APPENDIX A: SYSTEM VERIFICATION PLOTS

ELEMENT

DUT: Dipole 750.000 MHz; Type: D750V3 - SN1054

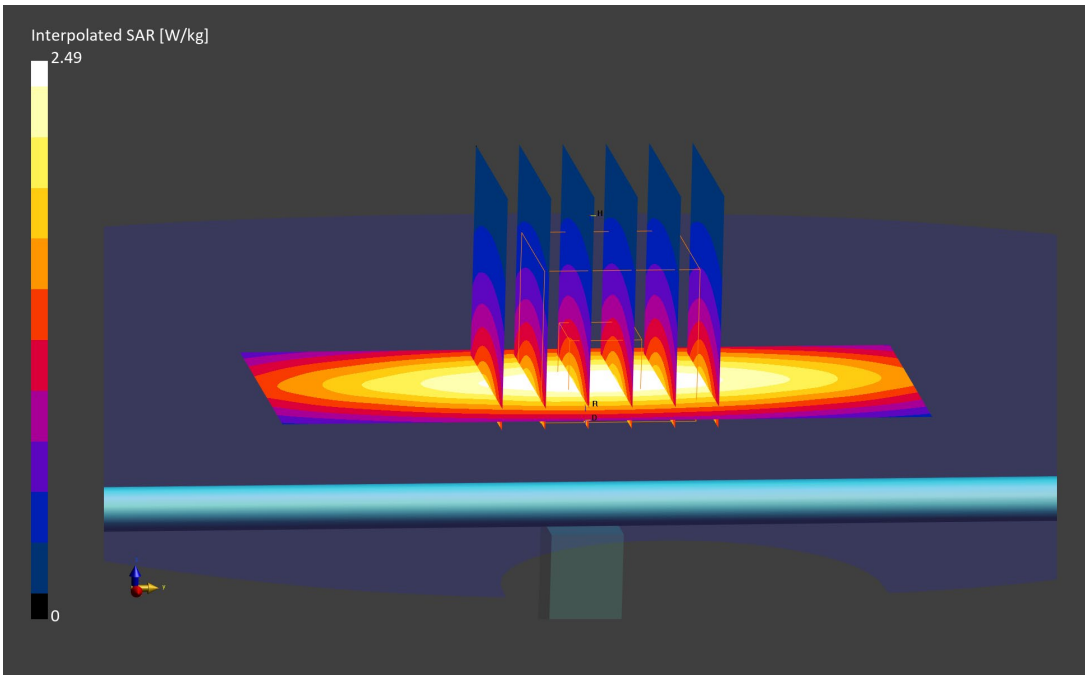
Communication System: UID: 0, CW; Frequency: 750.000 MHz
Medium: 750 Head; Medium parameters used:
f = 750.000 MHz; cond = 0.879 S/m; perm = 41.0; density = 1000 kg/m3
Phantom Section: Flat; Space: 15 mm

Test Date: 02/25/2024; Ambient Temp: 20.7°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7551; ConvF:(10.09,10.09,10.09); 2023-11-14
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1323; 2023-11-15
Phantom: Twin-SAM V8.0 (Left); Serial: 1964
Measurement SW: DASY Module SAR V16.2.4.2524

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) = 2.49 W/kg
SAR(1 g) = 1.67 W/kg; SAR(10 g) = 1.11 W/kg
Deviation (1 g) = -2.00%



ELEMENT

DUT: Dipole 835.000 MHz; Type: D835V2 - SN4d047

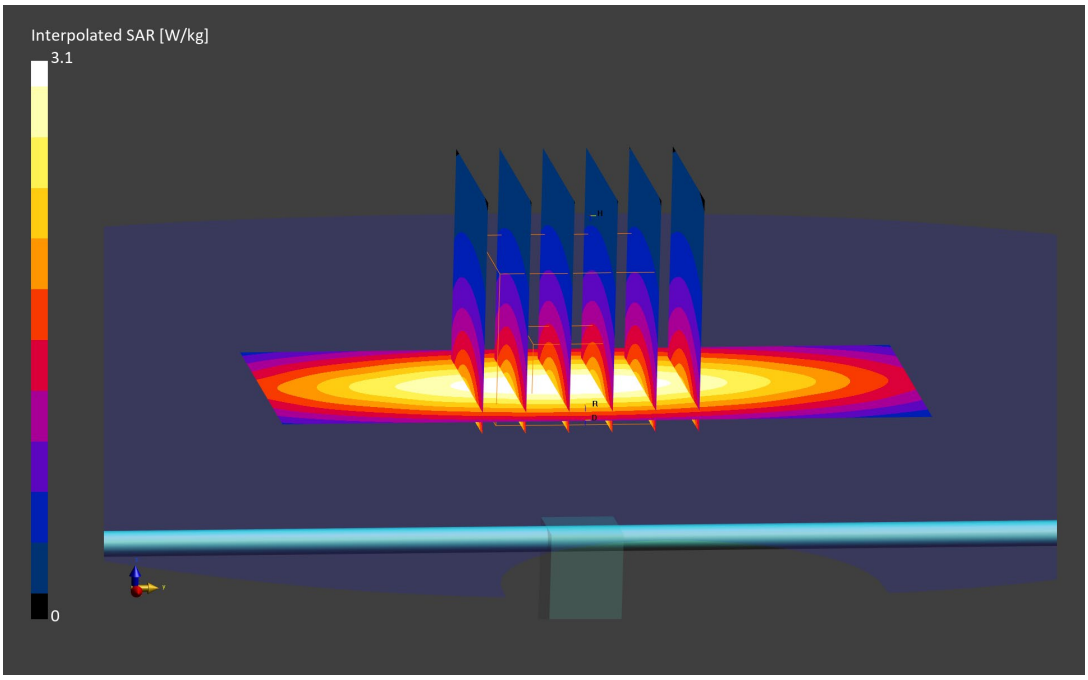
Communication System: UID: 0, CW; Frequency: 835.000 MHz
Medium: 830 Head; Medium parameters used:
f = 835.000 MHz; cond = 0.908 S/m; perm = 40.7; density = 1000 kg/m3
Phantom Section: Flat; Space: 15 mm

Test Date: 02/25/2024; Ambient Temp: 20.7°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7551; ConvF:(9.87,9.87,9.87); 2023-11-14
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1323; 2023-11-15
Phantom: Twin-SAM V8.0 (Left); Serial: 1964
Measurement SW: DASY Module SAR V16.2.4.2524

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) = 2.03 W/kg; SAR(10 g) = 1.35 W/kg
Deviation (1 g) = 5.18%



ELEMENT

DUT: Dipole 1900.000 MHz; Type: D1900V2 - SN5d080

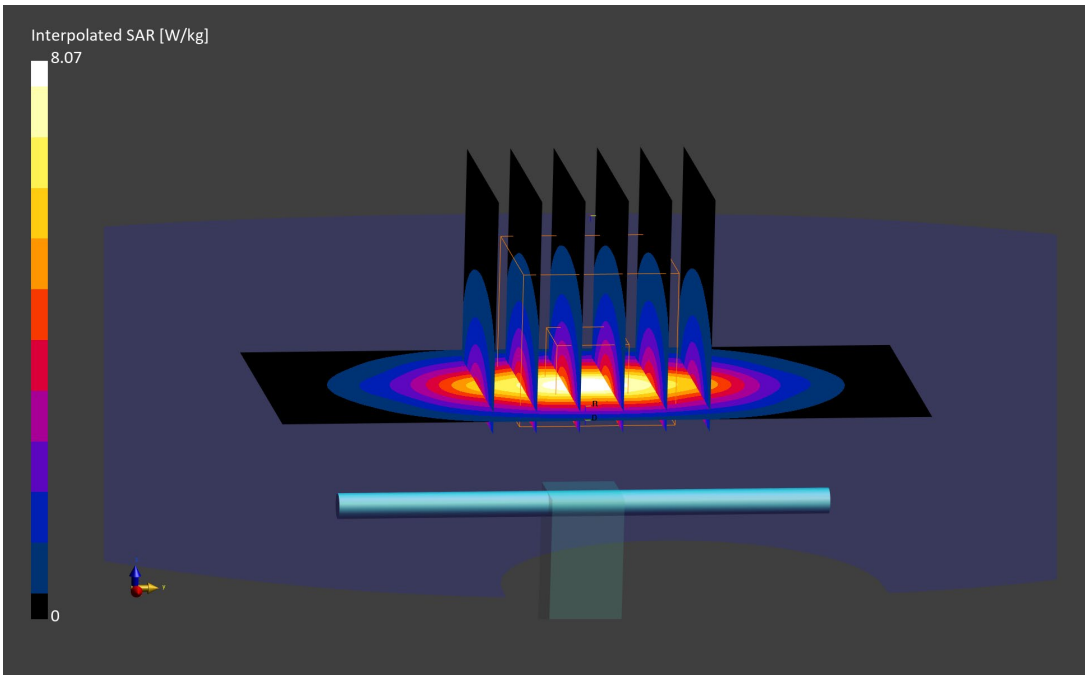
Communication System: UID: 0, CW; Frequency: 1900.000 MHz
Medium: 1900 Head; Medium parameters used:
f = 1900.000 MHz; cond = 1.41 S/m; perm = 38.8; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 02/23/2024; Ambient Temp: 21.1°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7551; ConvF:(8.14,8.14,8.14); 2023-11-14
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1323; 2023-11-15
Phantom: Twin-SAM V8.0 (Left); Serial: 1964
Measurement SW: DASY Module SAR V16.2.4.2524

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) = 8.07 W/kg
SAR(1 g) = 4.30 W/kg; SAR(10 g) = 2.25 W/kg
Deviation (1 g) = 8.59%



ELEMENT

DUT: Dipole 3700.000 MHz; Type: D3700V2 - SN1018

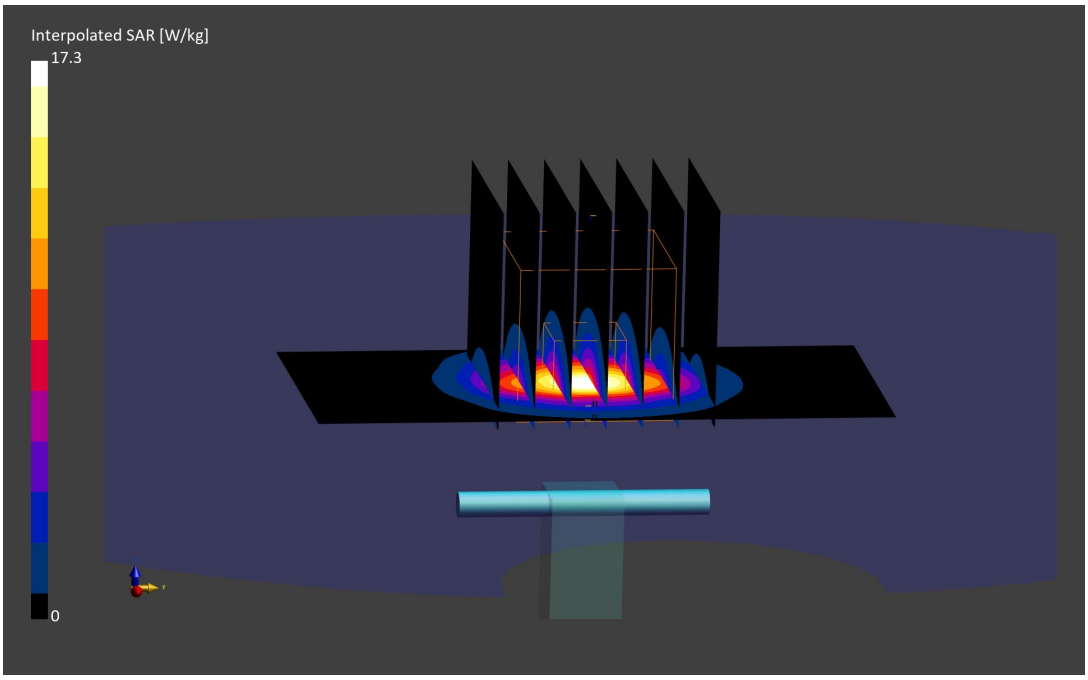
Communication System: UID: 0, CW; Frequency: 3700.000 MHz
Medium: 3600 Head; Medium parameters used:
f = 3700.000 MHz; cond = 2.99 S/m; perm = 37.8; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 02/25/2024; Ambient Temp: 20.7°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7551; ConvF:(6.39,6.39,6.39); 2023-11-14
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1323; 2023-11-15
Phantom: Twin-SAM V8.0 (Left); Serial: 1964
Measurement SW: DASY Module SAR V16.2.4.2524

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) = 17.3 W/kg
SAR(1 g) = 6.90 W/kg; SAR(10 g) = 2.61 W/kg
Deviation (1 g) = 5.99%



ELEMENT

DUT: Dipole 5750.000 MHz; Type: D5GHzV2 - SN1057

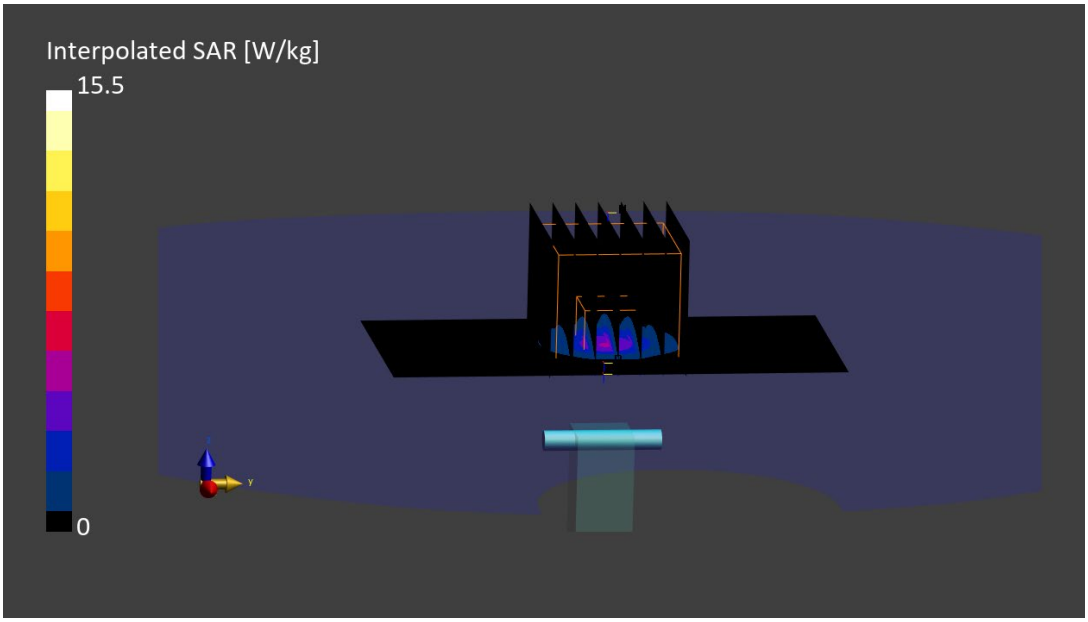
Communication System: UID: 0, CW; Frequency: 5750.000 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5750.000 MHz; cond = 5.02 S/m; perm = 33.8; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 04/08/2024; Ambient Temp: 19.7°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7571; ConvF:(4.54,4.54,4.54); 2024-01-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn859; 2024-01-09
Phantom: Twin-SAM V8.0; Serial: 1978
Measurement SW: DASY Module SAR V16.2.4.2524

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) = 15.5 W/kg
SAR(1 g) = 3.82 W/kg; SAR(10 g) = 1.09 W/kg
Deviation (1 g) = -4.26%



ELEMENT

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

Communication System: UID: 0, CW; Frequency: 6500.000 MHz
Medium: 6000 Head; Medium parameters used:
f = 6500.000 MHz; cond = 6.21 S/m; perm = 33.2; density = 1000 kg/m3
Phantom Section: Flat; Space: 5 mm

Test Date: 04/08/2024; Ambient Temp: 20.5°C; Tissue Temp: 19.7°C

Probe: EX3DV4 - SN7410; ConvF:(5.55,5.55,5.55); 2023-07-07
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4ip Sn1638; 2023-10-18
Phantom: Twin-SAM V8.0; Serial: 1979
Measurement SW: DASY Module SAR V16.2.4.2524

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) = 50.2 W/kg
SAR(1 g) = 7.67 W/kg; SAR(10 g) = 1.42 W/kg
Deviation (1 g) = 4.71%