

APPENDIX B: SYSTEM VERIFICATION

PCTEST

DUT: Dipole 750 MHz Type: D750V3; Serial: 1046

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.909 \text{ S/m}$; $\epsilon_r = 41.507$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 01/04/2022; Ambient Temp: 20.5°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN7640; ConvF(11.14, 11.14, 11.14) @ 750 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0 (30); Type: QD 000 P41 AA; Serial: 1937

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

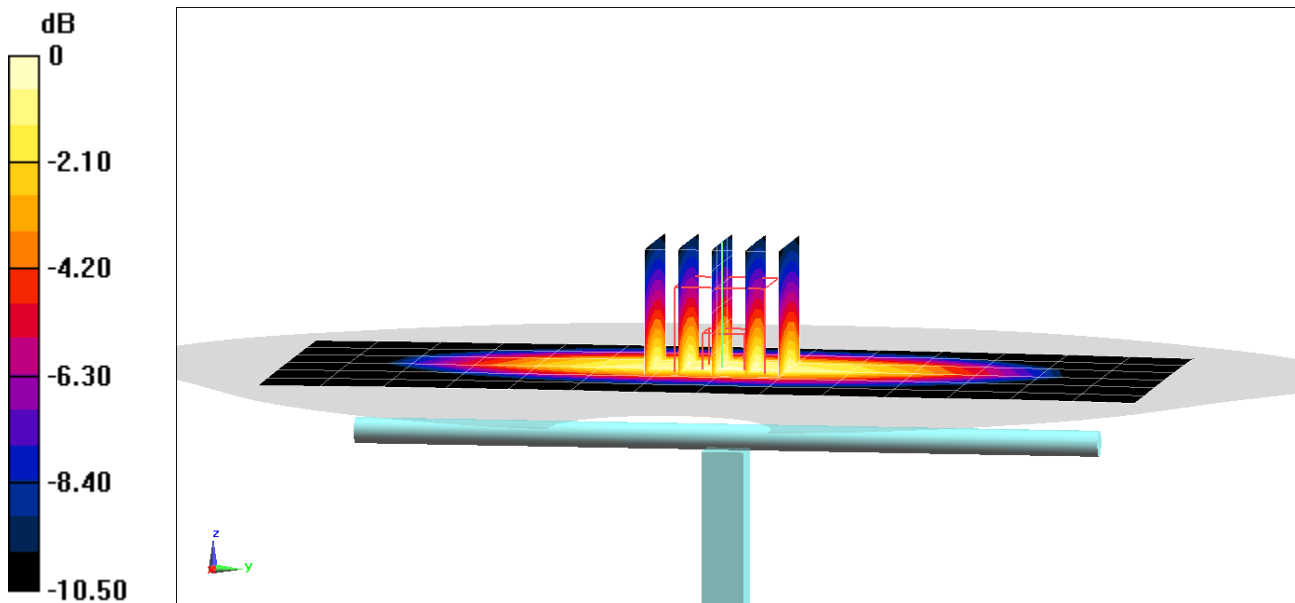
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.56 W/kg

SAR(1 g) = 1.69 W/kg

Deviation(1 g) = -1.63%



0 dB = 2.28 W/kg = 3.58 dBW/kg

PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d119

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Head Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.934 \text{ S/m}$; $\epsilon_r = 41.658$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 12/22/2021; Ambient Temp: 20.7°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7640; ConvF(10.76, 10.76, 10.76) @ 835 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0 (30); Type: QD 000 P41 AA; Serial: 1937

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

835 MHz System Verification at 23.0 dBm (200 mW)

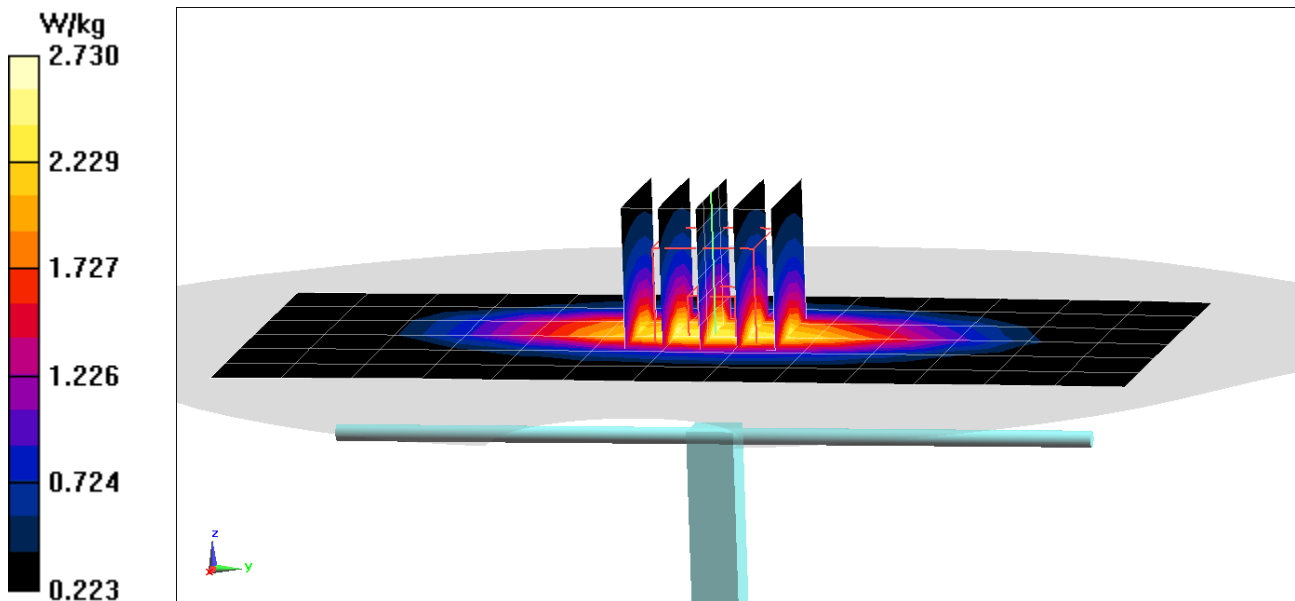
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 3.10 W/kg

SAR(1 g) = 2.04 W/kg

Deviation(1 g) = 5.81%



PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d119

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Head Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.933 \text{ S/m}$; $\epsilon_r = 42.429$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 12/30/2021; Ambient Temp: 20.4°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7640; ConvF(10.76, 10.76, 10.76) @ 835 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0 (30); Type: QD 000 P41 AA; Serial: 1937

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

835 MHz System Verification at 23.0 dBm (200 mW)

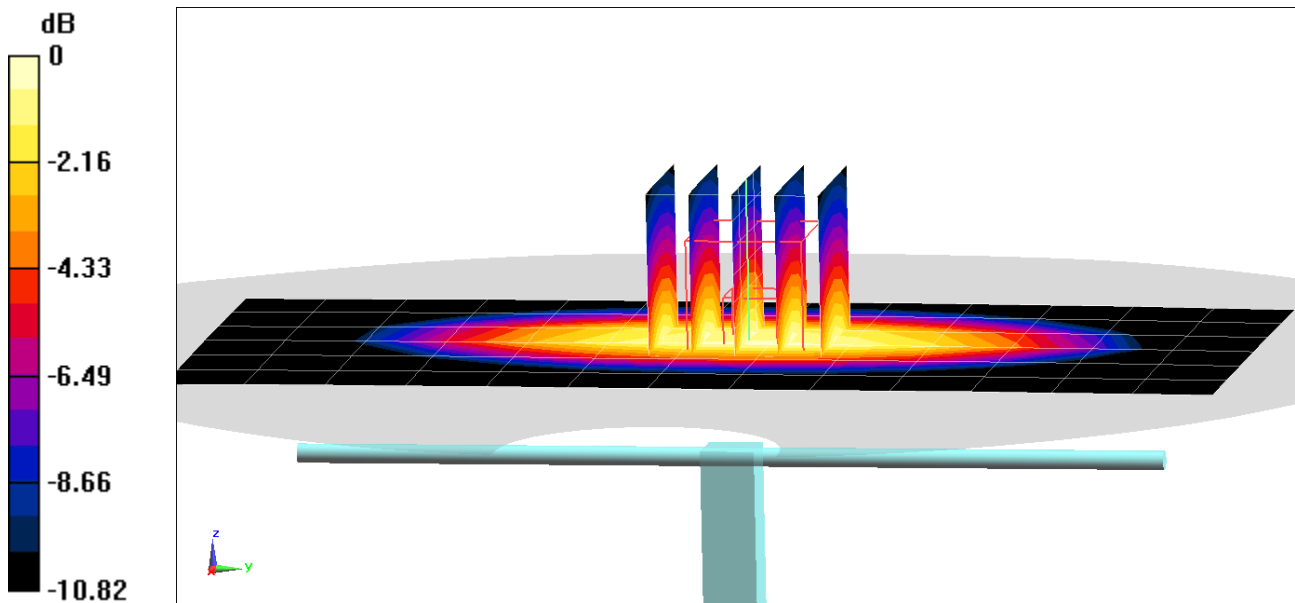
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 3.11 W/kg

SAR(1 g) = 2.06 W/kg

Deviation(1 g) = 6.85%



0 dB = 2.76 W/kg = 4.41 dBW/kg

PCTEST

DUT: Dipole 1750.0 MHz; Type: D1750V2; Serial: 1148

Communication System: UID: 0, CW; Frequency: 1750.0 MHz
Medium: 1750 Head; Medium parameters used:
f = 1750.0 MHz; cond = 1.41 S/m; perm = 39.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 12/21/2021; Ambient Temp: 22.3°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7406; ConvF:(8.26,8.26,8.26); Calibrated: 2021-07-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1676; Calibrated: 2021-06-21
Phantom: Twin-SAM V8.0; Serial: 2058
Measurement SW: DASY Module SAR V16.0.0.65

1750 MHz System Verification at 20 dBm (100 mW)

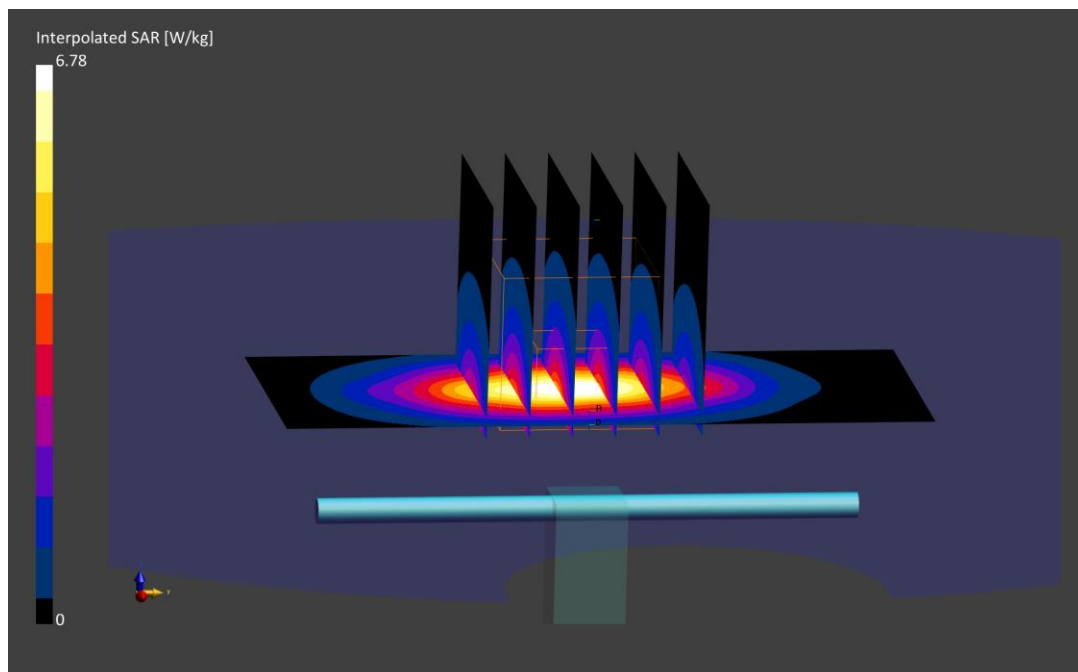
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.78 W/kg

SAR(1 g) = 3.50 W/kg

Deviation (1 g) = -2.51%



PCTEST

DUT: Dipole 1900.0 MHz; Type: D1900V2; Serial: 5d080

Communication System: UID: 0, CW; Frequency: 1900.0 MHz
Medium: 1900 Head; Medium parameters used:
f = 1900.0 MHz; cond = 1.42 S/m; perm = 38.8; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 12/26/2021; Ambient Temp: 22.7°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7406; ConvF:(7.98,7.98,7.98); Calibrated: 2021-07-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1676; Calibrated: 2021-06-21
Phantom: Twin-SAM V8.0; Serial: 2058
Measurement SW: DASY Module SAR V16.0.0.65

1900 MHz System Verification at 20 dBm (100 mW)

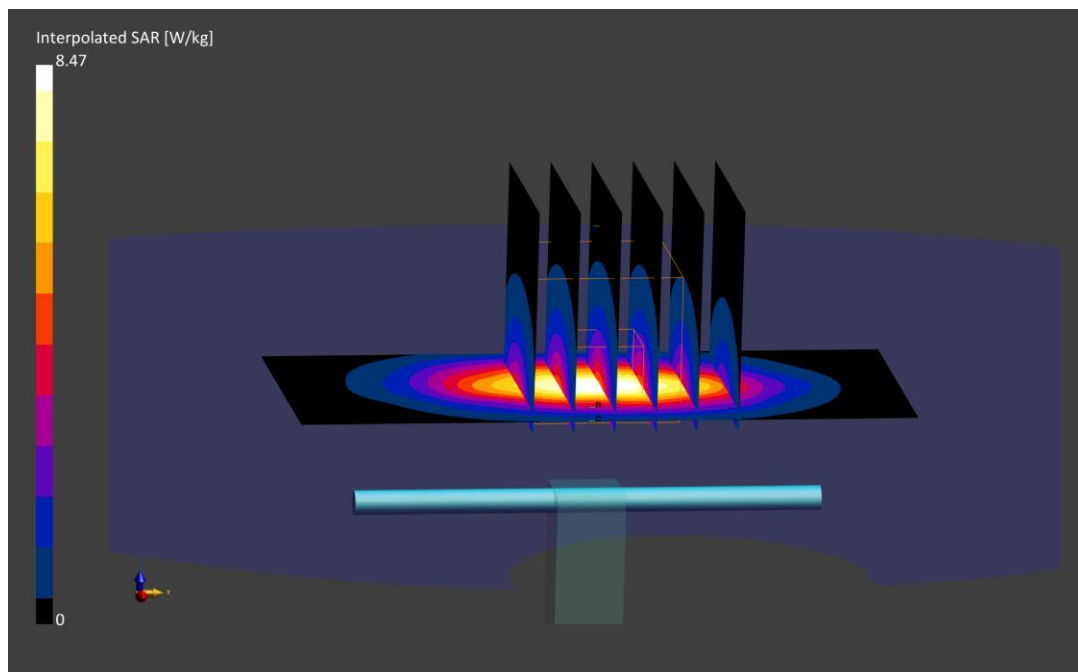
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 8.47 W/kg

SAR(1 g) = 4.21 W/kg

Deviation (1 g) = 3.95%



PCTEST

DUT: Dipole 2450.0 MHz; Type: D2450V2; Serial: 719

Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2450.0 MHz; cond = 1.86 S/m; perm = 39.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/03/2022; Ambient Temp: 20.5°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7660; ConvF:(8.49,8.49,8.49); Calibrated: 2021-06-28
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; Calibrated: 2021-06-22
Phantom: Twin-SAM V8.0; Serial: 2056
Measurement SW: DASY Module SAR V16.0.0.65

2450 MHz System Verification at 20 dBm (100 mW)

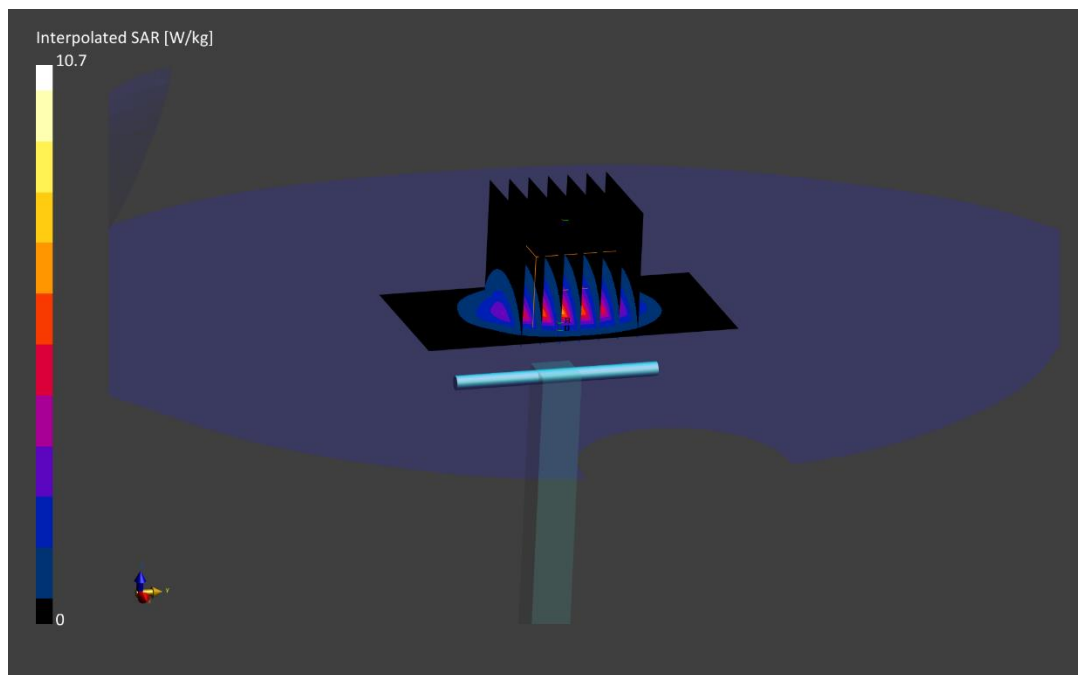
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 10.7 W/kg

SAR(1 g) = 5.10 W/kg

Deviation (1 g) = -7.27%



PCTEST

DUT: Dipole 2450.0 MHz; Type: D2450V2; Serial: 719

Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2450.0 MHz; cond = 1.85 S/m; perm = 38.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/05/2022; Ambient Temp: 22.8°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7660; ConvF:(8.49,8.49,8.49); Calibrated: 2021-06-28
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; Calibrated: 2021-06-22
Phantom: Twin-SAM V8.0; Serial: 2056
Measurement SW: DASY Module SAR V16.0.0.65

2450 MHz System Verification at 20 dBm (100 mW)

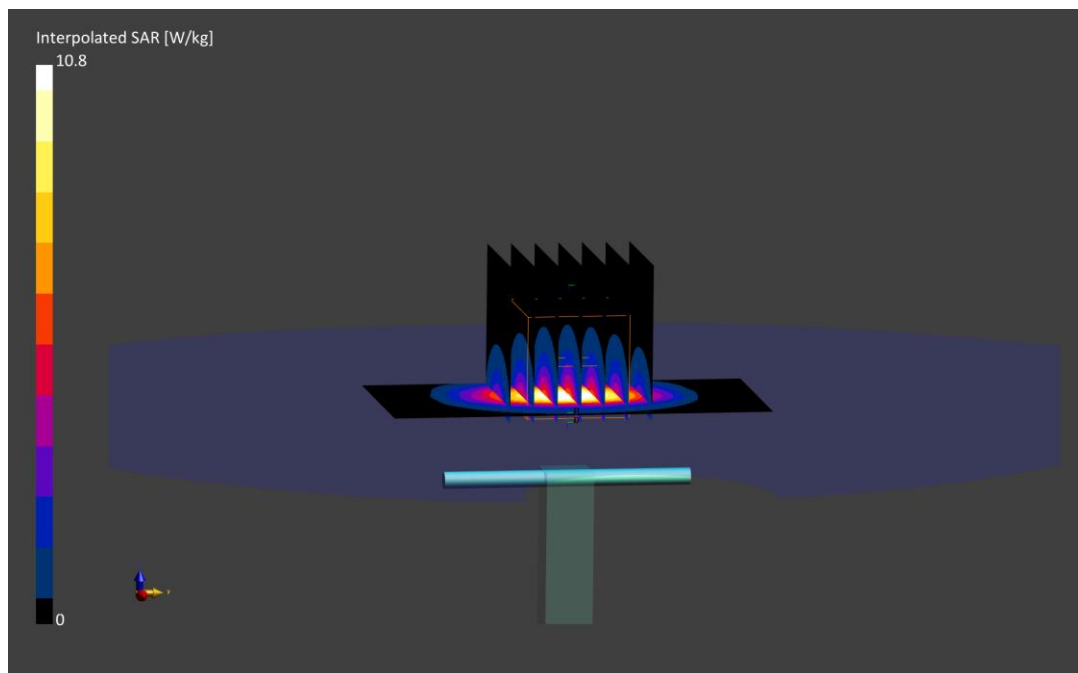
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 10.9 W/kg

SAR(1 g) = 5.13 W/kg

Deviation (1 g) = -6.73%



PCTEST

DUT: Dipole 2600.0 MHz; Type: D2600V2; Serial: 1004

Communication System: UID: 0, CW; Frequency: 2600.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2600.0 MHz; cond = 1.98 S/m; perm = 39.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/03/2022; Ambient Temp: 20.5°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7660; ConvF:(8.26,8.26,8.26); Calibrated: 2021-06-28
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; Calibrated: 2021-06-22
Phantom: Twin-SAM V8.0; Serial: 2056
Measurement SW: DASY Module SAR V16.0.0.65

2600 MHz System Verification at 20 dBm (100 mW)

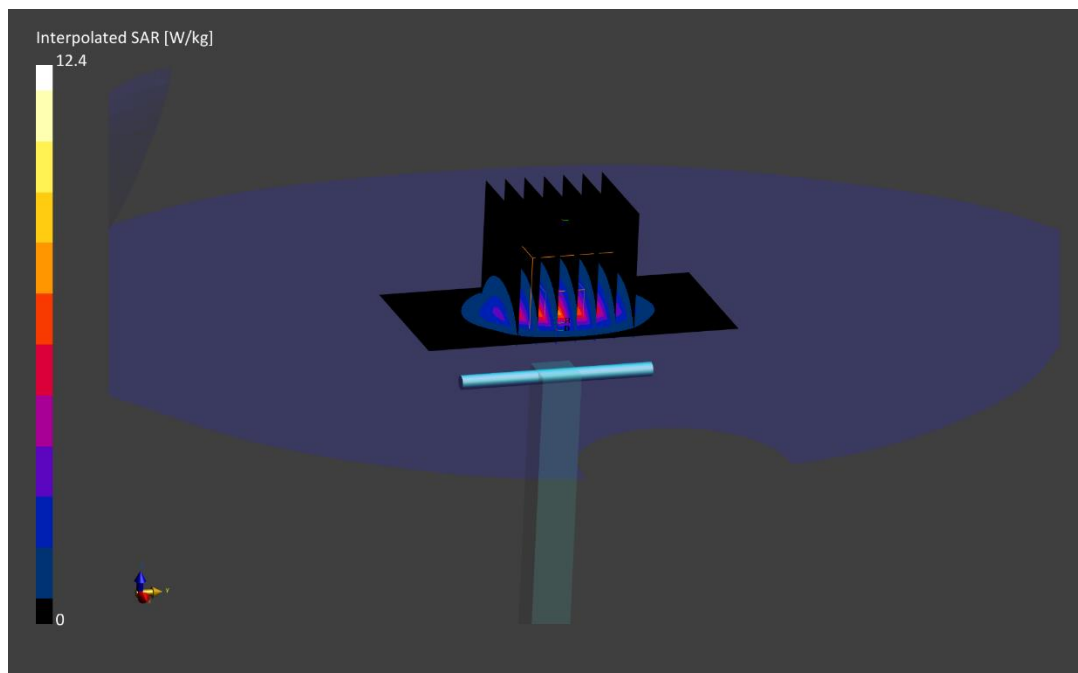
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 12.4 W/kg

SAR(1 g) = 5.71 W/kg

Deviation (1 g) = -1.21%



PCTEST

DUT: Dipole 5250.0 MHz; Type: D5GHzV2; Serial: 1191

Communication System: UID: 0, CW; Frequency: 5250.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5250.0 MHz; cond = 4.73 S/m; perm = 36.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/03/2022; Ambient Temp: 20.1 °C; Tissue Temp: 21.0 °C

Probe: EX3DV4 - SN7668; ConvF:(5.1,5.1,5.1); Calibrated: 2021-08-04
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1272; Calibrated: 2021-03-18
Phantom: Twin-SAM V8.0; Serial: 2063
Measurement SW: DASY Module SAR V16.0.0.116

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) = 14.4 W/kg

SAR(1 g) = 3.78 W/kg

Deviation (1 g) = -5.03%



PCTEST

DUT: Dipole 5600.0 MHz; Type: D5GHzV2; Serial: 1191

Communication System: UID: 0, CW; Frequency: 5600.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5600.0 MHz; cond = 5.15 S/m; perm = 35.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/03/2022; Ambient Temp: 20.1°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7668; ConvF:(4.51,4.51,4.51); Calibrated: 2021-08-04
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1272; Calibrated: 2021-03-18
Phantom: Twin-SAM V8.0; Serial: 2063
Measurement SW: DASY Module SAR V16.0.0.116

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) = 16.8 W/kg

SAR(1 g) = 4.08 W/kg

Deviation (1 g) = -0.61%



PCTEST

DUT: Dipole 5750.0 MHz; Type: D5GHzV2; Serial: 1191

Communication System: UID: 0, CW; Frequency: 5750.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5750.0 MHz; cond = 5.34 S/m; perm = 35.2; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/03/2022; Ambient Temp: 20.1°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7668; ConvF:(4.68,4.68,4.68); Calibrated: 2021-08-04
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1272; Calibrated: 2021-03-18
Phantom: Twin-SAM V8.0; Serial: 2063
Measurement SW: DASY Module SAR V16.0.0.116

5750 MHz System Verification at 17 dBm (50 mW)

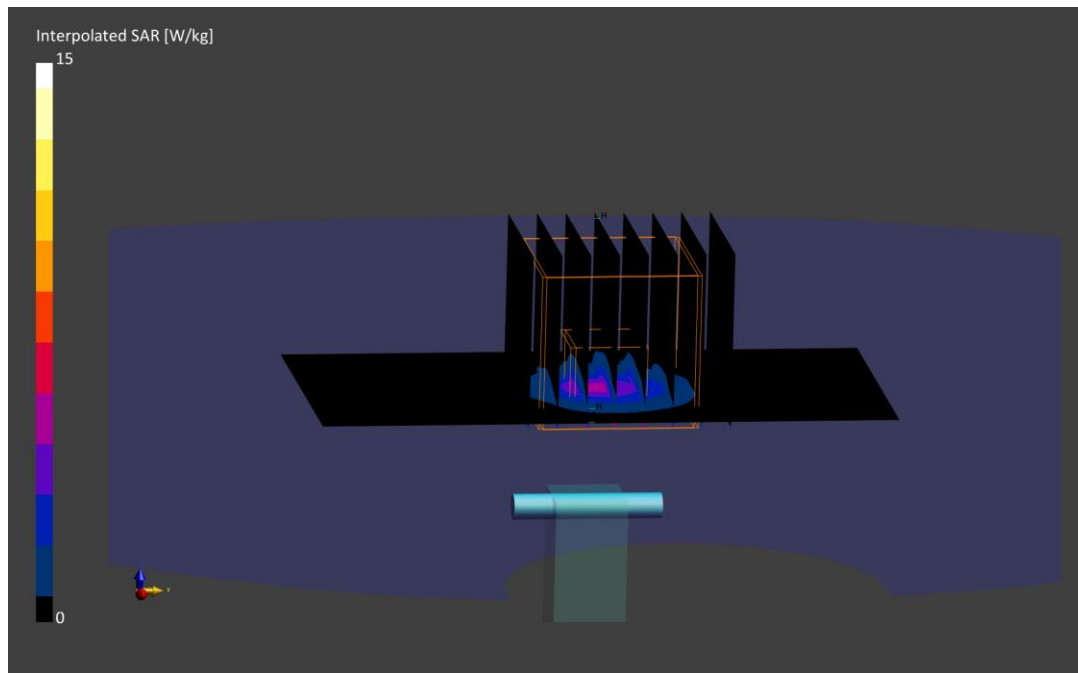
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 15.0 W/kg

SAR(1 g) = 3.72 W/kg

Deviation (1 g) = -4.86%



PCTEST

DUT: Dipole 5800.0 MHz; Type: D5GHzV2; Serial: 1191

Communication System: UID: 0, CW; Frequency: 5800.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
f = 5800.0 MHz; cond = 5.43 S/m; perm = 33.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/11/2022; Ambient Temp: 22.1 °C; Tissue Temp: 20.1 °C

Probe: EX3DV4 - SN7552; ConvF:(4.58,4.58,4.58); Calibrated: 2021-09-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; Calibrated: 2021-06-22
Phantom: Twin-SAM V8.0; Serial: 2056
Measurement SW: DASY Module SAR V16.0.0.65

5800 MHz System Verification at 17 dBm (50 mW)

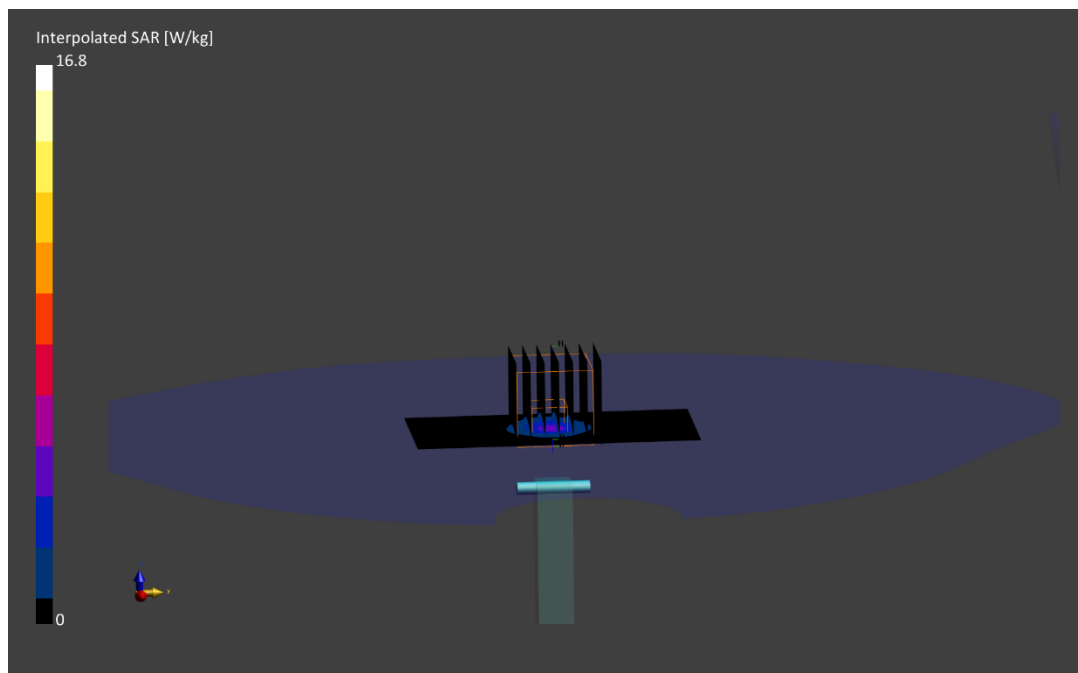
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 16.8 W/kg

SAR(1 g) = 3.84 W/kg

Deviation (1 g) = -3.03%



PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial:1034

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.994 \text{ S/m}$; $\epsilon_r = 53.709$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 01/04/2022; Ambient Temp: 22.6°C; Tissue Temp: 22.3°C

Probe: EX3DV4 - SN7558; ConvF(10.38, 10.38, 10.38) @ 750 MHz; Calibrated: 9/17/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1364; Calibrated: 9/13/2021

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1626

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

750 MHz System Verification at 23.0 dBm (200 mW)

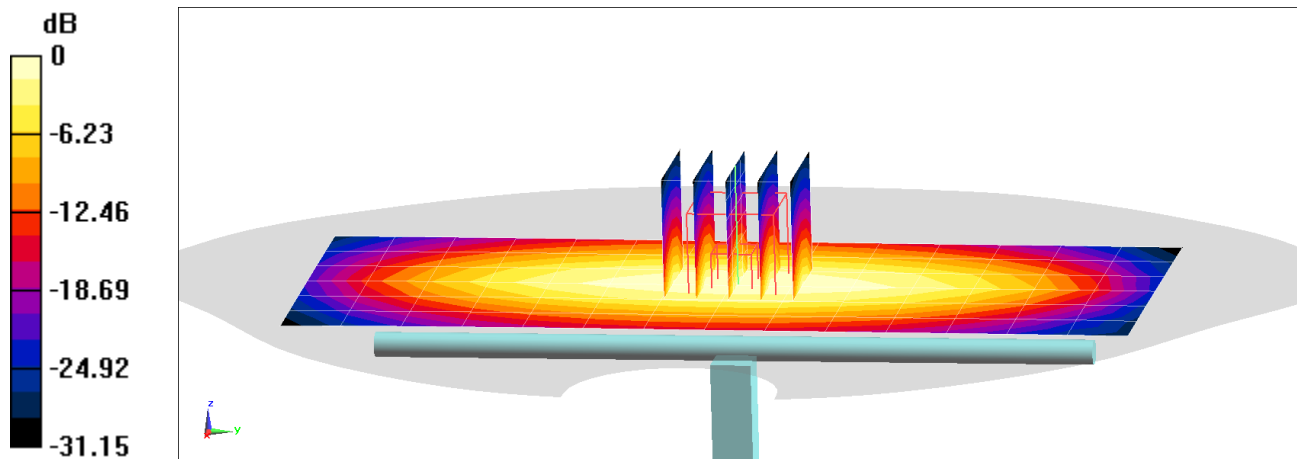
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.88 W/kg

SAR(1 g) = 1.83 W/kg

Deviation(1 g) = 2.69%



0 dB = 2.46 W/kg = 3.91 dBW/kg

PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d119

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.994 \text{ S/m}$; $\epsilon_r = 55.263$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 12/21/2021; Ambient Temp: 21.8°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7637; ConvF(10.77, 10.77, 10.77) @ 835 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1652; Calibrated: 3/1/2021

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CE; Serial: 1934

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

835 MHz System Verification at 23.0 dBm (200 mW)

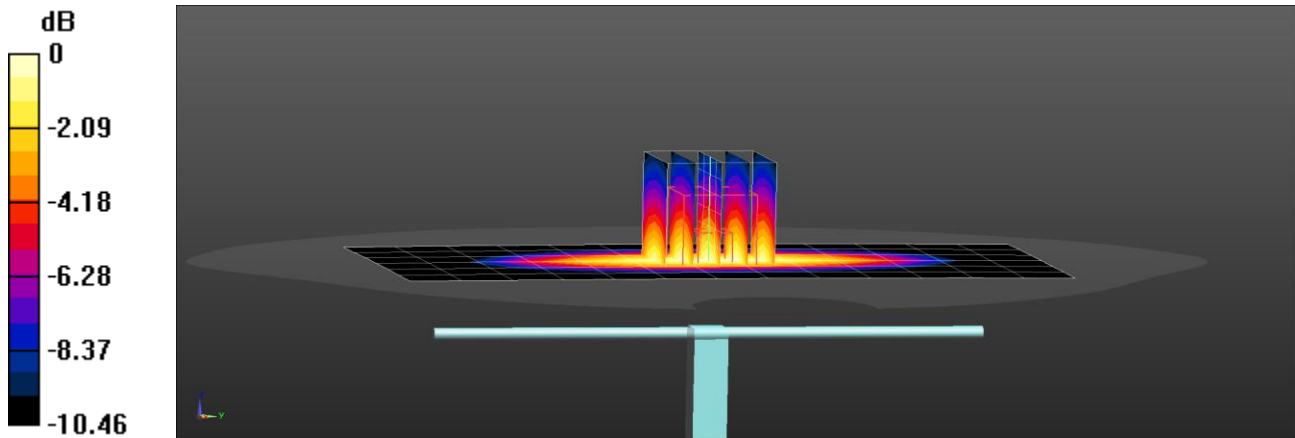
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 3.11 W/kg

SAR(1 g) = 2.09 W/kg

Deviation(1 g) = 5.56%



0 dB = 2.77 W/kg = 4.42 dBW/kg

PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d119

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium: 835 Body Medium parameters used:
 $f = 835 \text{ MHz}$; $\sigma = 1.006 \text{ S/m}$; $\epsilon_r = 55.816$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 12/30/2021; Ambient Temp: 22.0°C; Tissue Temp: 22.2°C

Probe: EX3DV4 - SN7637; ConvF(10.77, 10.77, 10.77) @ 835 MHz; Calibrated: 3/3/2021
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1652; Calibrated: 3/1/2021
Phantom: Twin-SAM V5.0; Type: QD 000 P40 CE; Serial: 1934
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

835 MHz System Verification at 23.0 dBm (200 mW)

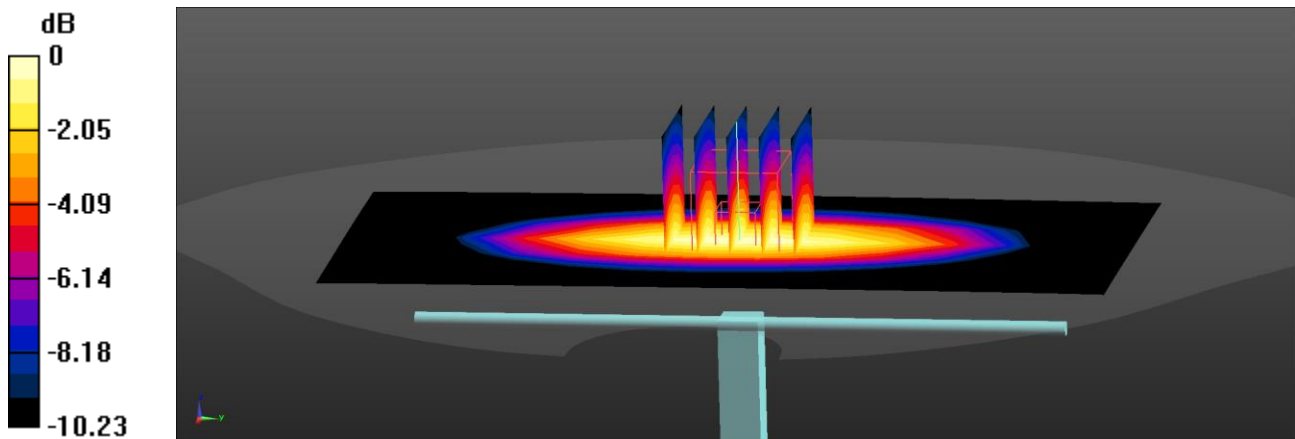
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 3.05 W/kg

SAR(1 g) = 2.05 W/kg

Deviation(1 g) = 3.54%



0 dB = 2.72 W/kg = 4.35 dBW/kg

PCTEST

DUT: Dipole 1750.0 MHz; Type: D1750V2; Serial: 1148

Communication System: UID: 0, CW; Frequency: 1750.0 MHz
Medium: 1750 Body; Medium parameters used:
f = 1750.0 MHz; cond = 1.47 S/m; perm = 53.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 12/27/2021; Ambient Temp: 22.4°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7357; ConvF:(8.12,8.12,8.12); Calibrated: 2021-04-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1407; Calibrated: 2021-04-07
Phantom: Twin-SAM V5.0; Serial: 1757
Measurement SW: DASYS Module SAR V16.0.0.116

1750 MHz System Verification at 20 dBm (100 mW)

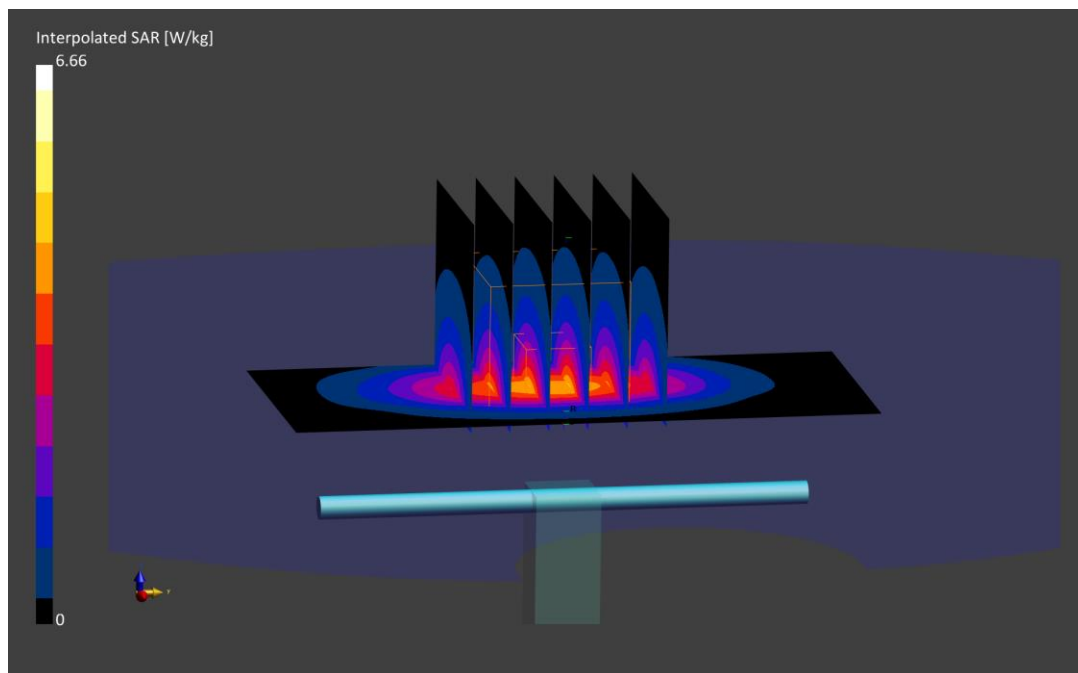
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 6.66 W/kg

SAR(1 g) = 3.67 W/kg; SAR(10 g) = 1.97 W/kg

Deviation (1 g) = 1.10%; Deviation (10 g) = 2.07%;



PCTEST

DUT: Dipole 1750.0 MHz; Type: D1765V2; Serial: 1008

Communication System: UID: 0, CW; Frequency: 1750.0 MHz
Medium: 1750 Body; Medium parameters used:
f = 1750.0 MHz; cond = 1.52 S/m; perm = 51.2; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/17/2022; Ambient Temp: 22.1°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7571; ConvF:(8.0,8.0,8.0); Calibrated: 2021-12-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn859; Calibrated: 2021-12-08
Phantom: Twin-SAM V5.0; Serial: 1646
Measurement SW: DASY Module SAR V16.0.0.116

1750 MHz System Verification at 20 dBm (100 mW)

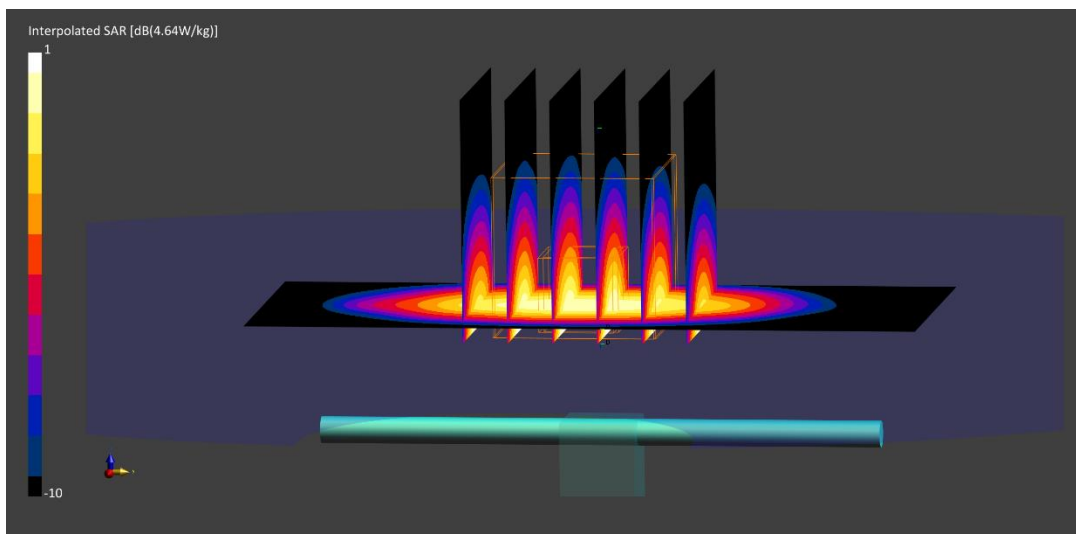
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.03 W/kg

SAR(1 g) = 3.83 W/kg

Deviation (1 g) = 1.32%



PCTEST

DUT: Dipole 1900.0 MHz; Type: D1900V2; Serial: 5d080

Communication System: UID: 0, CW; Frequency: 1900.0 MHz
Medium: 1900 Body; Medium parameters used:
f = 1900.0 MHz; cond = 1.58 S/m; perm = 52.4; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 12/27/2021; Ambient Temp: 23.6°C; Tissue Temp: 23.7°C

Probe: EX3DV4 - SN7410; ConvF:(7.7,7.7,7.7); Calibrated: 2021-07-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1583; Calibrated: 2021-07-13
Phantom: Twin-SAM V5.0; Serial: 1792
Measurement SW: DASY Module SAR V16.0.0.116

1900 MHz System Verification at 20 dBm (100 mW)

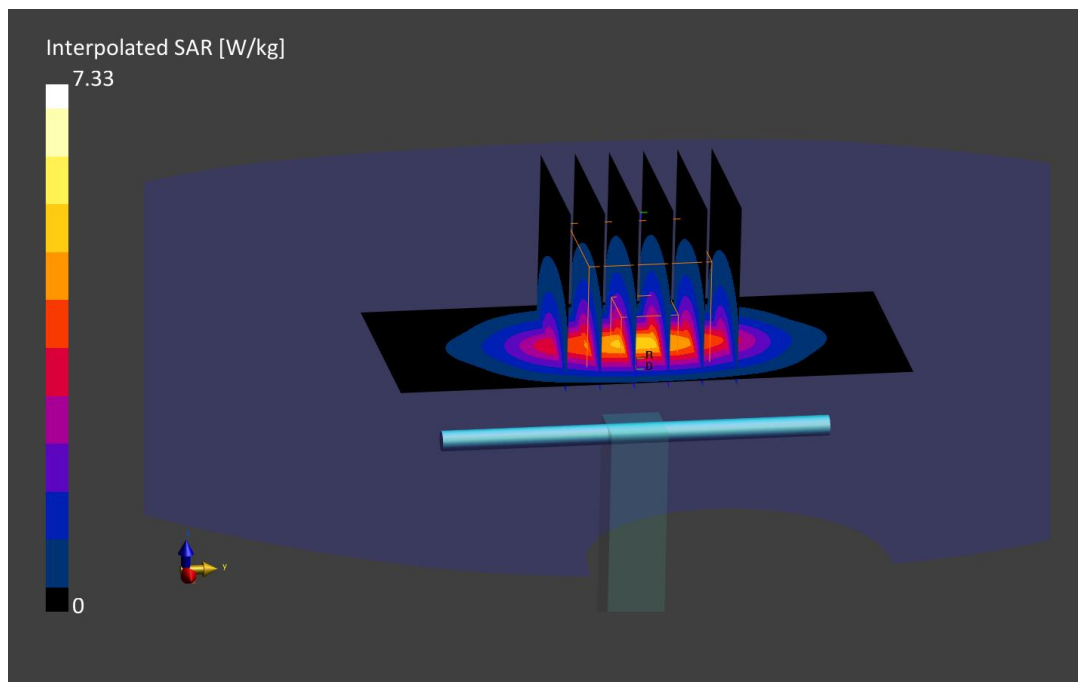
Area Scan (40.0 x 90.0): Measurement grid: dx=10.0 mm, dy=15.0 mm

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) = 7.33 W/kg

SAR(1 g) = 3.98 W/kg; SAR(10 g) = 2.04 W/kg

Deviation (1 g) = -2.21%; Deviation (10 g) = -4.67%



PCTEST

DUT: Dipole 2450.0 MHz; Type: D2450V2; Serial: 719

Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2450.0 MHz; cond = 2.00 S/m; perm = 51.2; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/02/2022; Ambient Temp: 22.0°C; Tissue Temp: 24.0°C

Probe: EX3DV4 - SN3914; ConvF:(7.33,7.33,7.33); Calibrated: 2021-05-18
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; Calibrated: 2021-05-11
Phantom: Twin-SAM V5.0; Serial: 1873
Measurement SW: DASY Module SAR V16.0.0.116

2450 MHz System Verification at 20 dBm (100 mW)

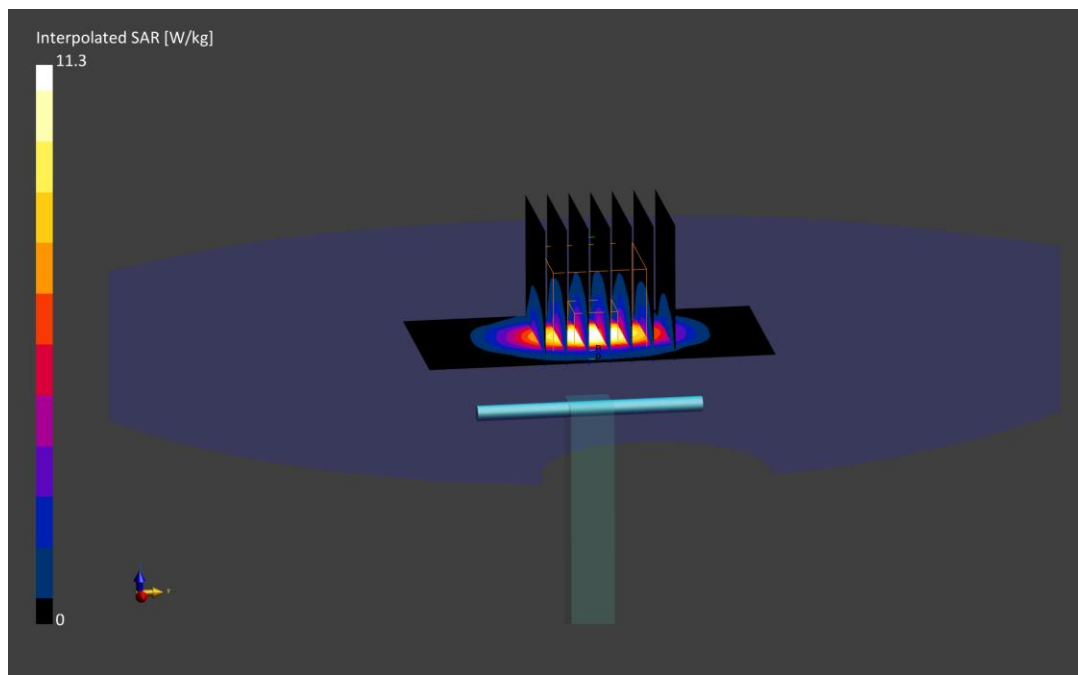
Area Scan (40.0 x 80.0): Measurement grid: dx=5.0 mm, dy=10.0 mm

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) = 11.3 W/kg

SAR(1 g) = 5.18 W/kg

Deviation (1 g) = -0.38%



PCTEST

DUT: Dipole 2450.0 MHz; Type: D2450V2; Serial: 981

Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2450.0 MHz; cond = 1.91 S/m; perm = 53.2; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/04/2022; Ambient Temp: 22.4°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN3914; ConvF:(7.33,7.33,7.33); Calibrated: 2021-05-18
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; Calibrated: 2021-05-11
Phantom: Twin-SAM V5.0; Serial: 1873
Measurement SW: DASY Module SAR V16.0.0.116

2450 MHz System Verification at 20 dBm (100 mW)

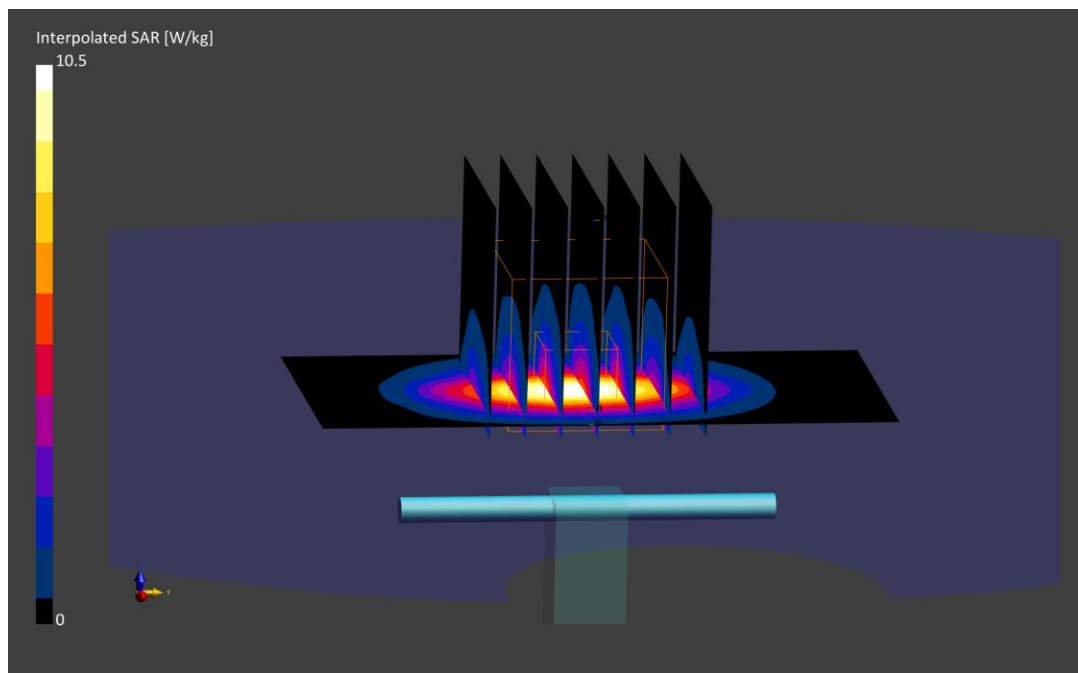
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 4.87 W/kg; SAR(10 g) = 2.22 W/kg

Deviation (1 g) = -3.18%; Deviation (10 g) = -6.33%



PCTEST

DUT: Dipole 2600.0 MHz; Type: D2600V2; Serial: 1071

Communication System: UID: 0, CW; Frequency: 2600.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2600.0 MHz; cond = 2.08 S/m; perm = 52.8; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/04/2022; Ambient Temp: 22.4°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN3914; ConvF:(7.14,7.14,7.14); Calibrated: 2021-05-18
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; Calibrated: 2021-05-11
Phantom: Twin-SAM V5.0; Serial: 1873
Measurement SW: DASY Module SAR V16.0.0.116

2600 MHz System Verification at 20 dBm (100 mW)

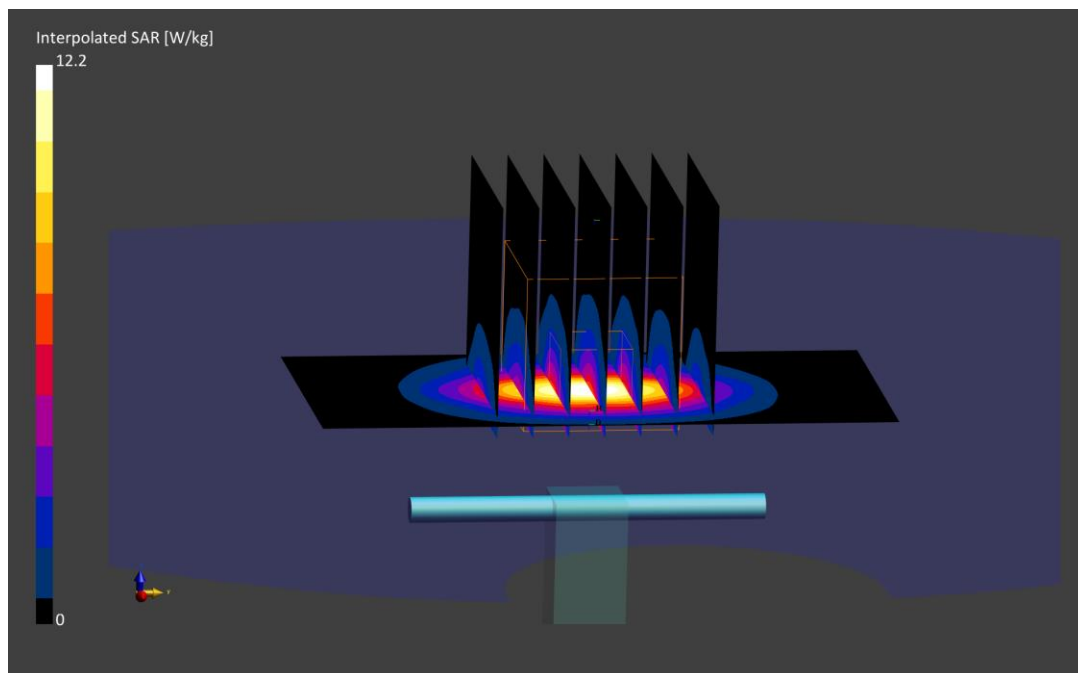
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 12.2 W/kg

SAR(1 g) = 5.33 W/kg; SAR(10 g) = 2.33 W/kg

Deviation (1 g) = -1.84%; Deviation (10 g) = -3.32%



PCTEST

DUT: Dipole 5250.0 MHz; Type: D5GHzV2; Serial: 1191

Communication System: UID: 0, CW; Frequency: 5250.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5250.0 MHz; cond = 5.40 S/m; perm = 48.2; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 12/27/2021; Ambient Temp: 20.3°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7668; ConvF:(4.61,4.61,4.61); Calibrated: 2021-08-04
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1272; Calibrated: 2021-03-18
Phantom: Twin-SAM V5.0; Serial: 1800
Measurement SW: DASY Module SAR V16.0.0.116

5250 MHz System Verification at 17 dBm (50 mW)

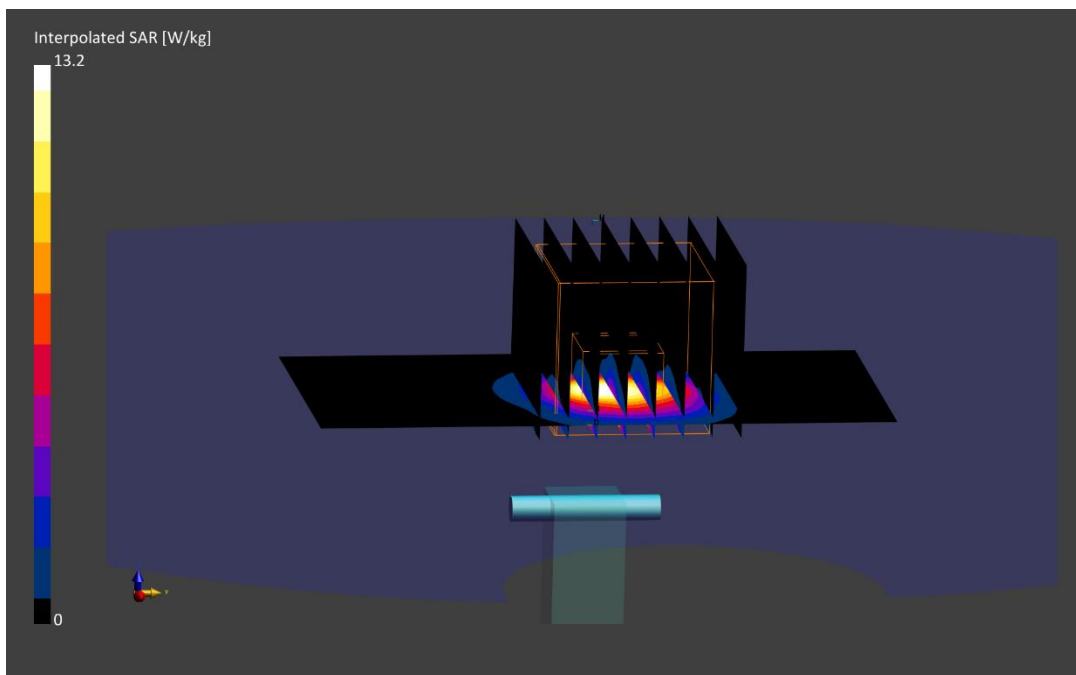
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 13.2 W/kg

SAR(1 g) = 3.43 W/kg; SAR(10 g) = 0.958 W/kg

Deviation (1 g) = -7.42%; Deviation (10 g) = -7.88%



PCTEST

DUT: Dipole 5600.0 MHz; Type: D5GHzV2; Serial: 1191

Communication System: UID: 0, CW; Frequency: 5600.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5600.0 MHz; cond = 5.90 S/m; perm = 47.4; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 12/27/2021; Ambient Temp: 20.3°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7668; ConvF:(4.04,4.04,4.04); Calibrated: 2021-08-04
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1272; Calibrated: 2021-03-18
Phantom: Twin-SAM V5.0; Serial: 1800
Measurement SW: DASY Module SAR V16.0.0.116

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) = 16.3 W/kg

SAR(1 g) = 3.80 W/kg; SAR(10 g) = 1.05 W/kg

Deviation (1 g) = -1.17%; Deviation (10 g) = -1.41%



PCTEST

DUT: Dipole 5750.0 MHz; Type: D5GHzV2; Serial: 1191

Communication System: UID: 0, CW; Frequency: 5750.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5750.0 MHz; cond = 6.13 S/m; perm = 47.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 12/27/2021; Ambient Temp: 20.3°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7668; ConvF:(4.02,4.02,4.02); Calibrated: 2021-08-04
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1272; Calibrated: 2021-03-18
Phantom: Twin-SAM V5.0; Serial: 1800
Measurement SW: DASY Module SAR V16.0.0.116

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) = 15.3 W/kg

SAR(1 g) = 3.48 W/kg; SAR(10 g) = 0.982 W/kg

Deviation (1 g) = -6.45%; Deviation (10 g) = -5.12%



PCTEST

DUT: Dipole 5800.0 MHz; Type: D5GHzV2; Serial: 1191

Communication System: UID: 0, CW; Frequency: 5800.0 MHz
Medium: 5200-5800 Body; Medium parameters used:
f = 5800.0 MHz; cond = 6.19 S/m; perm = 46.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/13/2022; Ambient Temp: 23.5°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7552; ConvF:(4.05,4.05,4.05); Calibrated: 2021-09-20
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; Calibrated: 2021-06-22
Phantom: Twin-SAM V8.0; Serial: 2056
Measurement SW: DASY Module SAR V16.0.0.65

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) = 15.8 W/kg

SAR(1 g) = 3.71 W/kg; SAR(10 g) = 1.05 W/kg

Deviation (1 g) = 0.95%; Deviation (10 g) = 3.96%

