

Appendix A

Detailed System Check Results

1. System Performance Check
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System Performance Check 5250 MHz Head
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System Performance Check 750MHz Head

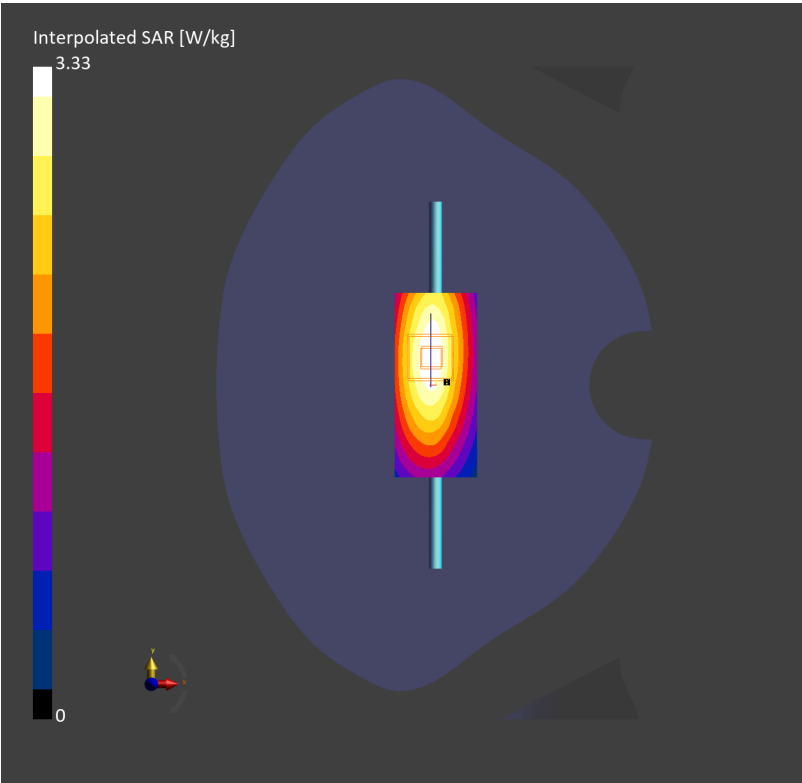
D750V3-SN 1160

Communication System: ; Frequency: 750.000
Medium: Head Simulating Liquid. Medium parameters used: $f=750.000\text{ MHz}$; $\sigma=0.867\text{ S/m}$; $\epsilon_r=43.0$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(10.0, 10.0, 10.0); Calibrated: 2024-08-29
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1830; Calibrated: 2024-10-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2146
 - Measurement Software: cDASY8 V16.4.0.5005

Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm
SAR (1g) = 1.96 W/kg; SAR (10g) = 1.31 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 6.0 mm x 6.0 mm x 1.5 mm
Power Drift = 0.03 dB
SAR (1g) = 1.98 W/kg; SAR (10g) = 1.29 W/kg;
M2/M1 [%]=82.9
Dist 3dB Peak [mm]=16.9



Test Laboratory: SGS-SAR Lab

System Performance Check 835 MHz Head

DUT: D835V2; Type: Dipole; Serial: 4d105

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

Medium: HSL835; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.936 \text{ S/m}$; $\epsilon_r = 40.185$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7620; ConvF(9.87, 10.58, 10.42); Calibrated: 2024/7/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn867; Calibrated: 2024/12/31
- Phantom: SAM 1; Type: SAM; Serial: 1912
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=15mm, Pin=250mW/Area Scan (6x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.27 W/kg

Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 52.68 V/m ; Power Drift = 0.04 dB

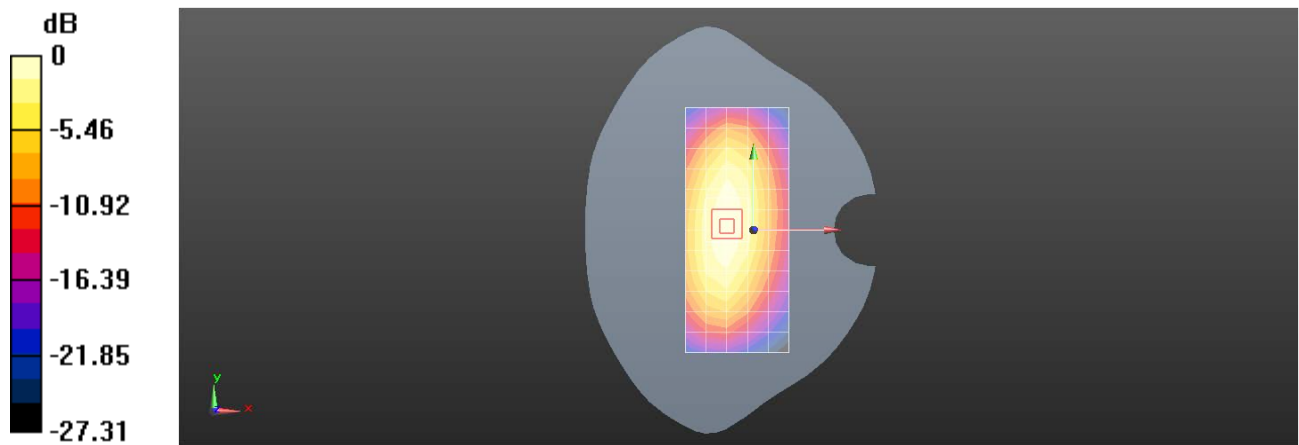
Peak SAR (extrapolated) = 3.70 W/kg

SAR(1 g) = 2.55 W/kg ; SAR(10 g) = 1.67 W/kg

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 66.9%

Maximum value of SAR (measured) = 3.35 W/kg



0 dB = 3.27 W/kg = 5.14 dBW/kg

System Performance Check 835 MHz Head**D835V2-SN 4d105**

Communication System: D835; Frequency: 835.000

Medium: Head Simulating Liquid. Medium parameters used: $f = 835.000$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 42.1$

DASY8 Configuration:

- Probe: EX3DV4 - SN7821; ConvF(10.36, 10.36, 10.36); Calibrated: 2024-07-17
- Sensor-Surface: 1.4 mm
- Electronics: DAE4ip Sn1803; Calibrated: 2024-08-08
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2156
- Measurement Software: cDASY8 V16.4.0.5005

Area Scan (100.0 mm x 180.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 2.40 W/kg; SAR (10g) = 1.58 W/kg;

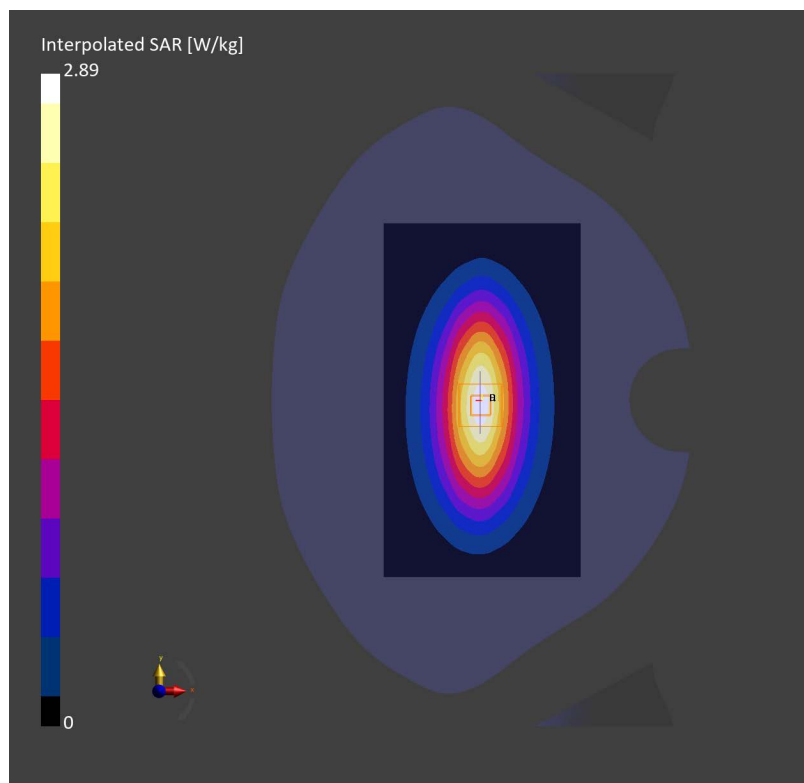
Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.15 dB

SAR (1g) = 2.48 W/kg; SAR (10g) = 1.61 W/kg;

M2/M1 [%]=62.7

Dist 3dB Peak [mm]=17.3



System Performance Check 1750MHz Head

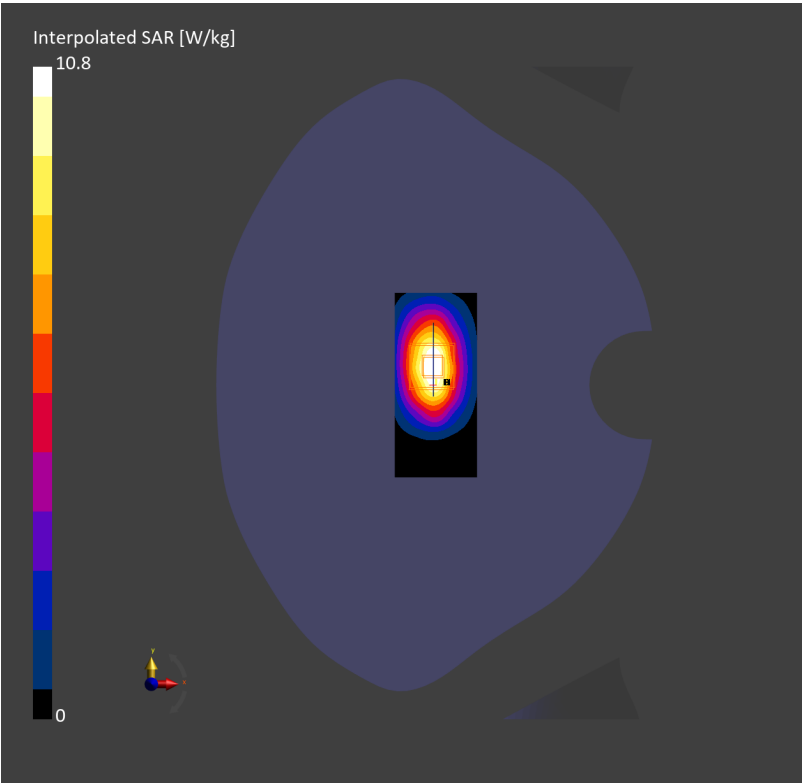
D1750V2-SN 1149

Communication System: ; Frequency: 1750.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 1750.000$ MHz; $\sigma= 1.32$ S/m; $\epsilon_r = 39.0$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(8.19, 8.19, 8.19); Calibrated: 2024-08-29
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1830; Calibrated: 2024-10-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2146
 - Measurement Software: cDASY8 V16.4.0.5005

Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm
SAR (1g) = 8.98 W/kg; SAR (10g) = 4.88 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 6.0 mm x 6.0 mm x 1.5 mm
Power Drift = 0.00 dB
SAR (1g) = 9.16 W/kg; SAR (10g) = 4.87 W/kg;
M2/M1 [%]=80.2
Dist 3dB Peak [mm]=10.8



System Performance Check 1900MHz Head

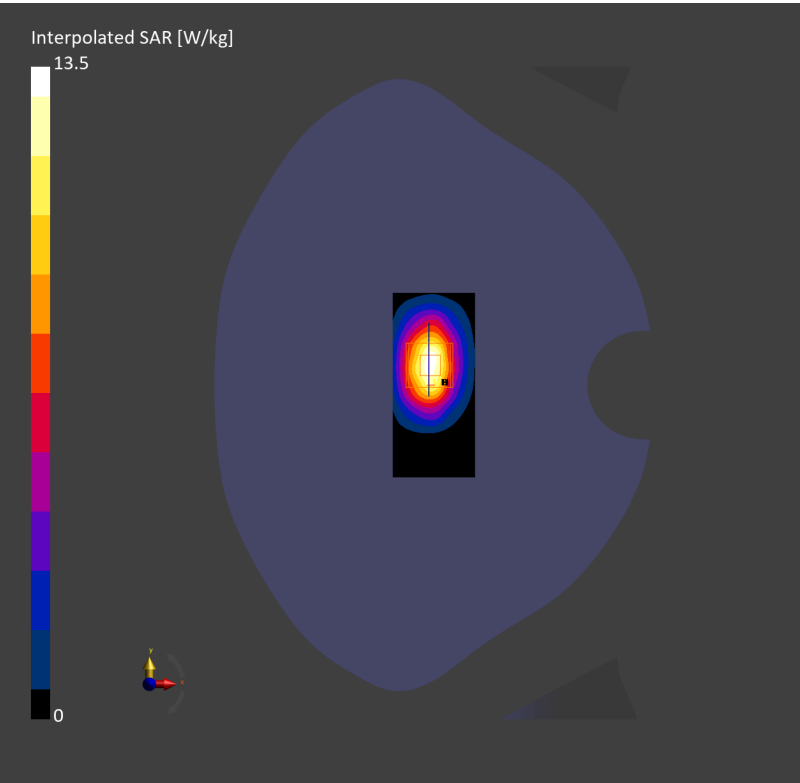
D1900V2- SN 5d028

Communication System: ; Frequency: 1900.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 1900.000$ MHz; $\sigma= 1.42$ S/m; $\epsilon_r = 40.1$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(7.86, 7.86, 7.86); Calibrated: 2024-08-29
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1830; Calibrated: 2024-10-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2146
 - Measurement Software: cDASY8 V16.4.0.5005

Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm
SAR (1g) = 10.5 W/kg; SAR (10g) = 5.51 W/kg;

Zoom Scan (32.0 mm x 32.0 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) = 10.8 W/kg; SAR (10g) = 5.53 W/kg;
M2/M1 [%]=79.7
Dist 3dB Peak [mm]=9.6



System Performance Check 2450 MHz Head

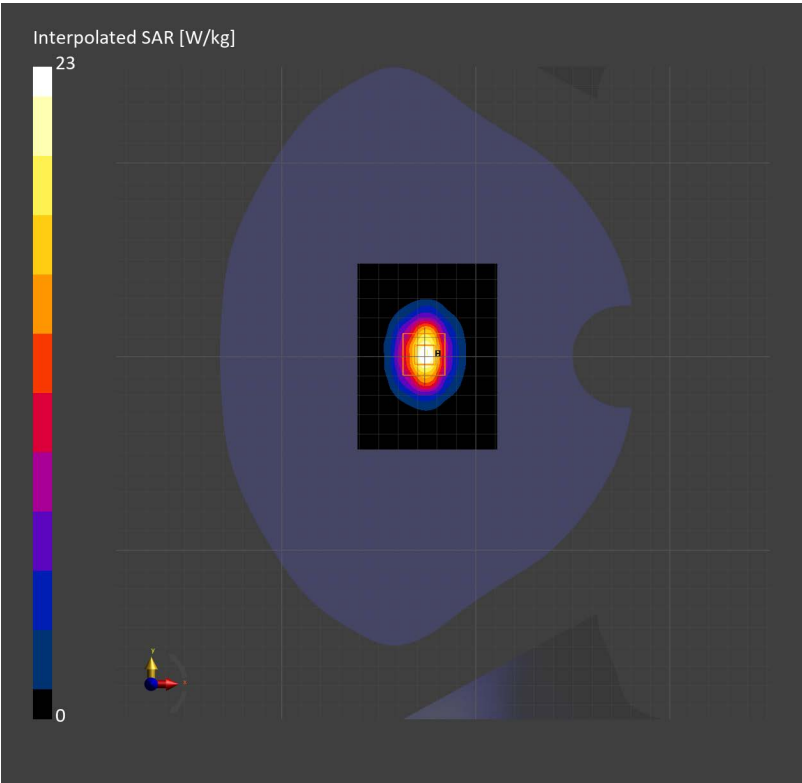
D2450V2-SN 733

Communication System: D2450; Frequency: 2450.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 2450.000$ MHz; $\sigma= 1.80$ S/m; $\epsilon_r = 40.2$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(7.13, 6.8, 7.01); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1803; Calibrated: 2024-08-08
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2156
 - Measurement Software: cDASY8 V16.4.0.5005

Area Scan (72.0 mm x 96.0 mm): Measurement Grid: 12.0 mm x 12.0 mm
SAR (1g) = 12.6 W/kg; SAR (10g) = 5.84 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 5.0 mm
Power Drift = -0.01 dB
SAR (1g) = 11.8 W/kg; SAR (10g) = 5.65 W/kg;
M2/M1 [%]=51.2
Dist 3dB Peak [mm]=9.0



System Performance Check 2600MHz Head

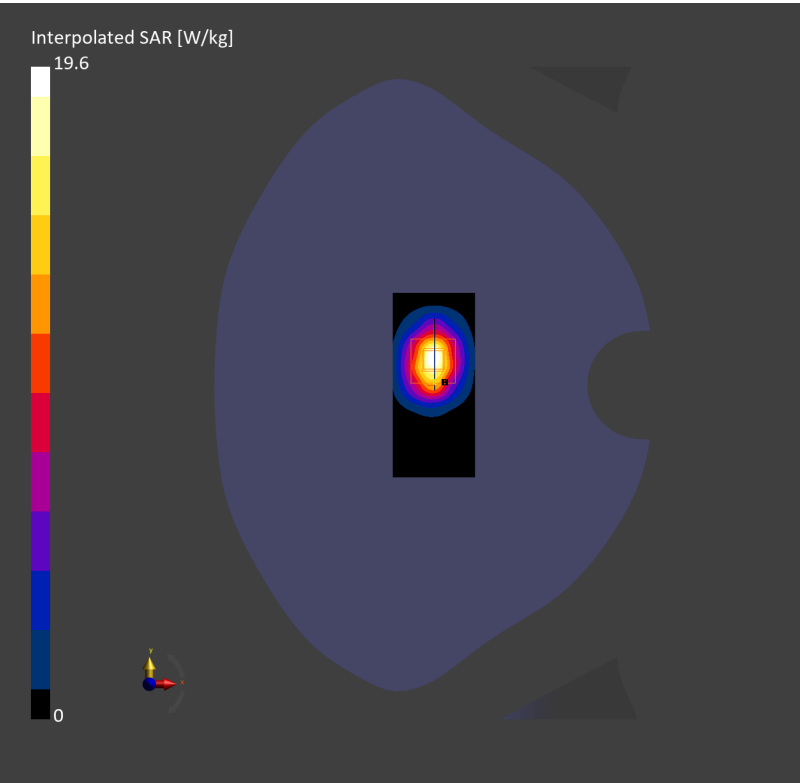
D2600V2-SN 1125

Communication System: ; Frequency: 2600.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 2600.000$ MHz; $\sigma= 1.96$ S/m; $\epsilon_r = 38.7$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(7.33, 7.33, 7.33); Calibrated: 2024-08-29
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1830; Calibrated: 2024-10-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2146
 - Measurement Software: cDASY8 V16.4.0.5005

Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm
SAR (1g) = 14.7 W/kg; SAR (10g) = 6.61 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 1.5 mm
Power Drift = -0.01 dB
SAR (1g) = 14.9 W/kg; SAR (10g) = 6.69 W/kg;
M2/M1 [%]=77.9
Dist 3dB Peak [mm]=9.0



System Performance Check 5250 MHz Head

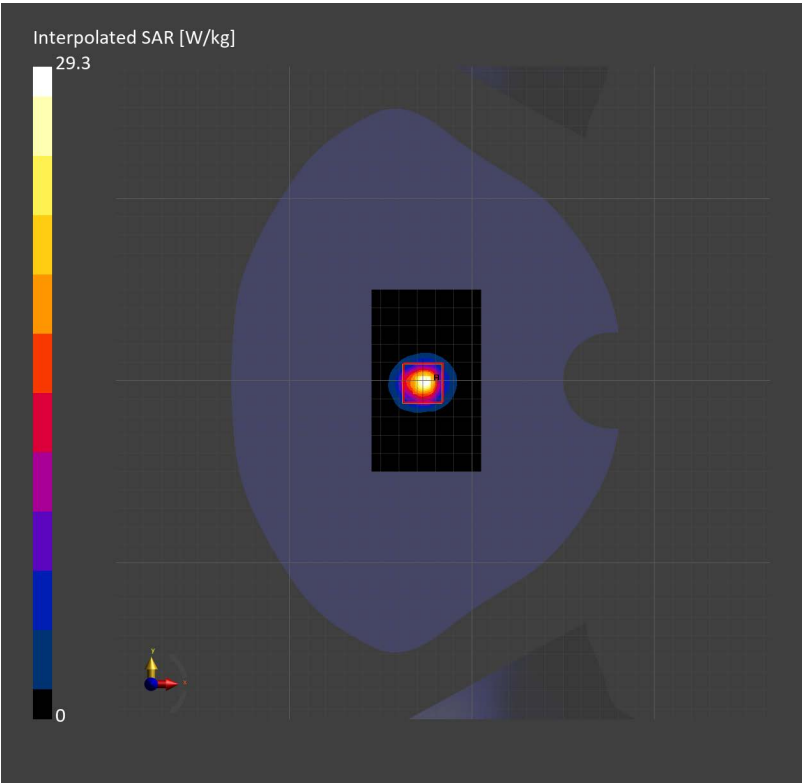
D5GHzV2-SN 1165

Communication System: D5GHz; Frequency: 5250.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 5250.000$ MHz; $\sigma= 4.50$ S/m; $\epsilon_r = 36.1$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(5.52, 5.26, 5.42); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1803; Calibrated: 2024-08-08
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2156
 - Measurement Software: cDASY8 V16.4.0.5005

Area Scan (60.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 7.54 W/kg; SAR (10g) = 2.24 W/kg;

Zoom Scan (24.0 mm x 24.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 2.0 mm
Power Drift = -0.01 dB
SAR (1g) = 8.07 W/kg; SAR (10g) = 2.36 W/kg;
M2/M1 [%]=55.5
Dist 3dB Peak [mm]=7.2



System Performance Check 5600 MHz Head

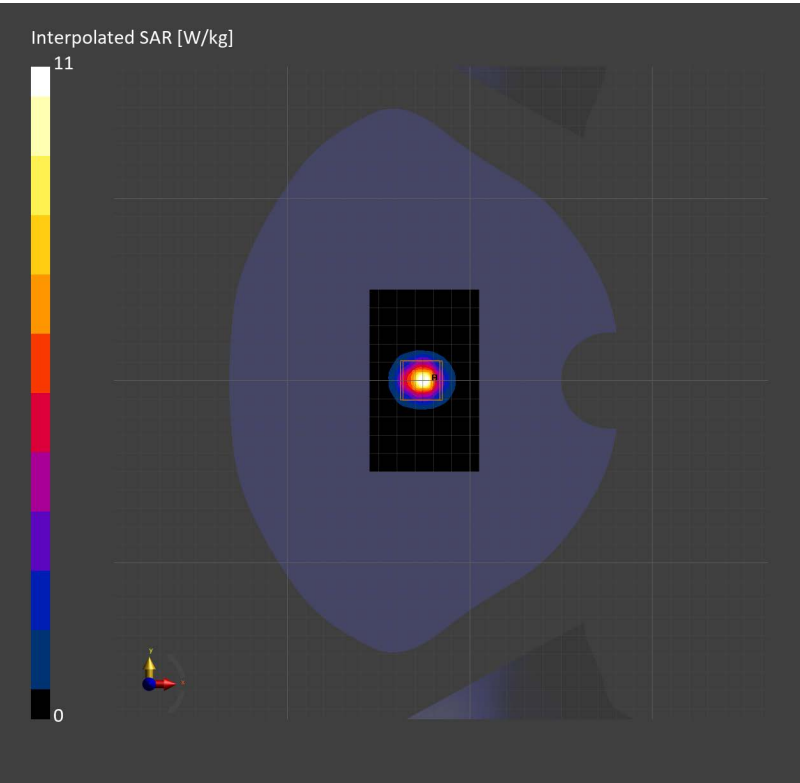
D5GHzV2-SN 1165

Communication System: D5GHz; Frequency: 5600.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 5600.000$ MHz; $\sigma= 5.06$ S/m; $\epsilon_r = 35.8$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(5.07, 4.84, 4.98); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4 Sn1267; Calibrated: 2024-01-03
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2156
 - Measurement Software: cDASY8 V16.4.0.5005

Area Scan (60.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 7.04 W/kg; SAR (10g) = 2.02 W/kg;

Zoom Scan (24.0 mm x 24.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm
Power Drift = -0.08 dB
SAR (1g) = 8.02 W/kg; SAR (10g) = 2.31 W/kg;
M2/M1 [%]=63.6
Dist 3dB Peak [mm]=6.9



System Performance Check 5750 MHz Head

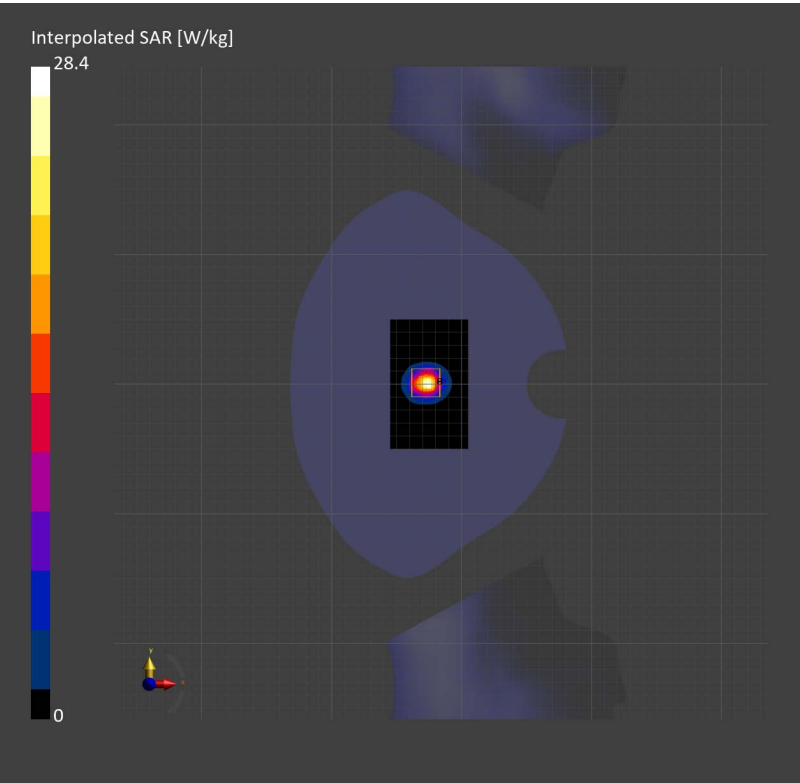
D5GHzV2-SN 1165

Communication System: D5GHz; Frequency: 5750.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 5750.000$ MHz; $\sigma= 5.23$ S/m; $\epsilon_r = 35.4$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(5.18, 4.94, 5.09); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4 Sn1267; Calibrated: 2024-01-03
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2156
 - Measurement Software: cDASY8 V16.4.0.5005

Area Scan (60.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 6.68 W/kg; SAR (10g) = 1.97 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 = -0.00 dB
SAR (1g) = 6.97 W/kg; SAR (10g) = 2.04 W/kg;
M2/M1 [%]=62.3
Dist 3dB Peak [mm]=7.6



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- End of the Appendix -



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