

Appendix A

Detailed System Check Results

1. System Performance Check
System Performance Check 750 MHz
System Performance Check 835 MHz
System Performance Check 1750 MHz
System Performance Check 1900 MHz
System Performance Check 2450 MHz



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SGS-SAR Lab Date: 2024-11-06

System Performance Check 750 MHz Head

D750V3-SN 1160

Communication System: D750; Frequency: 750.000

Medium: Head Simulating Liquid. Medium parameters used: $f = 750.000$ MHz; $\sigma = 0.888$ S/m; $\epsilon_r = 41.8$

DASY8 Configuration:

- Probe: EX3DV4 - SN7636; ConvF(10.65, 10.65, 10.65); 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 (75.0 mm x 195.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 2.23 W/kg; SAR (10g) = 1.49 W/kg;

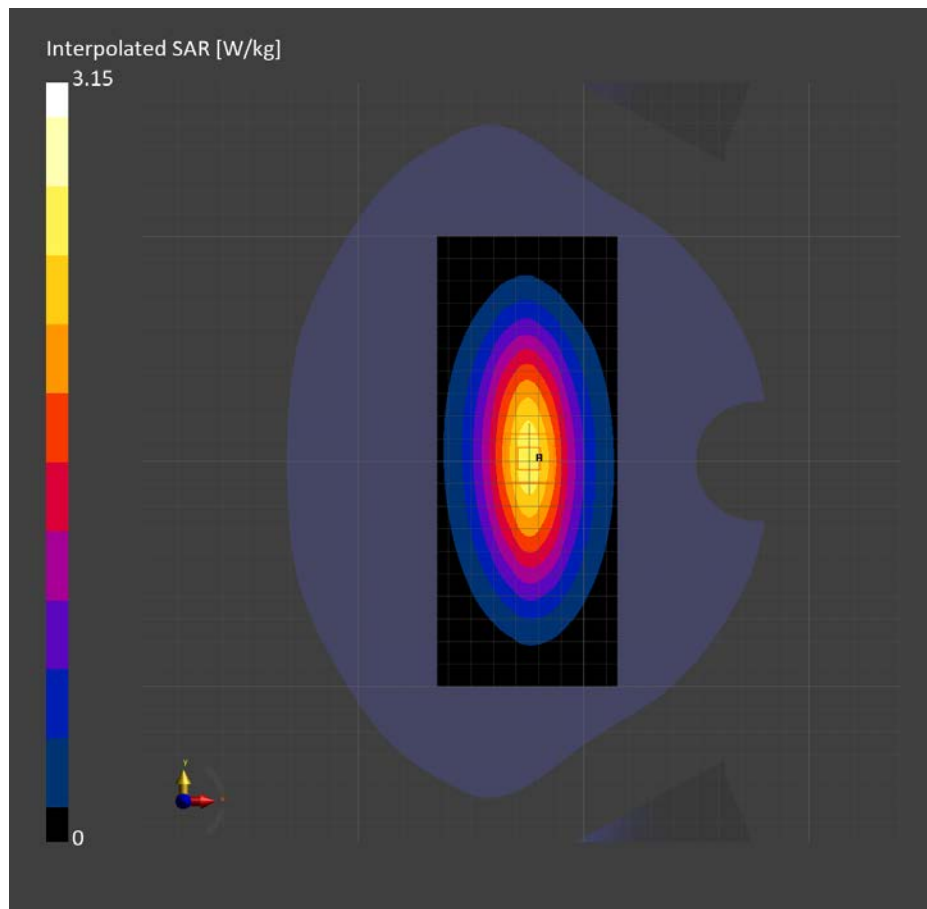
Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.07 dB

SAR (1g) = 2.15 W/kg; SAR (10g) = 1.42 W/kg;

M2/M1 [%]=68.1

Dist 3dB Peak [mm]=19.6



SGS-SAR Lab Date: 2024-11-07

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; $\sigma = 0.909$ S/m; $\epsilon_r = 41.7$

DASY8 Configuration:

- Probe: EX3DV4 - SN7636; 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 (90.0 mm x 180.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 2.23 W/kg; SAR (10g) = 1.47 W/kg;

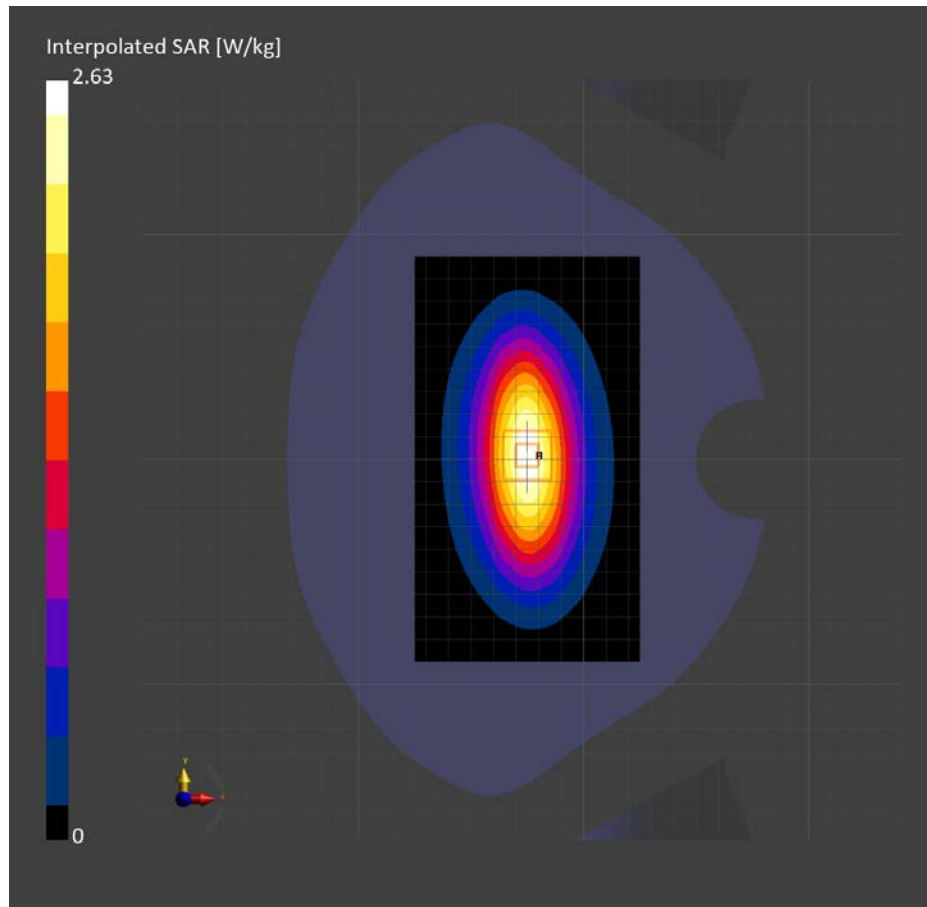
Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = 0.01 dB

SAR (1g) = 2.22 W/kg; SAR (10g) = 1.46 W/kg;

M2/M1 [%]=68.8

Dist 3dB Peak [mm]=17.3



SGS-SAR Lab Date: 2024-11-06

System Performance Check 1750 MHz Head

D1750V2-SN 1149

Communication System: D1750; Frequency: 1750.000

Medium: Head Simulating Liquid. Medium parameters used: $f = 1750.000$ MHz; $\sigma = 1.31$ S/m; $\epsilon_r = 39.2$

DASY8 Configuration:

- Probe: EX3DV4 - SN7636; ConvF(8.85, 8.85, 8.85); 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 (90.0 mm x 135.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 9.09 W/kg; SAR (10g) = 4.85 W/kg;

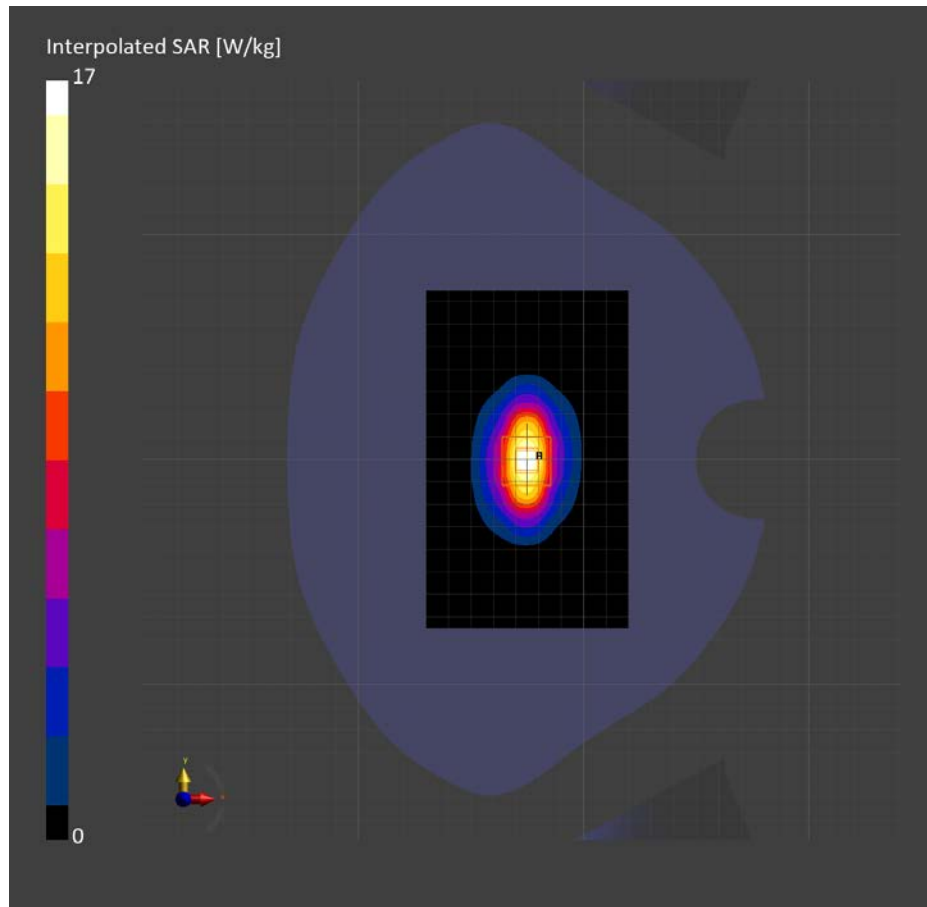
Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.09 dB

SAR (1g) = 9.51 W/kg; SAR (10g) = 5.13 W/kg;

M2/M1 [%]=56.1

Dist 3dB Peak [mm]=11.2



SGS-SAR Lab Date: 2024-11-06

System Performance Check 1900 MHz Head

D1900V2- SN 5d028

Communication System: D1950; Frequency: 1900.000

Medium: Head Simulating Liquid. Medium parameters used: $f = 1900.000$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 38.6$

DASY8 Configuration:

- Probe: EX3DV4 - SN7636; ConvF(8.51, 8.51, 8.51); 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 (75.0 mm x 150.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 11.0 W/kg; SAR (10g) = 5.69 W/kg;

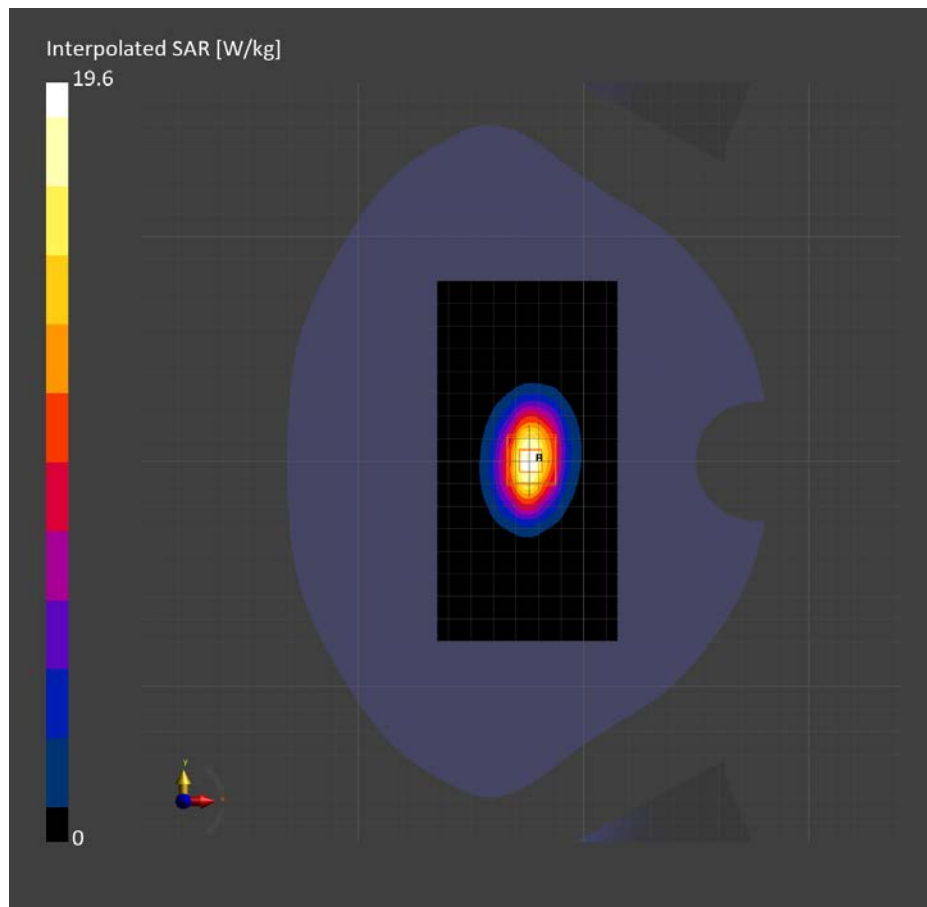
Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.09 dB

SAR (1g) = 10.8 W/kg; SAR (10g) = 5.62 W/kg;

M2/M1 [%]=55.2

Dist 3dB Peak [mm]=10.2



SGS-SAR Lab Date: 2024-11-07

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; $\sigma = 1.86$ S/m; $\epsilon_r = 39.5$

DASY8 Configuration:

- Probe: EX3DV4 - SN7636; ConvF(7.95, 7.95, 7.95); 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 (80.0 mm x 105.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 13.8 W/kg; SAR (10g) = 6.34 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 = 0.00 dB

SAR (1g) = 13.8 W/kg; SAR (10g) = 6.53 W/kg;

M2/M1 [%]=50.4

Dist 3dB Peak [mm]=9.6

