

APPENDIX B: SAR DIPOLE VERIFICATION PLOTS

ELEMENT

DUT: Dipole 13.000 MHz; Type: CLA-13 - SN1002

Communication System: UID: 0, CW; Frequency: 13.000 MHz

Medium: 13 Head; Medium parameters used:

$f = 13.000$ MHz; $\text{cond} = 0.746$ S/m; $\text{perm} = 52.7$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0 mm

Test Date: 11/25/2024; Ambient Temp: 24.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7713; ConvF:(16.75,16.75,16.75); Calibrated: 2024-01-17

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

Electronics: DAE4 Sn1530; Calibrated: 2024-01-16

Phantom: ELI V8.0 ; Serial: 2077

Measurement SW: DASY Module SAR V16.4.0.5005

13.0 MHz System Verification at 30.0 dBm (1000 mW)

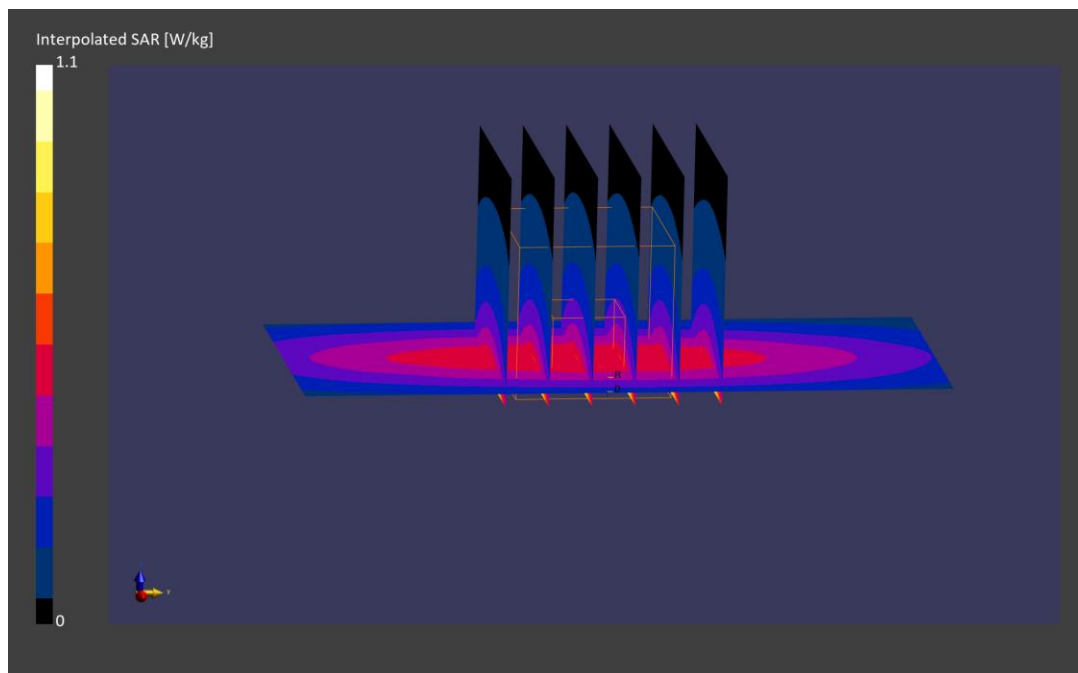
Area Scan (40.0 x 90.0): Measurement grid: $dx=10.0$ mm, $dy=15.0$ mm

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) = 1.10 W/kg

SAR(1 g) = 0.506 W/kg; SAR(10 g) = 0.312 W/kg

Deviation (1 g) = -2.69%; Deviation (10 g) = -4.00%



ELEMENT

DUT: Dipole 750.000 MHz; Type: D750V3 - SN1046

Communication System: UID: 0, CW; Frequency: 750.000 MHz
Medium: 750 Head; Medium parameters used:
f = 750.000 MHz; cond = 0.870 S/m; perm = 42.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 11/20/2024; Ambient Temp: 22.2°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7558; ConvF:(9.99,9.46,9.96); Calibrated: 2024-09-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1364; Calibrated: 2024-09-10
Phantom: Twin-SAM V8.0; Serial: 1934
Measurement SW: DASY Module SAR V16.4.0.5005

750.0 MHz System Verification at 23.0 dBm (200 mW)

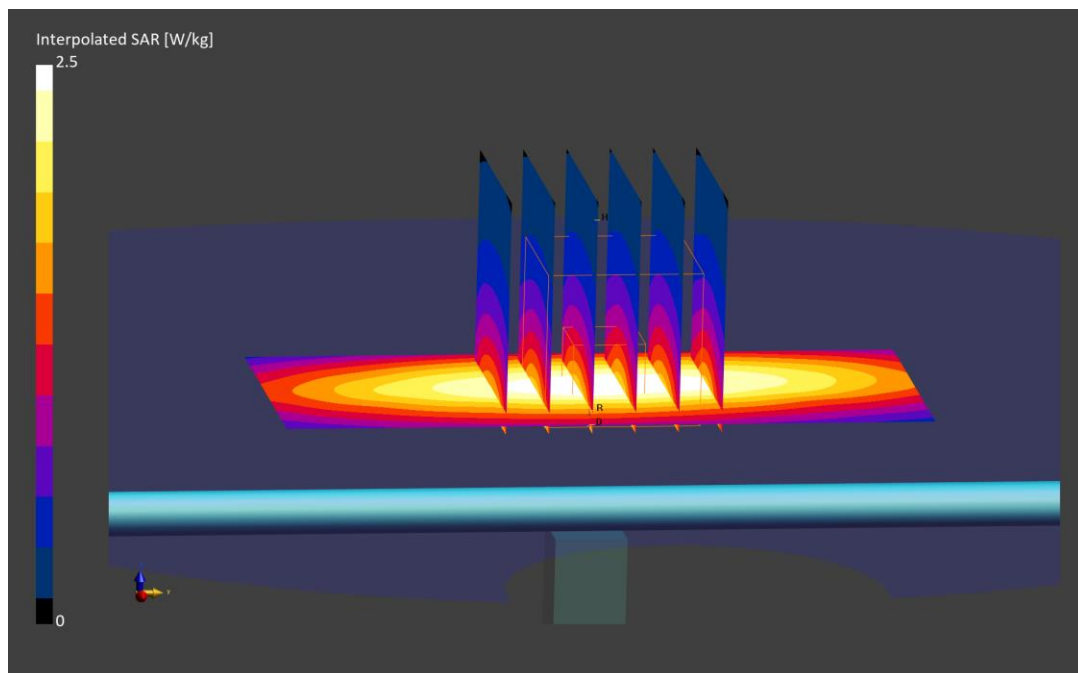
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 2.50 W/kg

SAR(1 g) = 1.62 W/kg; SAR(10 g) = 1.07 W/kg

Deviation (1 g) = -7.43%; Deviation (10 g) = -5.98%



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 = 0.902 S/m; perm = 42.7; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 11/06/2024; Ambient Temp: 21.4°C; Tissue Temp: 20.4°C

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

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

Electronics: DAE4 Sn1502; Calibrated: 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)

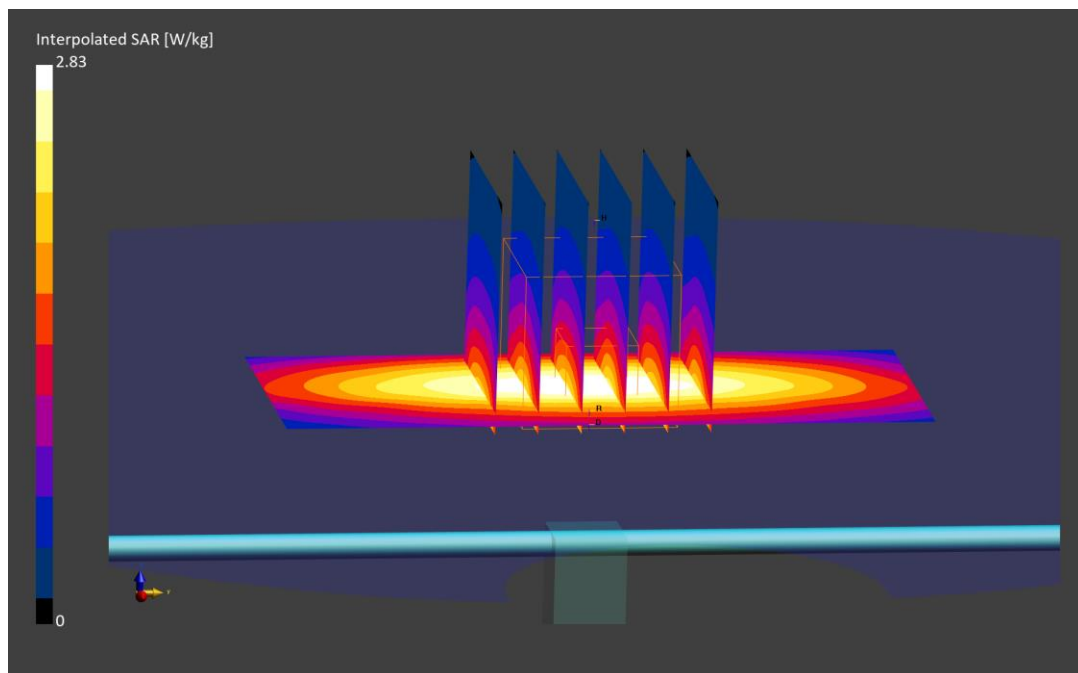
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 2.83 W/kg

SAR(1 g) = 1.92 W/kg; SAR(10 g) = 1.26 W/kg

Deviation (1 g) = -3.61%; Deviation (10 g) = -2.78%



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 = 0.900 S/m; perm = 42.8; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 11/11/2024; Ambient Temp: 22.7°C; Tissue Temp: 19.9°C

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

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

Electronics: DAE4 Sn1502; Calibrated: 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)

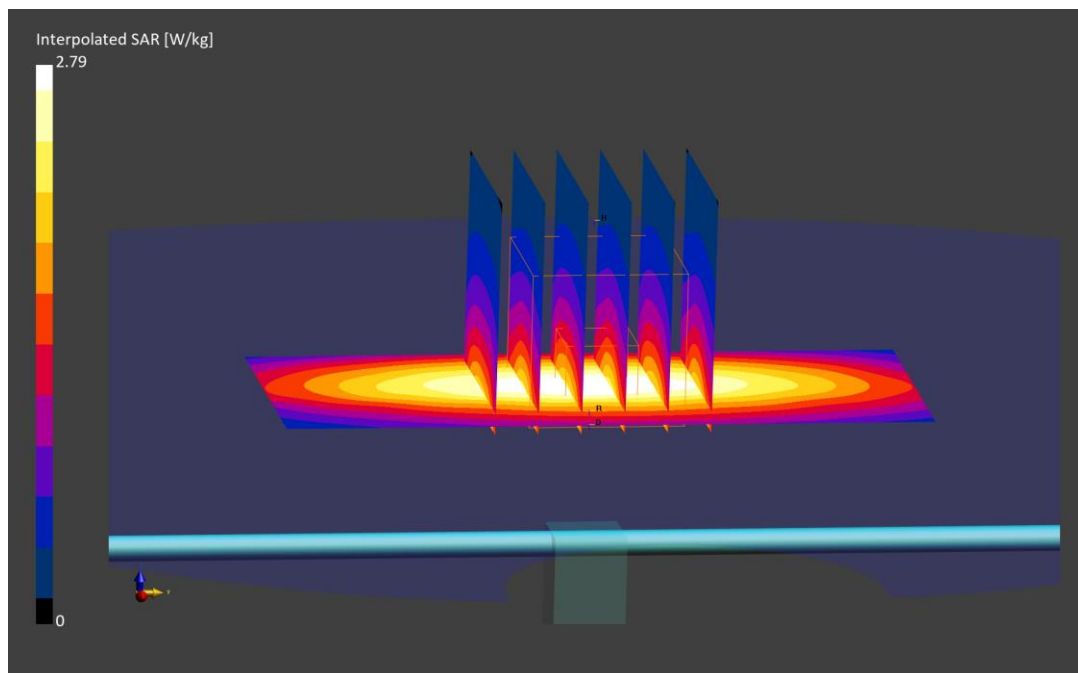
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 2.79 W/kg

SAR(1 g) = 1.90 W/kg; SAR(10 g) = 1.25 W/kg

Deviation (1 g) = -4.62%; Deviation (10 g) = -3.55%



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 = 41.5; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 11/13/2024; Ambient Temp: 22.5°C; Tissue Temp: 21.8°C

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

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

Electronics: DAE4 Sn1502; Calibrated: 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)

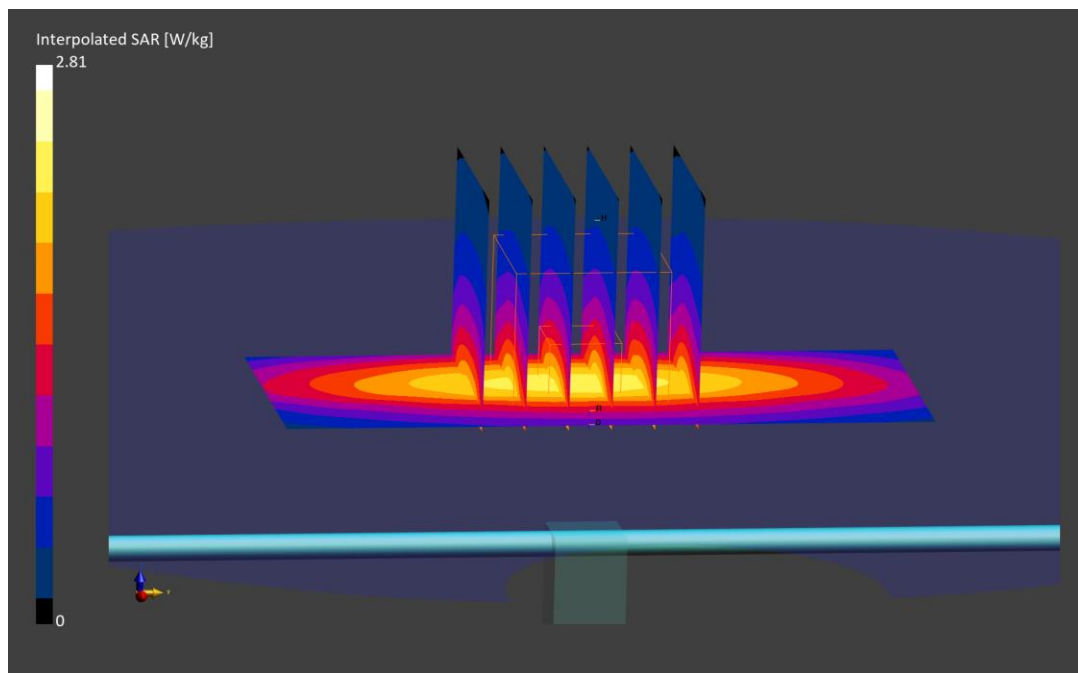
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 2.81 W/kg

SAR(1 g) = 1.91 W/kg; SAR(10 g) = 1.25 W/kg

Deviation (1 g) = -4.12%; Deviation (10 g) = -3.55%



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 = 0.940 S/m; perm = 40.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 11/18/2024; Ambient Temp: 21.7°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7558; ConvF:(9.68,9.17,9.65); Calibrated: 2024-09-11

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

Electronics: DAE4 Sn1364; Calibrated: 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)

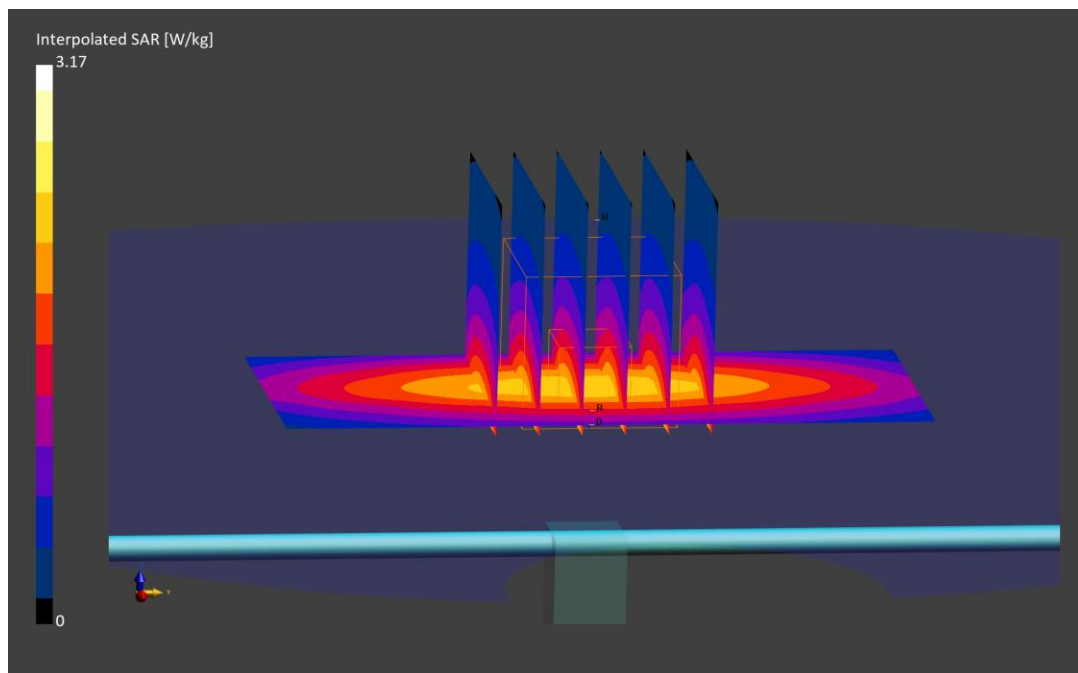
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.17 W/kg

SAR(1 g) = 2.02 W/kg; SAR(10 g) = 1.33 W/kg

Deviation (1 g) = 1.41%; Deviation (10 g) = 2.62%



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 = 0.901 S/m; perm = 42.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 11/20/2024; Ambient Temp: 22.2°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7558; ConvF:(9.68,9.17,9.65); Calibrated: 2024-09-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1364; Calibrated: 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)

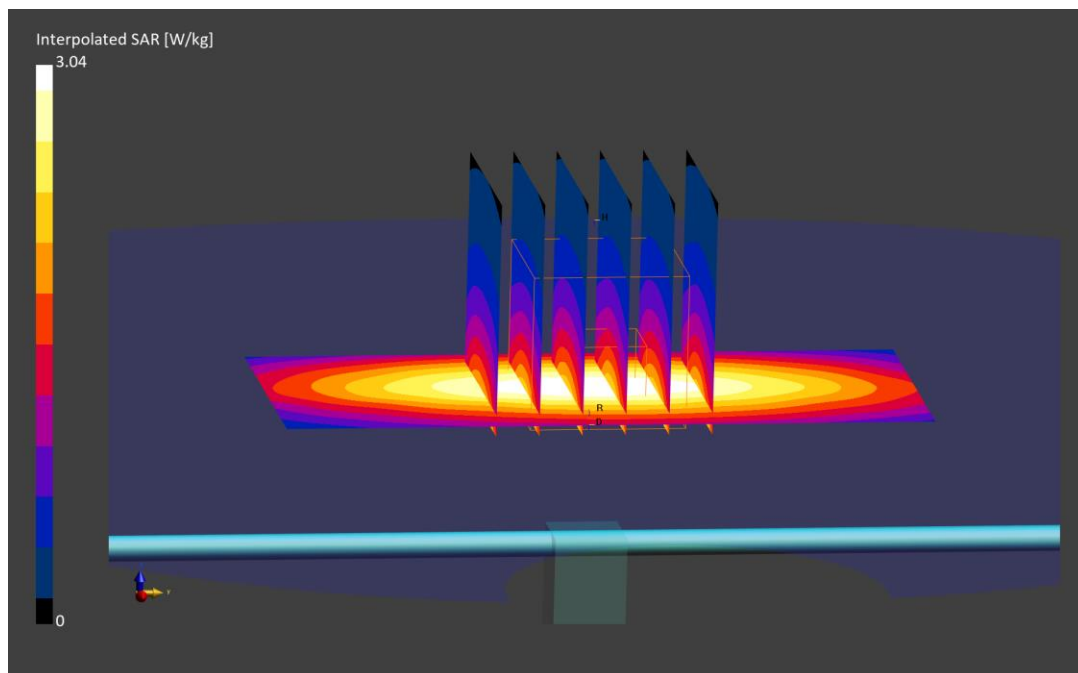
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.04 W/kg

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

Deviation (1 g) = -1.10%; Deviation (10 g) = -0.46%



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 = 0.898 S/m; perm = 42.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 11/23/2024; Ambient Temp: 21.6°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7558; ConvF:(9.68,9.17,9.65); Calibrated: 2024-09-11

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

Electronics: DAE4 Sn1364; Calibrated: 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)

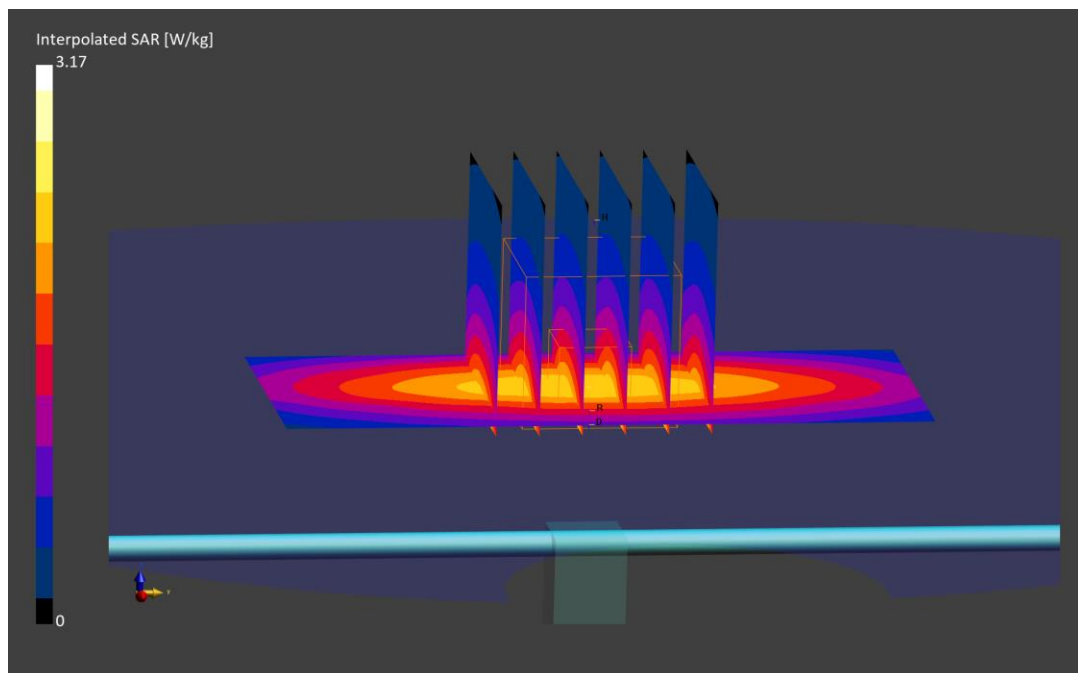
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 3.18 W/kg

SAR(1 g) = 2.05 W/kg; SAR(10 g) = 1.34 W/kg

Deviation (1 g) = 2.91%; Deviation (10 g) = 3.40%



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 = 39.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/11/2024; Ambient Temp: 22.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7718; ConvF:(7.81,7.9,8.22); Calibrated: 2024-04-17
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2024-03-01
Phantom: Twin-SAM V5.0; Serial: 1792
Measurement SW: DASY Module SAR V16.4.0.5005

1750.0 MHz System Verification at 20.0 dBm (100 mW)

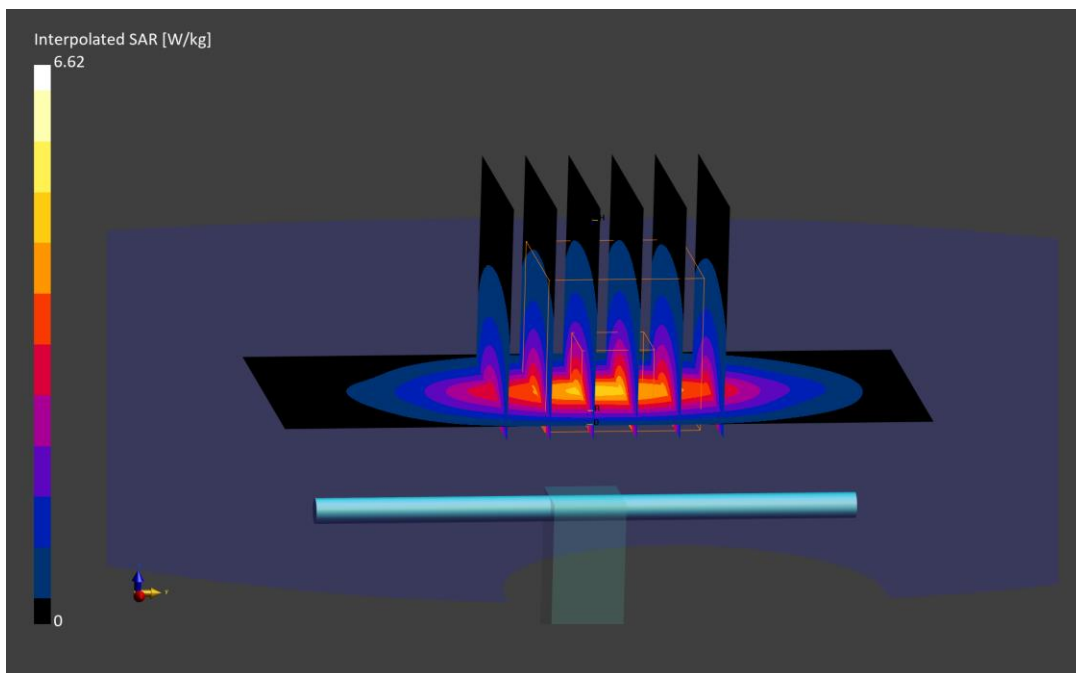
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.62 W/kg

SAR(1 g) = 3.73 W/kg; SAR(10 g) = 2.01 W/kg

Deviation (1 g) = 0.27%; 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 = 1.31 S/m; perm = 41.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/19/2024; Ambient Temp: 22.5°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN3914; ConvF:(8.12,7.51,7.51); Calibrated: 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; Calibrated: 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)

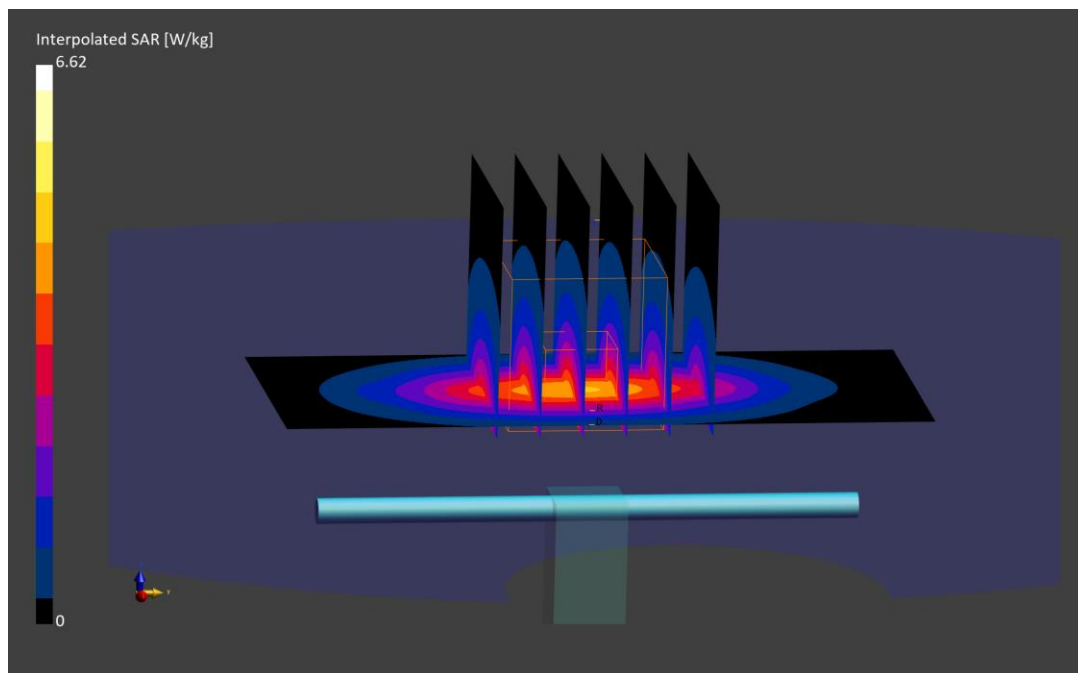
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.62 W/kg

SAR(1 g) = 3.58 W/kg; SAR(10 g) = 1.93 W/kg

Deviation (1 g) = -1.65%; Deviation (10 g) = -0.52%



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 = 39.2; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/20/2024; Ambient Temp: 20.9°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7718; ConvF:(7.81,7.9,8.22); Calibrated: 2024-04-17
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2024-03-01
Phantom: Twin-SAM V5.0; Serial: 1792
Measurement SW: DASY Module SAR V16.4.0.5005

1750.0 MHz System Verification at 20.0 dBm (100 mW)

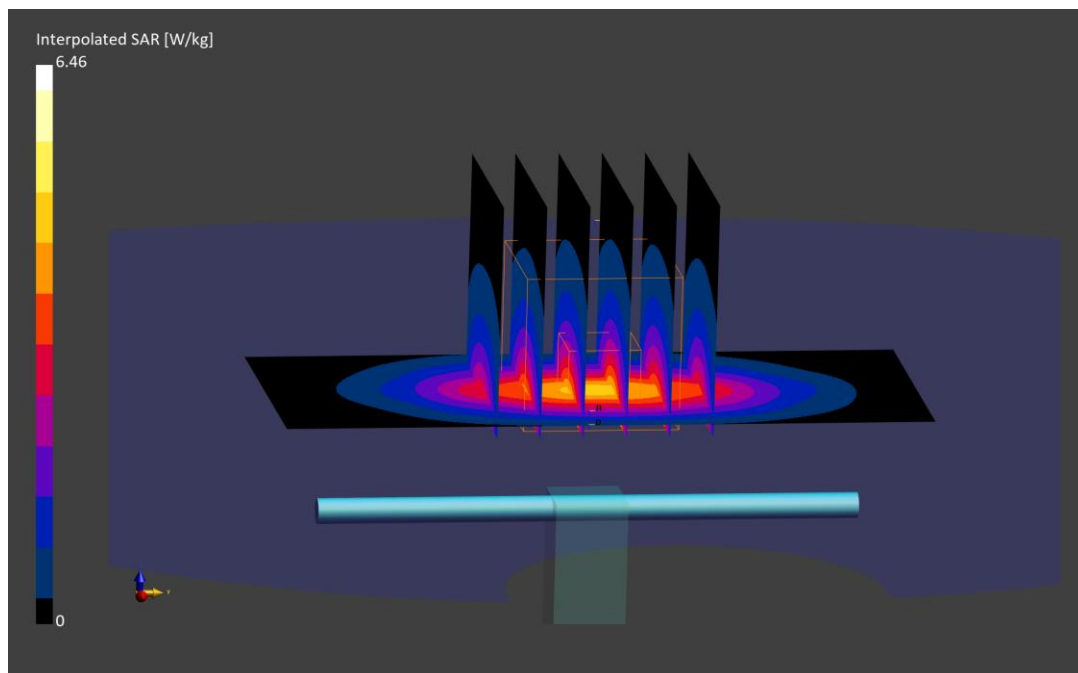
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.46 W/kg

SAR(1 g) = 3.62 W/kg; SAR(10 g) = 1.96 W/kg

Deviation (1 g) = -2.69%; Deviation (10 g) = 1.03%



ELEMENT

DUT: Dipole 1900.000 MHz; Type: D1900V2 - SN5d141

Communication System: UID: 0, CW; Frequency: 1900.000 MHz
Medium: 1900 Head; Medium parameters used:
f = 1900.000 MHz; cond = 1.43 S/m; perm = 39.8; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/06/2024; Ambient Temp: 22.0°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7565; ConvF:(8.53,7.25,7.16); Calibrated: 2024-01-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; Calibrated: 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)

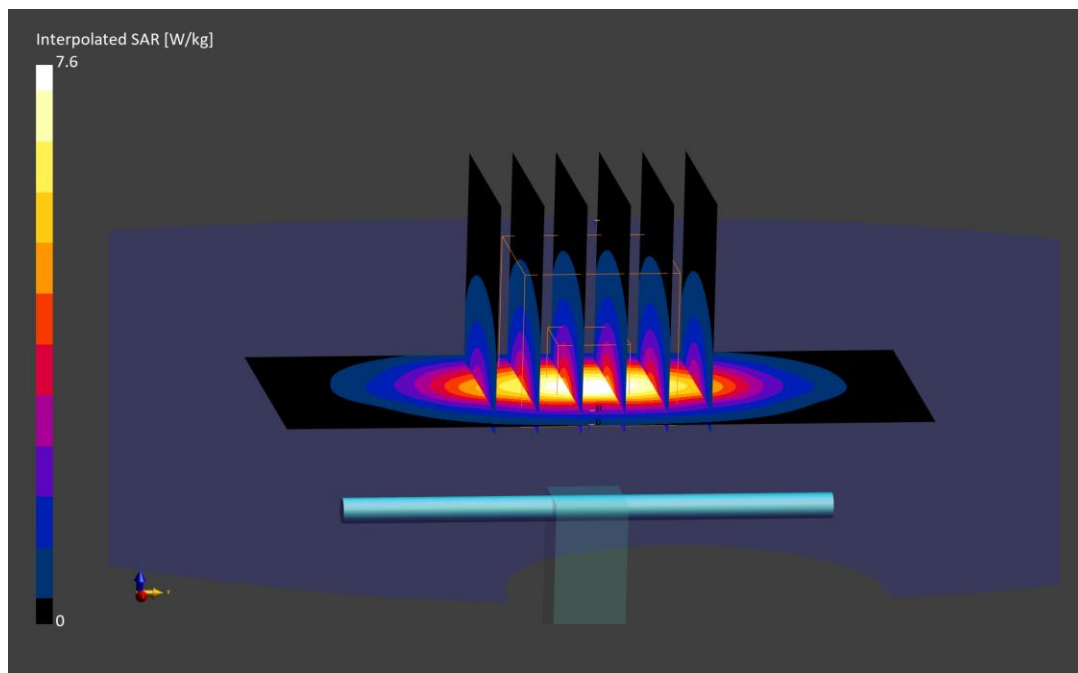
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.60 W/kg

SAR(1 g) = 4.00 W/kg; SAR(10 g) = 2.06 W/kg

Deviation (1 g) = -0.74%; Deviation (10 g) = -1.90%



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 = 1.39 S/m; perm = 39.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/11/2024; Ambient Temp: 21.9°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7558; ConvF:(8.37,7.93,8.35); Calibrated: 2024-09-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1364; Calibrated: 2024-09-10
Phantom: Twin-SAM V8.0; Serial: 1934
Measurement SW: DASY Module SAR V16.4.0.5005

1900.0 MHz System Verification at 20.0 dBm (100 mW)

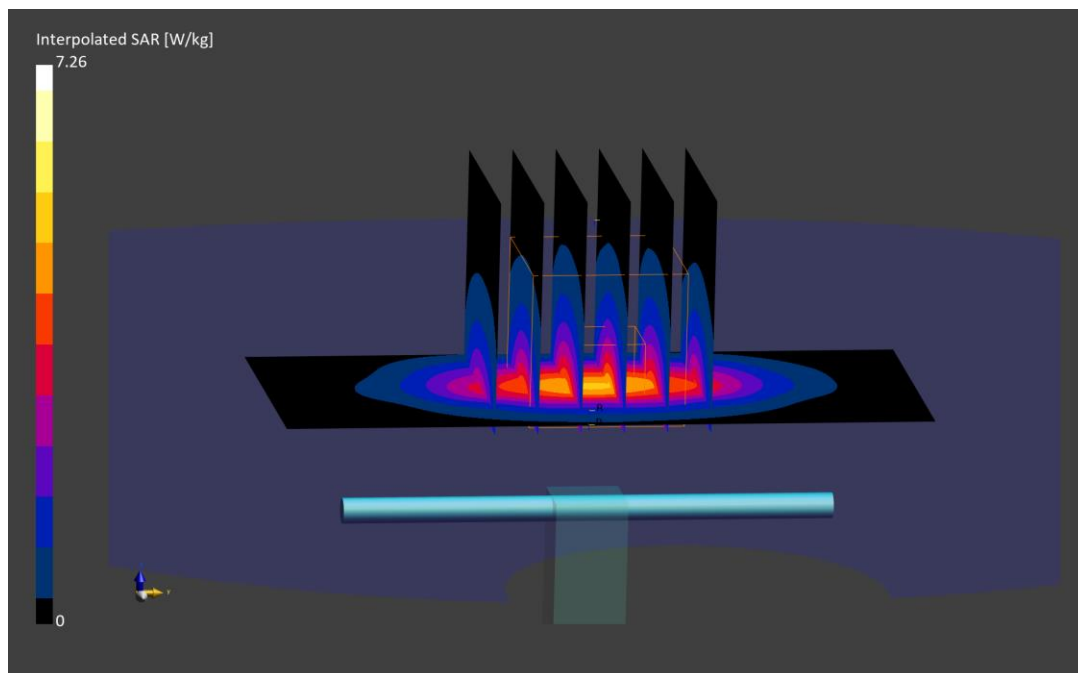
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.26 W/kg

SAR(1 g) = 3.92 W/kg; SAR(10 g) = 2.04 W/kg

Deviation (1 g) = -2.73%; Deviation (10 g) = -2.86%



ELEMENT

DUT: Dipole 1900.000 MHz; Type: D1900V2 - SN5d080

Communication System: UID: 0, CW; Frequency: 1900.000 MHz
Medium: 1900 Head; Medium parameters used:
f = 1900.000 MHz; cond = 1.41 S/m; perm = 41.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/13/2024; Ambient Temp: 20.7°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7718; ConvF:(7.55,7.58,7.86); Calibrated: 2024-04-17
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn665; Calibrated: 2024-03-01
Phantom: Twin-SAM V5.0; Serial: 1792
Measurement SW: DASY Module SAR V16.4.0.5005

1900.0 MHz System Verification at 20.0 dBm (100 mW)

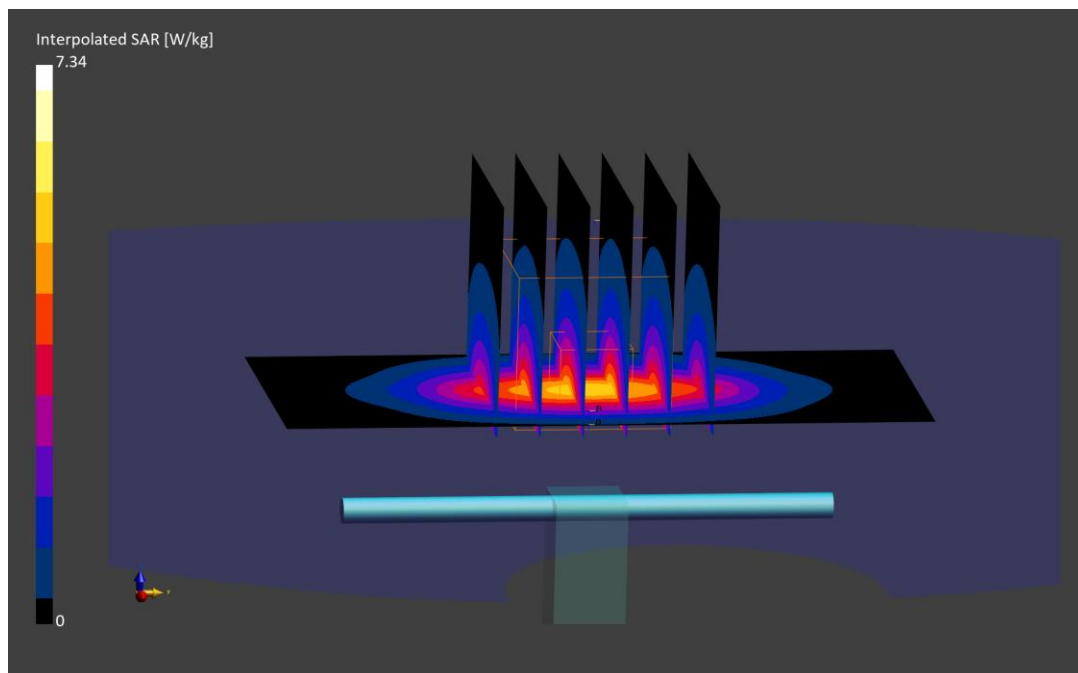
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.34 W/kg

SAR(1 g) = 4.20 W/kg; SAR(10 g) = 2.23 W/kg

Deviation (1 g) = 6.06%; Deviation (10 g) = 7.73%



ELEMENT

DUT: Dipole 1900.000 MHz; Type: D1900V2 - SN5d148

Communication System: UID: 0, CW; Frequency: 1900.000 MHz
Medium: 1900 Head; Medium parameters used:
f = 1900.000 MHz; cond = 1.41 S/m; perm = 41.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/19/2024; Ambient Temp: 22.5°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN3914; ConvF:(8.04,7.37,7.44); Calibrated: 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; Calibrated: 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)

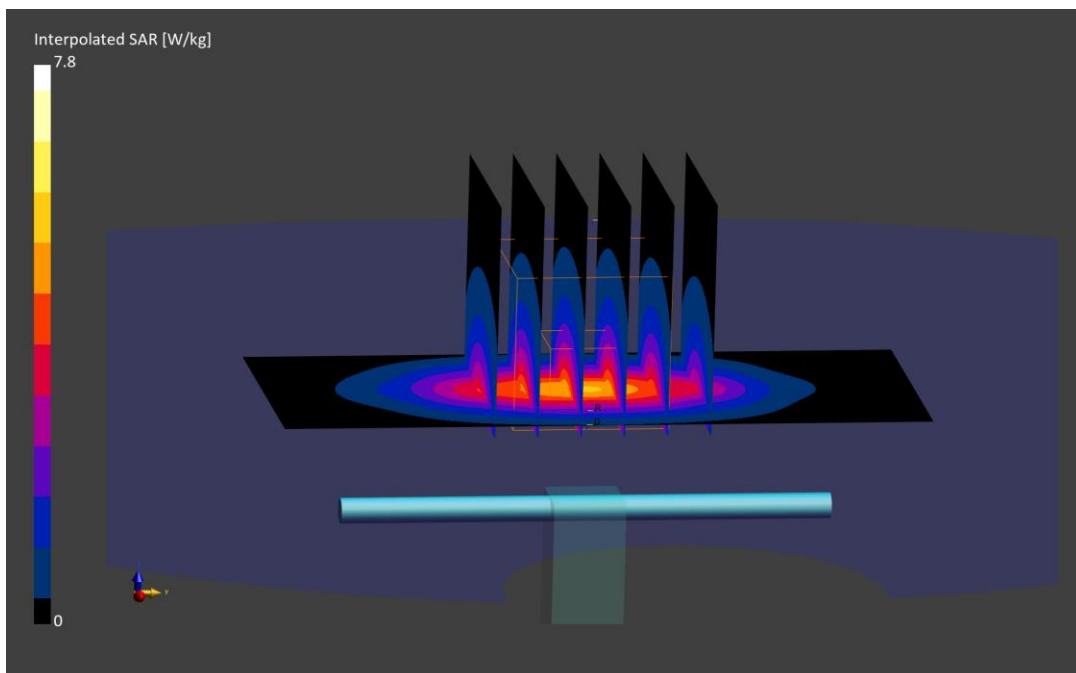
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.80 W/kg

SAR(1 g) = 4.21 W/kg; SAR(10 g) = 2.20 W/kg

Deviation (1 g) = 4.99%; Deviation (10 g) = 4.76%



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 = 1.85 S/m; perm = 37.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/22/2024; Ambient Temp: 21.9°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7565; ConvF:(7.73,6.62,6.61); Calibrated: 2024-01-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; Calibrated: 2024-01-16
Phantom: Twin-SAM V5.0; Serial: 1868
Measurement SW: DASY Module SAR V16.4.0.5005

2450.0 MHz System Verification at 20.0 dBm (100 mW)

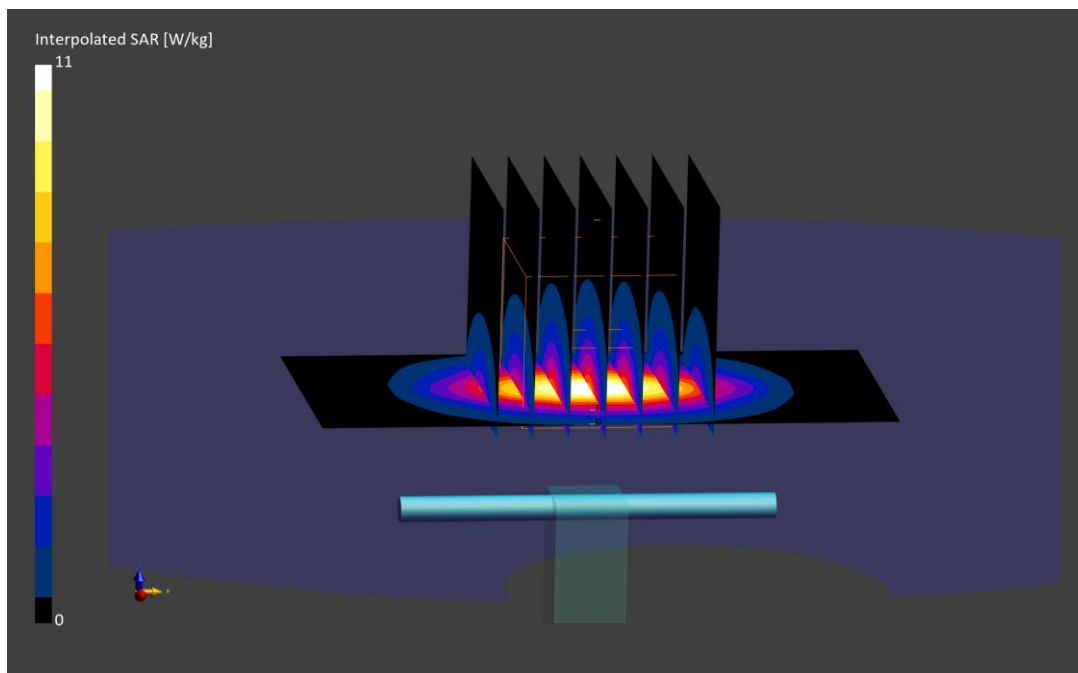
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.0 W/kg

SAR(1 g) = 5.24 W/kg; SAR(10 g) = 2.44 W/kg

Deviation (1 g) = -1.13%; Deviation (10 g) = -2.01%



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 = 38.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/25/2024; Ambient Temp: 20.5°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7402; ConvF:(7.18,7.92,7.51); Calibrated: 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1502; Calibrated: 2024-05-08
Phantom: Twin-SAM V5.0 ; Serial: 1797
Measurement SW: DASY Module SAR V16.4.0.5005

2450.0 MHz System Verification at 20.0 dBm (100 mW)

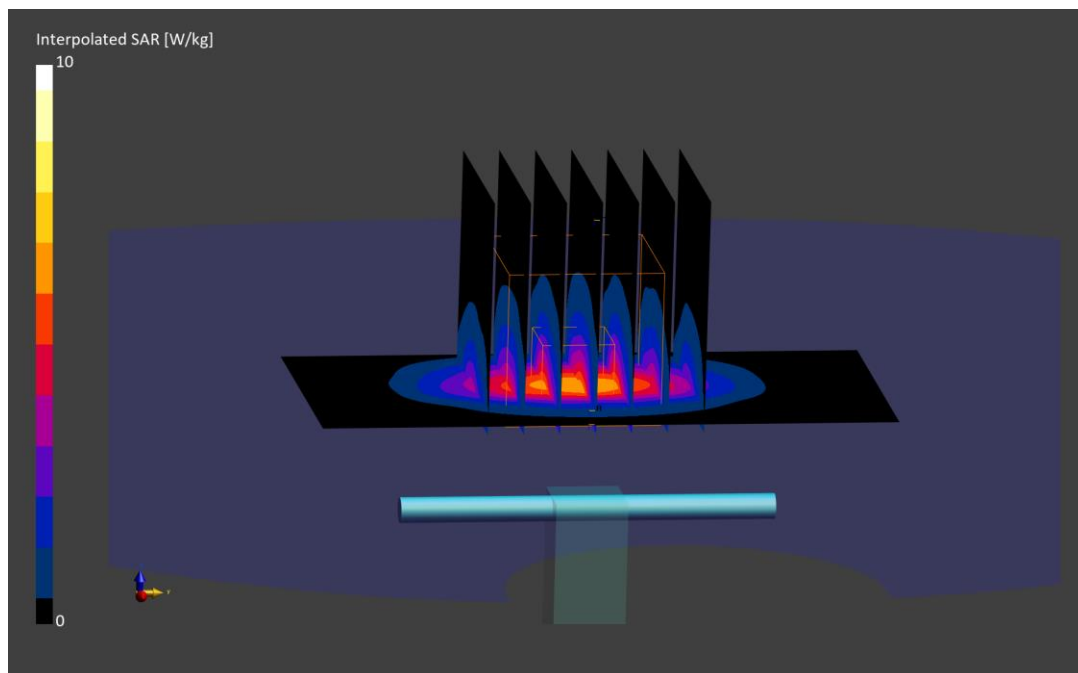
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 10.0 W/kg

SAR(1 g) = 4.90 W/kg; SAR(10 g) = 2.29 W/kg

Deviation (1 g) = -7.55%; Deviation (10 g) = -8.03%



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 = 1.78 S/m; perm = 37.4; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/25/2024; Ambient Temp: 20.1°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7565; ConvF:(7.73,6.62,6.61); Calibrated: 2024-01-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; Calibrated: 2024-01-16
Phantom: Twin-SAM V5.0 ; Serial: 1868
Measurement SW: DASY Module SAR V16.4.0.5005

2450.0 MHz System Verification at 20.0 dBm (100 mW)

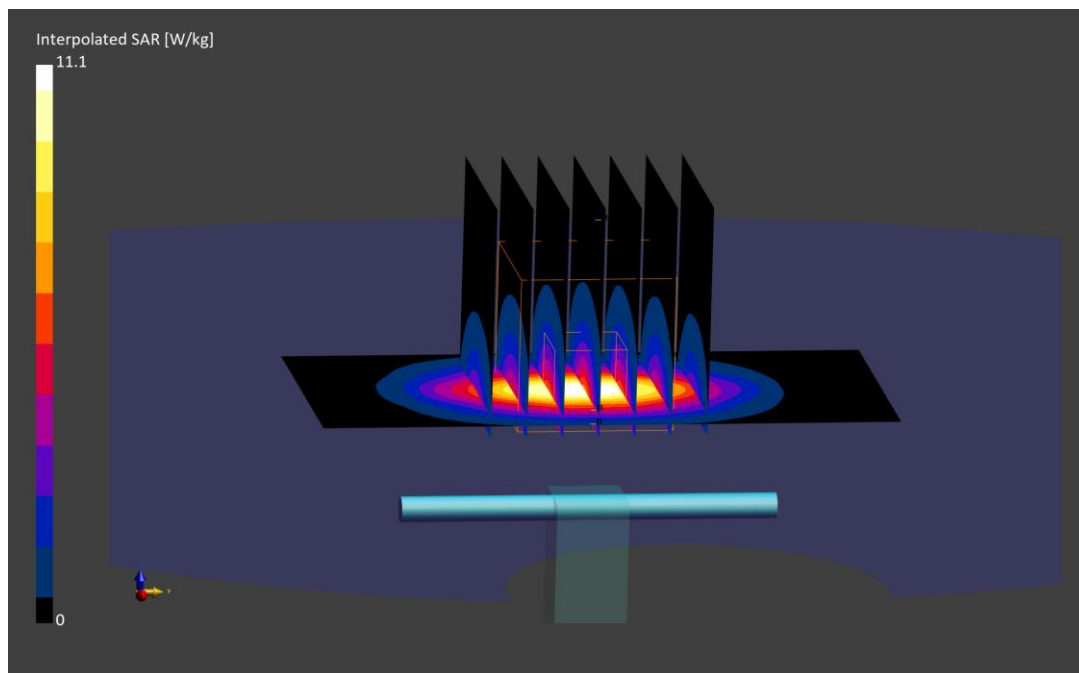
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.1 W/kg

SAR(1 g) = 5.26 W/kg; SAR(10 g) = 2.44 W/kg

Deviation (1 g) = -0.75%; Deviation (10 g) = -2.01%



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 = 1.94 S/m; perm = 38.0; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/11/2024; Ambient Temp: 21.2°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7640; ConvF:(8.13,7.69,8.37); Calibrated: 2024-02-09
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1645; Calibrated: 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)

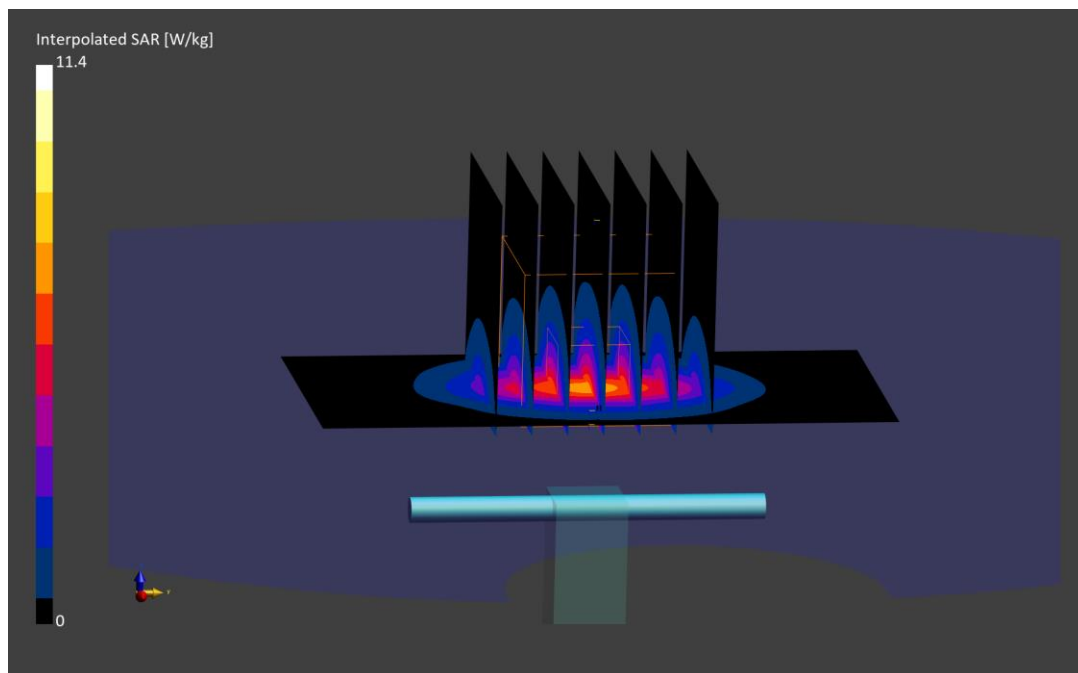
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 11.5 W/kg

SAR(1 g) = 5.38 W/kg; SAR(10 g) = 2.43 W/kg

Deviation (1 g) = -4.95%; Deviation (10 g) = -4.71%



ELEMENT

DUT: Dipole 2600.000 MHz; Type: D2600V2 - SN1126

Communication System: UID: 0, CW; Frequency: 2600.000 MHz
Medium: 2450 Head; Medium parameters used:
f = 2600.000 MHz; cond = 1.94 S/m; perm = 37.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/18/2024; Ambient Temp: 21.0°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7565; ConvF:(7.44,6.36,6.38); Calibrated: 2024-01-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1466; Calibrated: 2024-01-16
Phantom: Twin-SAM V5.0; Serial: 1868
Measurement SW: DASY Module SAR V16.4.0.5005

2600.0 MHz System Verification at 20.0 dBm (100 mW)

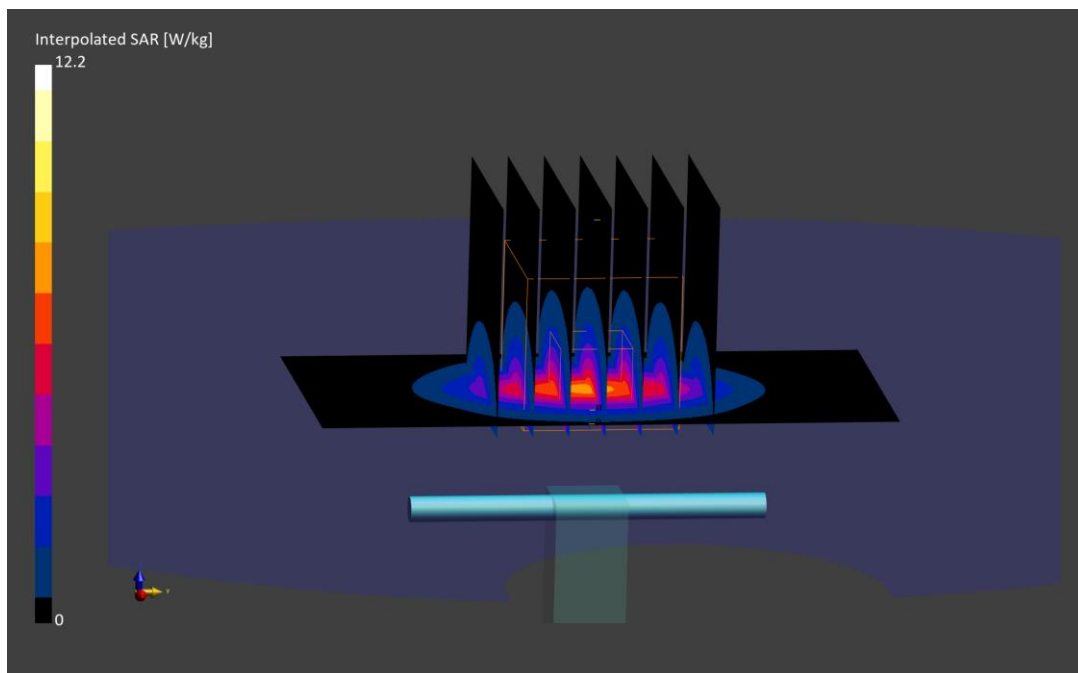
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 12.2 W/kg

SAR(1 g) = 5.60 W/kg; SAR(10 g) = 2.51 W/kg

Deviation (1 g) = 1.27%; Deviation (10 g) = 1.21%



ELEMENT

DUT: Dipole 2600.000 MHz; Type: D2600V2 - SN1126

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: 11/25/2024; Ambient Temp: 20.5°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7402; ConvF:(7.13,7.87,7.47); Calibrated: 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1502; Calibrated: 2024-05-08
Phantom: Twin-SAM V5.0 ; Serial: 1797
Measurement SW: DASY Module SAR V16.4.0.5005

2600.0 MHz System Verification at 20.0 dBm (100 mW)

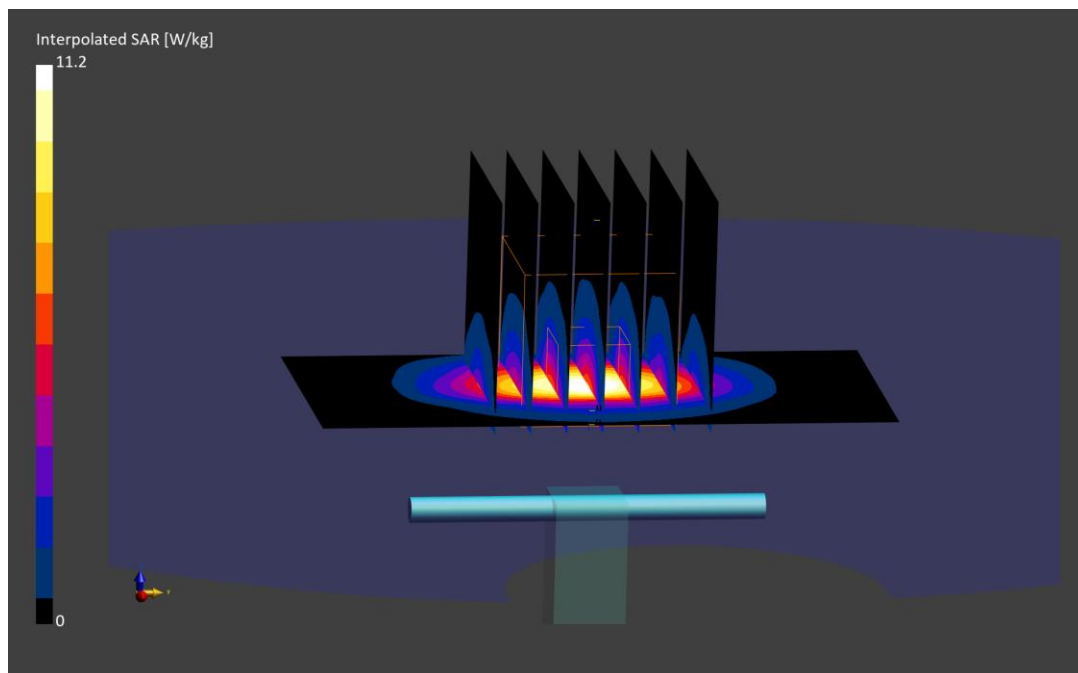
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 5.22 W/kg; SAR(10 g) = 2.37 W/kg

Deviation (1 g) = -5.61%; Deviation (10 g) = -4.44%



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 = 4.65 S/m; perm = 35.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/18/2024; Ambient Temp: 20.3°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN7402; ConvF:(4.95,5.4,5.04); Calibrated: 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1502; Calibrated: 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)

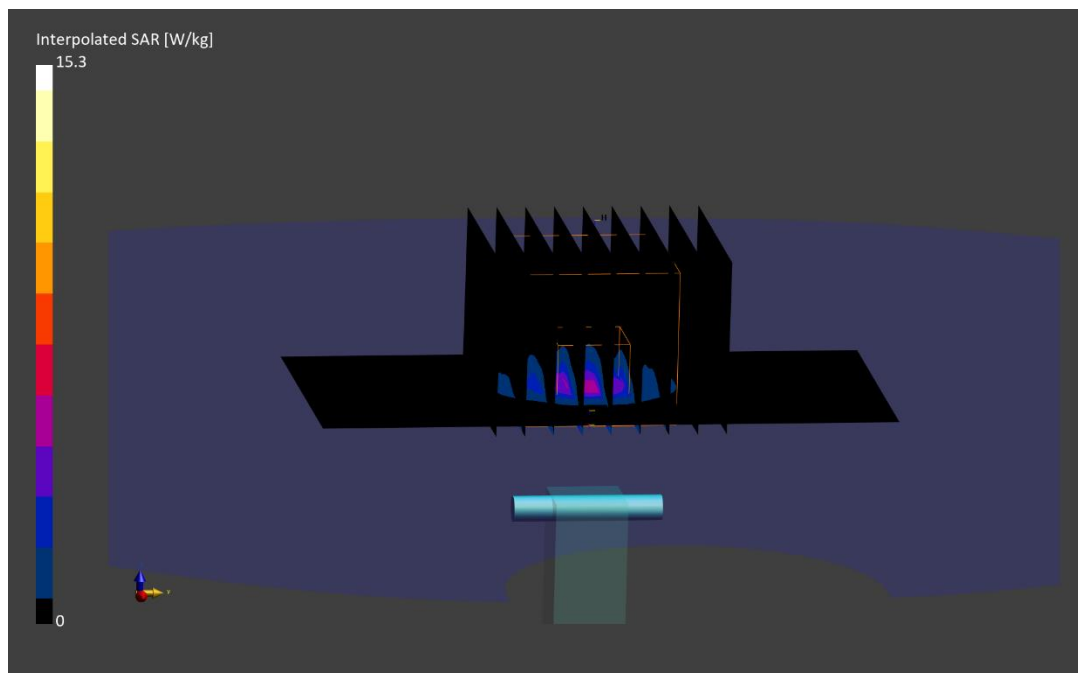
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 15.3 W/kg

SAR(1 g) = 3.90 W/kg; SAR(10 g) = 1.13 W/kg

Deviation (1 g) = -2.62%; Deviation (10 g) = -1.31%



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 = 5.04 S/m; perm = 34.8; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/18/2024; Ambient Temp: 20.3°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN7402; ConvF:(4.57,4.97,4.64); Calibrated: 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1502; Calibrated: 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)

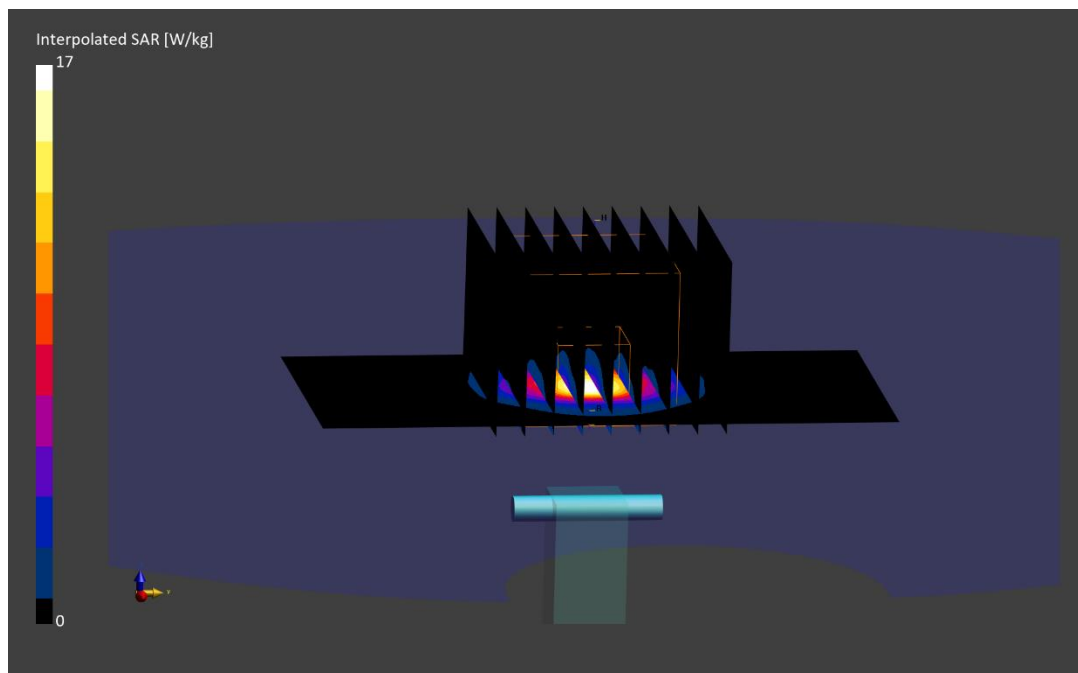
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 17.0 W/kg

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

Deviation (1 g) = -1.71%; Deviation (10 g) = -1.29%



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 = 5.24 S/m; perm = 34.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/18/2024; Ambient Temp: 20.3°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN7402; ConvF:(4.1,4.4,4.13); Calibrated: 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1502; Calibrated: 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)

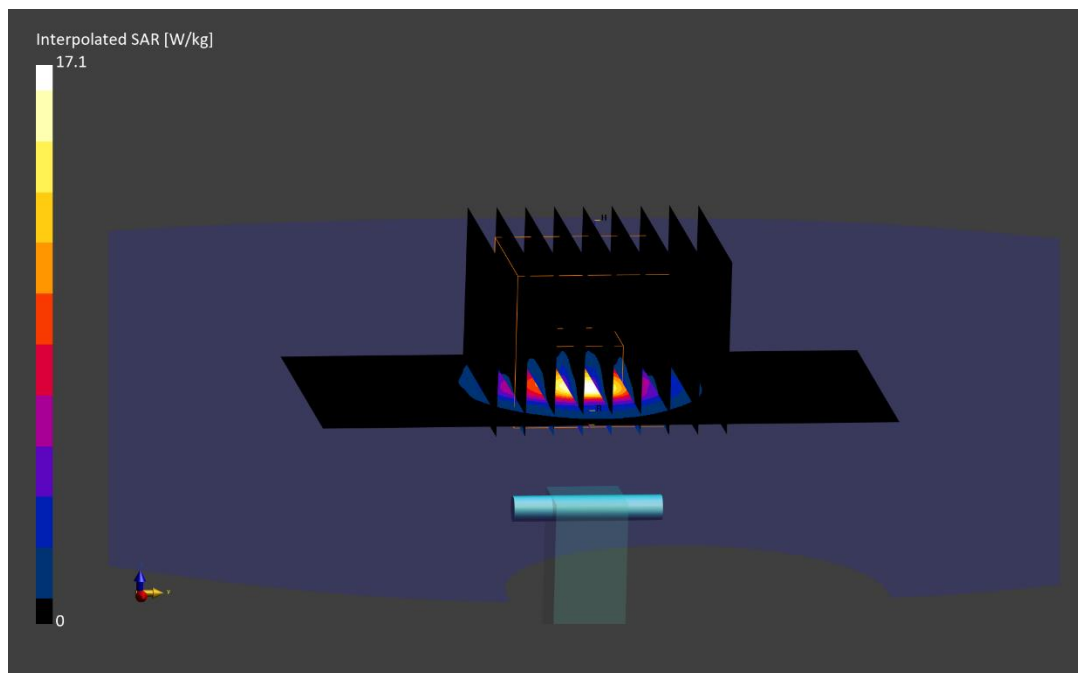
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 17.1 W/kg

SAR(1 g) = 3.96 W/kg; SAR(10 g) = 1.14 W/kg

Deviation (1 g) = 0.00%; Deviation (10 g) = 1.33%



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 = 5.36 S/m; perm = 34.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 11/18/2024; Ambient Temp: 20.3°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN7402; ConvF:(3.95,4.27,4.0); Calibrated: 2024-05-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1502; Calibrated: 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)

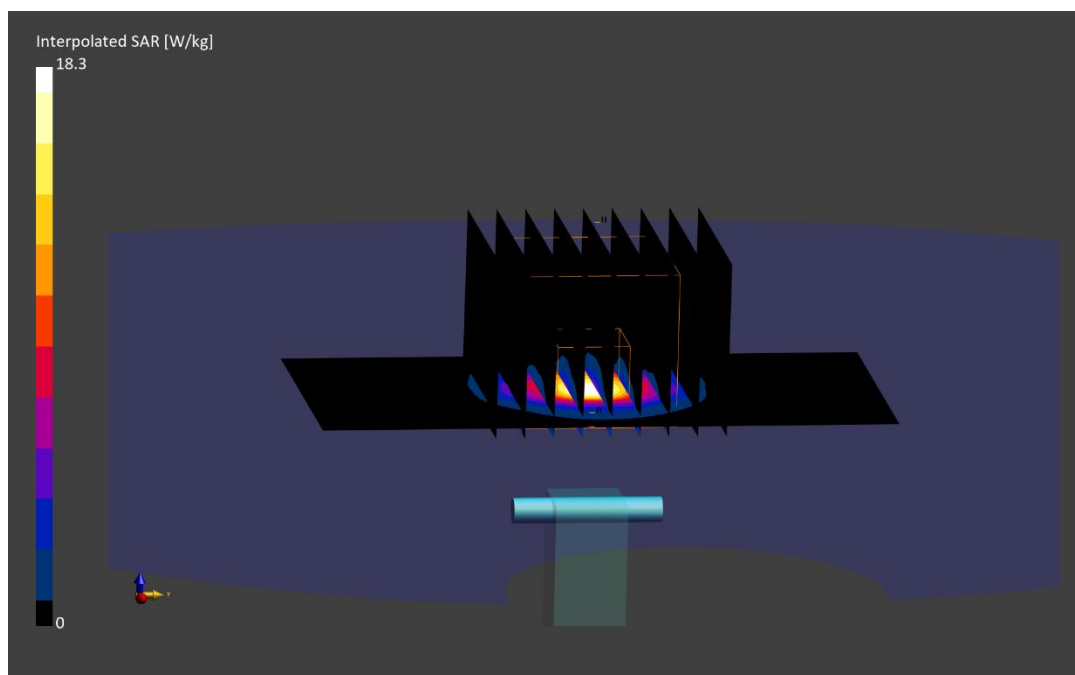
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 18.3 W/kg

SAR(1 g) = 4.18 W/kg; SAR(10 g) = 1.20 W/kg

Deviation (1 g) = 3.98%; Deviation (10 g) = 5.26%



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 = 6.20 S/m; perm = 33.8; density = 1000 kg/m³
Phantom Section: Flat; Space: 5 mm

Test Date: 11/18/2024; Ambient Temp: 21.8°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7659; ConvF:(5.95,5.95,5.95); Calibrated: 2024-04-17
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1407; Calibrated: 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)

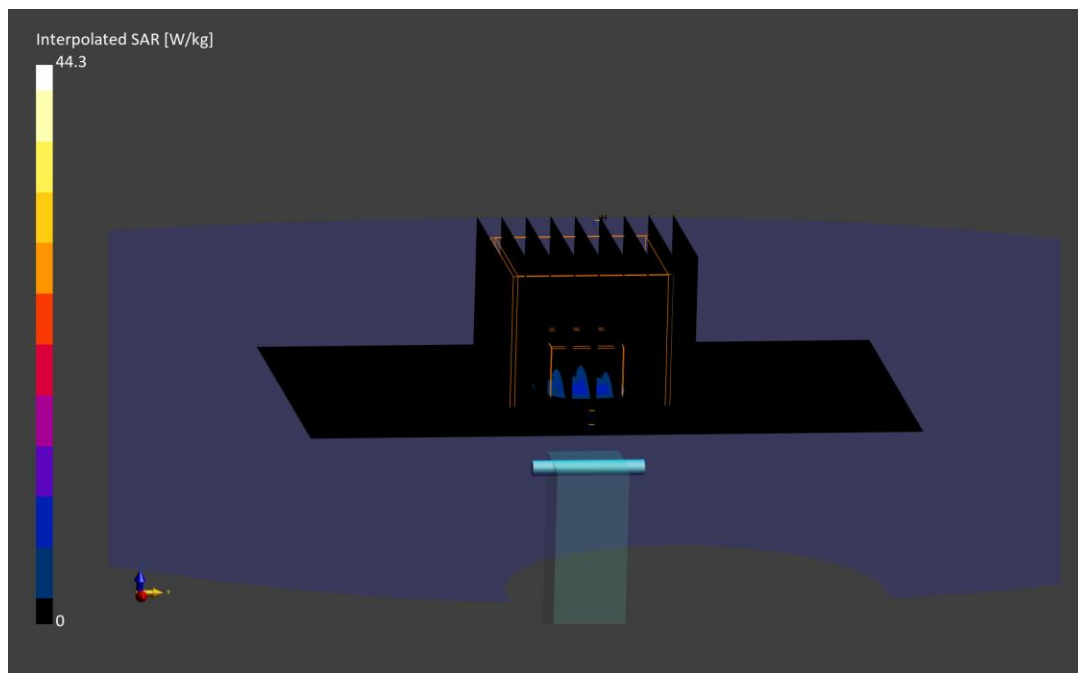
Area Scan (51.0 x 85.0): Measurement grid: dx=8.5 mm, dy=8.5 mm

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) = 44.3 W/kg

SAR(1 g) = 7.13 W/kg; SAR(10 g) = 1.35 W/kg; APD(4.0 cm²) = 32.6 W/m²

Deviation (1 g) = -1.99%; Deviation (10 g) = 0.93%; Deviation (APD) = 0.31%



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; cond = 7.64 S/m; perm = 31.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 5 mm

Test Date: 11/20/2024; Ambient Temp: 21.5°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7527; ConvF:(5.33,4.76,5.57); Calibrated: 2024-03-08
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1272; Calibrated: 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)

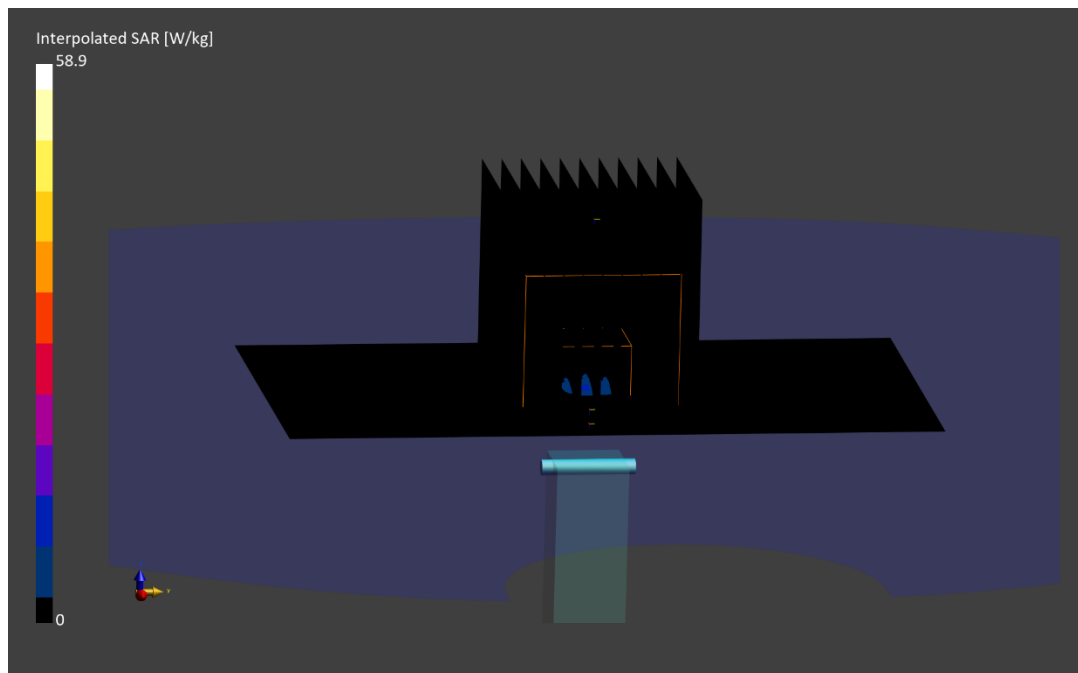
Area Scan (52.0 x 91.0): Measurement grid: dx=6.5 mm, dy=6.5 mm

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) = 58.9 W/kg

SAR(1 g) = 6.75 W/kg; SAR(10 g) = 1.12 W/kg; APD(4.0 cm²) = 27.0 W/m²

Deviation (1 g) = 0.37%; Deviation (10 g) = -1.10%; Deviation (APD) = -2.70%



Date: 2024-11-19

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

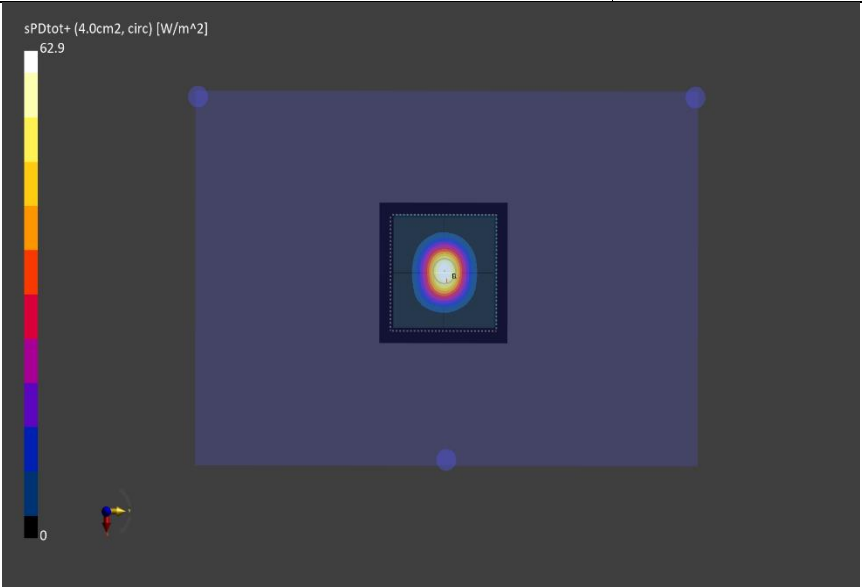
Software	Software Version
cDASY6 Module mmWave	3.2.0.1840

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
pStot avg [W/m²]	62.9
pSn avg [W/m²]	62.5
Epeak [V/m]	164
Deviation [dB] pStot	0.59
Deviation [dB] pSn	0.59



Date: 2024-11-24

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]	58.3
pS _n avg [W/m²]	58.0
E _{peak} [V/m]	158
Deviation [dB] pS _{tot}	0.26
Deviation [dB] pS _n	0.26

