY Module SAR V16.4.0.5005

3900.0 MHz System Verification at 20.0 dBm (100 mW)

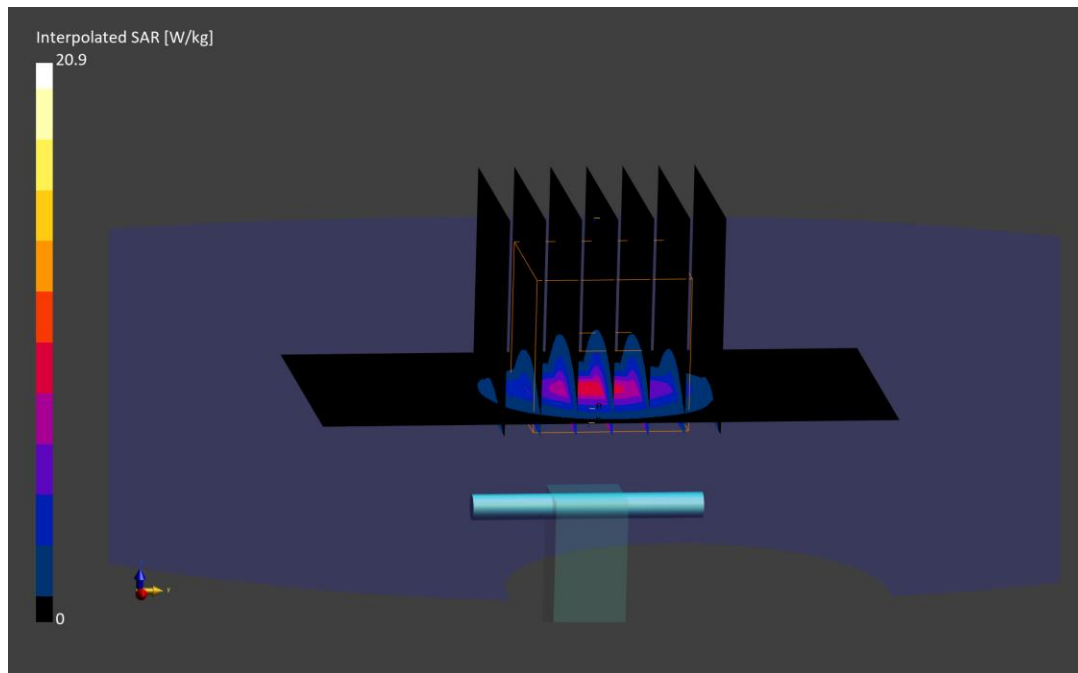
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 29.1): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 20.9 W/kg

SAR(1 g) = 7.23 W/kg

Deviation (1 g) = 6.01%



ELEMENT

DUT: Dipole 3900.0 MHz; Type: D3900V2 - SN1056

Communication System: UID: 0, CW; Frequency: 3900.0 MHz

Medium: 3600 Head; Medium parameters used:

f = 3900.0 MHz; cond = 3.24 S/m; perm = 36.3; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/09/2024; Ambient Temp: 23.3°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7668; ConvF:(5.96,6.23,5.97); Calibrated: 2024-09-04

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

Electronics: DAE4 Sn1681; Calibrated: 2024-08-08

Phantom: Twin-SAM V8.0; Serial: 1944

Measurement SW: DASY Module SAR V16.4.0.5005

3900.0 MHz System Verification at 20.0 dBm (100 mW)

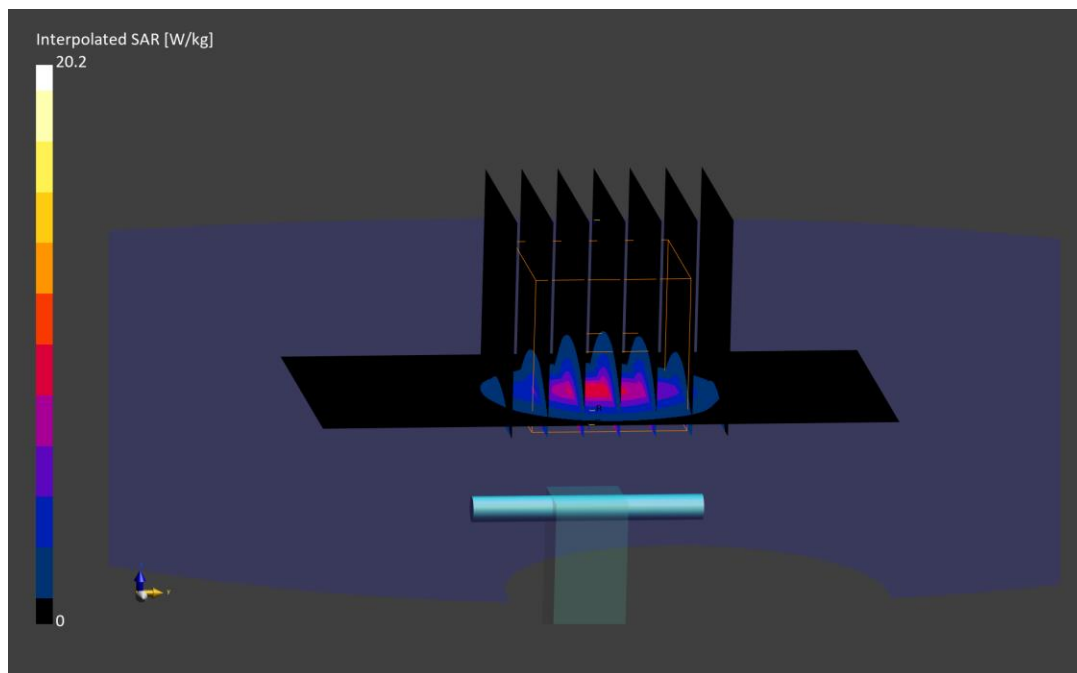
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 29.1): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 20.2 W/kg

SAR(1 g) = 6.99 W/kg

Deviation (1 g) = 2.49%



ELEMENT

DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1163

Communication System: UID: 0, CW; Frequency: 5250.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

f = 5250.0 MHz; cond = 4.55 S/m; perm = 34.8; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/07/2024; Ambient Temp: 22.8°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7782; ConvF:(5.91,5.17,5.06); Calibrated: 2024-09-12

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

Electronics: DAE4 Sn1646; Calibrated: 2024-09-03

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.4.0.5005

5250.0 MHz System Verification at 17.0 dBm (50 mW)

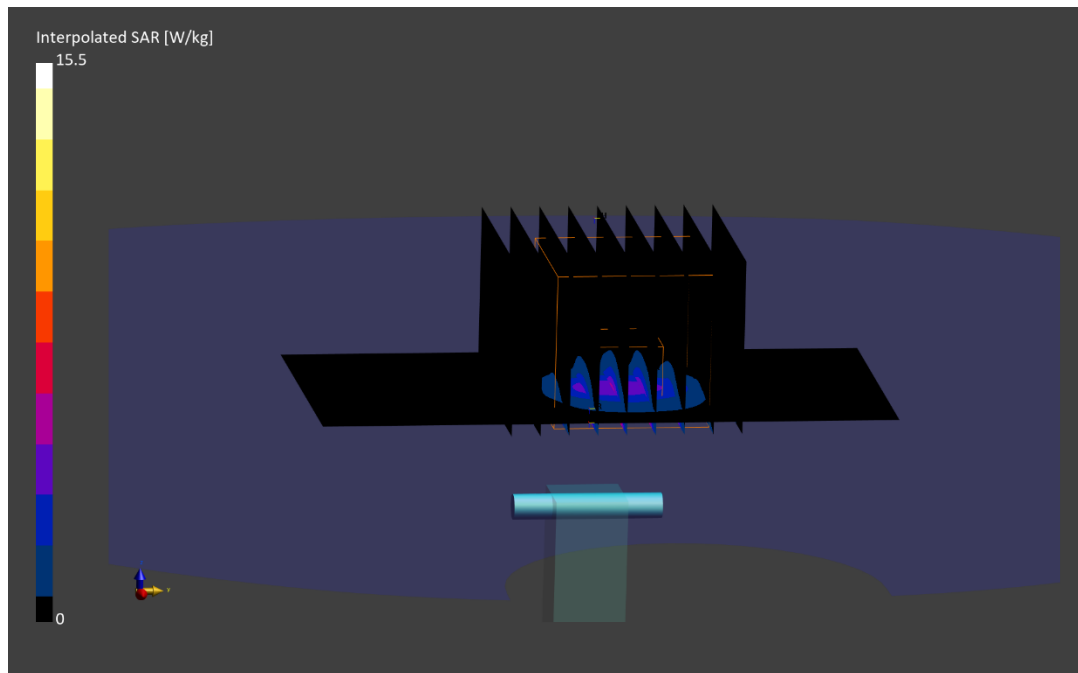
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (32.0 x 32.0 x 22.9): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 15.5 W/kg

SAR(1 g) = 3.86 W/kg

Deviation (1 g) = -3.02%



ELEMENT

DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1123

Communication System: UID: 0, CW; Frequency: 5250.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

f = 5250.0 MHz; cond = 4.72 S/m; perm = 34.7; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/14/2024; Ambient Temp: 21.1°C; Tissue Temp: 19.1°C

Probe: EX3DV4 - SN7427; ConvF:(4.73,5.26,5.35); Calibrated: 2024-02-09

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn467; Calibrated: 2024-02-09

Phantom: Twin-SAM V8.0; Serial: 2070

Measurement SW: DASY Module SAR V16.4.0.5005

5250.0 MHz System Verification at 17.0 dBm (50 mW)

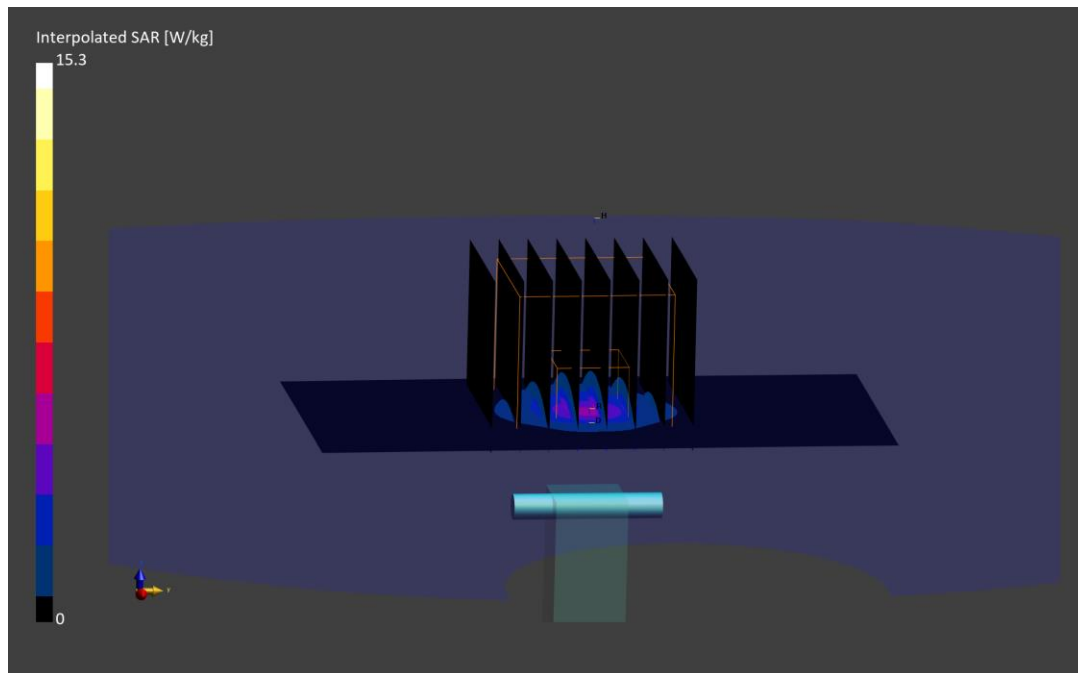
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (24.0 x 28.0 x 22.9): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 15.3 W/kg

SAR(1 g) = 3.81 W/kg

Deviation (1 g) = -4.03%



ELEMENT

DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1163

Communication System: UID: 0, CW; Frequency: 5600.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

f = 5600.0 MHz; cond = 4.94 S/m; perm = 34.1; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/07/2024; Ambient Temp: 22.8°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7782; ConvF:(5.12,4.48,4.38); Calibrated: 2024-09-12

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

Electronics: DAE4 Sn1646; Calibrated: 2024-09-03

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.4.0.5005

5600.0 MHz System Verification at 17.0 dBm (50 mW)

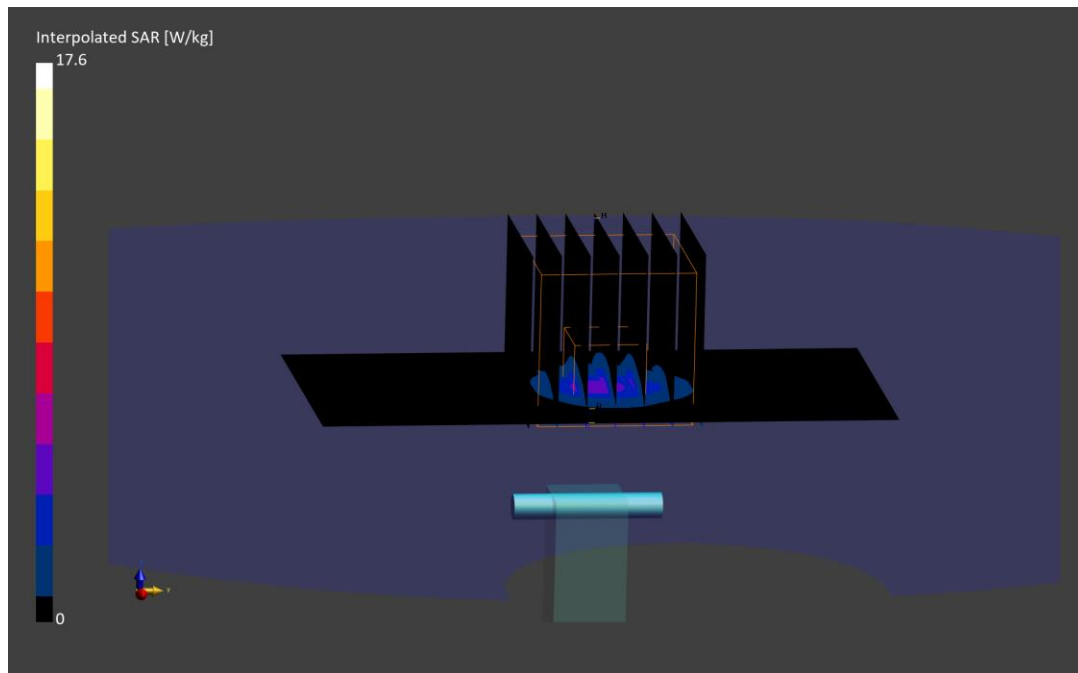
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (24.0 x 24.0 x 22.9): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 4.05 W/kg

Deviation (1 g) = -2.17%



ELEMENT

DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1123

Communication System: UID: 0, CW; Frequency: 5600.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

f = 5600.0 MHz; cond = 5.11 S/m; perm = 34.1; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/14/2024; Ambient Temp: 21.1°C; Tissue Temp: 19.1°C

Probe: EX3DV4 - SN7427; ConvF:(4.18,4.62,4.72); Calibrated: 2024-02-09

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn467; Calibrated: 2024-02-09

Phantom: Twin-SAM V8.0; Serial: 2070

Measurement SW: DASY Module SAR V16.4.0.5005

5600.0 MHz System Verification at 17.0 dBm (50 mW)

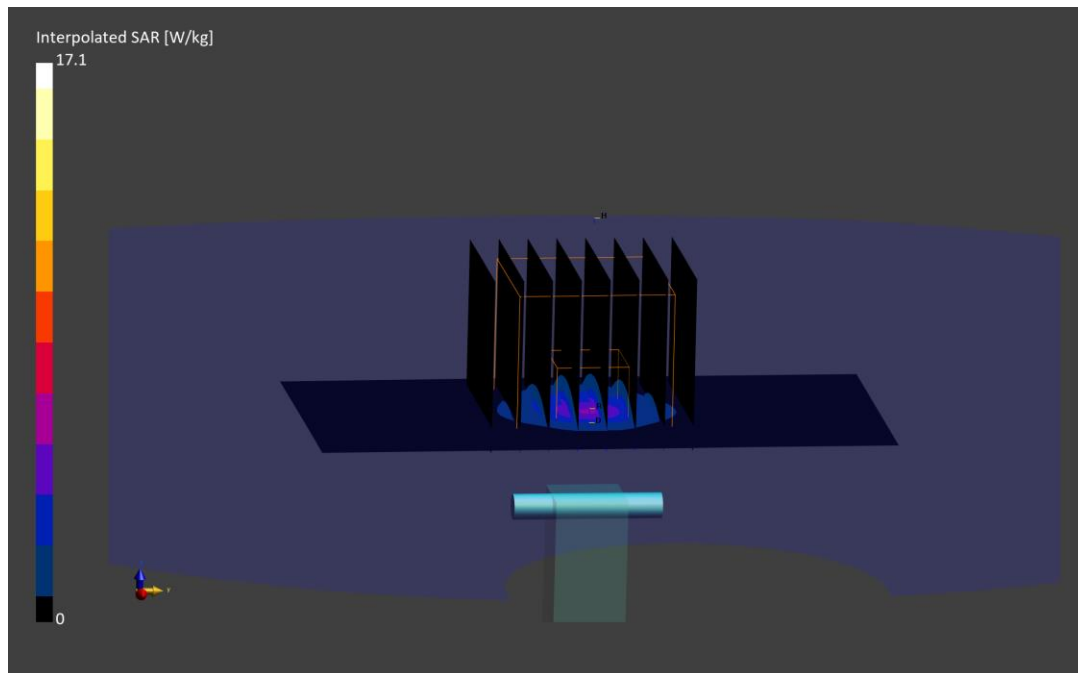
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (24.0 x 28.0 x 22.9): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 4.03 W/kg

Deviation (1 g) = -2.30%



ELEMENT

DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1163

Communication System: UID: 0, CW; Frequency: 5750.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

f = 5750.0 MHz; cond = 5.11 S/m; perm = 33.8; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/07/2024; Ambient Temp: 22.8°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7782; ConvF:(5.28,4.62,4.52); Calibrated: 2024-09-12

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

Electronics: DAE4 Sn1646; Calibrated: 2024-09-03

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.4.0.5005

5750.0 MHz System Verification at 17.0 dBm (50 mW)

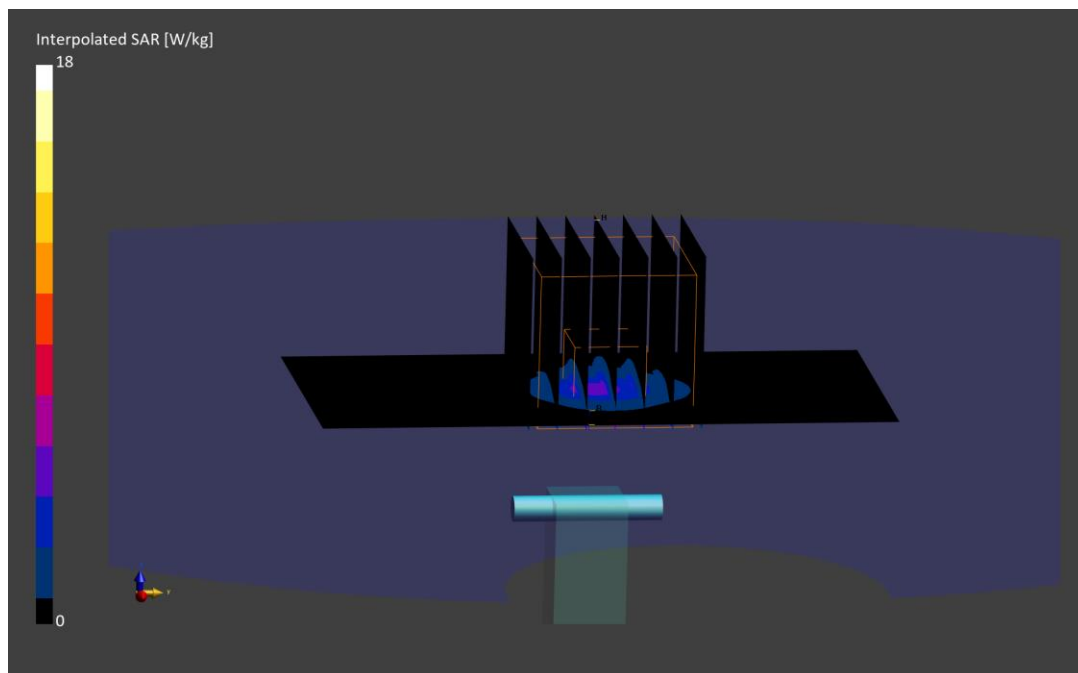
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (24.0 x 24.0 x 22.9): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 4.01 W/kg

Deviation (1 g) = -1.11%



ELEMENT

DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1123

Communication System: UID: 0, CW; Frequency: 5750.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

f = 5750.0 MHz; cond = 5.27 S/m; perm = 33.8; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/14/2024; Ambient Temp: 21.1°C; Tissue Temp: 19.1°C

Probe: EX3DV4 - SN7427; ConvF:(4.35,4.78,4.93); Calibrated: 2024-02-09

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn467; Calibrated: 2024-02-09

Phantom: Twin-SAM V8.0; Serial: 2070

Measurement SW: DASY Module SAR V16.4.0.5005

5750.0 MHz System Verification at 17.0 dBm (50 mW)

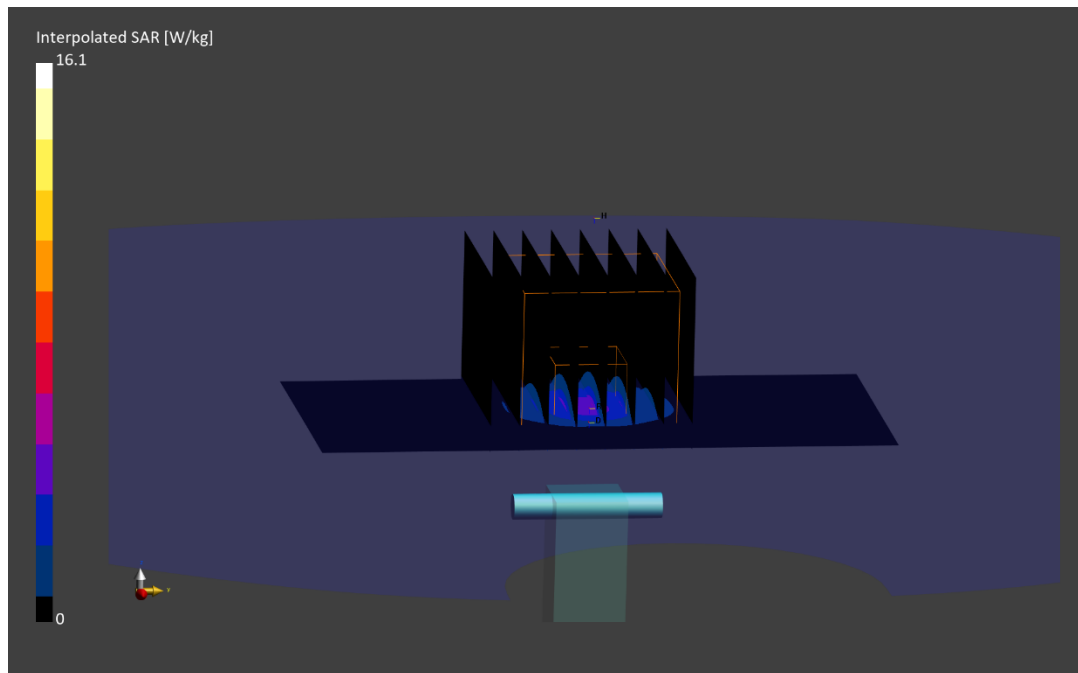
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (28.0 x 28.0 x 22.9): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.1 W/kg

SAR(1 g) = 3.69 W/kg

Deviation (1 g) = -7.05%



ELEMENT

DUT: Dipole 5850.0 MHz; Type: D5GHzV2 - SN1163

Communication System: UID: 0, CW; Frequency: 5850.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

f = 5850.0 MHz; cond = 5.21 S/m; perm = 33.7; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/07/2024; Ambient Temp: 22.8°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7782; ConvF:(5.08,4.44,4.35); Calibrated: 2024-09-12

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

Electronics: DAE4 Sn1646; Calibrated: 2024-09-03

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.4.0.5005

5850.0 MHz System Verification at 17.0 dBm (50 mW)

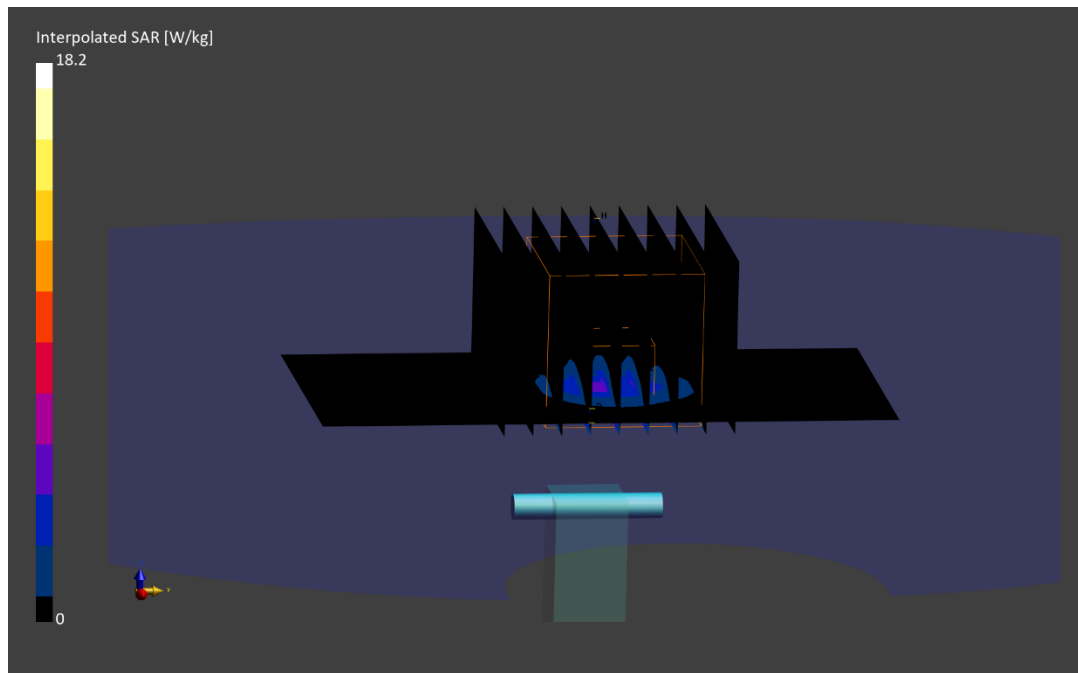
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (32.0 x 32.0 x 22.9): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 18.2 W/kg

SAR(1 g) = 3.98 W/kg

Deviation (1 g) = 0.76%



ELEMENT

DUT: Dipole 5850.0 MHz; Type: D5GHzV2 - SN1123

Communication System: UID: 0, CW; Frequency: 5850.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

f = 5850.0 MHz; cond = 5.38 S/m; perm = 33.7; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 11/14/2024; Ambient Temp: 21.1°C; Tissue Temp: 19.1°C

Probe: EX3DV4 - SN7427; ConvF:(4.04,4.57,4.63); Calibrated: 2024-02-09

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn467; Calibrated: 2024-02-09

Phantom: Twin-SAM V8.0; Serial: 2070

Measurement SW: DASY Module SAR V16.4.0.5005

5850.0 MHz System Verification at 17.0 dBm (50 mW)

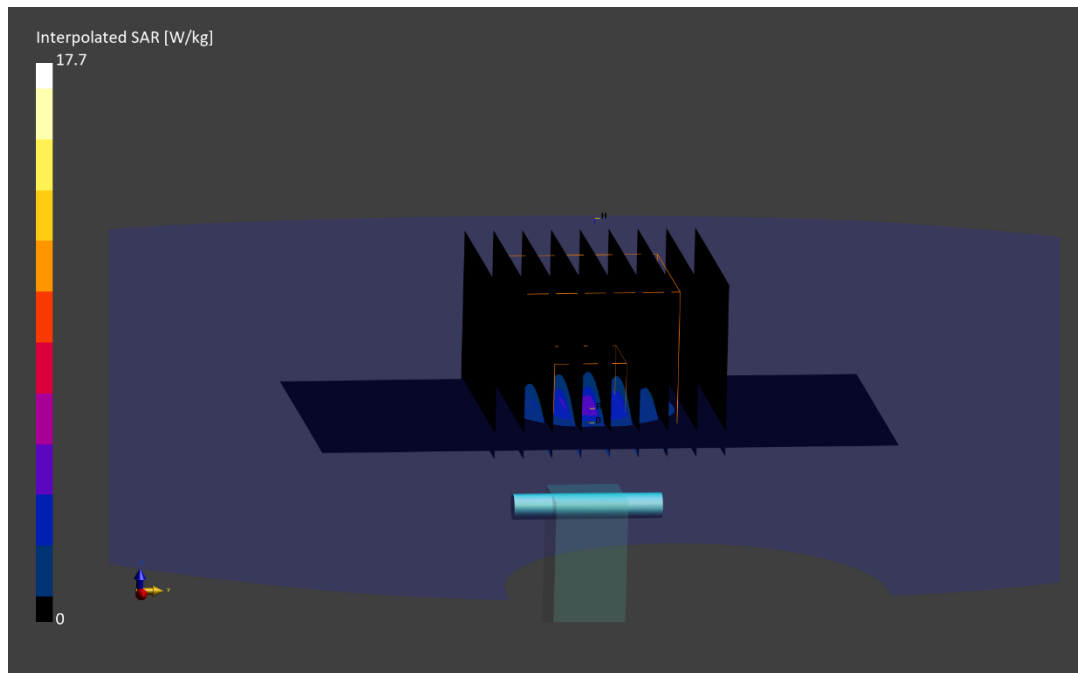
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (32.0 x 32.0 x 22.9): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 4.05 W/kg

Deviation (1 g) = 1.12%



ELEMENT

DUT: Dipole 6500.0 MHz; Type: D6.5GHzV2 - SN1019

Communication System: UID: 0, CW; Frequency: 6500.0 MHz

Medium: 6000 Head; Medium parameters used:

f = 6500.0 MHz; cond = 5.87 S/m; perm = 33.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 5 mm

Test Date: 11/01/2024; Ambient Temp: 21.2°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN3949; ConvF:(5.23,5.7,5.57); Calibrated: 2024-09-09

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

Electronics: DAE4 Sn1684; Calibrated: 2024-09-04

Phantom: Twin-SAM V4.0; Serial: 1275

Measurement SW: DASY Module SAR V16.4.0.5005

6500.0 MHz System Verification at 14.0 dBm (25 mW)

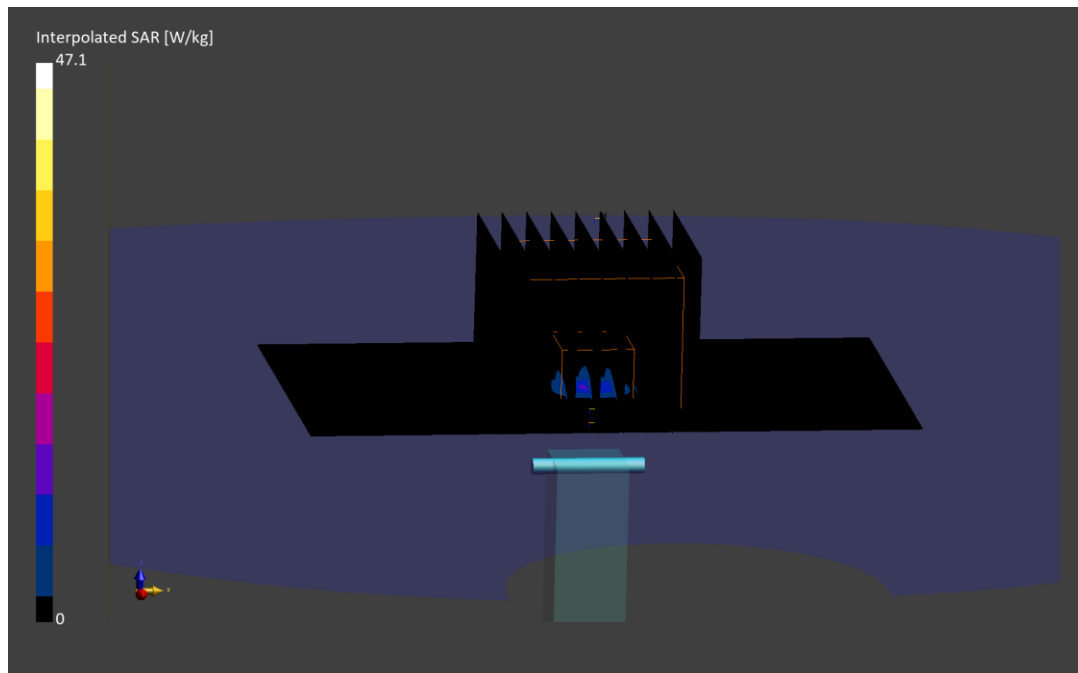
Area Scan (51.0 x 85.0): Measurement grid: dx=8.5 mm, dy=8.5 mm

Zoom Scan (27.2 x 27.2 x 22.9): Measurement grid: dx=3.4 mm, dy=3.4 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 47.1 W/kg

SAR(1 g) = 7.81 W/kg; APD (4cm²) = 35.1 W/m²

Deviation (1 g) = 4.13%; Deviation (4 cm²) = 6.36%



Date: 11/07/2024

10 GHz System Verification

Device Under Test Properties

DUT	Serial Number
10 GHz Verification Source	1004

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 – SN9487, 04/08/2024	DAE4 – SN1333, 10/09/2024

Software Setup

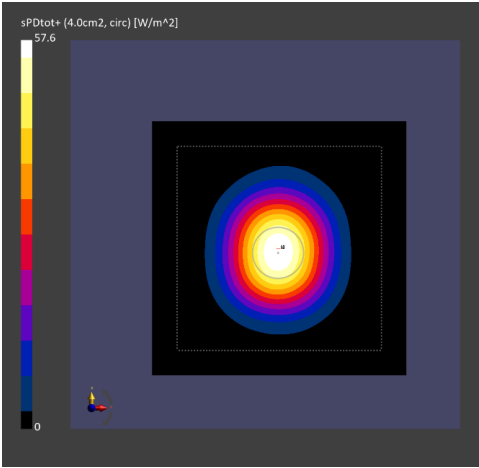
Software	Software Version
cDASY6 Module mmWave	3.2.0.1840

Scans Setup

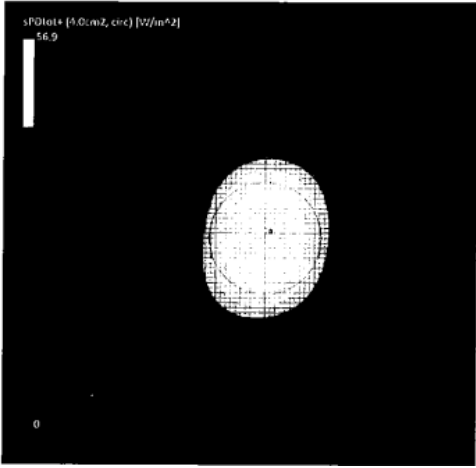
Scan Type	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm²]	4.00
pS _{tot} avg [W/m²]	57.6
pS _n avg [W/m²]	57.4
E _{peak} [V/m]	155
Deviation [dB] pS _{tot}	0.05
Deviation [dB] pS _n	0.05



10 GHz System Verification



Calibration Certificate