

**APPENDIX B: SAR DIPOLE VERIFICATION PLOTS**

# ELEMENT

**DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN750**

Communication System: UID: 0, CW; Frequency: 2450.0 MHz  
Medium: 2450 Body; Medium parameters used:  
f = 2450.0 MHz; cond = 1.99 S/m; perm = 51.0; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 04/24/2023; Ambient Temp: 20.9°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7639; ConvF:(8.78,8.78,8.78); Calibrated: 2022-11-14  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1646; Calibrated: 2022-11-10  
Phantom: Twin-SAM V8.0; Serial: 1936  
Measurement SW: DASY Module SAR V16.2.0.1425

## 2450 MHz System Verification at 20 dBm (100 mW)

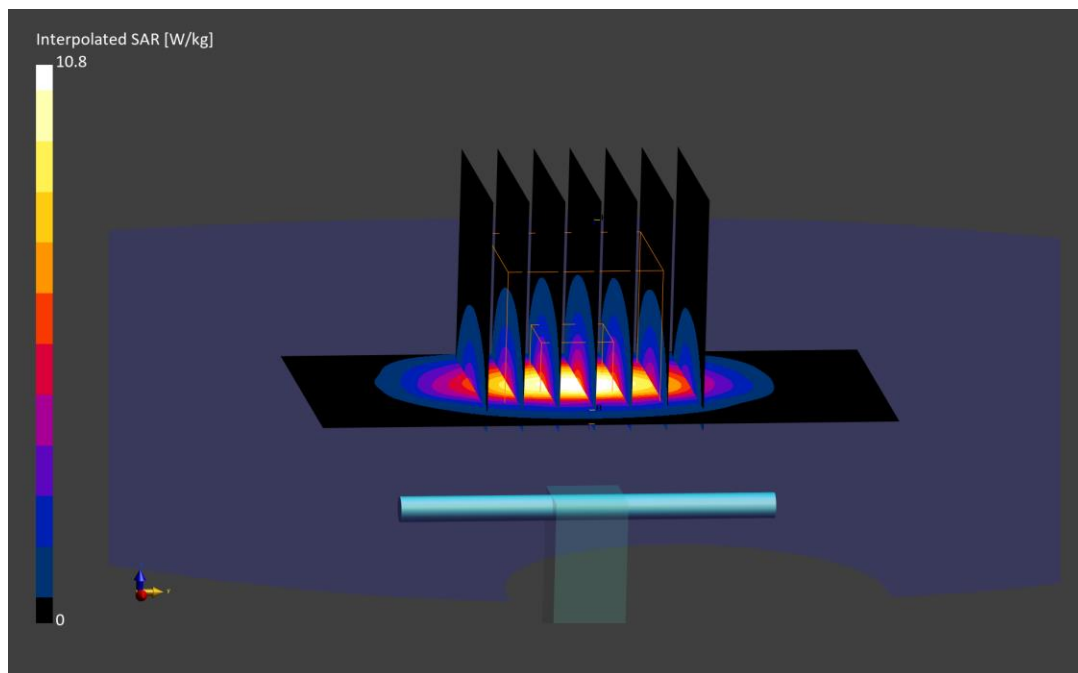
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 10.8 W/kg

**SAR(1 g) = 5.11 W/kg; SAR(10 g) = 2.33 W/kg**

Deviation (1 g) = 1.19%; Deviation (10 g) = -2.51%;



# ELEMENT

**DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN750**

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

Medium: 2450 Body; Medium parameters used:

f = 2450.0 MHz; cond = 2.04 S/m; perm = 50.7; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 04/27/2023; Ambient Temp: 22.2°C; Tissue Temp: 23.4°C

Probe: EX3DV4 - SN7639; ConvF:(8.78,8.78,8.78); Calibrated: 2022-11-14

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

Electronics: DAE4 Sn1646; Calibrated: 2022-11-10

Phantom: Twin-SAM V8.0; Serial: 1936

Measurement SW: DASY Module SAR V16.2.0.1425

## 2450 MHz System Verification at 20 dBm (100 mW)

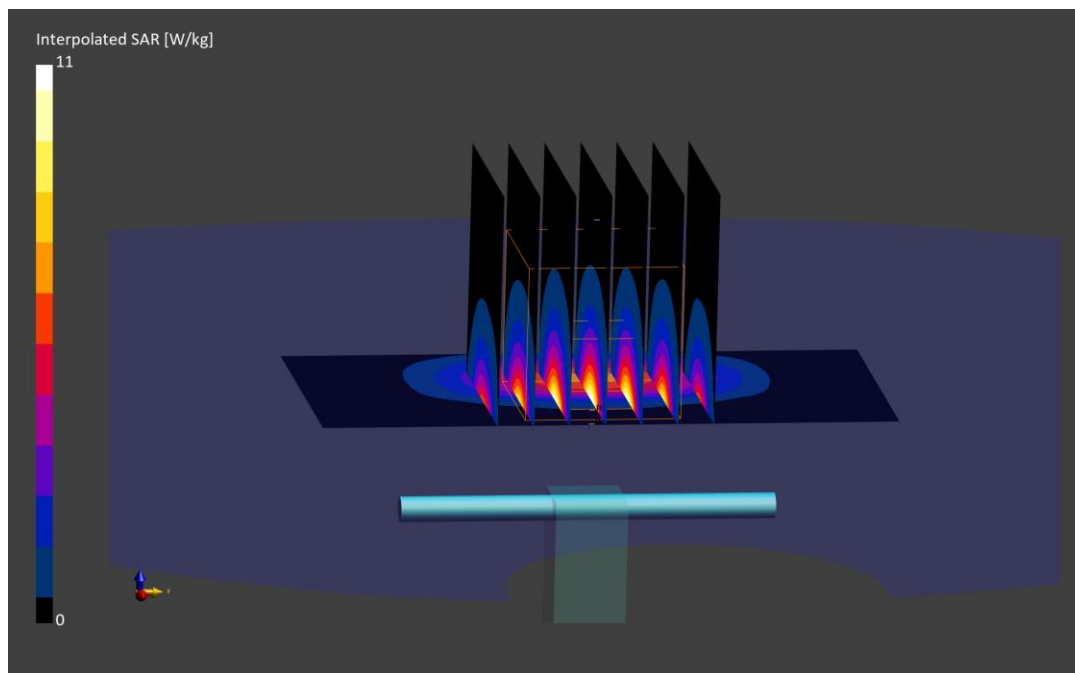
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 11.0 W/kg

**SAR(1 g) = 5.29 W/kg; SAR(10 g) = 2.44 W/kg**

Deviation (1 g) = 4.75%; Deviation (10 g) = 2.09%;



# ELEMENT

**DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN921**

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 = 51.2; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 05/12/2023; Ambient Temp: 23.9°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7420; ConvF:(7.47,7.47,7.47); Calibrated: 2022-10-20  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1333; Calibrated: 2022-10-13  
Phantom: Twin-SAM V8.0; Serial: 1736  
Measurement SW: DASY Module SAR V16.2.0.1425

## 2450 MHz System Verification at 20 dBm (100 mW)

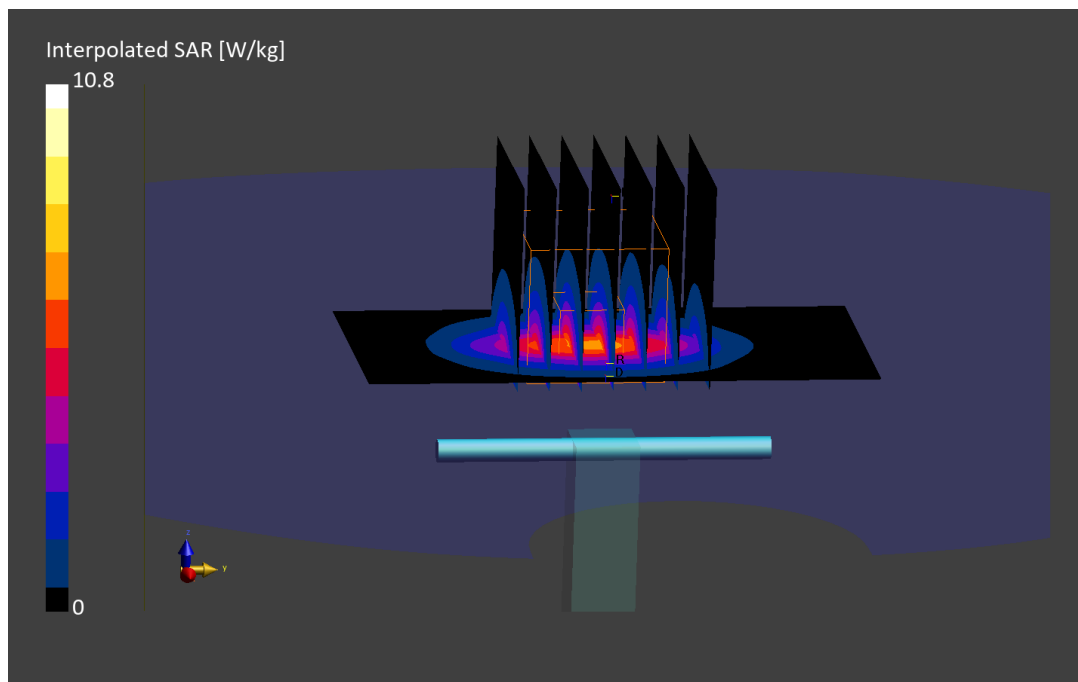
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 10.8 W/kg

**SAR(1 g) = 5.10 W/kg; SAR(10 g) = 2.32 W/kg**

Deviation (1 g) = 2.62%; Deviation (10 g) = -1.69%



# ELEMENT

**DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN921**

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 = 51.4; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 05/15/2023; Ambient Temp: 22.0°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7420; ConvF:(7.47,7.47,7.47); Calibrated: 2022-10-20  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1333; Calibrated: 2022-10-13  
Phantom: Twin-SAM V8.0; Serial: 1736  
Measurement SW: DASY Module SAR V16.2.0.1425

## 2450 MHz System Verification at 20 dBm (100 mW)

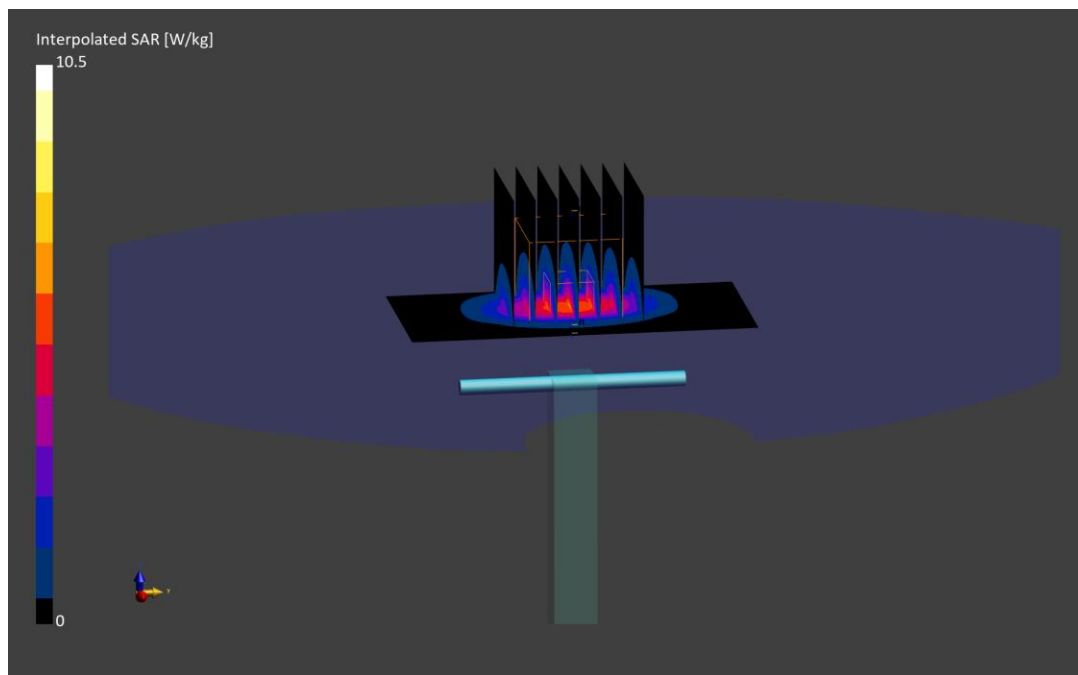
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 10.5 W/kg

**SAR(1 g) = 4.99 W/kg; SAR(10 g) = 2.27 W/kg**

Deviation (1 g) = 0.40%; Deviation (10 g) = -3.81%



# ELEMENT

**DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1123**

Communication System: UID: 0, CW; Frequency: 5250.0 MHz  
Medium: 5200-5800 Body; Medium parameters used:  
f = 5250.0 MHz; cond = 5.22 S/m; perm = 48.1; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 05/08/2023; Ambient Temp: 21.1°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7421; ConvF:(4.9,4.9,4.9); Calibrated: 2023-03-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn604; Calibrated: 2023-03-15  
Phantom: Twin-SAM V8.0; Serial: 2070  
Measurement SW: DASY Module SAR V16.2.0.1425

## 5250 MHz System Verification at 17 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) = 13.5 W/kg

**SAR(1 g) = 3.69 W/kg; SAR(10 g) = 1.06 W/kg**

Deviation (1 g) = -2.12%; Deviation (10 g) = 1.92%;



# ELEMENT

**DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1237**

Communication System: UID: 0, CW; Frequency: 5250.0 MHz  
Medium: 5200-5800 Body; Medium parameters used:  
f = 5250.0 MHz; cond = 5.45 S/m; perm = 47.1; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 05/12/2023; Ambient Temp: 21.2°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7565; ConvF:(4.51,4.51,4.51); Calibrated: 2023-01-12  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1466; Calibrated: 2023-01-20  
Phantom: Twin-SAM V5.0; Serial: 1868  
Measurement SW: DASY Module SAR V16.2.0.1425

## 5250 MHz System Verification at 17 dBm (50 mW)

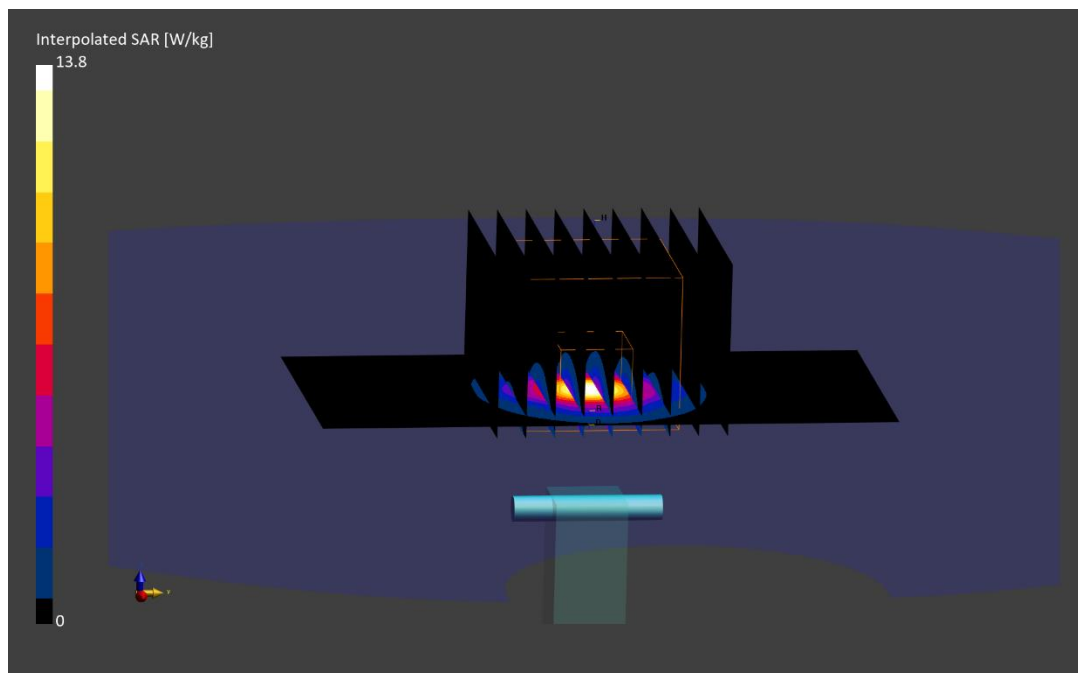
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 13.8 W/kg

**SAR(1 g) = 3.54 W/kg; SAR(10 g) = 0.990 W/kg**

Deviation (1 g) = -4.19%; Deviation (10 g) = -3.88%;



# ELEMENT

**DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1123**

Communication System: UID: 0, CW; Frequency: 5600.0 MHz  
Medium: 5200-5800 Body; Medium parameters used:  
f = 5600.0 MHz; cond = 5.72 S/m; perm = 47.4; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 05/08/2023; Ambient Temp: 21.1 °C; Tissue Temp: 21.0 °C

Probe: EX3DV4 - SN7421; ConvF:(4.3,4.3,4.3); Calibrated: 2023-03-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn604; Calibrated: 2023-03-15  
Phantom: Twin-SAM V8.0; Serial: 2070  
Measurement SW: DASY Module SAR V16.2.0.1425

## 5600 MHz System Verification at 17 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) = 15.9 W/kg

**SAR(1 g) = 4.04 W/kg; SAR(10 g) = 1.15 W/kg**

Deviation (1 g) = 3.86%; Deviation (10 g) = 7.48%;





# ELEMENT

**DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1237**

Communication System: UID: 0, CW; Frequency: 5600.0 MHz  
Medium: 5200-5800 Body; Medium parameters used:  
f = 5600.0 MHz; cond = 5.97 S/m; perm = 46.4; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 05/12/2023; Ambient Temp: 21.2°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7565; ConvF:(3.94,3.94,3.94); Calibrated: 2023-01-12  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1466; Calibrated: 2023-01-20  
Phantom: Twin-SAM V5.0; Serial: 1868  
Measurement SW: DASY Module SAR V16.2.0.1425

## 5600 MHz System Verification at 17 dBm (50 mW)

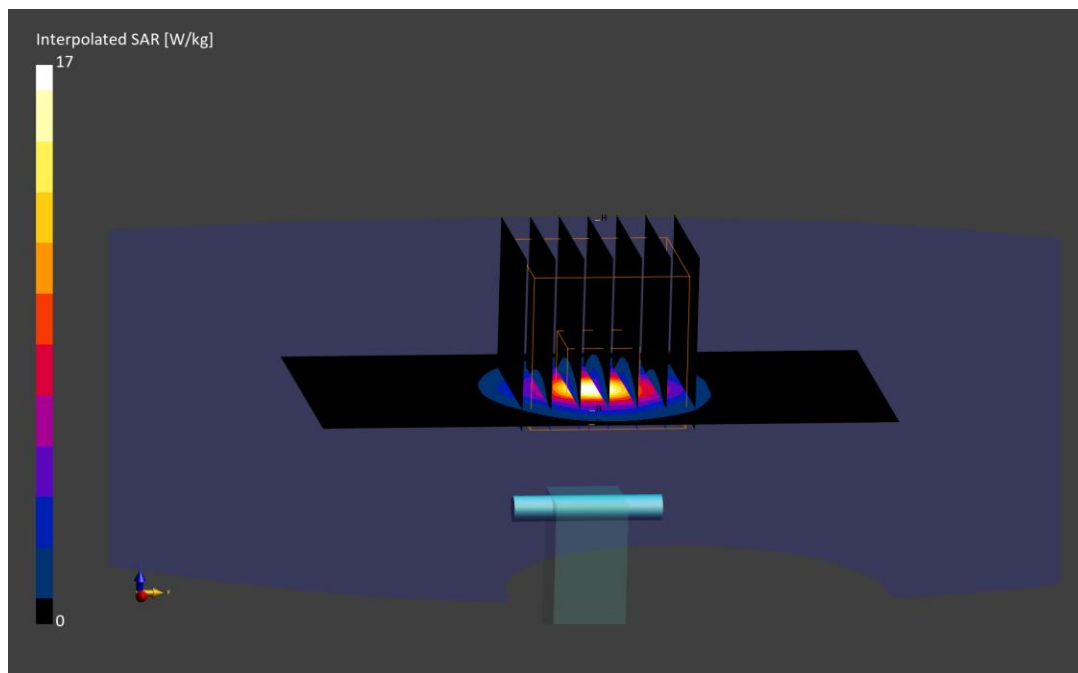
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 4.01 W/kg; SAR(10 g) = 1.10 W/kg**

Deviation (1 g) = 2.56%; Deviation (10 g) = 0.46%;



# ELEMENT

**DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1123**

Communication System: UID: 0, CW; Frequency: 5750.0 MHz  
Medium: 5200-5800 Body; Medium parameters used:  
f = 5750.0 MHz; cond = 5.94 S/m; perm = 47.1; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 05/08/2023; Ambient Temp: 21.1 °C; Tissue Temp: 21.0 °C

Probe: EX3DV4 - SN7421; ConvF:(4.43,4.43,4.43); Calibrated: 2023-03-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn604; Calibrated: 2023-03-15  
Phantom: Twin-SAM V8.0; Serial: 2070  
Measurement SW: DASY Module SAR V16.2.0.1425

## 5750 MHz System Verification at 17 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) = 15.4 W/kg

**SAR(1 g) = 3.78 W/kg; SAR(10 g) = 1.08 W/kg**

Deviation (1 g) = 0.40%; Deviation (10 g) = 4.35%;



# ELEMENT

**DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1237**

Communication System: UID: 0, CW; Frequency: 5750.0 MHz  
Medium: 5200-5800 Body; Medium parameters used:  
f = 5750.0 MHz; cond = 6.18 S/m; perm = 46.1; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 05/12/2023; Ambient Temp: 21.2°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7565; ConvF:(3.97,3.97,3.97); Calibrated: 2023-01-12  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1466; Calibrated: 2023-01-20  
Phantom: Twin-SAM V5.0; Serial: 1868  
Measurement SW: DASY Module SAR V16.2.0.1425

## 5750 MHz System Verification at 17 dBm (50 mW)

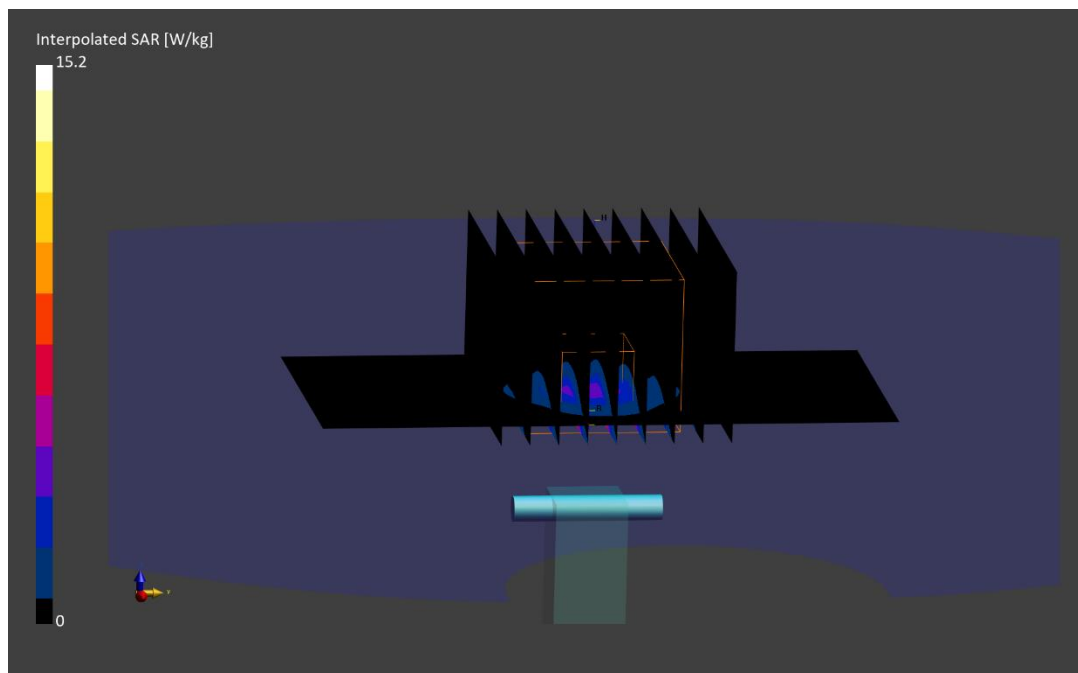
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 15.2 W/kg

**SAR(1 g) = 3.47 W/kg; SAR(10 g) = 0.972 W/kg**

Deviation (1 g) = -7.22%; Deviation (10 g) = -6.09%;



# ELEMENT

**DUT: Dipole 5800.0 MHz; Type: D5GHzV2 - SN1123**

Communication System: UID: 0, CW; Frequency: 5800.0 MHz  
Medium: 5200-5800 Body; Medium parameters used:  
f = 5800.0 MHz; cond = 6.02 S/m; perm = 46.9; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 05/08/2023; Ambient Temp: 21.1 °C; Tissue Temp: 21.0 °C

Probe: EX3DV4 - SN7421; ConvF:(4.25,4.25,4.25); Calibrated: 2023-03-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn604; Calibrated: 2023-03-15  
Phantom: Twin-SAM V8.0; Serial: 2070  
Measurement SW: DASY Module SAR V16.2.0.1425

## 5800 MHz System Verification at 17 dBm (50 mW)

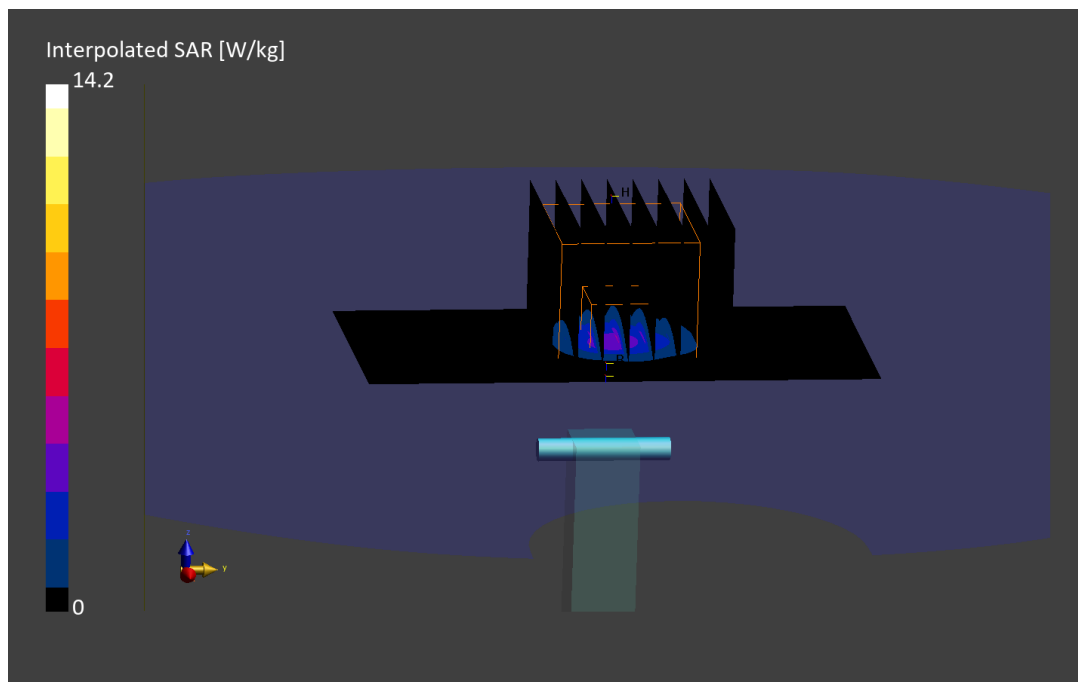
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 14.2 W/kg

**SAR(1 g) = 3.45 W/kg; SAR(10 g) = 0.974 W/kg**

Deviation (1 g) = -7.13%; Deviation (10 g) = -3.56%



# ELEMENT

**DUT: Dipole 5800.0 MHz; Type: D5GHzV2 - SN1237**

Communication System: UID: 0, CW; Frequency: 5800.0 MHz  
Medium: 5200-5800 Body; Medium parameters used:  
f = 5800.0 MHz; cond = 6.27 S/m; perm = 45.9; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 05/12/2023; Ambient Temp: 21.2°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7565; ConvF:(3.97,3.97,3.97); Calibrated: 2023-01-12  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1466; Calibrated: 2023-01-20  
Phantom: Twin-SAM V5.0; Serial: 1868  
Measurement SW: DASY Module SAR V16.2.0.1425

## 5800 MHz System Verification at 17 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) = 3.44 W/kg; SAR(10 g) = 0.950 W/kg**

Deviation (1 g) = -5.88%; Deviation (10 g) = -5.94%;

