

Appendix A

Detailed System Check Results

1. System Performance Check
System Performance Check 13 MHz Head
System Performance Check 750 MHz Head
System Performance Check 835 MHz Head
System Performance Check 1750 MHz Head
System Performance Check 1900 MHz Head
System Performance Check 2450 MHz Head
System Performance Check 2600 MHz Head
System Performance Check 3500 MHz Head
System Performance Check 3900 MHz Head
System Performance Check 5250 MHz Head
System Performance Check 5600 MHz Head
System Performance Check 5750 MHz Head

Test Laboratory: SGS-SAR Lab

System Check_Head_13MHz

DUT: CLA-13; Type: CLA-13; Serial: 1032

Communication System: UID 0, CW (0); Frequency: 13 MHz; Duty Cycle: 1:1

Medium: HSL_13; Medium parameters used: $f = 13 \text{ MHz}$; $\sigma = 0.757 \text{ S/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(15.3, 15.3, 15.3); Calibrated: 2022-09-30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: SAR 8-2; Type: EL4; Serial: TP:1143
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Pin=250mW/Area Scan (8x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.152 W/kg

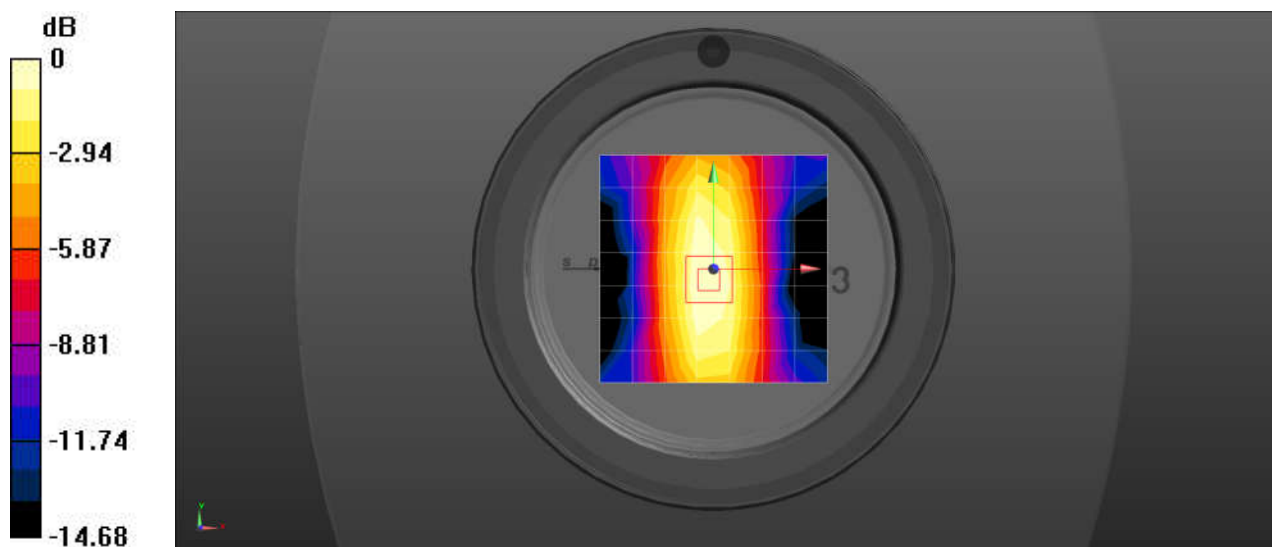
Configuration/Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.05 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.201 W/kg

SAR(1 g) = 0.113 W/kg; SAR(10 g) = 0.071 W/kg

Maximum value of SAR (measured) = 0.164 W/kg



0 dB = 0.152 W/kg = -8.18 dBW/kg

Measurement Report for Device, , , CW, Channel 0 (750.0 MHz)

Communication System: ; Frequency: 750.0

Medium: HSL. Medium parameters used: $f = 750.0$ MHz; $\sigma = 0.880$ S/m; $\epsilon_r = 43.8$

DASY8 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.58, 9.58, 9.58); Calibrated: 2022-09-30
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2103
- Measurement Software: cDASY8 V16.2.0.1425

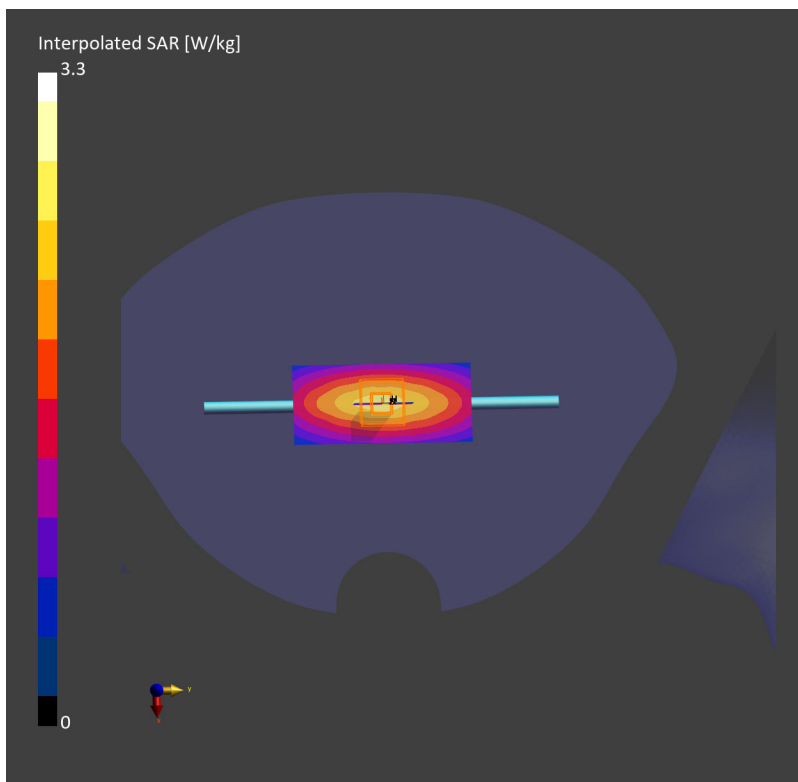
Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm

SAR (1g) = 2.28 W/kg; SAR (10g) = 1.51 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 6.0 mm x 6.0 mm x 1.5 mm

Power Drift = -0.11 dB

SAR (1g) = 2.13 W/kg; SAR (10g) = 1.40 W/kg;



Measurement Report for Device, , , CW, Channel 0 (835.0 MHz)

Communication System: ; Frequency: 835.0

Medium: HSL. Medium parameters used: $f = 835.0$ MHz; $\sigma = 0.945$ S/m; $\epsilon_r = 43.4$

DASY8 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.3, 9.3, 9.3); Calibrated: 2022-09-30
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2103
- Measurement Software: cDASY8 V16.2.0.1425

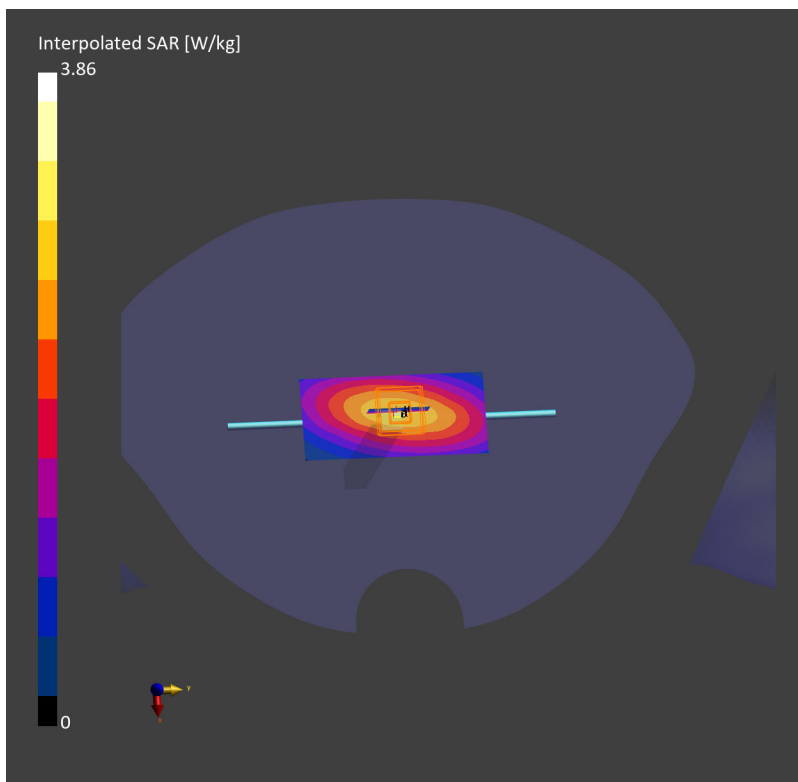
Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm

SAR (1g) = 2.55 W/kg; SAR (10g) = 1.68 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 6.0 mm x 6.0 mm x 1.5 mm

Power Drift = 0.01 dB

SAR (1g) = 2.45 W/kg; SAR (10g) = 1.59 W/kg;



Measurement Report for Device, , , CW, Channel 0 (1750.0 MHz)

Communication System: ; Frequency: 1750.0

Medium: HSL. Medium parameters used: $f = 1750.0$ MHz; $\sigma = 1.33$ S/m; $\epsilon_r = 39.6$

DASY8 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(8.17, 8.17, 8.17); Calibrated: 2022-09-30
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2103
- Measurement Software: cDASY8 V16.2.0.1425

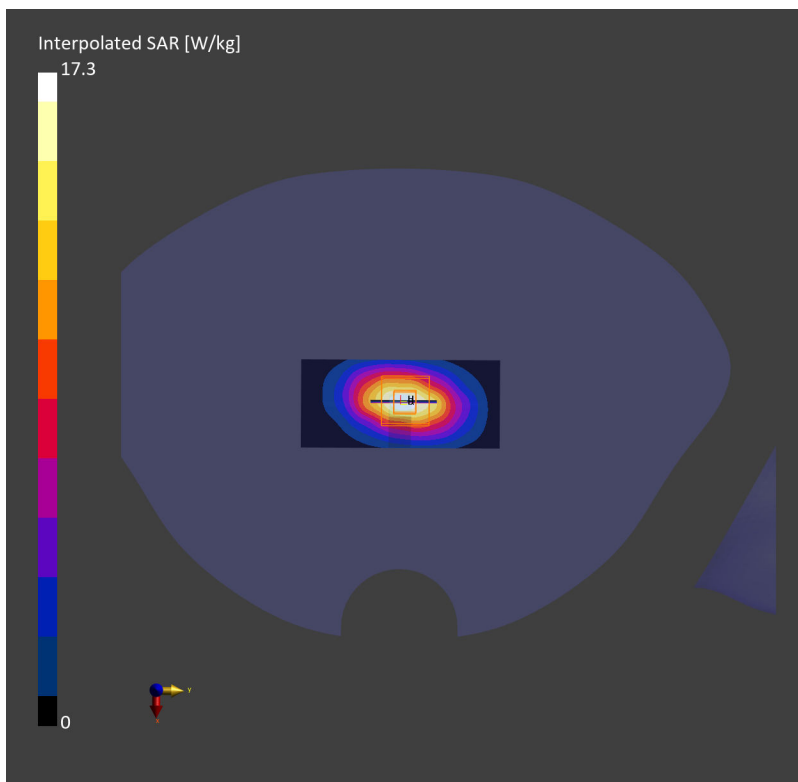
Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm

SAR (1g) = 9.36 W/kg; SAR (10g) = 5.02 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 6.0 mm x 6.0 mm x 1.5 mm

Power Drift = -0.05 dB

SAR (1g) = 9.06 W/kg; SAR (10g) = 4.83 W/kg;



Measurement Report for Device, , CW, Channel 0 (1900.0 MHz)

Communication System: ; Frequency: 1900.0

Medium: HSL. Medium parameters used: $f = 1900.0$ MHz; $\sigma = 1.47$ S/m; $\epsilon_r = 39.1$

DASY8 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.97, 7.97, 7.97); Calibrated: 2022-09-30
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2103
- Measurement Software: cDASY8 V16.2.0.1425

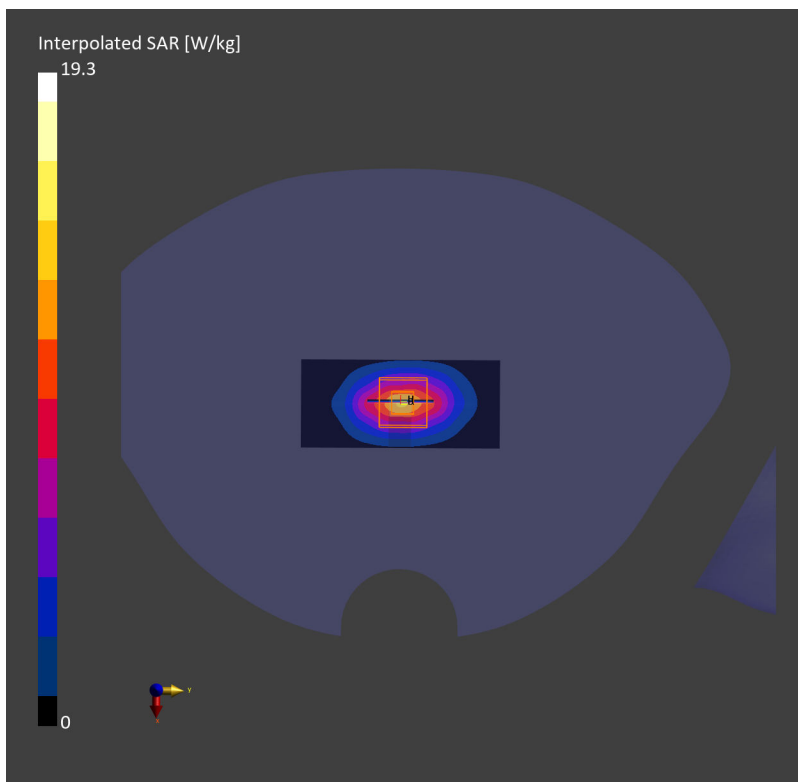
Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm

SAR (1g) = 10.4 W/kg; SAR (10g) = 5.36 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 6.0 mm x 6.0 mm x 1.5 mm

Power Drift = -0.08 dB

SAR (1g) = 10.1 W/kg; SAR (10g) = 5.21 W/kg;



Measurement Report for Device, , CW, Channel 0 (2450.0 MHz)

Communication System: ; Frequency: 2450.0

Medium: HSL. Medium parameters used: $f = 2450.0$ MHz; $\sigma = 1.80$ S/m; $\epsilon_r = 40.2$

DASY8 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.26, 7.26, 7.26); Calibrated: 2022-09-30
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2103
- Measurement Software: cDASY8 V16.2.0.1425

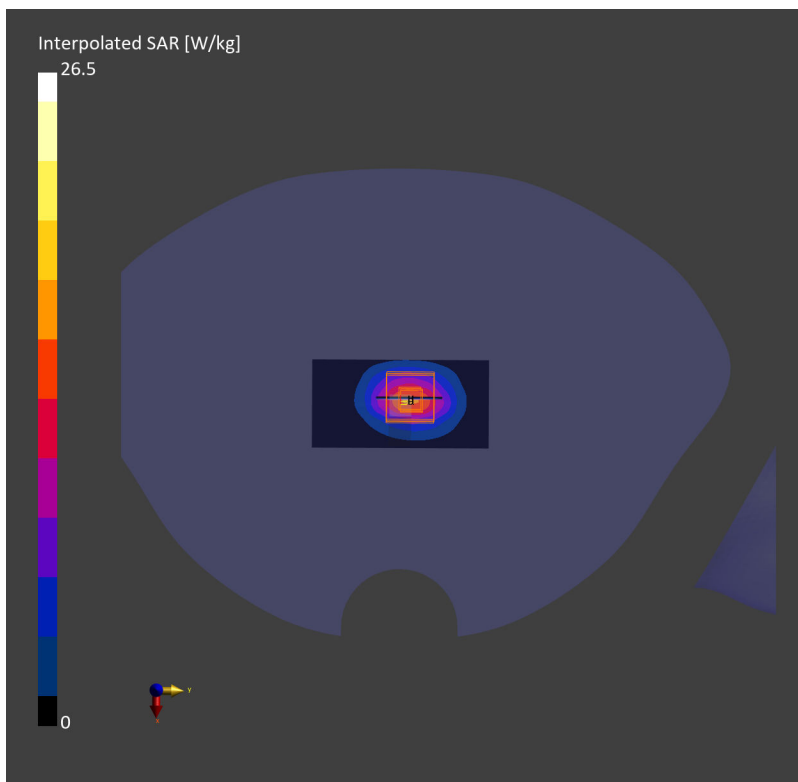
Area Scan (40.0 mm x 80.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 12.3 W/kg; SAR (10g) = 5.82 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 1.5 mm

Power Drift = -0.03 dB

SAR (1g) = 12.5 W/kg; SAR (10g) = 5.86 W/kg;



Measurement Report for Device, , , CW, Channel 0 (2600.0 MHz)

Communication System: ; Frequency: 2600.0

Medium: HSL. Medium parameters used: $f = 2600.0$ MHz; $\sigma = 1.89$ S/m; $\epsilon_r = 37.1$

DASY8 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.07, 7.07, 7.07); Calibrated: 2022-09-30
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2103
- Measurement Software: cDASY8 V16.2.0.1425

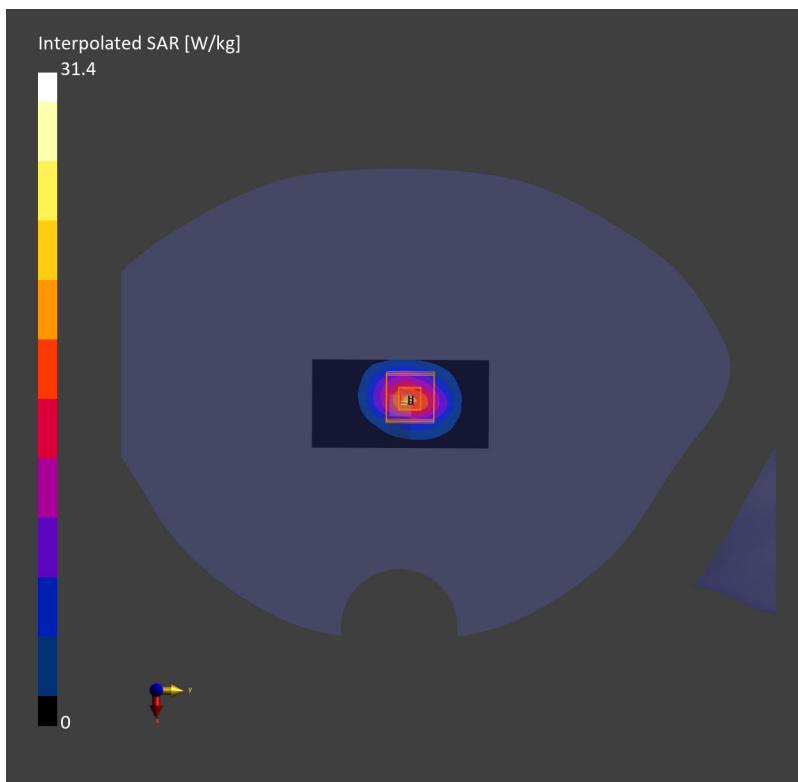
Area Scan (40.0 mm x 80.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 14.6 W/kg; SAR (10g) = 6.70 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 1.5 mm

Power Drift = -0.17 dB

SAR (1g) = 14.7 W/kg; SAR (10g) = 6.66 W/kg;



Date: 2023-06-07

Measurement Report for Device, , , CW, Channel 0 (3500.0 MHz)

Communication System: ; Frequency: 3500.0

Medium: HSL. Medium parameters used: $f = 3500.0$ MHz; $\sigma = 2.99$ S/m; $\epsilon_r = 38.6$

DASY8 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(6.77, 6.77, 6.77); Calibrated: 2022-09-30
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2103
- Measurement Software: cDASY8 V16.2.0.1425

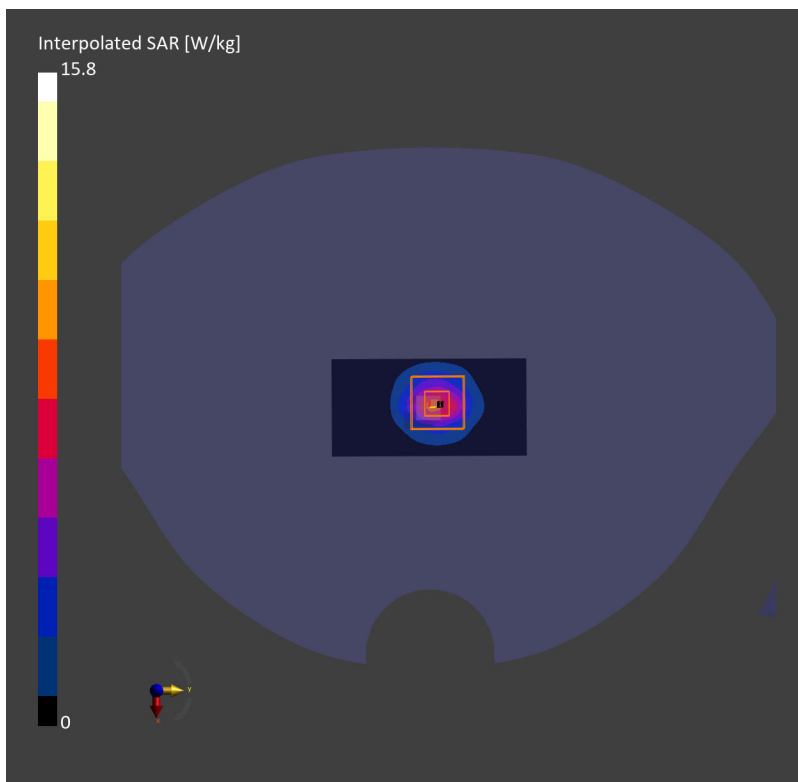
Area Scan (40.0 mm x 80.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 6.07 W/kg; SAR (10g) = 2.35 W/kg;

Zoom Scan (28.0 mm x 28.0 mm x 28.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 1.4 mm

Power Drift = -0.11 dB

SAR (1g) = 6.14 W/kg; SAR (10g) = 2.36 W/kg;



Measurement Report for Device, , , CW, Channel 0 (3900.0 MHz)

Communication System: ; Frequency: 3900.0

Medium: HSL. Medium parameters used: $f = 3900.0$ MHz; $\sigma = 3.45$ S/m; $\epsilon_r = 37.4$

DASY8 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(6.19, 6.19, 6.19); Calibrated: 2022-09-30
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2103
- Measurement Software: cDASY8 V16.2.0.1425

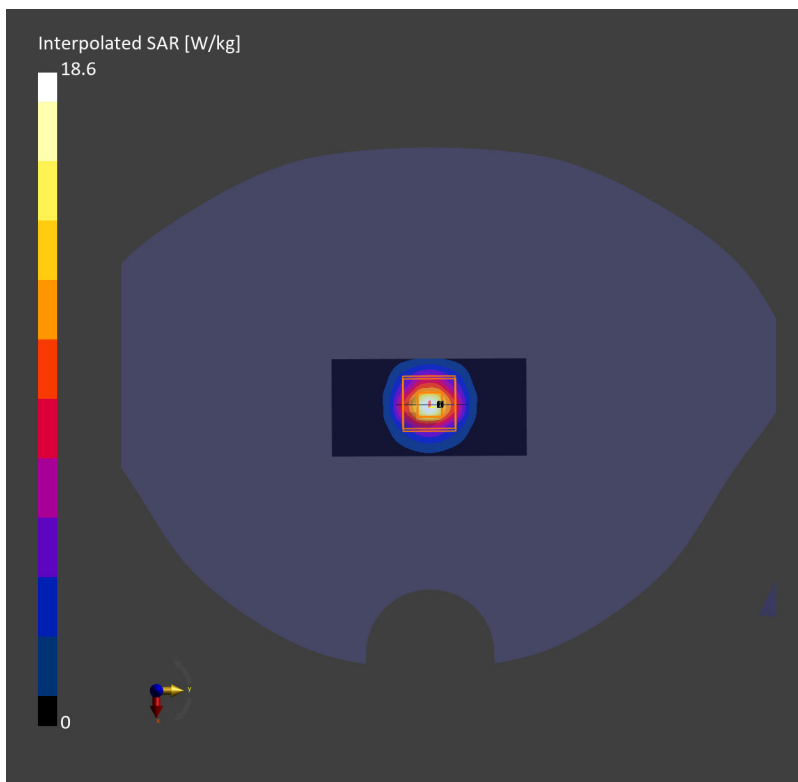
Area Scan (40.0 mm x 80.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 6.73 W/kg; SAR (10g) = 2.39 W/kg;

Zoom Scan (28.0 mm x 28.0 mm x 28.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 1.4 mm

Power Drift = -0.02 dB

SAR (1g) = 6.88 W/kg; SAR (10g) = 2.45 W/kg;



Measurement Report for Device, , , CW, Channel 0 (5250.0 MHz)

Communication System: ; Frequency: 5250.0

Medium: HSL. Medium parameters used: $f = 5250.0$ MHz; $\sigma = 4.78$ S/m; $\epsilon_r = 36.2$

DASY8 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(5.2, 5.2, 5.2); Calibrated: 2022-09-30
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2103
- Measurement Software: cDASY8 V16.2.0.1425

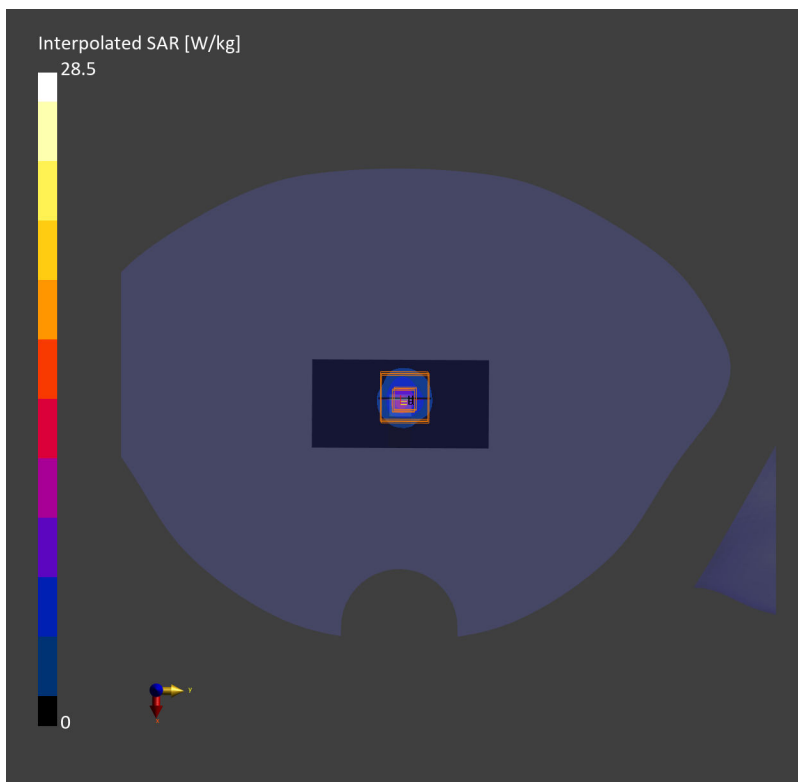
Area Scan (40.0 mm x 80.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 6.84 W/kg; SAR (10g) = 2.04 W/kg;

Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = -0.03 dB

SAR (1g) = 7.49 W/kg; SAR (10g) = 2.16 W/kg;



Measurement Report for Device, , , CW, Channel 0 (5600.0 MHz)

Communication System: ; Frequency: 5600.0

Medium: HSL. Medium parameters used: $f = 5600.0$ MHz; $\sigma = 5.17$ S/m; $\epsilon_r = 35.3$

DASY8 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(4.56, 4.56, 4.56); Calibrated: 2022-09-30
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2103
- Measurement Software: cDASY8 V16.2.0.1425

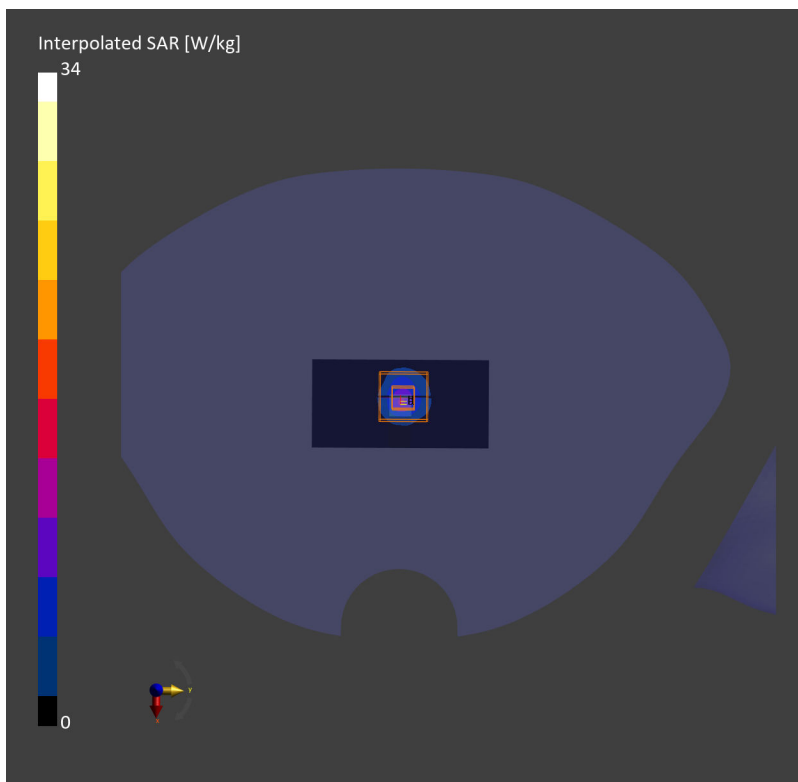
Area Scan (40.0 mm x 80.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 7.61 W/kg; SAR (10g) = 2.26 W/kg;

Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = -0.03 dB

SAR (1g) = 8.39 W/kg; SAR (10g) = 2.38 W/kg;



Measurement Report for Device, , , CW, Channel 0 (5750.0 MHz)

Communication System: ; Frequency: 5750.0

Medium: HSL. Medium parameters used: $f = 5750.0$ MHz; $\sigma = 5.36$ S/m; $\epsilon_r = 35.1$

DASY8 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(4.64, 4.64, 4.64); Calibrated: 2022-09-30
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2103
- Measurement Software: cDASY8 V16.2.0.1425

Area Scan (40.0 mm x 80.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 6.84 W/kg; SAR (10g) = 2.06 W/kg;

Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = 0.07 dB

SAR (1g) = 7.56 W/kg; SAR (10g) = 2.16 W/kg;

