

APPENDIX B: SYSTEM VERIFICATION

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 = 1.77 S/m; perm = 39.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 10.00 mm

Test Date: 06/02/2022; Ambient Temp: 24.2°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN3837; ConvF:(7.21,7.21,7.21); Calibrated: 2022-01-19

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

Electronics: DAE4 Sn793; Calibrated: 2022-01-13

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

Measurement SW: DASY Module SAR V16.0.2.136

2450 MHz System Verification at 20 dBm (100 mW)

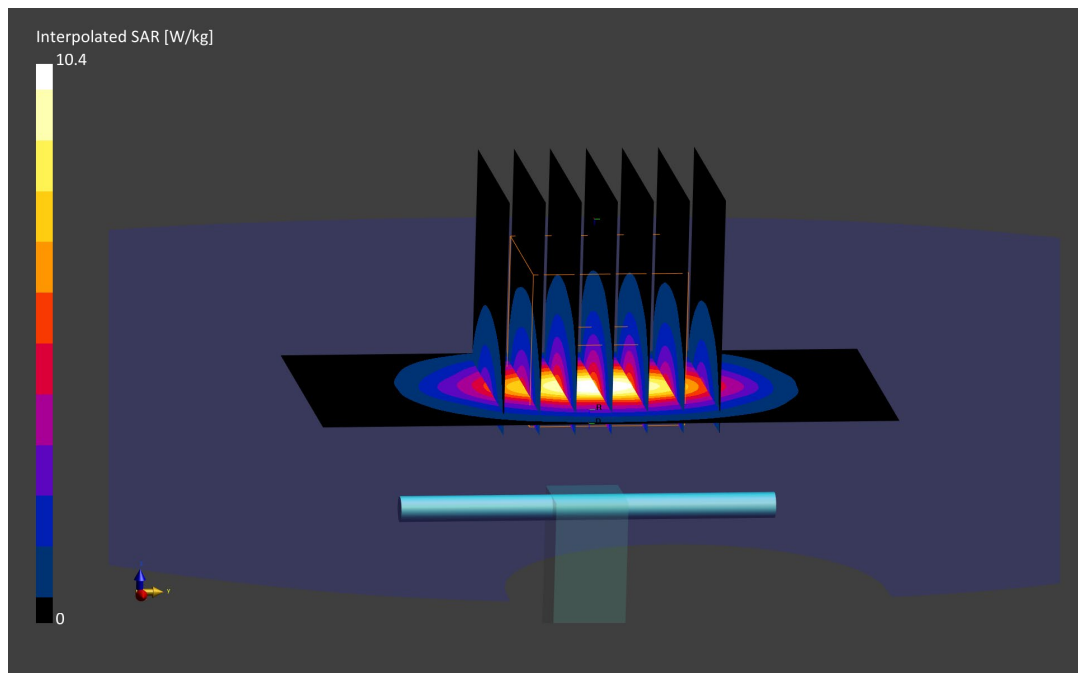
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 10.4 W/kg

SAR(1 g) = 5.03 W/kg

Deviation (1 g) = -7.20%



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; $\text{cond} = 1.83$ S/m; $\text{perm} = 40.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10.00 mm

Test Date: 06/06/2022; Ambient Temp: 22.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7308; ConvF:(7.94,7.94,7.94); Calibrated: 2022-02-21

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

Electronics: DAE4 Sn467; Calibrated: 2022-02-24

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

Measurement SW: DASY Module SAR V16.0.2.136

2450 MHz System Verification at 20 dBm (100 mW)

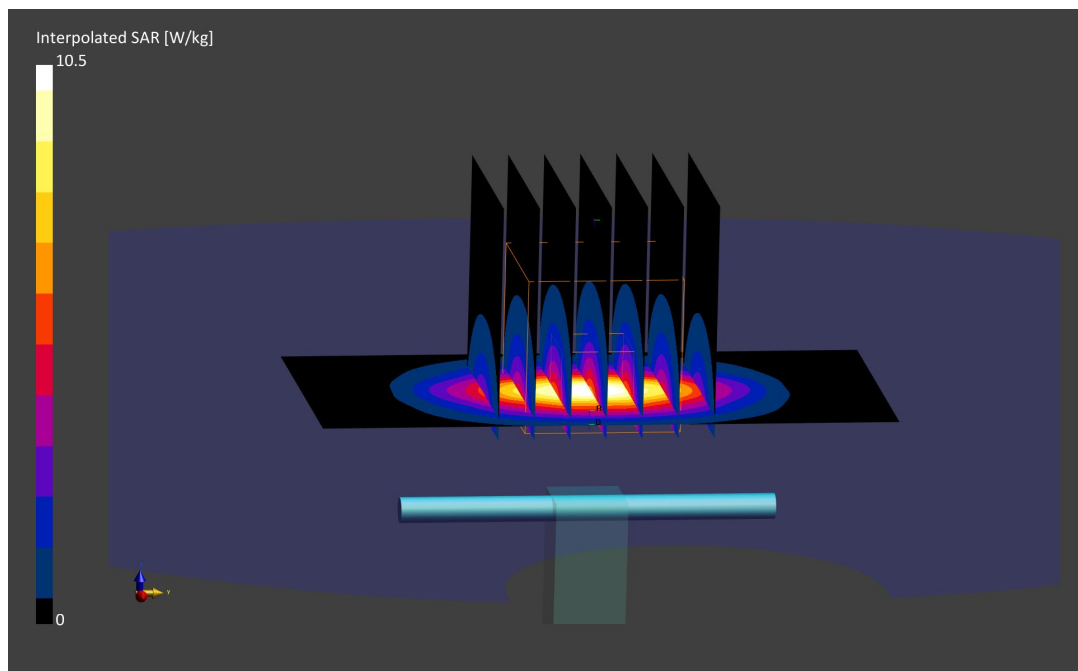
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

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) = 10.5 W/kg

SAR(1 g) = 5.02 W/kg; SAR(10 g) = 2.33 W/kg

Deviation (1 g) = -4.56%; Deviation (10 g) = -4.90%;



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; $\text{cond} = 1.79$ S/m; $\text{perm} = 40.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10.00 mm

Test Date: 06/06/2022; Ambient Temp: 21.5°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN3837; ConvF:(7.21,7.21,7.21); Calibrated: 2022-01-19

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

Electronics: DAE4 Sn793; Calibrated: 2022-01-13

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

Measurement SW: DASY Module SAR V16.0.2.136

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) = 10.5 W/kg

SAR(10 g) = 2.39 W/kg

Deviation (10 g) = -6.27%

