

APPENDIX B: SAR DIPOLE VERIFICATION PLOTS

ELEMENT

DUT: Dipole 750 MHz; Type: D750V3 - SN1161

Communication System: UID: 0, CW; Frequency: 750.0 MHz
Medium: 750 Body; Medium parameters used:
f = 750.0 MHz; cond = 0.942 S/m; perm = 54.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 10/18/2022; Ambient Temp: 22.9°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN7718; ConvF:(9.06,9.06,9.06); Calibrated: 2022-03-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1368; Calibrated: 2022-03-16
Phantom: Twin-SAM V8.0; Serial: 2058
Measurement SW: DASY Module SAR V16.2.0.1425

750 MHz System Verification at 23 dBm (200 mW)

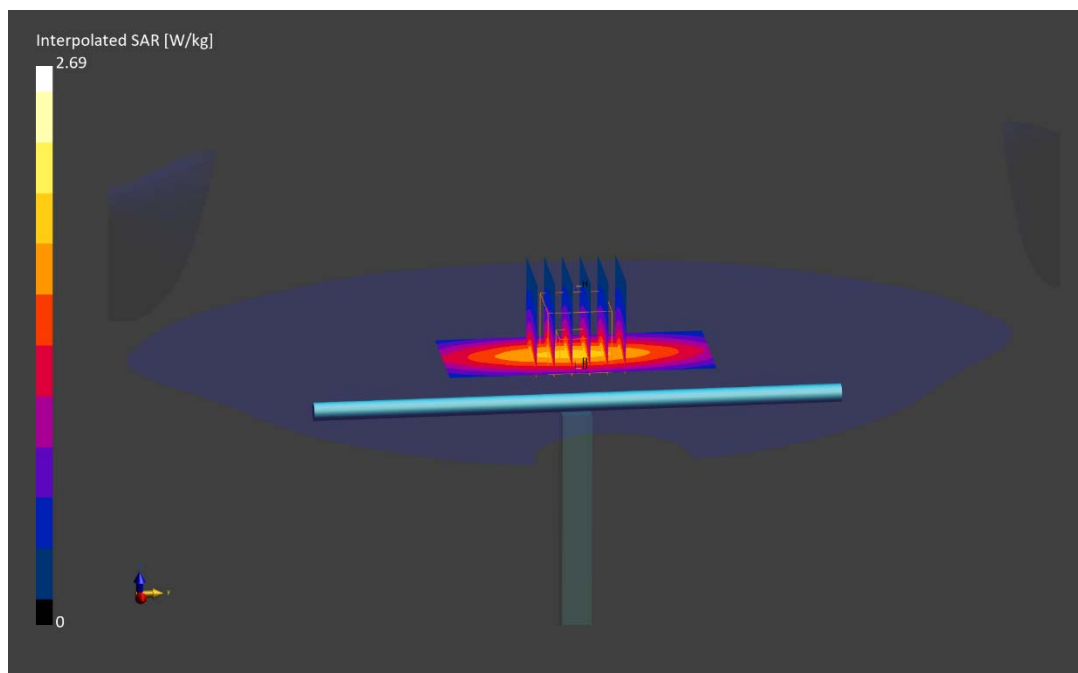
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 2.69 W/kg

SAR(1 g) = 1.76 W/kg; SAR(10 g) = 1.18 W/kg

Deviation (1 g) = 0.11%; Deviation (10 g) = 1.03%;



ELEMENT

DUT: Dipole 1750 MHz; Type: D1750V2 - SN1150

Communication System: UID: 0, CW; Frequency: 1750.0 MHz
Medium: 1750 Body; Medium parameters used:
f = 1750.0 MHz; cond = 1.44 S/m; perm = 53.2; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/18/2022; Ambient Temp: 23.5°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN7718; ConvF:(7.93,7.93,7.93); Calibrated: 2022-03-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1368; Calibrated: 2022-03-16
Phantom: Twin-SAM V8.0; Serial: 2058
Measurement SW: DASY Module SAR V16.2.0.1425

1750 MHz System Verification at 20 dBm (100 mW)

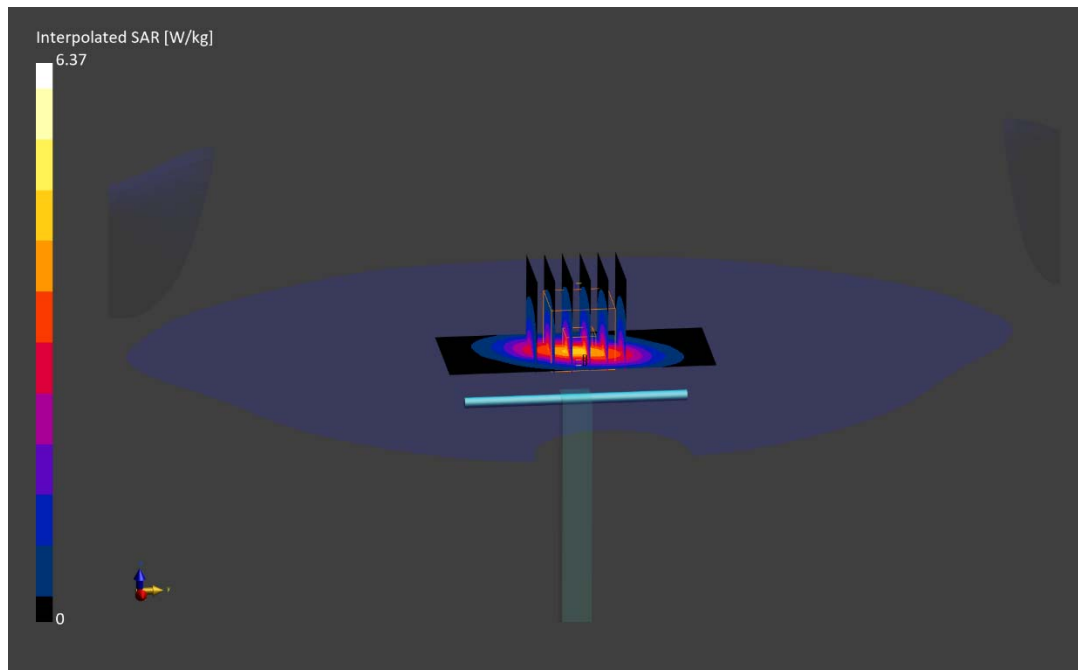
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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

Peak SAR (extrapolated) = 6.37 W/kg

SAR(1 g) = 3.62 W/kg; SAR(10 g) = 1.97 W/kg

Deviation (1 g) = -4.23%; Deviation (10 g) = -1.50%;



ELEMENT

DUT: Dipole 1900 MHz; Type: D1900V2 - SN5d149

Communication System: UID: 0, CW; Frequency: 1900.0 MHz
Medium: 1750 Body; Medium parameters used:
f = 1900.0 MHz; cond = 1.54 S/m; perm = 53.0; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 10/18/2022; Ambient Temp: 23.8°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN7718; ConvF:(7.84,7.84,7.84); Calibrated: 2022-03-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1368; Calibrated: 2022-03-16
Phantom: Twin-SAM V8.0; Serial: 2058
Measurement SW: DASY Module SAR V16.2.0.1425

1900 MHz System Verification at 20 dBm (100 mW)

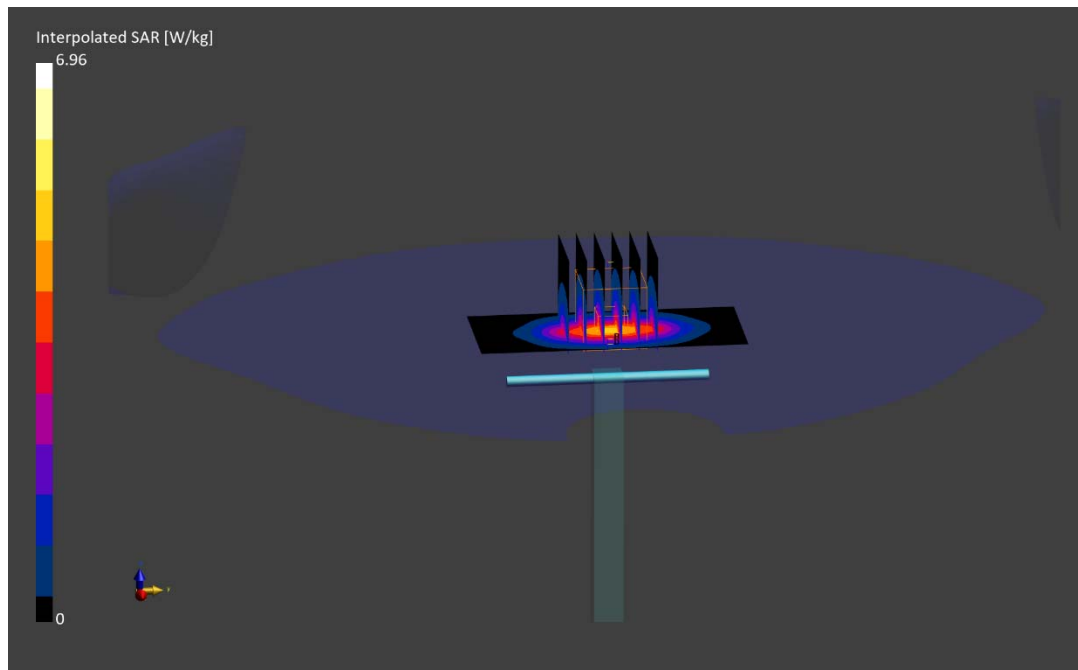
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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

Peak SAR (extrapolated) = 6.96 W/kg

SAR(1 g) = 3.89 W/kg; SAR(10 g) = 2.05 W/kg

Deviation (1 g) = -3.71%; Deviation (10 g) = -2.84%;



ELEMENT

DUT: Dipole 2450 MHz; Type: D2450V2 - SN719

Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2450.0 MHz; cond = 2.03 S/m; perm = 51.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 09/22/2022; Ambient Temp: 24.4°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7718; ConvF:(7.46,7.46,7.46); Calibrated: 2022-03-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1368; Calibrated: 2022-03-16
Phantom: Twin-SAM V8.0; Serial: 2058
Measurement SW: DASY Module SAR V16.2.0.1425

2450 MHz System Verification at 20 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) = 9.70 W/kg

SAR(1 g) = 4.79 W/kg; SAR(10 g) = 2.23 W/kg

Deviation (1 g) = -7.88%; Deviation (10 g) = -9.72%;

