

## APPENDIX B: SAR DIPOLE VERIFICATION PLOTS

# ELEMENT

**DUT: Dipole 13.000 MHz; Type: CLA-13 - SN1004**

Communication System: UID: 0, CW; Frequency: 13.000 MHz  
Medium: 30 Head; Medium parameters used:  
f = 13.000 MHz; cond = 0.717 S/m; perm = 53.4; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 0 mm

Test Date: 10/02/2024; Ambient Temp: 21.5°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN7308; ConvF:(16.59,16.59,16.59); 2024-02-09  
Sensor-Surface: 1.4mm (All points)  
Electronics: DAE4 Sn534; 2024-03-06  
Phantom: ELI V6.0; Serial: 2003  
Measurement SW: DASY Module SAR V16.4.0.5005

## 13.0 MHz System Verification at 30.0 dBm (1000 mW)

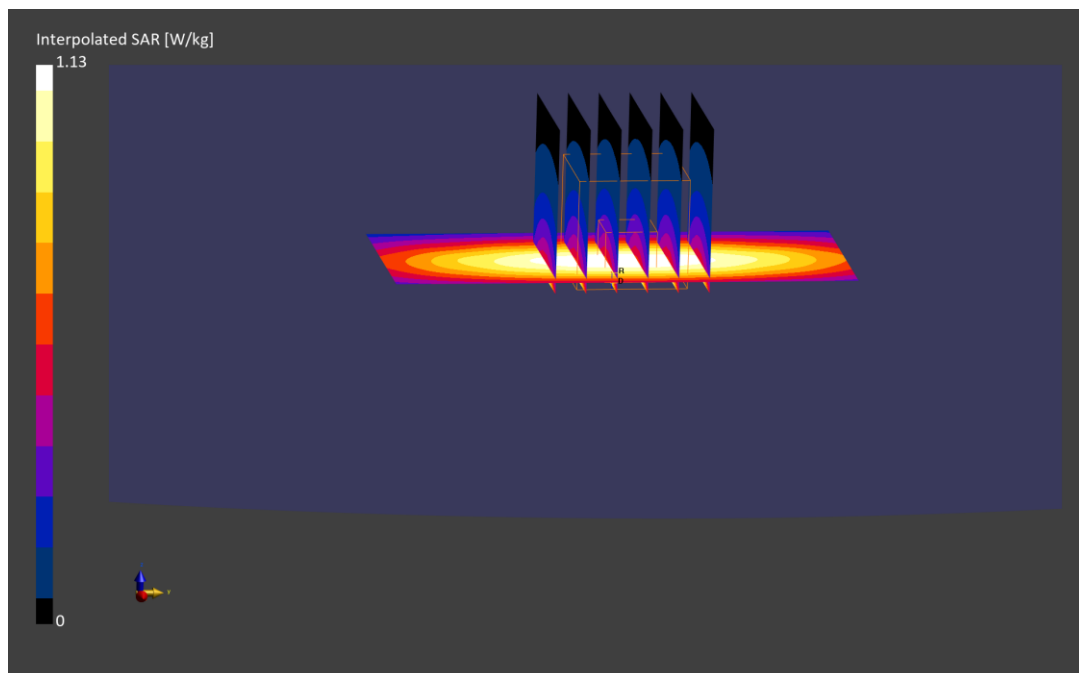
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 1.13 W/kg

**SAR(1 g) = 0.542 W/kg; SAR(10 g) = 0.334 W/kg**

Deviation (1 g) = -6.23%; Deviation (10 g) = -6.18%



# ELEMENT

**DUT: Dipole 750.000 MHz; Type: D750V3 - SN1097**

Communication System: UID: 0, CW; Frequency: 750.000 MHz  
Medium: 750 Head; Medium parameters used:  
 $f = 750.000$  MHz;  $\text{cond} = 0.896$  S/m;  $\text{perm} = 42.0$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 15 mm

Test Date: 09/16/2024; Ambient Temp: 20.5°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7427; ConvF:(8.35,9.19,9.73); 2024-02-09  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn467; 2024-02-09  
Phantom: Twin-SAM V8.0; Serial: 2070  
Measurement SW: DASY Module SAR V16.4.0.5005

## 750.0 MHz System Verification at 23.0 dBm (200 mW)

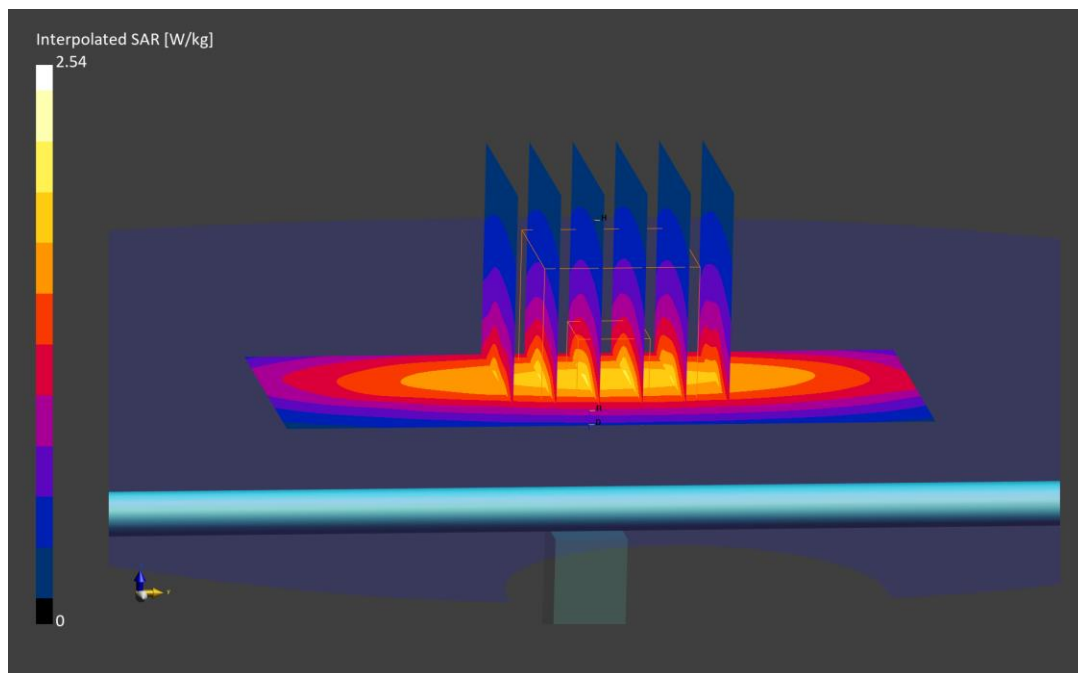
**Area Scan (40.0 x 90.0):** Measurement grid:  $dx=10.0$  mm,  $dy=15.0$  mm

**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) = 2.54 W/kg

**SAR(1 g) = 1.72 W/kg; SAR(10 g) = 1.14 W/kg**

Deviation (1 g) = 3.99%; Deviation (10 g) = 5.95%



# ELEMENT

**DUT: Dipole 750.000 MHz; Type: D750V3 - SN1097**

Communication System: UID: 0, CW; Frequency: 750.000 MHz  
Medium: 750 Head; Medium parameters used:  
f = 750.000 MHz; cond = 0.900 S/m; perm = 40.3; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 15 mm

Test Date: 09/18/2024; Ambient Temp: 22.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7357; ConvF:(9.44,8.27,10.55); 2024-04-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1582; 2024-04-09  
Phantom: Twin-SAM V8.0; Serial: 2034  
Measurement SW: DASY Module SAR V16.4.0.5005

## 750.0 MHz System Verification at 23.0 dBm (200 mW)

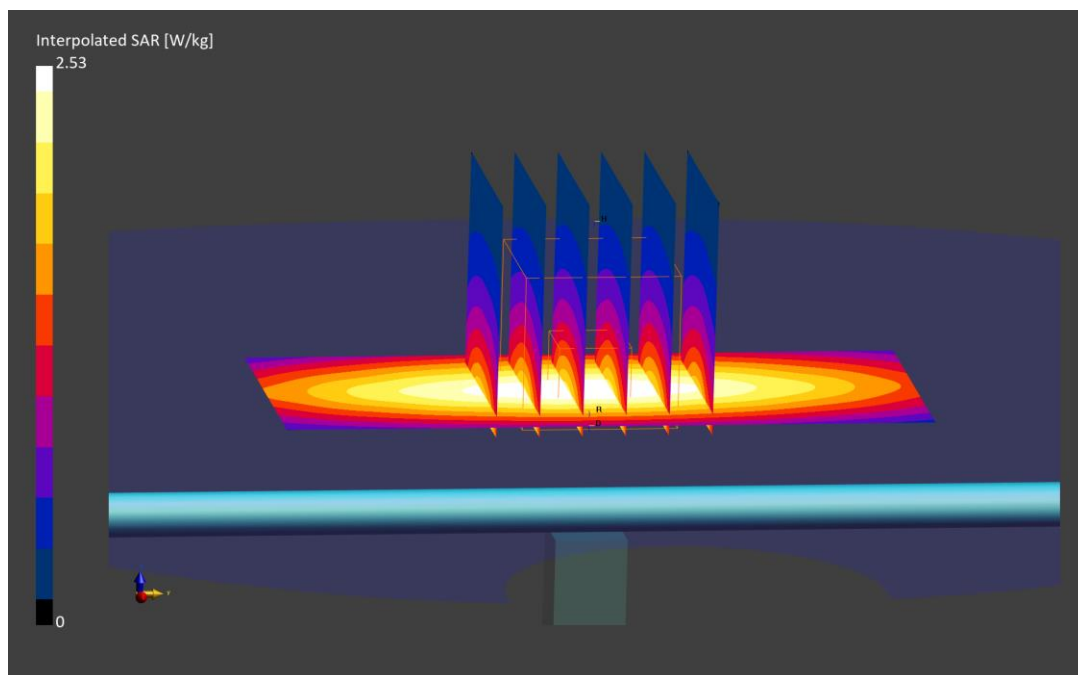
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 2.53 W/kg

**SAR(1 g) = 1.73 W/kg; SAR(10 g) = 1.16 W/kg**

Deviation (1 g) = 4.59%; Deviation (10 g) = 7.81%



# ELEMENT

**DUT: Dipole 750.000 MHz; Type: D750V3 - SN1097**

Communication System: UID: 0, CW; Frequency: 750.000 MHz  
Medium: 750 Head; Medium parameters used:  
f = 750.000 MHz; cond = 0.881 S/m; perm = 42.4; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 15 mm

Test Date: 09/30/2024; Ambient Temp: 22.5°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7357; ConvF:(9.44,8.27,10.55); 2024-04-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1582; 2024-04-09  
Phantom: Twin-SAM V8.0; Serial: 2034  
Measurement SW: DASY Module SAR V16.4.0.5005

## 750.0 MHz System Verification at 23.0 dBm (200 mW)

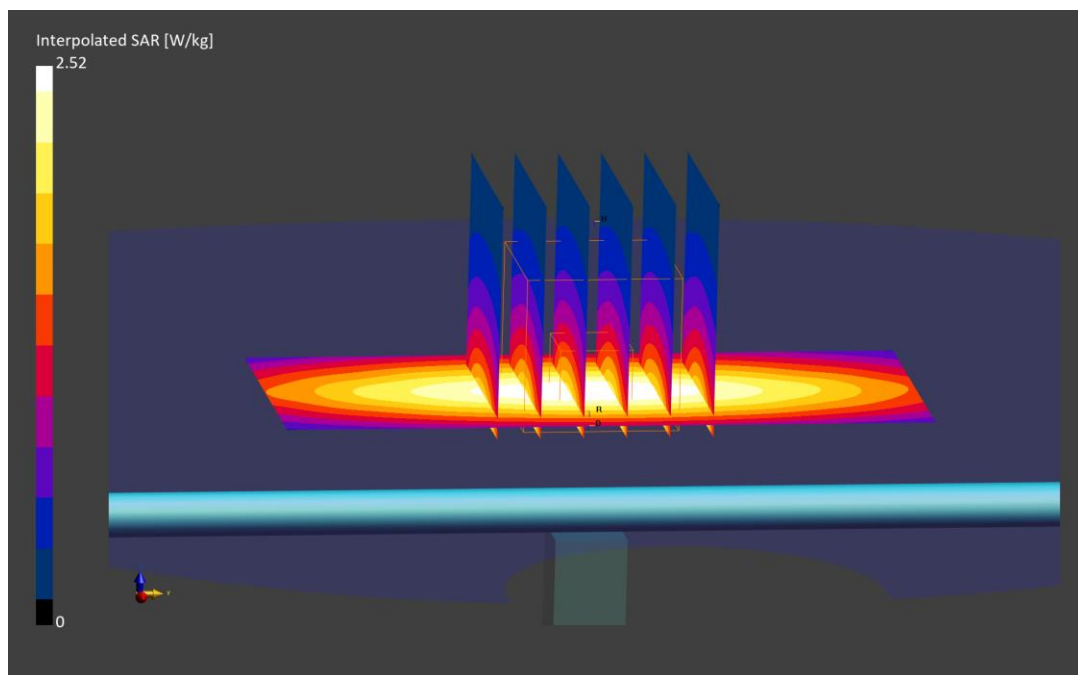
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 2.52 W/kg

**SAR(1 g) = 1.73 W/kg; SAR(10 g) = 1.15 W/kg**

Deviation (1 g) = 4.59%; Deviation (10 g) = 6.88%



# ELEMENT

**DUT: Dipole 835.000 MHz; Type: D835V2 - SN4d132**

Communication System: UID: 0, CW; Frequency: 835.000 MHz  
Medium: 835 Head; Medium parameters used:  
 $f = 835.000$  MHz;  $\text{cond} = 0.932$  S/m;  $\text{perm} = 42.1$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 15 mm

Test Date: 09/08/2024; Ambient Temp: 23.9°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7406; ConvF:(9.29,8.78,9.79); 2024-07-05  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1677; 2024-07-08  
Phantom: Twin-SAM V5.0; Serial: 1800  
Measurement SW: DASY Module SAR V16.4.0.5005

## 835.0 MHz System Verification at 23.0 dBm (200 mW)

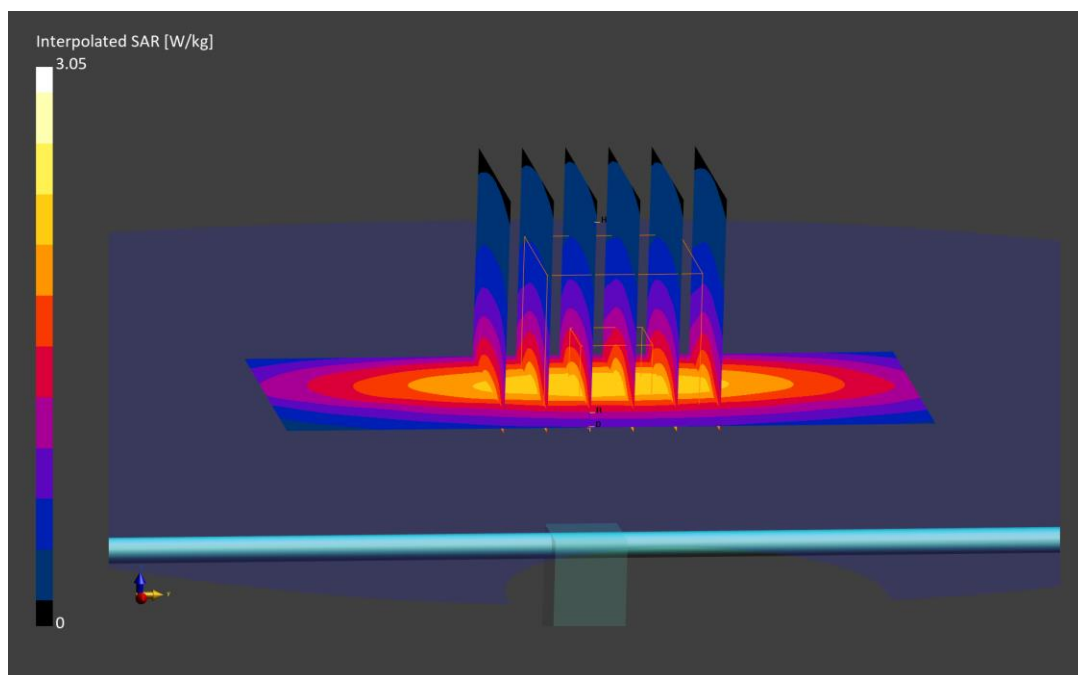
**Area Scan (40.0 x 90.0):** Measurement grid:  $dx=10.0$  mm,  $dy=15.0$  mm

**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) = 3.05 W/kg

**SAR(1 g) = 1.97 W/kg; SAR(10 g) = 1.28 W/kg**

Deviation (1 g) = 0.10%; Deviation (10 g) = 0.00%



# ELEMENT

**DUT: Dipole 835.000 MHz; Type: D835V2 - SN4d132**

Communication System: UID: 0, CW; Frequency: 835.000 MHz  
Medium: 835 Head; Medium parameters used:  
 $f = 835.000$  MHz;  $\text{cond} = 0.944$  S/m;  $\text{perm} = 39.8$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 15 mm

Test Date: 09/11/2024; Ambient Temp: 24.0°C; Tissue Temp: 22.7°C

Probe: EX3DV4 - SN7406; ConvF:(9.29,8.78,9.79); 2024-07-05  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1677; 2024-07-08  
Phantom: Twin-SAM V5.0; Serial: 1800  
Measurement SW: DASY Module SAR V16.4.0.5005

## 835.0 MHz System Verification at 23.0 dBm (200 mW)

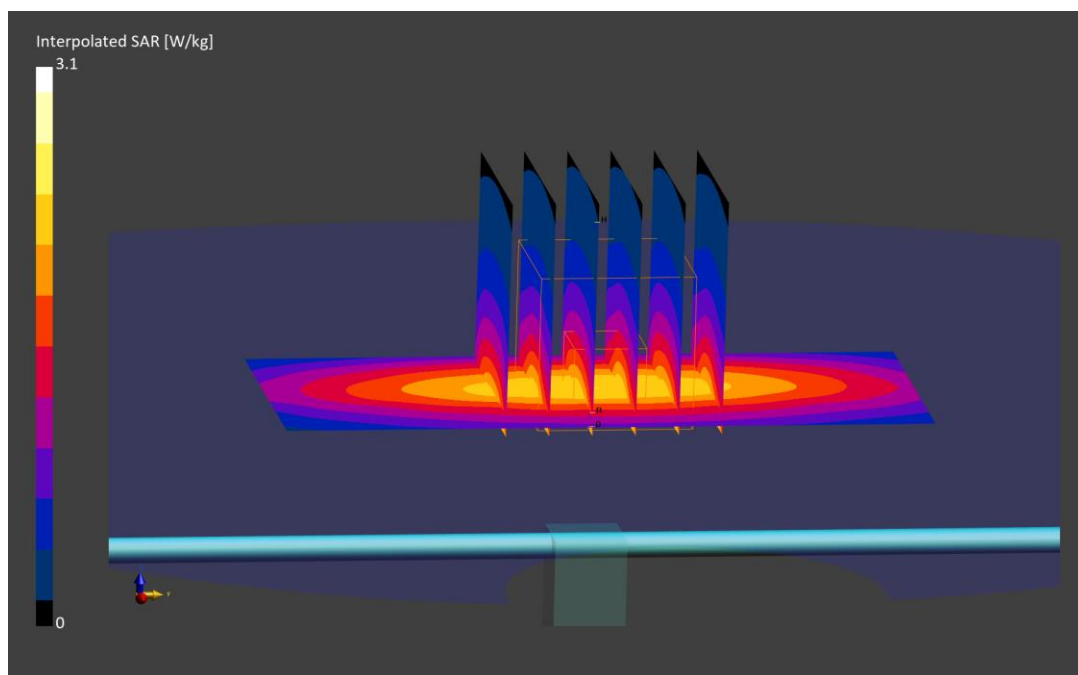
**Area Scan (40.0 x 90.0):** Measurement grid:  $dx=10.0$  mm,  $dy=15.0$  mm

**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) = 3.10 W/kg

**SAR(1 g) = 2.00 W/kg; SAR(10 g) = 1.30 W/kg**

Deviation (1 g) = 1.63%; Deviation (10 g) = 1.56%



# ELEMENT

**DUT: Dipole 835.000 MHz; Type: D835V2 - SN4d108**

Communication System: UID: 0, CW; Frequency: 835.000 MHz  
Medium: 835 Head; Medium parameters used:  
f = 835.000 MHz; cond = 0.931 S/m; perm = 40.1; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 15 mm

Test Date: 09/18/2024; Ambient Temp: 22.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7357; ConvF:(9.2,8.3,10.17); 2024-04-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1582; 2024-04-09  
Phantom: Twin-SAM V8.0; Serial: 2034  
Measurement SW: DASY Module SAR V16.4.0.5005

## 835.0 MHz System Verification at 23.0 dBm (200 mW)

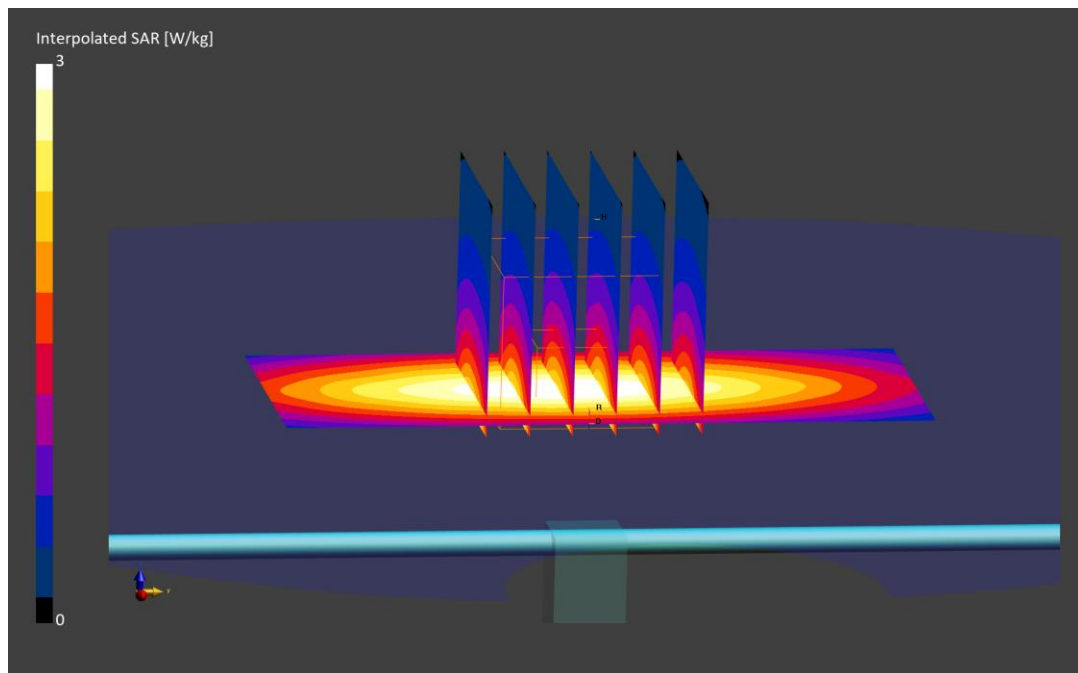
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 3.00 W/kg

**SAR(1 g) = 2.03 W/kg; SAR(10 g) = 1.34 W/kg**

Deviation (1 g) = 3.57%; Deviation (10 g) = 5.68%



# 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 = 43.4; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 15 mm

Test Date: 9/25/2024; Ambient Temp: 21.5°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7491; ConvF:(9.05,9.09,9.1); 2024-09-02  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1532; 2024-08-08  
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)

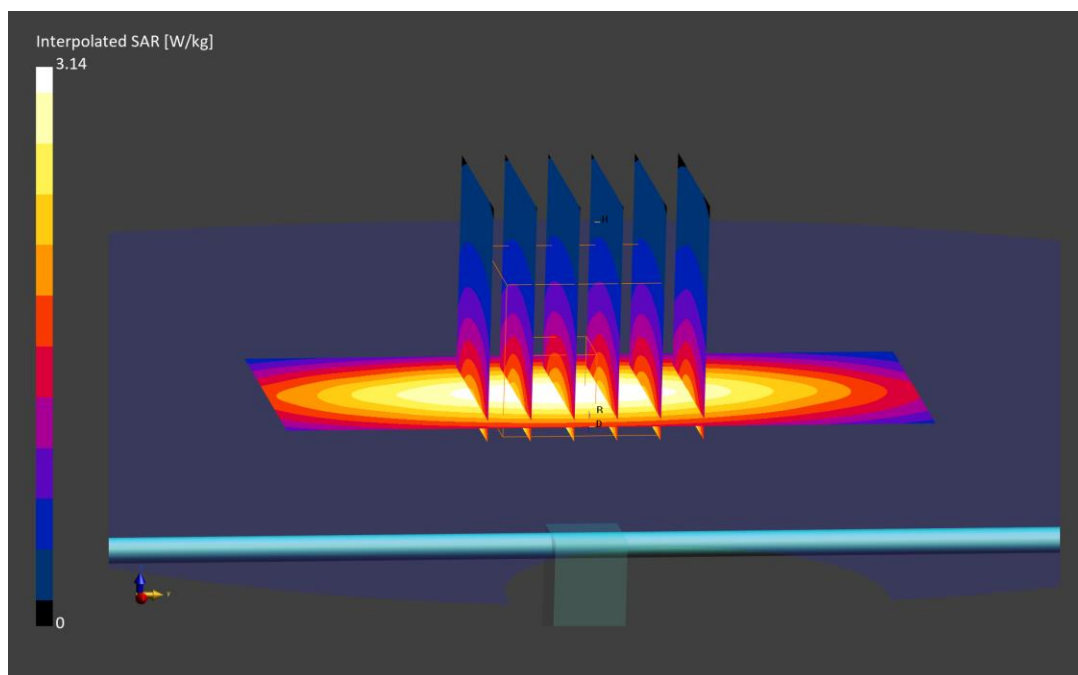
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 3.14 W/kg

**SAR(1 g) = 2.05 W/kg; SAR(10 g) = 1.35 W/kg**

Deviation (1 g) = 2.91%; Deviation (10 g) = 4.17%



# 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 = 0.894 S/m; perm = 43.2; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 15 mm

Test Date: 09/30/2024; Ambient Temp: 20.4°C; Tissue Temp: 20.4°C

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

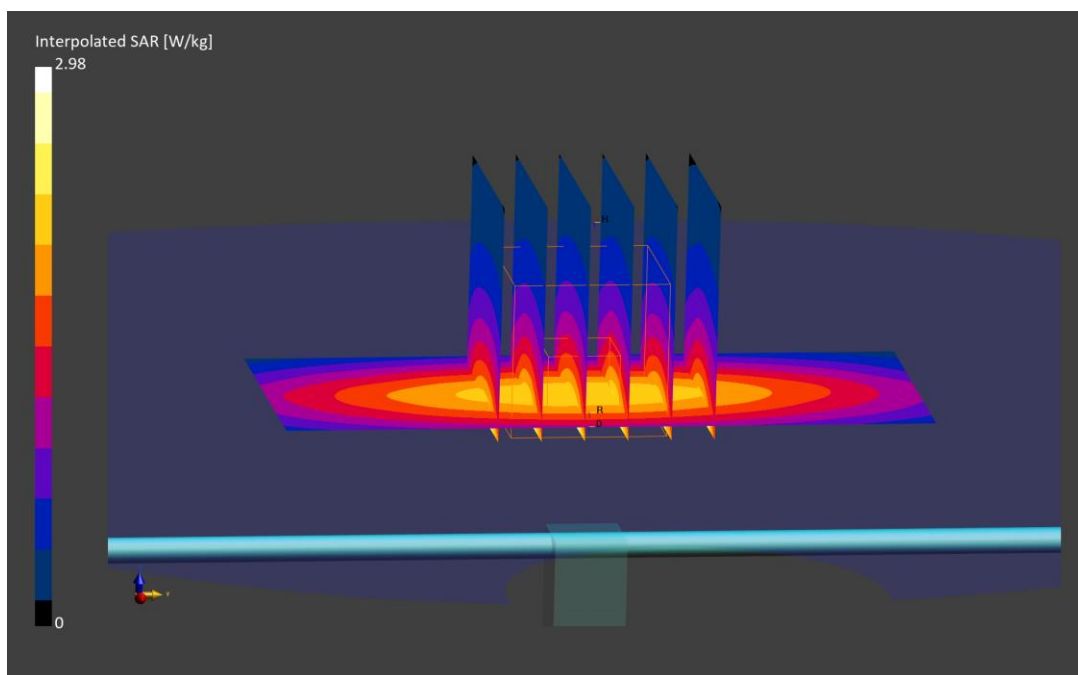
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 2.97 W/kg

**SAR(1 g) = 1.96 W/kg; SAR(10 g) = 1.30 W/kg**

Deviation (1 g) = -1.61%; Deviation (10 g) = 0.31%



# 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 = 0.882 S/m; perm = 40.4; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 15 mm

test Date: 10/30/2024; Ambient Temp: 21.9°C; Tissue Temp: 20.9°C

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

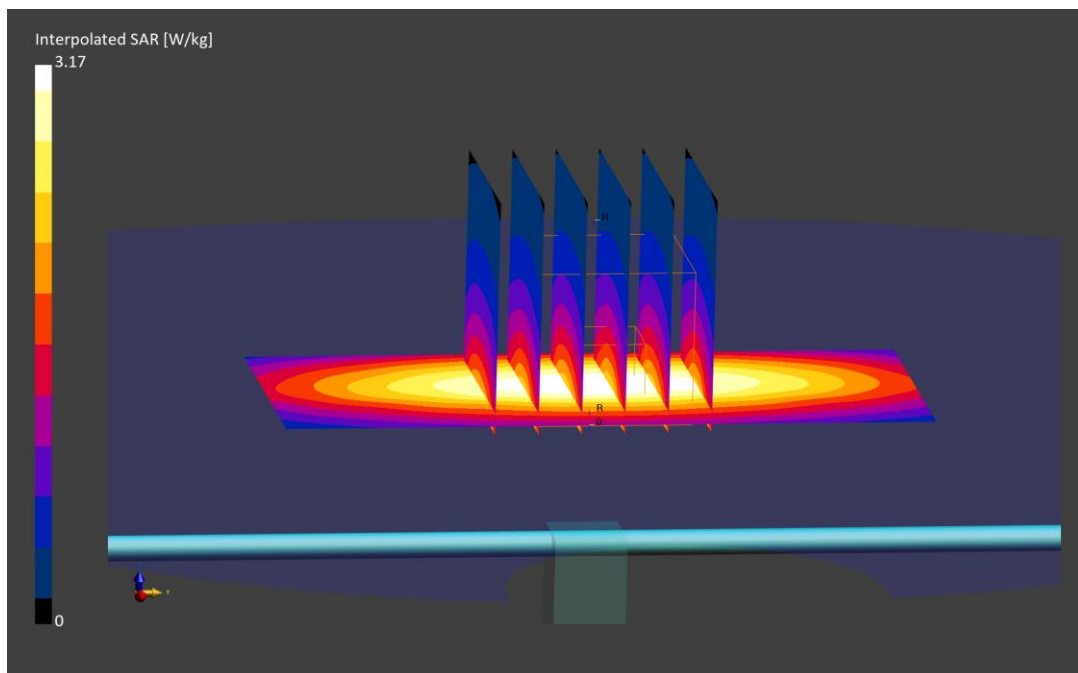
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 2.05 W/kg; SAR(10 g) = 1.35 W/kg**

Deviation (1 g) = 2.91%; Deviation (10 g) = 4.17%



# 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 = 1.36 S/m; perm = 38.3; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/05/2024; Ambient Temp: 23.4°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN7409; ConvF:(8.09,7.68,8.14); 2024-06-17  
Sensor-Surface: 1.4mm (All points)  
Electronics: DAE4 Sn1334; 2024-06-11  
Phantom: Twin-SAM V8.0; Serial: 2056  
Measurement SW: DASY Module SAR V16.4.0.5005

## 1750.0 MHz System Verification at 20.0 dBm (100 mW)

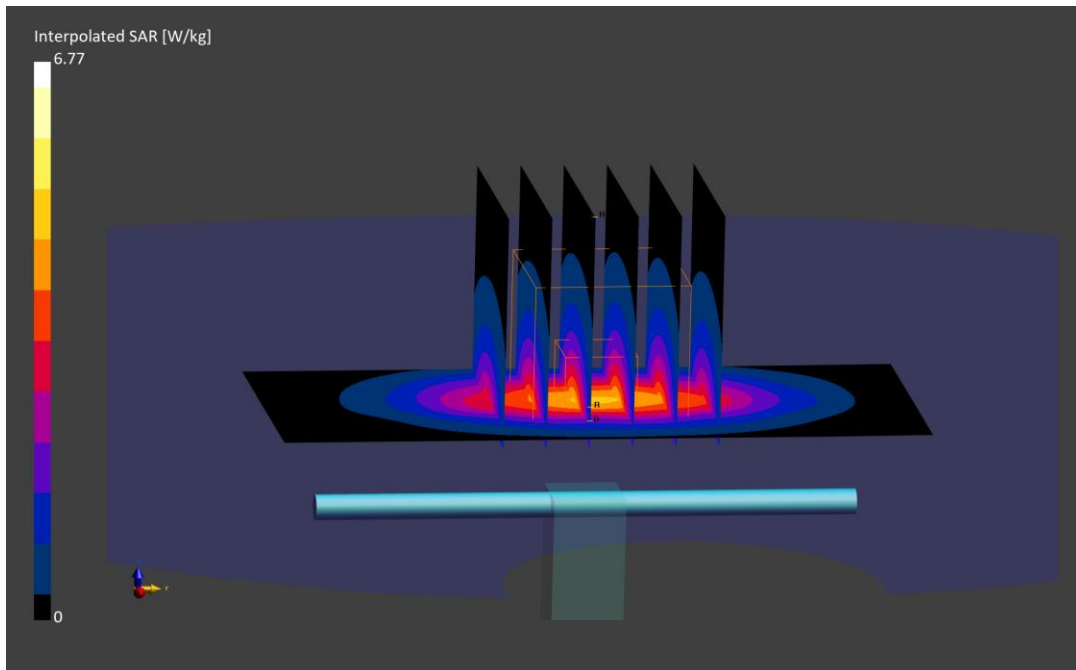
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 6.77 W/kg

**SAR(1 g) = 3.73 W/kg; SAR(10 g) = 2.00 W/kg**

Deviation (1 g) = 0.27%; Deviation (10 g) = 3.09%



# 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 = 1.34 S/m; perm = 41.1; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/08/2024; Ambient Temp: 23.3°C; Tissue Temp: 22.4°C

Probe: EX3DV4 - SN7803; ConvF:(7.77,7.94,8.07); 2024-06-28  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1583; 2024-07-08  
Phantom: Twin-SAM V8.0; Serial: 2065  
Measurement SW: DASY Module SAR V16.4.0.5005

## 1750.0 MHz System Verification at 20.0 dBm (100 mW)

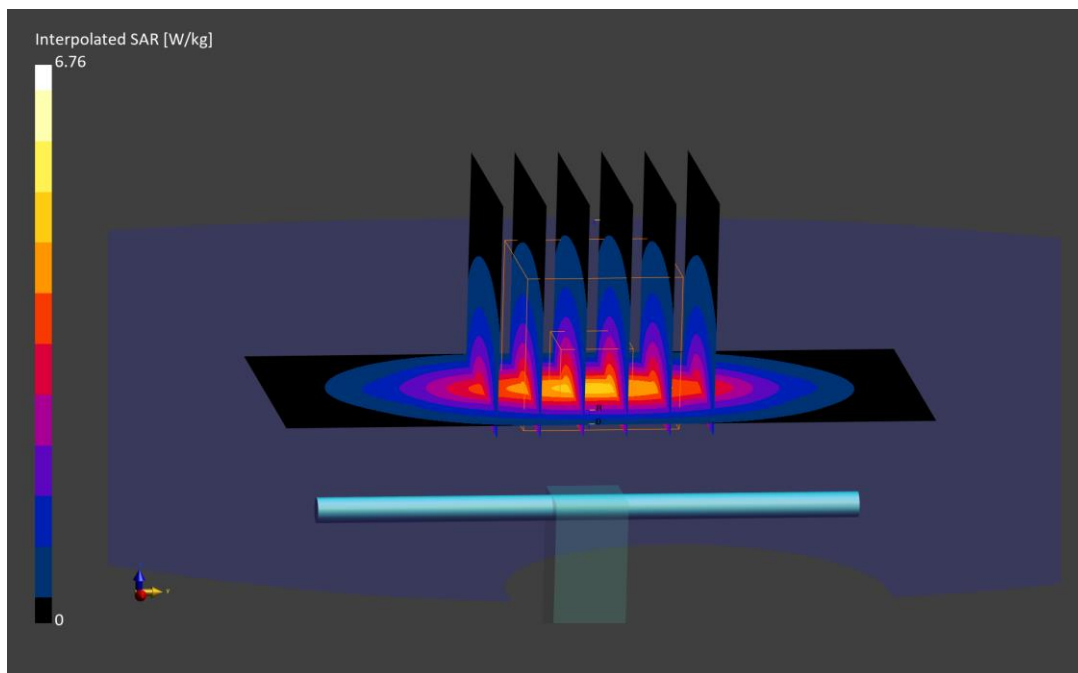
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 6.76 W/kg

**SAR(1 g) = 3.82 W/kg; SAR(10 g) = 2.08 W/kg**

Deviation (1 g) = 3.52%; Deviation (10 g) = 7.22%



# 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 = 1.33 S/m; perm = 39.1; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/09/2024; Ambient Temp: 24.70°C; Tissue Temp: 22.20°C

Probe: EX3DV4 - SN7409; ConvF:(8.09,7.68,8.14); 2024-06-17  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1334; 2024-06-11  
Phantom: Twin-SAM V8.0; Serial: 2056  
Measurement SW: DASY Module SAR V16.4.0.5005

## 1750.0 MHz System Verification at 20.0 dBm (100 mW)

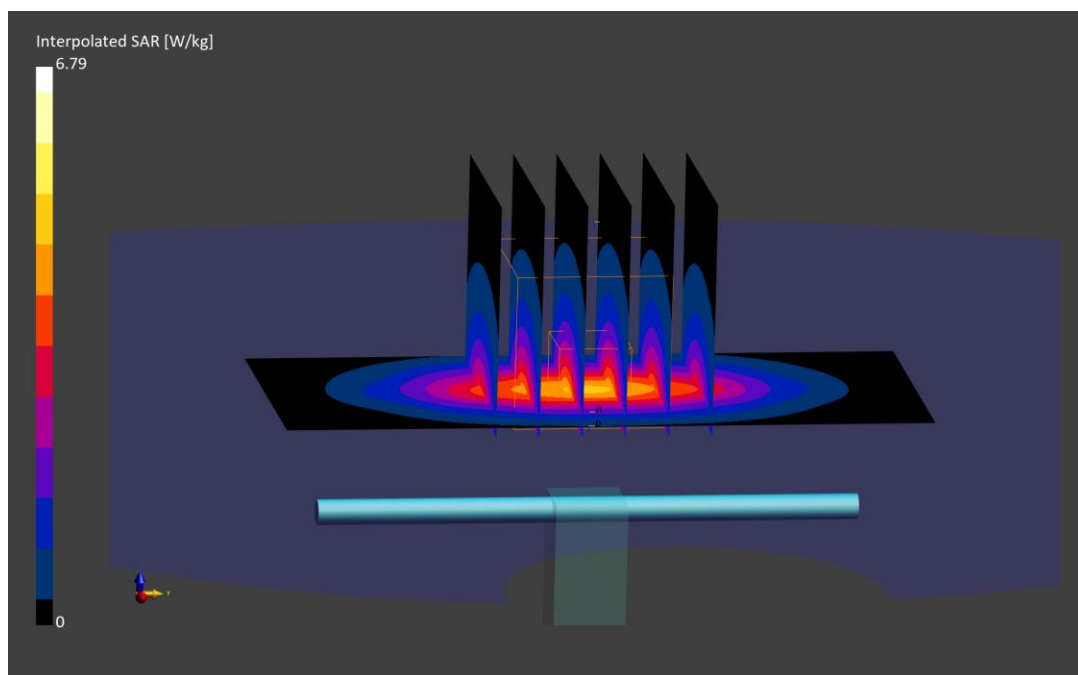
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 6.79 W/kg

**SAR(1 g) = 3.73 W/kg; SAR(10 g) = 2.00 W/kg**

Deviation (1 g) = 1.08%; Deviation (10 g) = 3.09%



# 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 = 40.0; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/09/2024; Ambient Temp: 22°C; Tissue Temp: 20.5°C

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

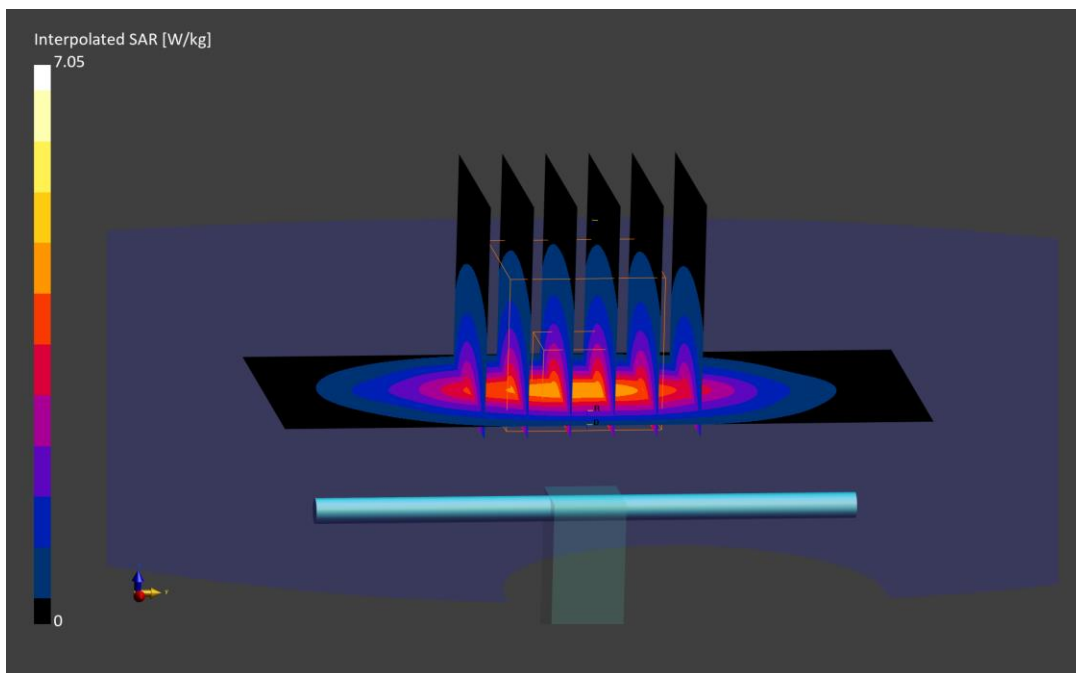
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 7.05 W/kg

**SAR(1 g) = 3.80 W/kg; SAR(10 g) = 2.04 W/kg**

Deviation (1 g) = 2.98%; Deviation (10 g) = 5.15%



# ELEMENT

**DUT: Dipole 1750.000 MHz; Type: D1750V2 - SN1051**

Communication System: UID: 0, CW; Frequency: 1750.000 MHz  
Medium: 1750 Head; Medium parameters used:  
f = 1750.000 MHz; cond = 1.34 S/m; perm = 39.8; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/30/2024; Ambient Temp: 21.7°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7565; ConvF:(8.65,7.49,7.3); 2024-01-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1466; 2024-01-16  
Phantom: Twin-SAM V5.0 ; Serial: 1868  
Measurement SW: DASY Module SAR V16.4.0.5005

## 1750.0 MHz System Verification at 20.0 dBm (100 mW)

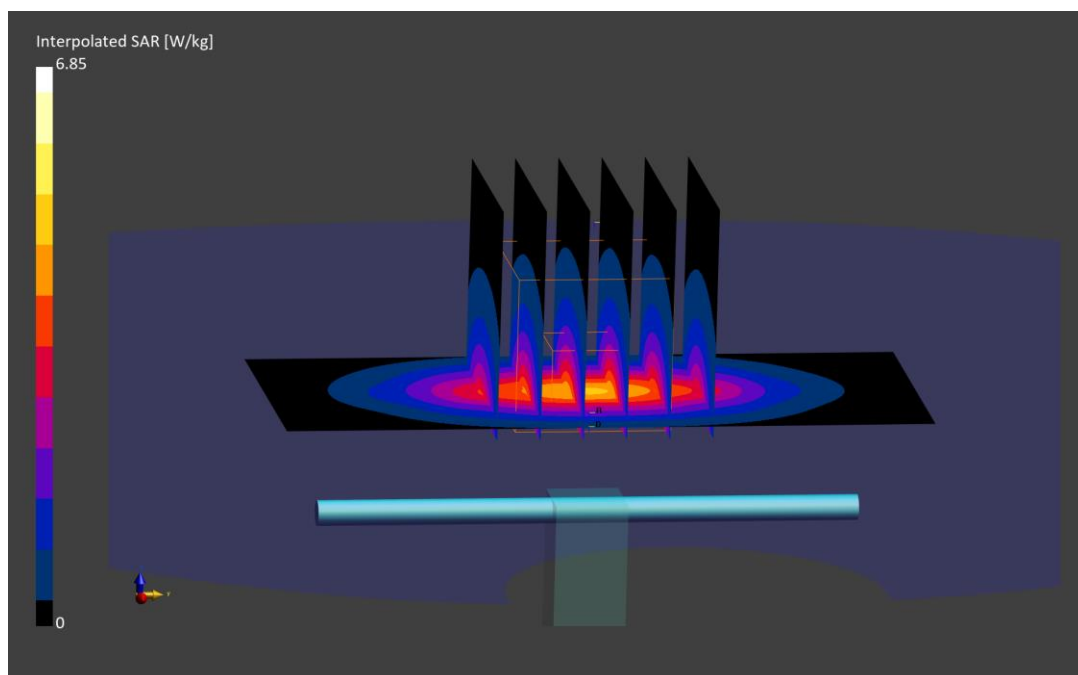
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 6.85 W/kg

**SAR(1 g) = 3.69 W/kg; SAR(10 g) = 1.96 W/kg**

Deviation (1 g) = -0.27%; Deviation (10 g) = 0.51%



# 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 = 1.45 S/m; perm = 38.1; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/05/2024; Ambient Temp: 23.4°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN7409; ConvF:(7.72,7.32,7.76); 2024-06-17  
Sensor-Surface: 1.4mm (All points)  
Electronics: DAE4 Sn1334; 2024-06-11  
Phantom: Twin-SAM V8.0; Serial: 2056  
Measurement SW: DASY Module SAR V16.4.0.5005

## 1900.0 MHz System Verification at 20.0 dBm (100 mW)

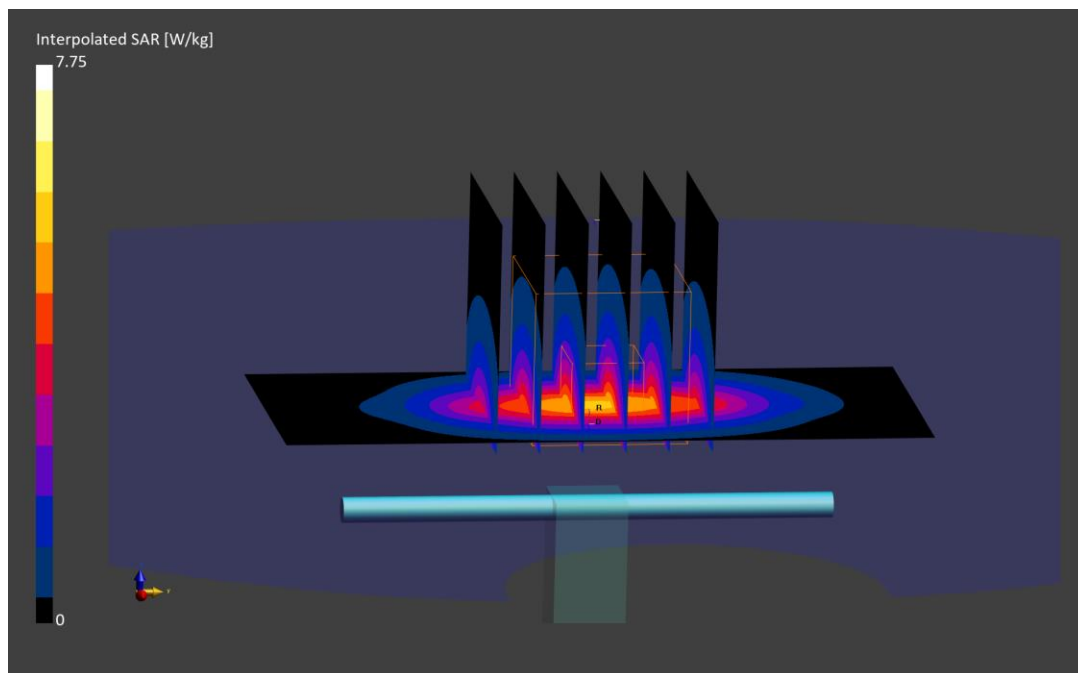
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 7.75 W/kg

**SAR(1 g) = 4.23 W/kg; SAR(10 g) = 2.21 W/kg**

Deviation (1 g) = 6.82%; Deviation (10 g) = 6.76%



# 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 = 1.43 S/m; perm = 40.8; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/08/2024; Ambient Temp: 23.4°C; Tissue Temp: 22.4°C

Probe: EX3DV4 - SN7803; ConvF:(7.55,7.72,7.85); 2024-06-28  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1583; 2024-07-08  
Phantom: Twin-SAM V8.0; Serial: 2065  
Measurement SW: DASY Module SAR V16.4.0.5005

## 1900.0 MHz System Verification at 20.0 dBm (100 mW)

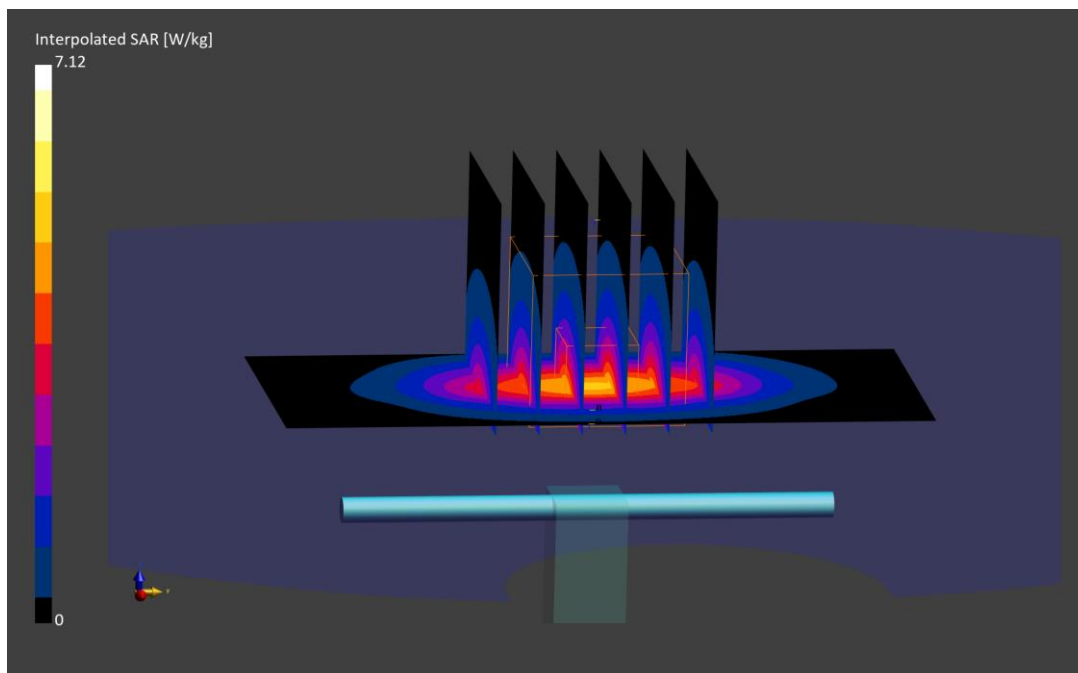
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 7.12 W/kg

**SAR(1 g) = 3.92 W/kg; SAR(10 g) = 2.06 W/kg**

Deviation (1 g) = -2.24%; Deviation (10 g) = -1.90%



# ELEMENT

**DUT: Dipole 1900.000 MHz; Type: D1900V2 - SN5d149**

Communication System: UID: 0, CW; Frequency: 1900.000 MHz  
Medium: 1900 Head; Medium parameters used:  
f = 1900.000 MHz; cond = 1.42 S/m; perm = 38.9; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/09/2024; Ambient Temp: 24.70°C; Tissue Temp: 22.20°C

Probe: EX3DV4 - SN7409; ConvF:(7.72,7.32,7.76); 2024-06-17  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1334; 2024-06-11  
Phantom: Twin-SAM V8.0; Serial: 2056  
Measurement SW: DASY Module SAR V16.4.0.5005

## 1900.0 MHz System Verification at 20.0 dBm (100 mW)

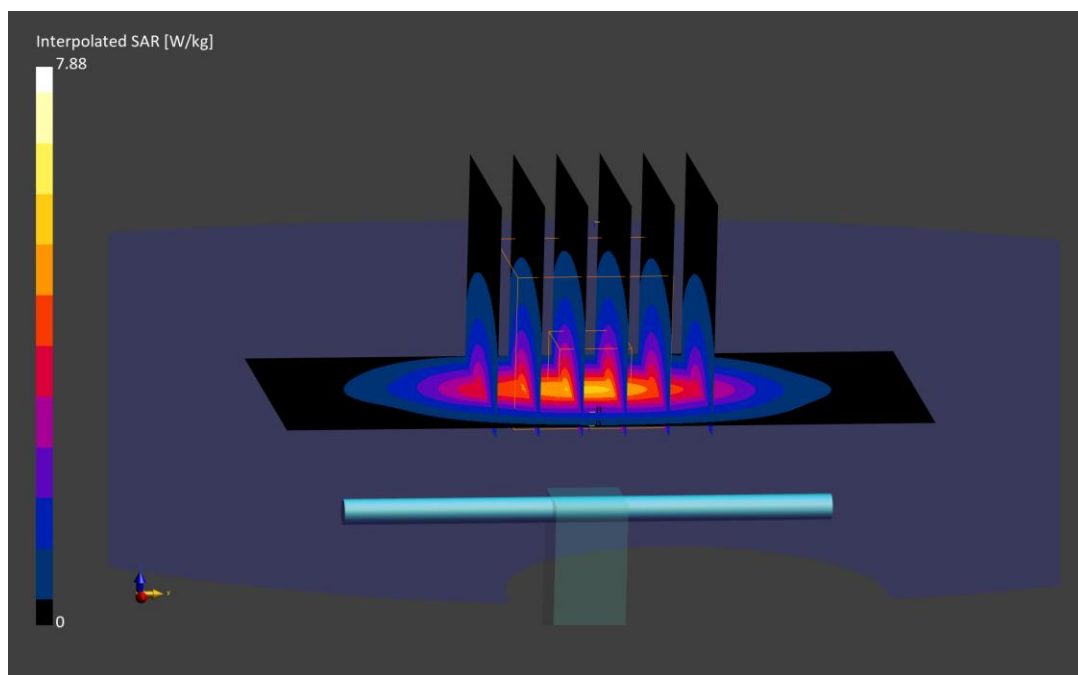
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 7.88 W/kg

**SAR(1 g) = 4.26 W/kg; SAR(10 g) = 2.21 W/kg**

Deviation (1 g) = 8.95%; Deviation (10 g) = 6.76%



# 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 = 1.40 S/m; perm = 39.8; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/09/2024; Ambient Temp: 22°C; Tissue Temp: 20.5°C

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

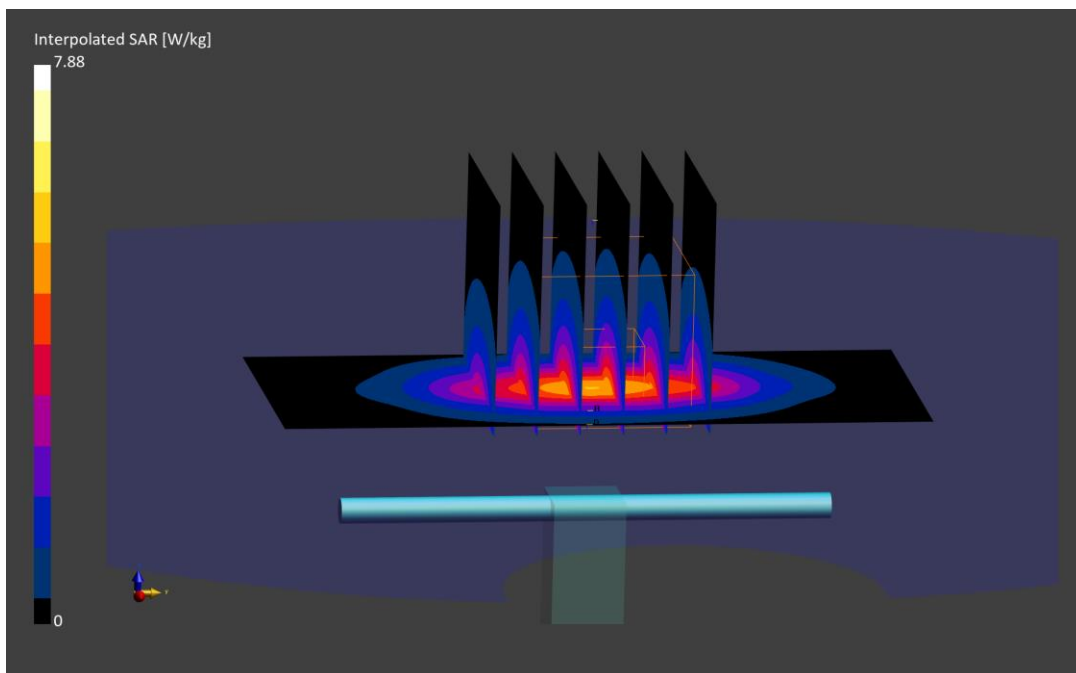
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 7.89 W/kg

**SAR(1 g) = 4.19 W/kg; SAR(10 g) = 2.18 W/kg**

Deviation (1 g) = 4.49%; Deviation (10 g) = 3.81%



# 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 = 1.40 S/m; perm = 40.3; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/09/2024; Ambient Temp: 20.3°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7718; ConvF:(7.55,7.58,7.86); 2024-04-17  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn665; 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)

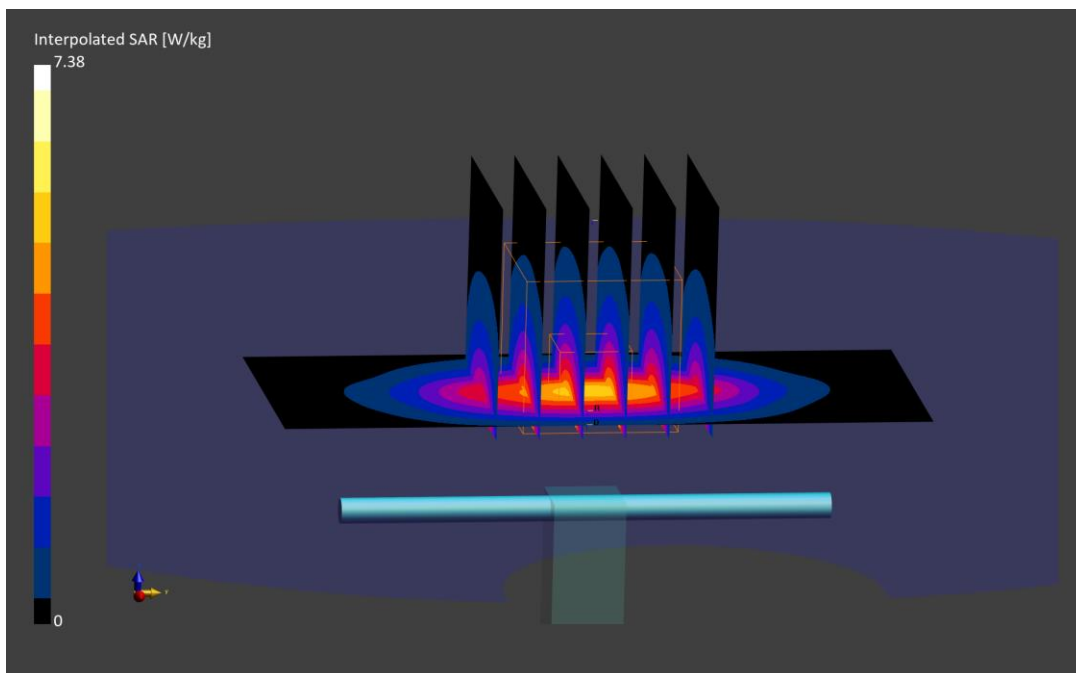
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 7.38 W/kg

**SAR(1 g) = 4.11 W/kg; SAR(10 g) = 2.17 W/kg**

Deviation (1 g) = 2.49%; Deviation (10 g) = 3.33%



# 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 = 39.5; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/30/2024; Ambient Temp: 22.0°C; Tissue Temp: 21.3°C

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

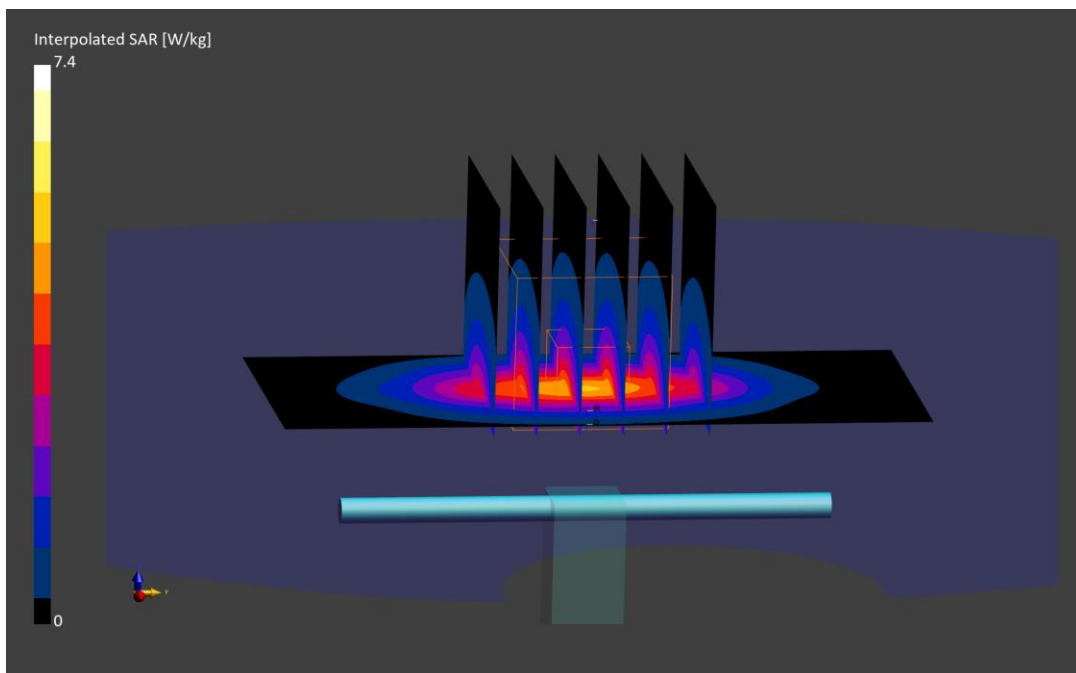
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 7.40 W/kg

**SAR(1 g) = 3.91 W/kg; SAR(10 g) = 2.02 W/kg**

Deviation (1 g) = -2.98%; Deviation (10 g) = -3.81%



# 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 = 1.45 S/m; perm = 39.3; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 10/02/2024; Ambient Temp: 23.50°C; Tissue Temp: 22.40°C

Probe: EX3DV4 - SN7409; ConvF:(7.72,7.32,7.76); 2024-06-17  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1334; 2024-06-11  
Phantom: Twin-SAM V8.0; Serial: 2056  
Measurement SW: DASY Module SAR V16.4.0.5005

## 1900.0 MHz System Verification at 20.0 dBm (100 mW)

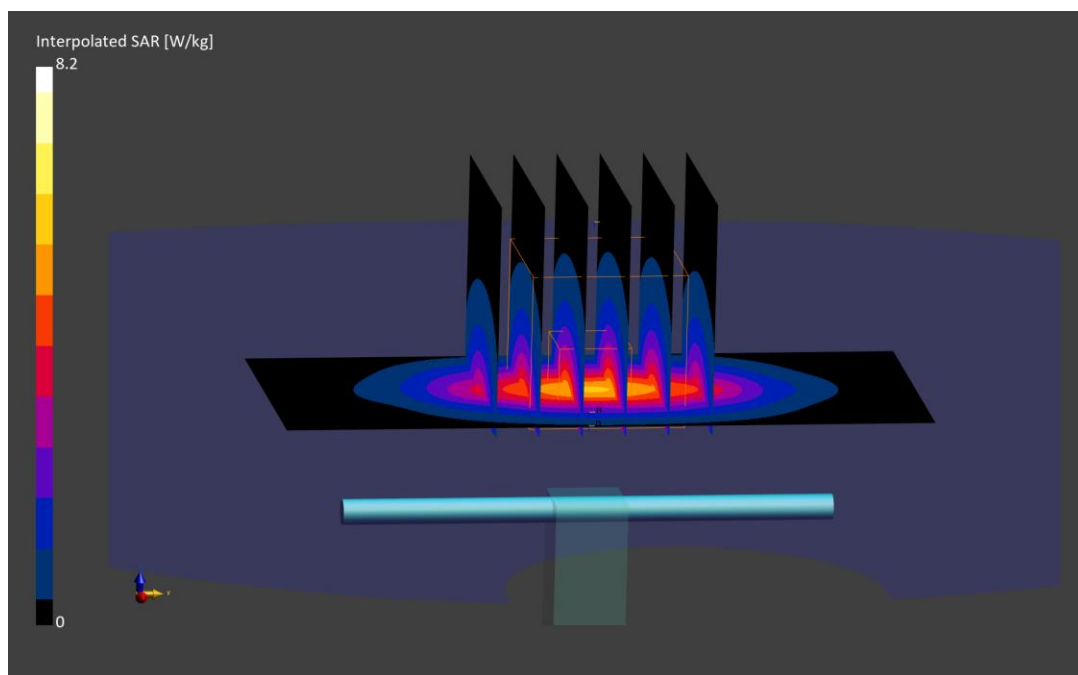
**Area Scan (40.0 x 90.0):** Measurement grid: dx=10.0 mm, dy=15.0 mm

**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) = 8.20 W/kg

**SAR(1 g) = 4.40 W/kg; SAR(10 g) = 2.28 W/kg**

Deviation (1 g) = 9.73%; Deviation (10 g) = 8.57%



# 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;  $\text{cond} = 1.43$  S/m;  $\text{perm} = 40.7$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 10/28/2024; Ambient Temp: 22.6°C; Tissue Temp: 20.4°C

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

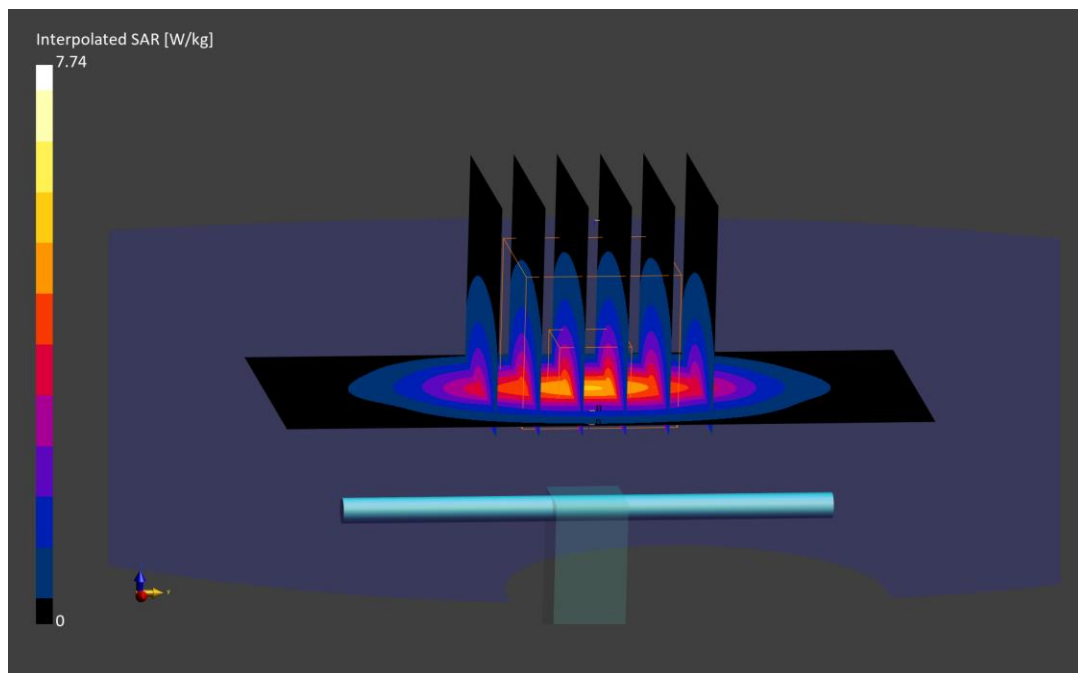
**Area Scan (40.0 x 90.0):** Measurement grid:  $dx=10.0$  mm,  $dy=15.0$  mm

**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) = 7.74 W/kg

**SAR(1 g) = 4.07 W/kg; SAR(10 g) = 2.10 W/kg**

Deviation (1 g) = 0.99%; Deviation (10 g) = 0.00%



# ELEMENT

**DUT: Dipole 2450.000 MHz; Type: D2450V2 - SN945**

Communication System: UID: 0, CW; Frequency: 2450.000 MHz  
Medium: 2450 Head; Medium parameters used:  
 $f = 2450.000$  MHz;  $\text{cond} = 1.81$  S/m;  $\text{perm} = 37.7$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/30/2024; Ambient Temp: 21.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7640; ConvF:(8.05,7.65,8.28); 2024-02-09

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

Electronics: DAE4 Sn1645; 2024-02-09

Phantom: Twin-SAM V8.0; Serial: 1937

Measurement SW: DASY Module SAR V16.4.0.5005

## 2450.0 MHz System Verification at 20.0 dBm (100 mW)

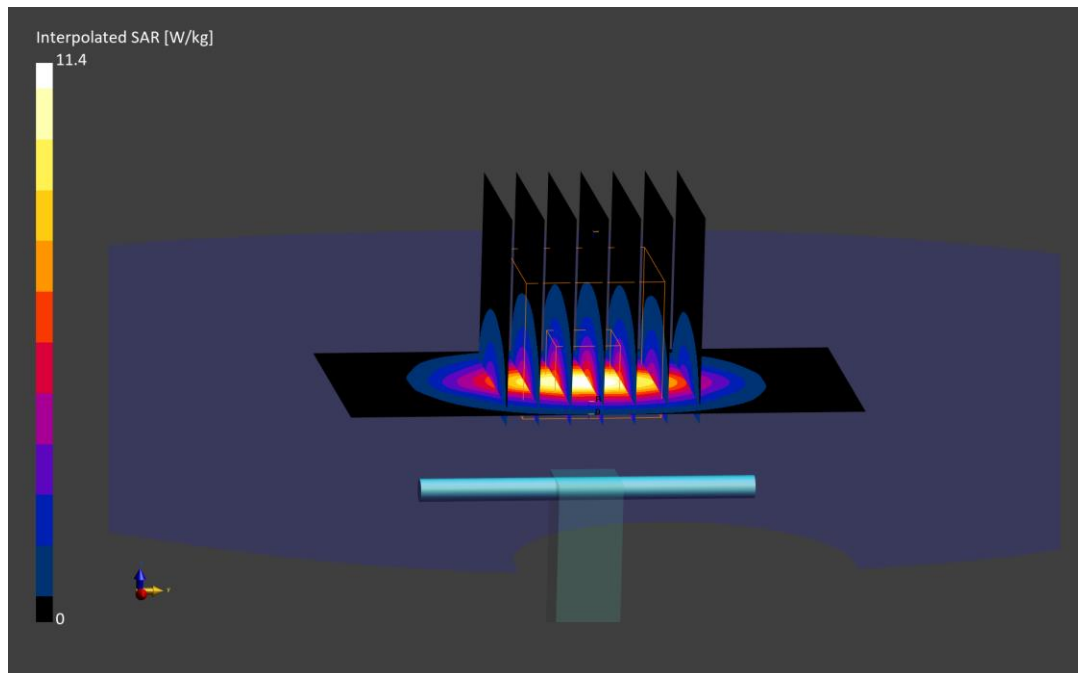
**Area Scan (40.0 x 80.0):** Measurement grid:  $dx=10.0$  mm,  $dy=10.0$  mm

**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) = 11.5 W/kg

**SAR(1 g) = 5.57 W/kg; SAR(10 g) = 2.59 W/kg**

Deviation (1 g) = 4.31%; Deviation (10 g) = 3.19%



# 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 = 1.82 S/m; perm = 39.2; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 10/16/2024; Ambient Temp: 20.8°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7558; ConvF:(7.45,7.06,7.43); 2024-09-11  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1364; 2024-09-10  
Phantom: Twin-SAM V8.0; Serial: 1934  
Measurement SW: DASY Module SAR V16.4.0.5005

## 2450.0 MHz System Verification at 20.0 dBm (100 mW)

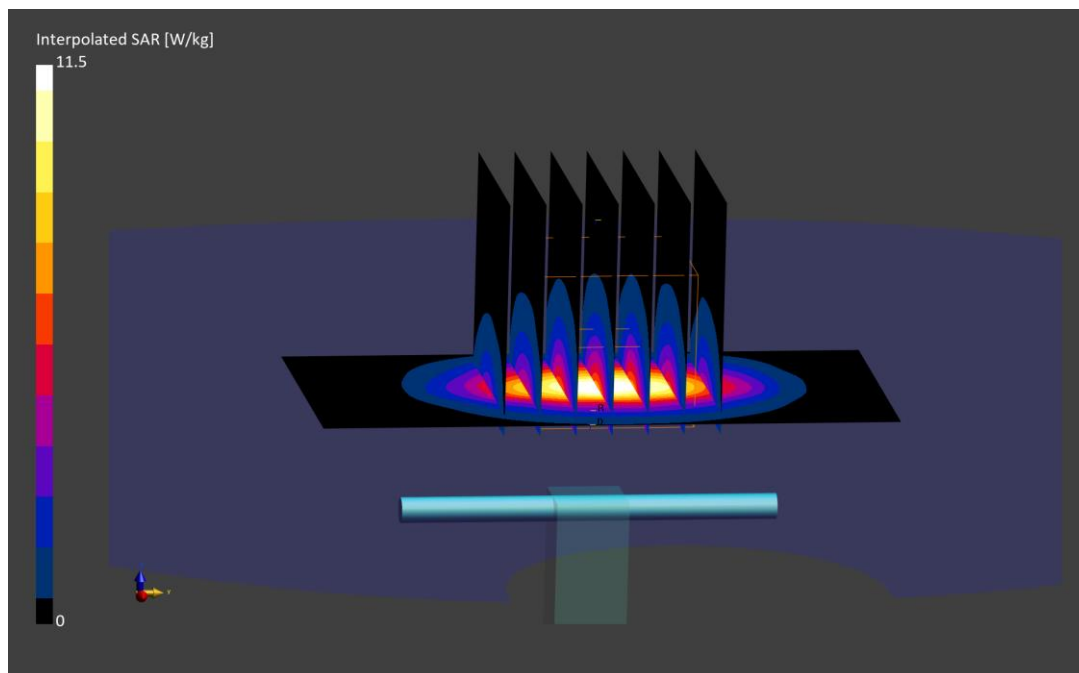
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 11.5 W/kg

**SAR(1 g) = 5.66 W/kg; SAR(10 g) = 2.65 W/kg**

Deviation (1 g) = 6.79%; Deviation (10 g) = 6.43%



# ELEMENT

**DUT: Dipole 2450.000 MHz; Type: D2450V2 - SN945**

Communication System: UID: 0, CW; Frequency: 2450.000 MHz  
Medium: 2450 Head; Medium parameters used:  
f = 2450.000 MHz; cond = 1.83 S/m; perm = 38.0; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 10/28/2024; Ambient Temp: 20.6°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7640; ConvF:(8.05,7.65,8.28); 2024-02-09  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1645; 2024-02-09  
Phantom: Twin-SAM V8.0; Serial: 1937  
Measurement SW: DASY Module SAR V16.4.0.5005

## 2450.0 MHz System Verification at 20.0 dBm (100 mW)

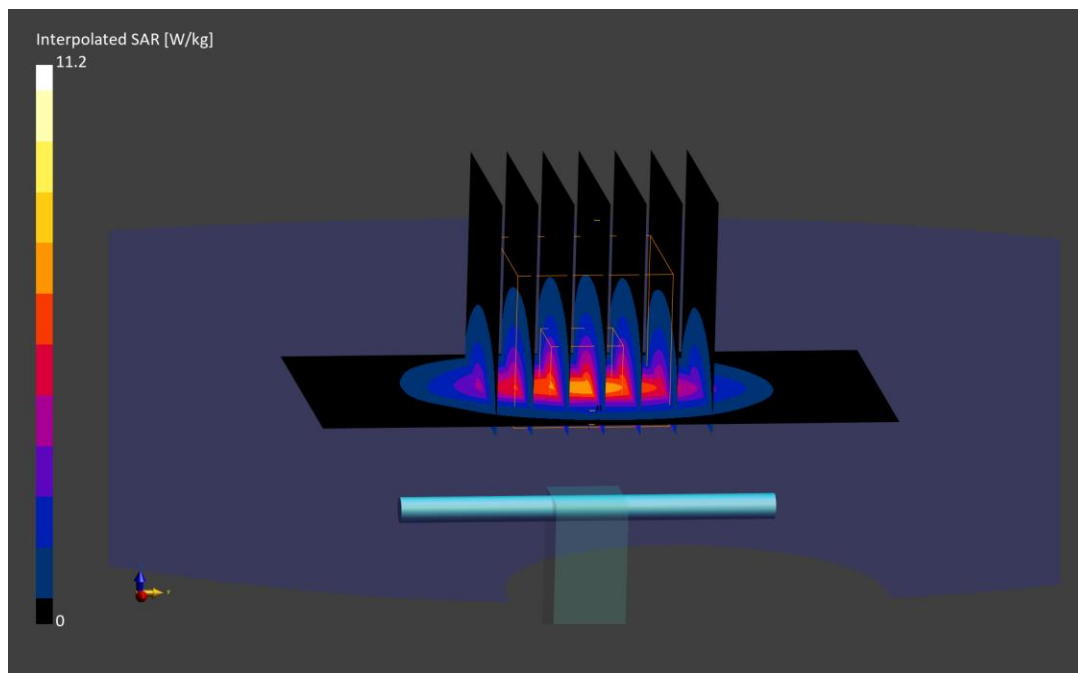
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 11.2 W/kg

**SAR(1 g) = 5.48 W/kg; SAR(10 g) = 2.55 W/kg**

Deviation (1 g) = 2.62%; Deviation (10 g) = 1.59%



# 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 = 1.90 S/m; perm = 38.1; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/04/2024; Ambient Temp: 20.9°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7637; ConvF:(7.3,7.51,8.07); 2024-04-17  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1652; 2024-04-09  
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)

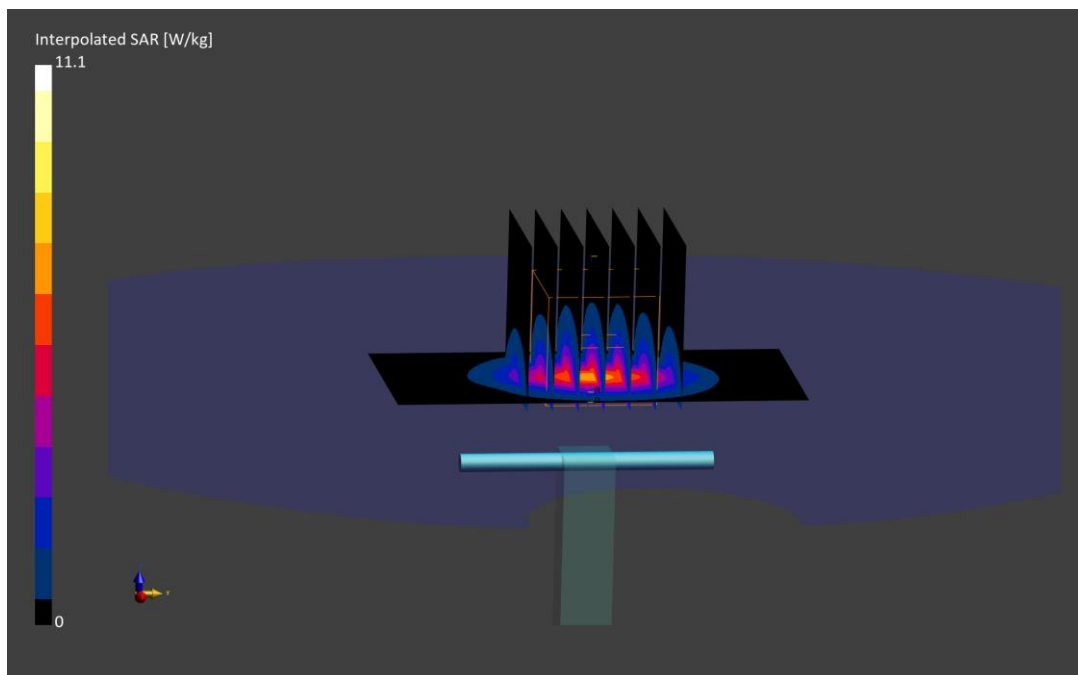
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 11.1 W/kg

**SAR(1 g) = 5.23 W/kg; SAR(10 g) = 2.36 W/kg**

Deviation (1 g) = -7.60%; Deviation (10 g) = -7.45%



# 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 = 1.92 S/m; perm = 37.5; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/30/2024; Ambient Temp: 21.0°C; Tissue Temp: 21.0°C

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

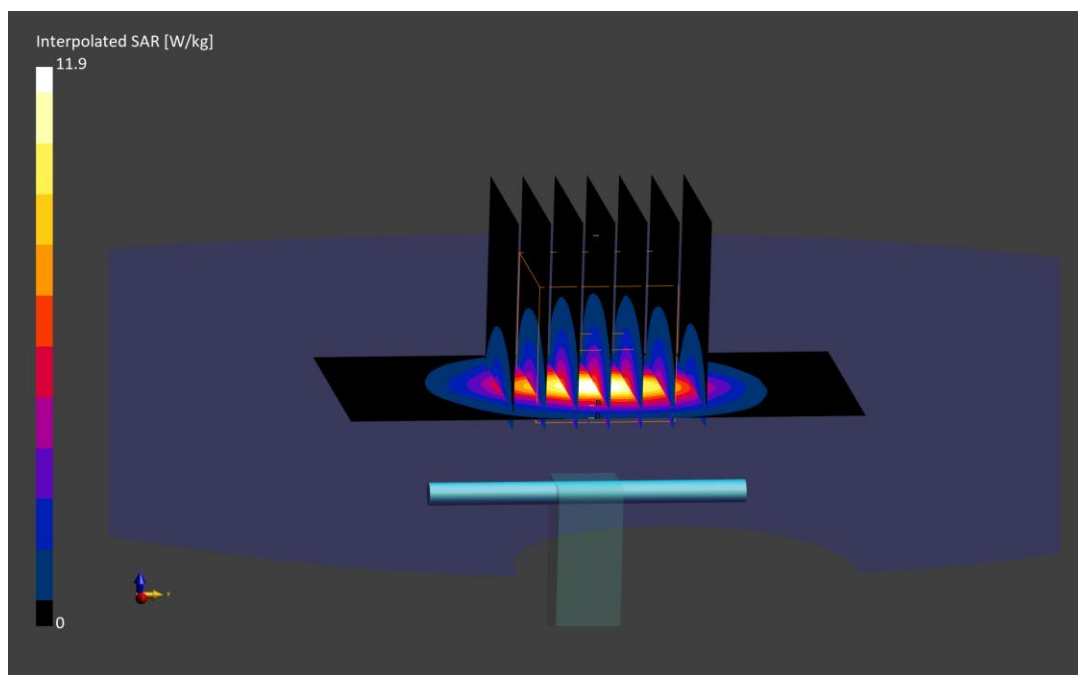
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 11.9 W/kg

**SAR(1 g) = 5.57 W/kg; SAR(10 g) = 2.51 W/kg**

Deviation (1 g) = -1.59%; Deviation (10 g) = -1.57%



# ELEMENT

**DUT: Dipole 3500.000 MHz; Type: D3500V2 - SN1068**

Communication System: UID: 0, CW; Frequency: 3500.000 MHz  
Medium: 3600 Head; Medium parameters used:  
f = 3500.000 MHz; cond = 2.77 S/m; perm = 38.4; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/04/2024; Ambient Temp: 20.4°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7565; ConvF:(6.96,6.13,6.05); 2024-01-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1466; 2024-01-16  
Phantom: Twin-SAM V5.0; Serial: 1868  
Measurement SW: DASY Module SAR V16.4.0.5005

## 3500.0 MHz System Verification at 20.0 dBm (100 mW)

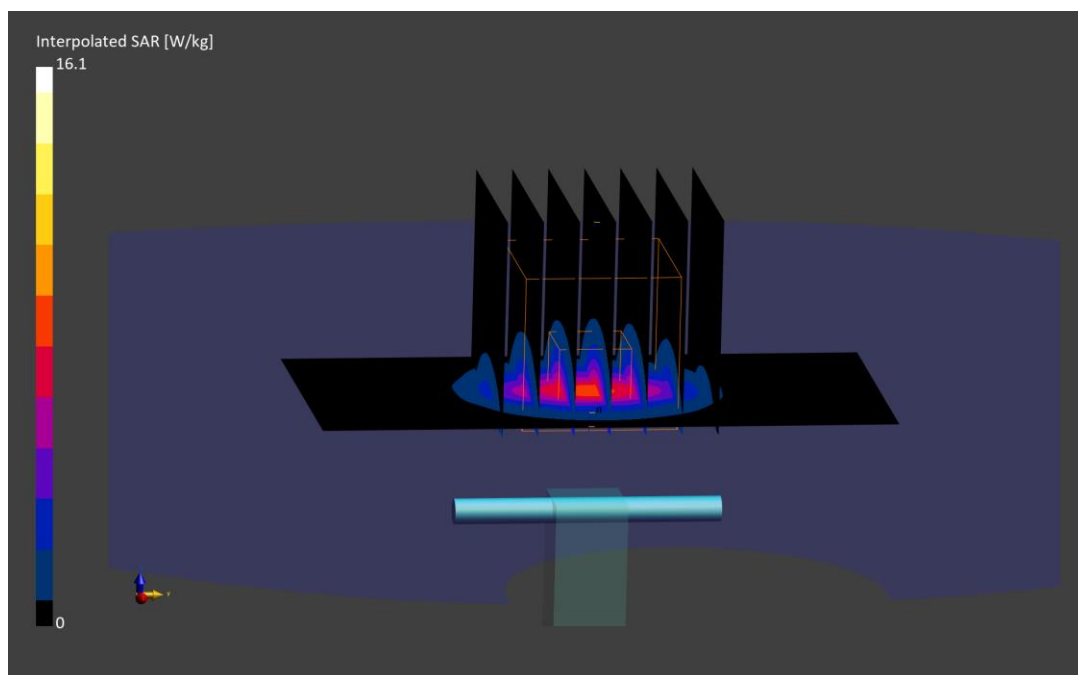
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 16.1 W/kg

**SAR(1 g) = 6.19 W/kg; SAR(10 g) = 2.35 W/kg**

Deviation (1 g) = -5.21%; Deviation (10 g) = -4.86%



# ELEMENT

**DUT: Dipole 3500.000 MHz; Type: D3500V2 - SN1127**

Communication System: UID: 0, CW; Frequency: 3500.000 MHz  
Medium: 3600 Head; Medium parameters used:  
f = 3500.000 MHz; cond = 2.79 S/m; perm = 38.5; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/09/2024; Ambient Temp: 22.2°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7565; ConvF:(6.96,6.13,6.05); 2024-01-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1466; 2024-01-16  
Phantom: Twin-SAM V5.0; Serial: 1868  
Measurement SW: DASY Module SAR V16.4.0.5005

## 3500.0 MHz System Verification at 20.0 dBm (100 mW)

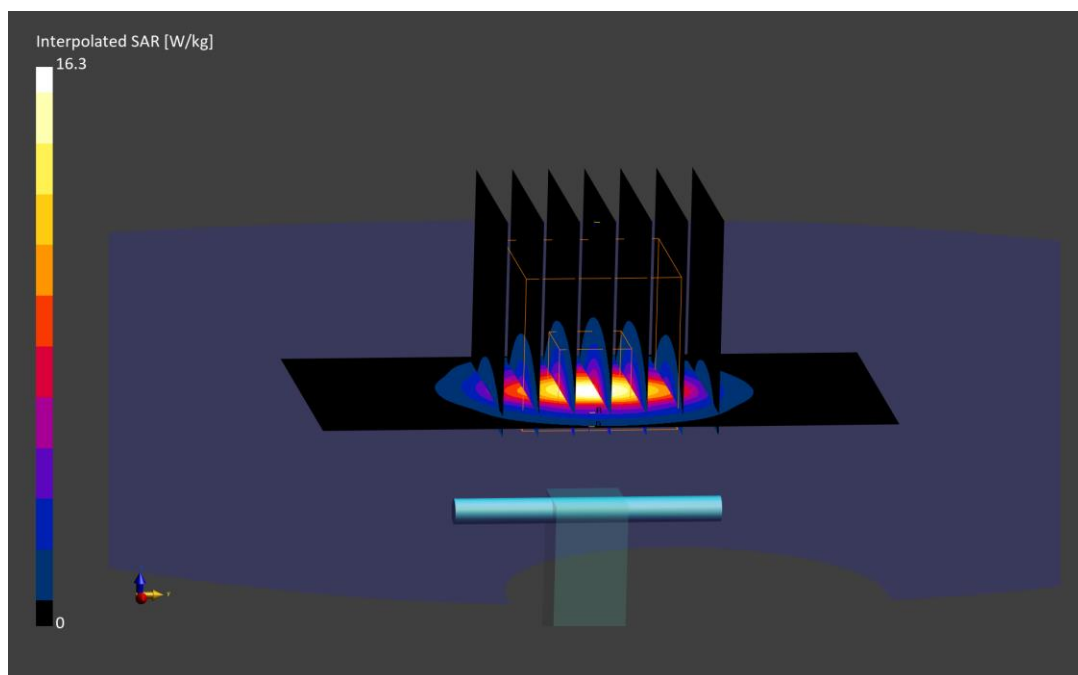
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 16.3 W/kg

**SAR(1 g) = 6.24 W/kg; SAR(10 g) = 2.38 W/kg**

Deviation (1 g) = -4.88%; Deviation (10 g) = -4.03%



# ELEMENT

**DUT: Dipole 3700.000 MHz; Type: D3700V2 - SN1029**

Communication System: UID: 0, CW; Frequency: 3700.000 MHz  
Medium: 3600 Head; Medium parameters used:  
 $f = 3700.000$  MHz;  $\text{cond} = 2.97$  S/m;  $\text{perm} = 38.1$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/04/2024; Ambient Temp: 20.4°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7565; ConvF:(6.82,5.99,5.94); 2024-01-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1466; 2024-01-16  
Phantom: Twin-SAM V5.0; Serial: 1868  
Measurement SW: DASY Module SAR V16.4.0.5005

## 3700.0 MHz System Verification at 20.0 dBm (100 mW)

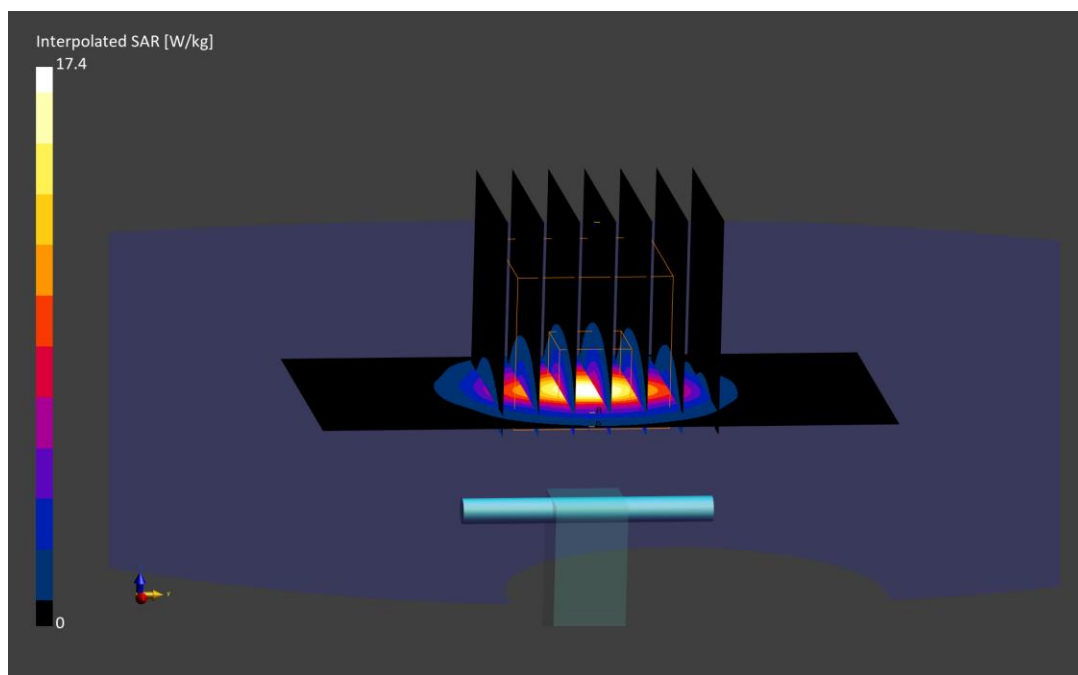
**Area Scan (40.0 x 80.0):** Measurement grid:  $dx=10.0$  mm,  $dy=10.0$  mm

**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) = 17.4 W/kg

**SAR(1 g) = 6.40 W/kg; SAR(10 g) = 2.36 W/kg**

Deviation (1 g) = -4.90%; Deviation (10 g) = -3.67%



# ELEMENT

**DUT: Dipole 3700.000 MHz; Type: D3700V2 - SN1096**

Communication System: UID: 0, CW; Frequency: 3700.000 MHz  
Medium: 3600 Head; Medium parameters used:  
f = 3700.000 MHz; cond = 2.98 S/m; perm = 38.2; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/09/2024; Ambient Temp: 22.2°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7565; ConvF:(6.82,5.99,5.94); 2024-01-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1466; 2024-01-16  
Phantom: Twin-SAM V5.0; Serial: 1868  
Measurement SW: DASY Module SAR V16.4.0.5005

## 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) = 18.0 W/kg

**SAR(1 g) = 6.63 W/kg; SAR(10 g) = 2.46 W/kg**

Deviation (1 g) = -1.92%; Deviation (10 g) = -0.40%



# ELEMENT

**DUT: Dipole 3900.000 MHz; Type: D3900V2 - SN1074**

Communication System: UID: 0, CW; Frequency: 3900.000 MHz  
Medium: 3600 Head; Medium parameters used:  
f = 3900.000 MHz; cond = 3.16 S/m; perm = 37.7; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/04/2024; Ambient Temp: 20.4°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7565; ConvF:(6.69,5.89,5.81); 2024-01-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1466; 2024-01-16  
Phantom: Twin-SAM V5.0; Serial: 1868  
Measurement SW: DASY Module SAR V16.4.0.5005

## 3900.0 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) = 19.4 W/kg

**SAR(1 g) = 6.75 W/kg; SAR(10 g) = 2.38 W/kg**

Deviation (1 g) = -1.75%; Deviation (10 g) = -0.83%



# ELEMENT

**DUT: Dipole 3900.000 MHz; Type: D3900V2 - SN1074**

Communication System: UID: 0, CW; Frequency: 3900.000 MHz  
Medium: 3600 Head; Medium parameters used:  
f = 3900.000 MHz; cond = 3.18 S/m; perm = 37.8; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 09/09/2024; Ambient Temp: 22.2°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7565; ConvF:(6.69,5.89,5.81); 2024-01-16  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1466; 2024-01-16  
Phantom: Twin-SAM V5.0; Serial: 1868  
Measurement SW: DASY Module SAR V16.4.0.5005

## 3900.0 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) = 19.1 W/kg

**SAR(1 g) = 6.64 W/kg; SAR(10 g) = 2.35 W/kg**

Deviation (1 g) = -3.35%; Deviation (10 g) = -2.08%



# 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 = 4.69 S/m; perm = 34.6; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 10/14/2024; Ambient Temp: 20.8°C; Tissue Temp: 20.8°C

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

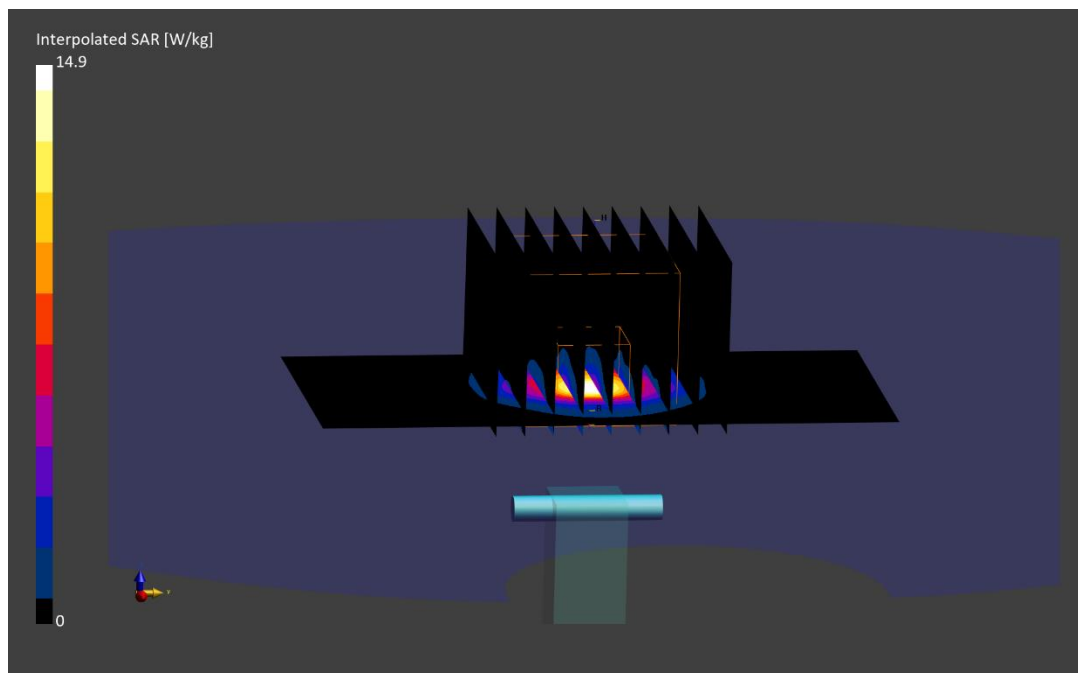
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 14.9 W/kg

**SAR(1 g) = 3.73 W/kg; SAR(10 g) = 1.06 W/kg**

Deviation (1 g) = -6.87%; Deviation (10 g) = -7.42%



# 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 = 5.08 S/m; perm = 33.9; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 10/14/2024; Ambient Temp: 20.8°C; Tissue Temp: 20.8°C

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

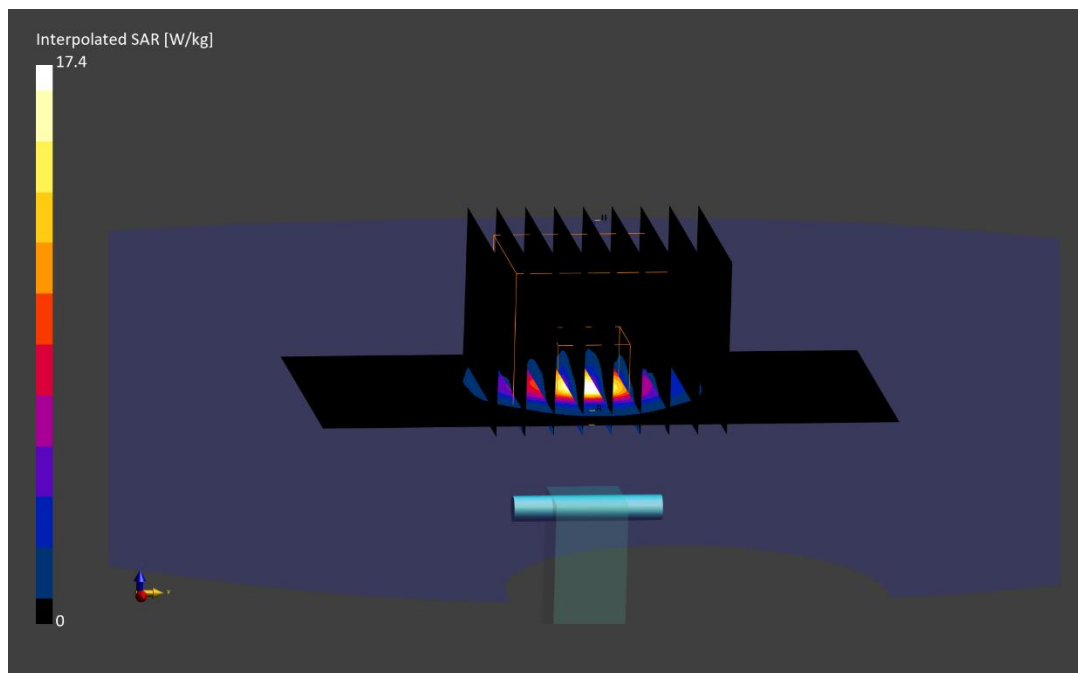
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 17.4 W/kg

**SAR(1 g) = 4.08 W/kg; SAR(10 g) = 1.16 W/kg**

Deviation (1 g) = -0.49%; Deviation (10 g) = -0.43%



# 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 = 5.28 S/m; perm = 33.6; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 10/14/2024; Ambient Temp: 20.8°C; Tissue Temp: 20.8°C

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

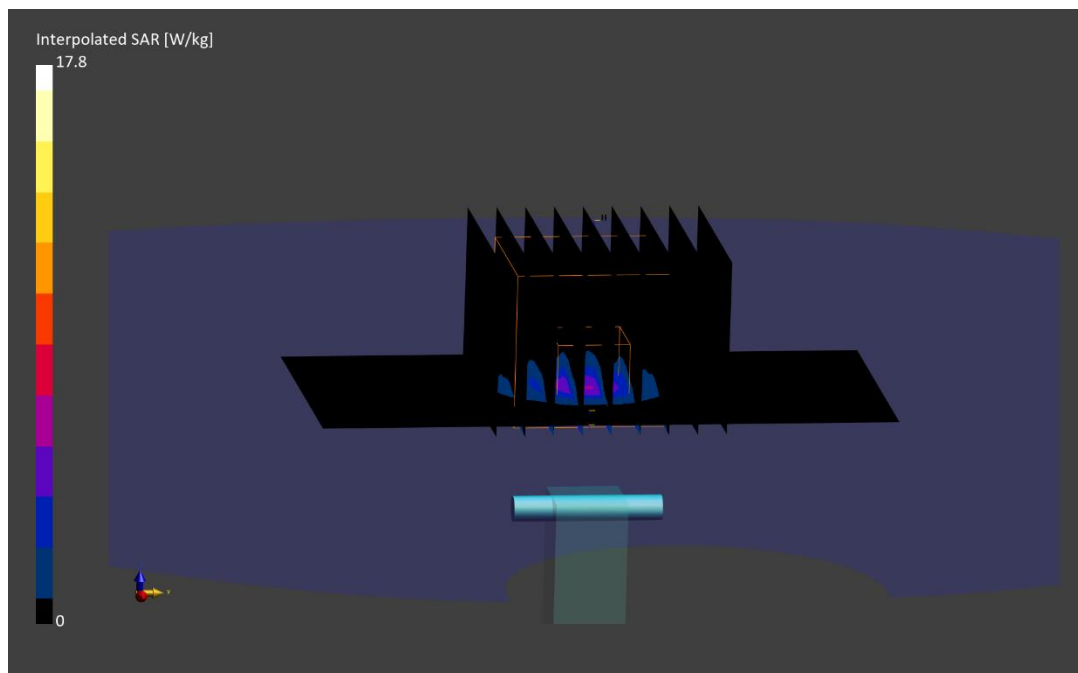
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 17.8 W/kg

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

Deviation (1 g) = 1.77%; Deviation (10 g) = 2.22%



# 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 = 5.39 S/m; perm = 33.5; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 10/14/2024; Ambient Temp: 20.8°C; Tissue Temp: 20.8°C

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

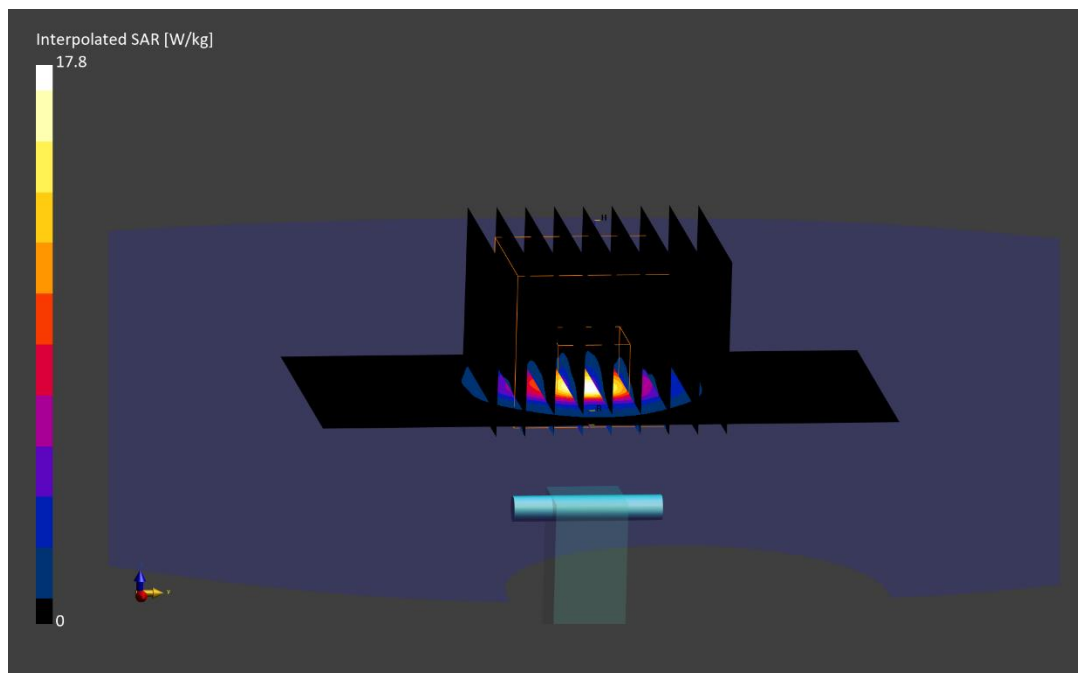
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**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) = 17.8 W/kg

**SAR(1 g) = 3.99 W/kg; SAR(10 g) = 1.14 W/kg**

Deviation (1 g) = -0.75%; Deviation (10 g) = 0.00%



# ELEMENT

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

Communication System: UID: 0, CW; Frequency: 6500.0 MHz  
Medium: 6000 Head; Medium parameters used:  
f = 6500.0 MHz; cond = 6.03 S/m; perm = 33.5; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 5 mm

Test Date: 10/14/2024; Ambient Temp: 21.0°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7421; ConvF:(5.35,5.35,5.35); 2024-03-11  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn604; 2024-03-06  
Phantom: Twin-SAM V8.0; Serial: 2067  
Measurement SW: DASY Module SAR V16.2.4.2524

## 6500.0 MHz System Verification at 14.0 dBm (25 mW)

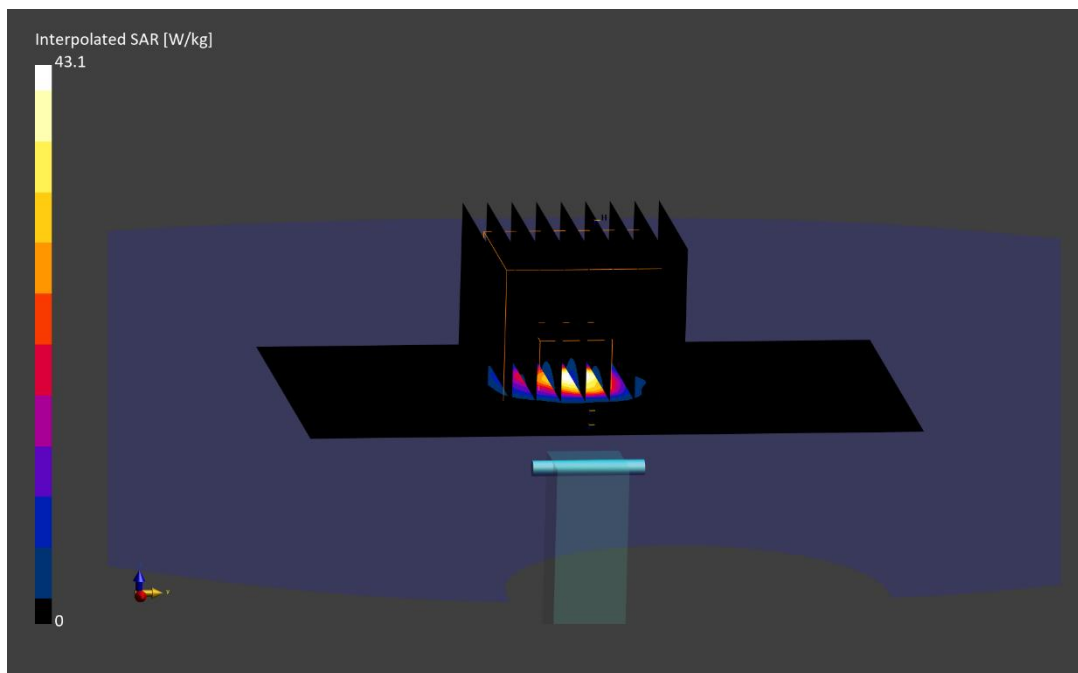
**Area Scan (51.0 x 85.0):** Measurement grid: dx=8.5 mm, dy=8.5 mm

**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) = 43.1 W/kg

**SAR(1 g) = 6.89 W/kg; SAR(10 g) = 1.27 W/kg**

Deviation (1 g) = -5.94%; Deviation (10 g) = -5.75%



# 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 = 6.01 S/m; perm = 33.8; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 5 mm

Test Date: 10/21/2024; Ambient Temp: 21.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7527; ConvF:(5.15,4.68,5.36); 2024-03-08  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1272; 2024-03-12  
Phantom: Twin-SAM V8.0; Serial: 1979  
Measurement SW: DASY Module SAR V16.4.0.5005

## 6500.0 MHz System Verification at 14.0 dBm (25 mW)

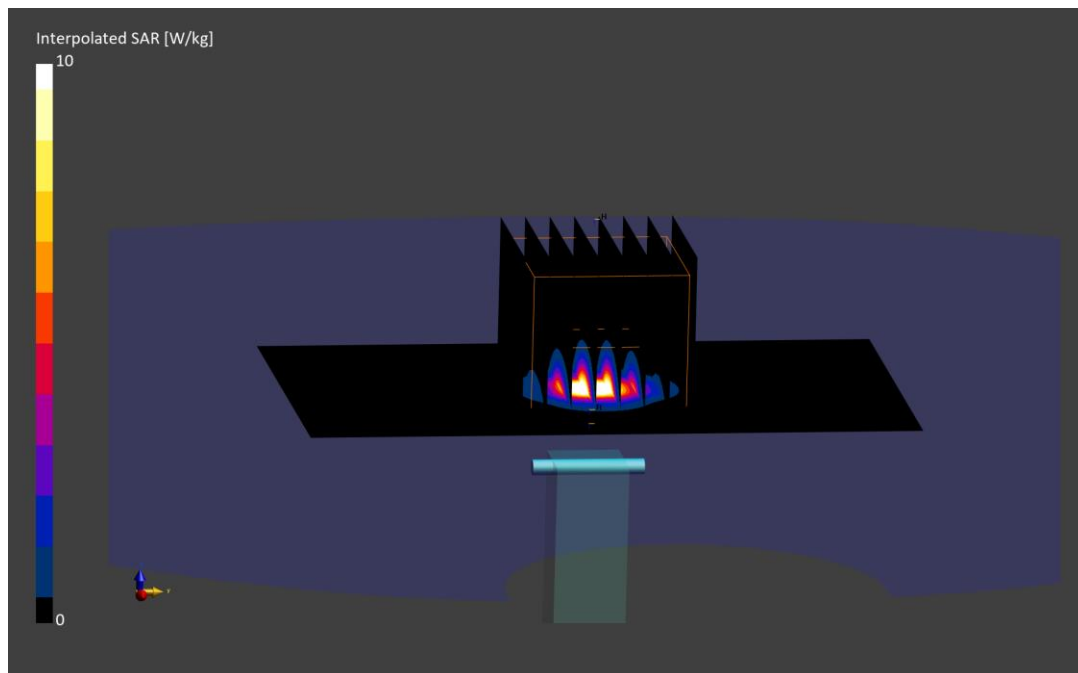
**Area Scan (51.0 x 85.0):** Measurement grid: dx=8.5 mm, dy=8.5 mm

**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) = 49.8 W/kg

**SAR(1 g) = 7.89 W/kg; SAR(10 g) = 1.45 W/kg; APD(4 cm<sup>2</sup>) = 35.2 W/m<sup>2</sup>**

Deviation (1 g) = 8.45%; Deviation (10 g) = 8.41%; Deviation (APD) = 8.31%



Date: 2024-09-30

10 GHz Verification

Device Under Test Properties

| DUT                        | Serial Number | DUT Type |
|----------------------------|---------------|----------|
| 10 GHz Verification Source | 1006          | Phone    |

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   |
|--------------------------------------|-------------------------|
| EUmWV4 – SN9523_F1–55GHz, 2024-01-09 | DAE4 Sn1644, 2023-12-07 |

Software Setup

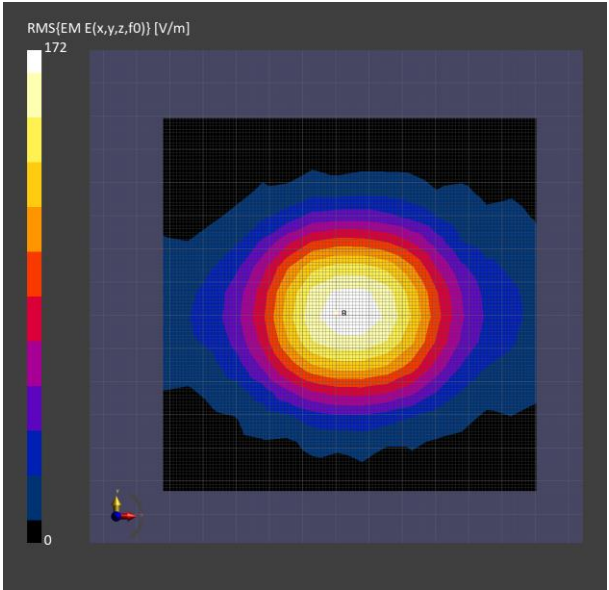
| Software             | Software Version |
|----------------------|------------------|
| cDasy6 Module mmWave | 3.2.0.1840       |

Scans Setup

|                     |             |
|---------------------|-------------|
| Scan Type           | 5G Scan     |
| Grid Extents [mm]   | 60.0 x 60.0 |
| Grid Steps [lambda] | 0.25 x 0.25 |
| Sensor Surface [mm] | 10.0        |

Measurement Results

|                                  |         |
|----------------------------------|---------|
| Scan Type                        | 5G Scan |
| Avg. Area [cm²]                  | 1.00    |
| pS <sub>tot</sub> avg [W/m²]     | 64.8    |
| pS <sub>n</sub> avg [W/m²]       | 64.9    |
| E <sub>peak</sub> [V/m]          | 168     |
| Power Drift [dB]                 | 0.13    |
| Deviation [dB] pS <sub>tot</sub> | 0.44    |
| Deviation [dB] pS <sub>n</sub>   | 0.43    |



Date: 2024-10-20

10 GHz Verification

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 <sub>tot</sub> avg [W/m²]     | 58.8    |
| pS <sub>n</sub> avg [W/m²]       | 58.5    |
| E <sub>peak</sub> [V/m]          | 159     |
| Deviation [dB] pS <sub>tot</sub> | 0.3     |
| Deviation [dB] pS <sub>n</sub>   | 0.3     |

