

Appendix A

Detailed System Check Results

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System Performance Check 750 MHz Head

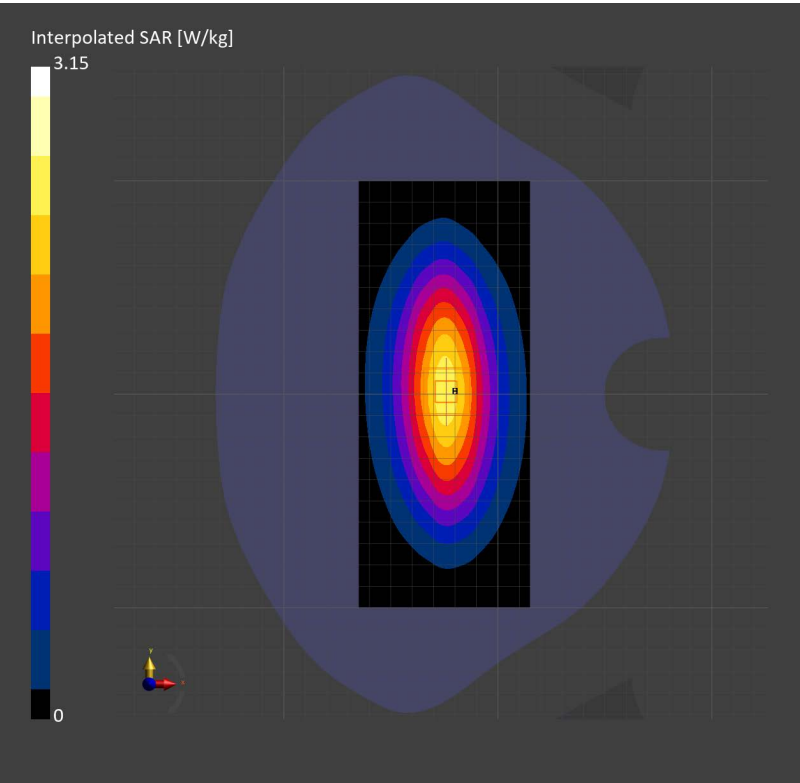
D750V3-SN 1160

Communication System: D750; Frequency: 750.000
Medium: Head Simulating Liquid. Medium parameters used: $f=750.000\text{ MHz}$; $\sigma=0.885\text{ S/m}$; $\epsilon_r=43.9$

- 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



System Performance Check 750MHz Head

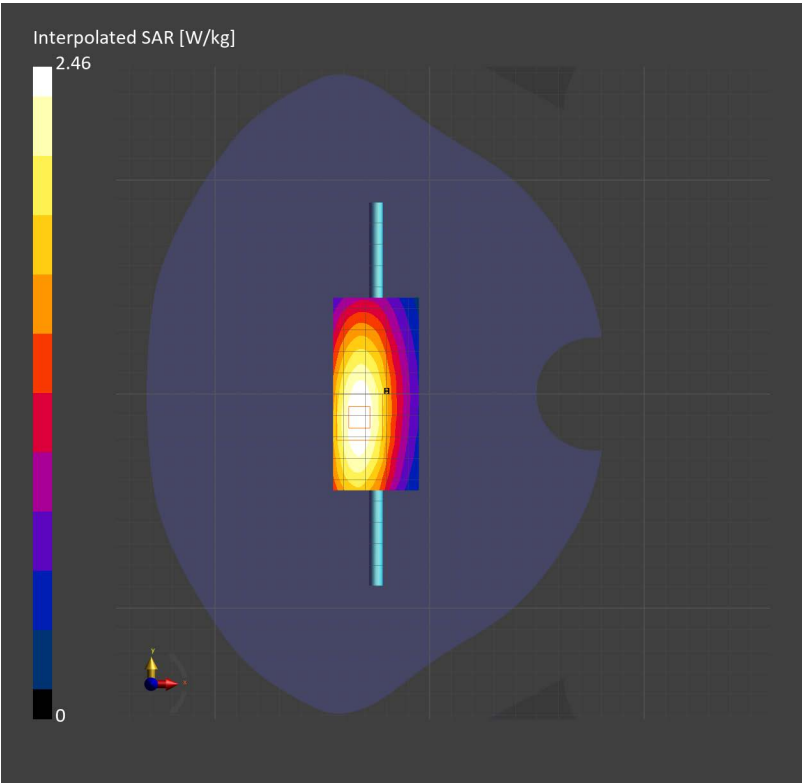
D750V3-SN 1160

Communication System: ; Frequency: 750.000
Medium: Head Simulating Liquid. Medium parameters used: $f=750.000\text{ MHz}$; $\sigma=0.876\text{ S/m}$; $\epsilon_r=43.0$

- DASY6 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(9.45, 9.01, 9.28); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4 Sn896; Calibrated: 2024-03-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2031
 - Measurement Software: cDASY6 V16.4.0.5005

Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm
SAR (1g) = 2.14 W/kg; SAR (10g) = 1.44 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) = 2.14 W/kg; SAR (10g) = 1.44 W/kg;
M2/M1 [%]=87.8
Dist 3dB Peak [mm]=16.8



System Performance Check 750MHz Head

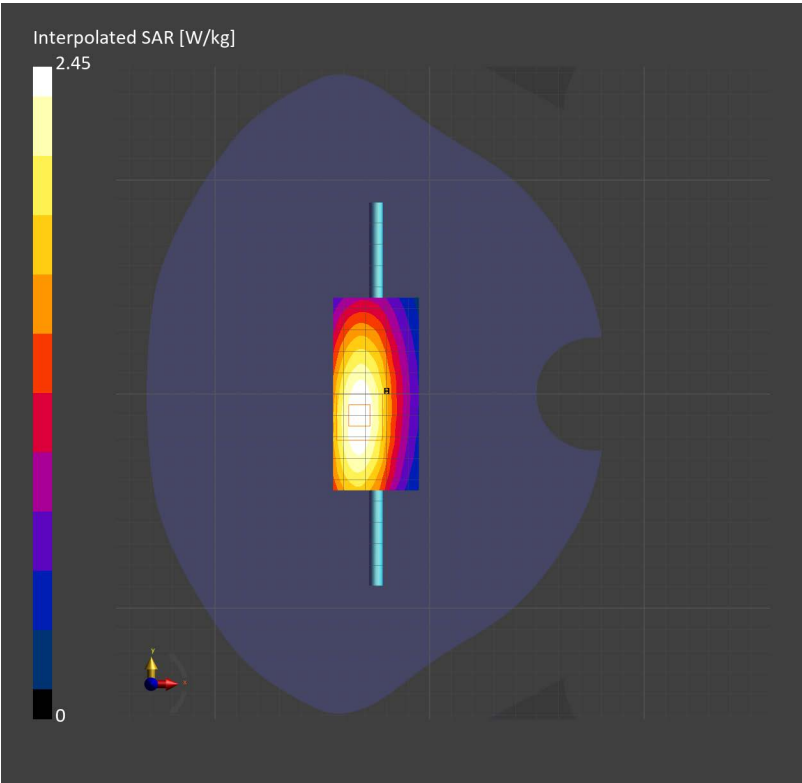
D750V3-SN 1160

Communication System: ; Frequency: 750.000
Medium: Head Simulating Liquid. Medium parameters used: $f=750.000\text{ MHz}$; $\sigma=0.873\text{ S/m}$; $\epsilon_r=42.8$

- DASY6 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(9.45, 9.01, 9.28); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4 Sn896; Calibrated: 2024-03-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2031
 - Measurement Software: cDASY6 V16.4.0.5005

Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm
SAR (1g) = 2.13 W/kg; SAR (10g) = 1.43 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) = 2.13 W/kg; SAR (10g) = 1.43 W/kg;
M2/M1 [%]=88.0
Dist 3dB Peak [mm]=16.8



System Performance Check 835 MHz Head

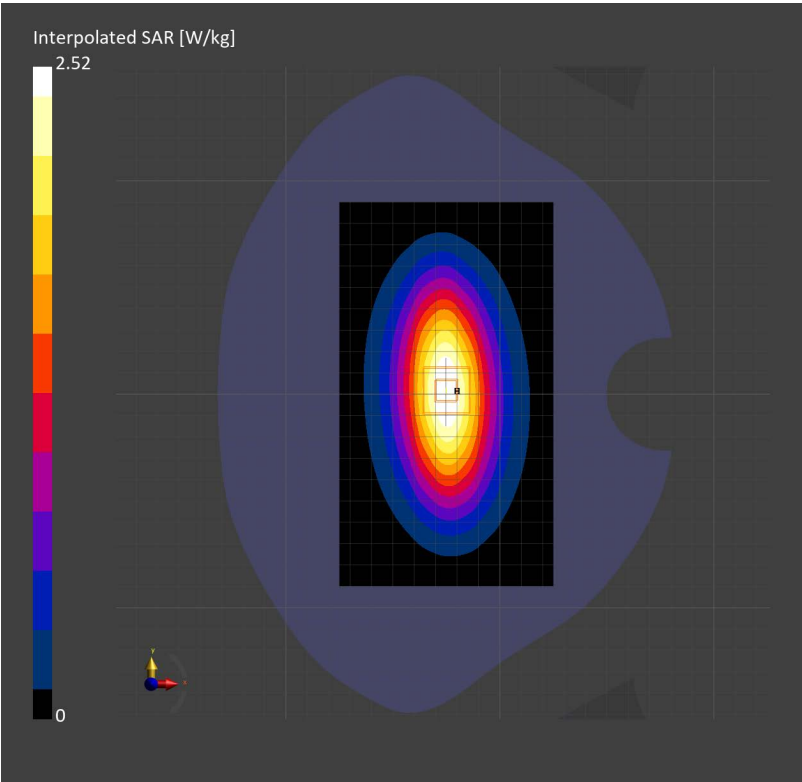
D835V2-SN 4d105

Communication System: D835; Frequency: 835.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 835.000$ MHz; $\sigma= 0.885$ S/m; $\epsilon_r = 43.1$

- 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 (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



System Performance Check 835MHz Head

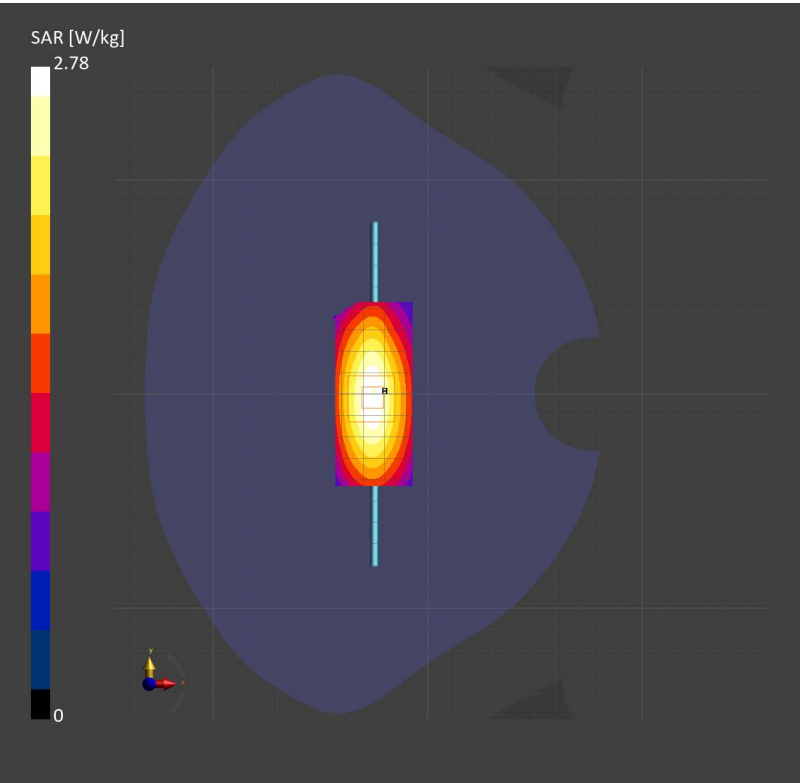
D835V2-SN 4d105

Communication System: ; Frequency: 835.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 835.000$ MHz; $\sigma= 0.880$ S/m; $\epsilon_r = 40.6$

- DASY6 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(8.89, 8.49, 8.74); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4 Sn896; Calibrated: 2024-03-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2031
 - Measurement Software: cDASY6 V16.4.0.5005

Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm
SAR (1g) = 2.58 W/kg; SAR (10g) = 1.70 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 = 0.02 dB
SAR (1g) = 2.59 W/kg; SAR (10g) = 1.72 W/kg;
M2/M1 [%]=88.5
Dist 3dB Peak [mm]=15.8



System Performance Check 835MHz Head

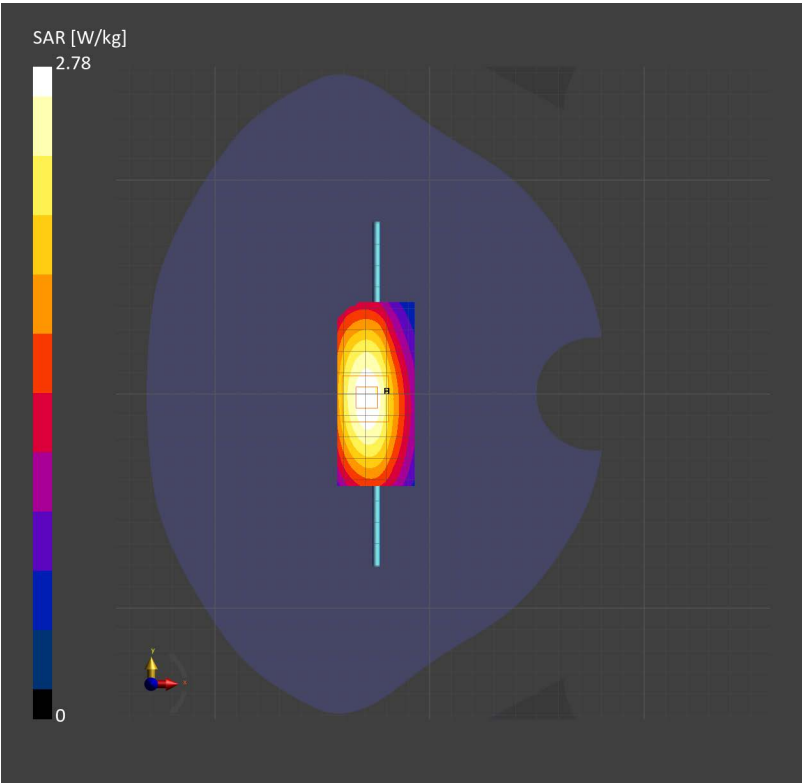
D835V2-SN 4d105

Communication System: ; Frequency: 835.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 835.000$ MHz; $\sigma= 0.890$ S/m; $\epsilon_r = 41.0$

- DASY6 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(8.89, 8.49, 8.74); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4 Sn896; Calibrated: 2024-03-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2031
 - Measurement Software: cDASY6 V16.4.0.5005

Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm
SAR (1g) = 2.59 W/kg; SAR (10g) = 1.71 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) = 2.57 W/kg; SAR (10g) = 1.71 W/kg;
M2/M1 [%]=89.0
Dist 3dB Peak [mm]=16.8



System Performance Check 835MHz Head

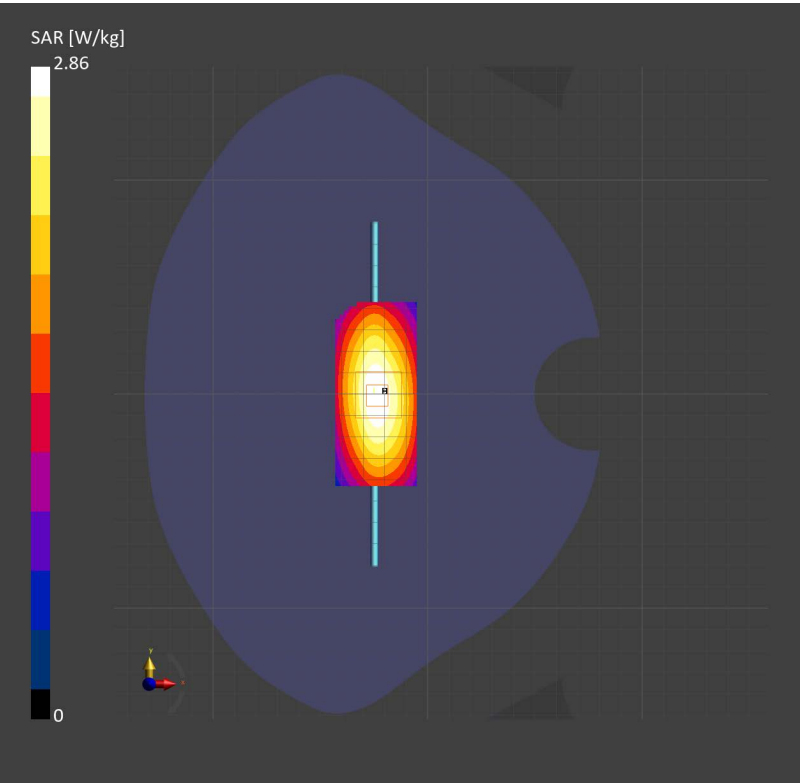
D835V2-SN 4d105

Communication System: ; Frequency: 835.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 835.000$ MHz; $\sigma= 0.919$ S/m; $\epsilon_r = 41.0$

- DASY6 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(8.89, 8.49, 8.74); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4 Sn896; Calibrated: 2024-03-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2031
 - Measurement Software: cDASY6 V16.4.0.5005

Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm
SAR (1g) = 2.56 W/kg; SAR (10g) = 1.69 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) = 2.51 W/kg; SAR (10g) = 1.67 W/kg;
M2/M1 [%]=87.9
Dist 3dB Peak [mm]=15.8



System Performance Check 1750 MHz Head

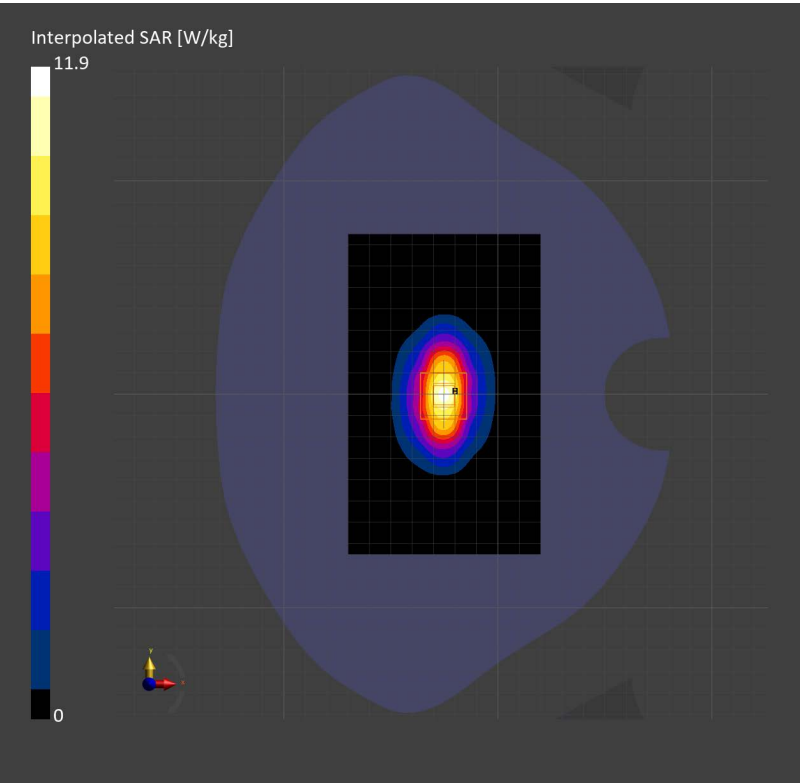
D1750V2-SN 1149

Communication System: D1750; Frequency: 1750.000
Medium: Head Simulating Liquid. Medium parameters used: $f=1750.000$ MHz; $\sigma=1.34$ S/m; $\epsilon_r=41.9$

- 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) = 9.01 W/kg; SAR (10g) = 4.81 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 = -0.05 dB
SAR (1g) = 9.44 W/kg; SAR (10g) = 5.09 W/kg;
M2/M1 [%]=55.8
Dist 3dB Peak [mm]=11.2



System Performance Check 1750MHz Head

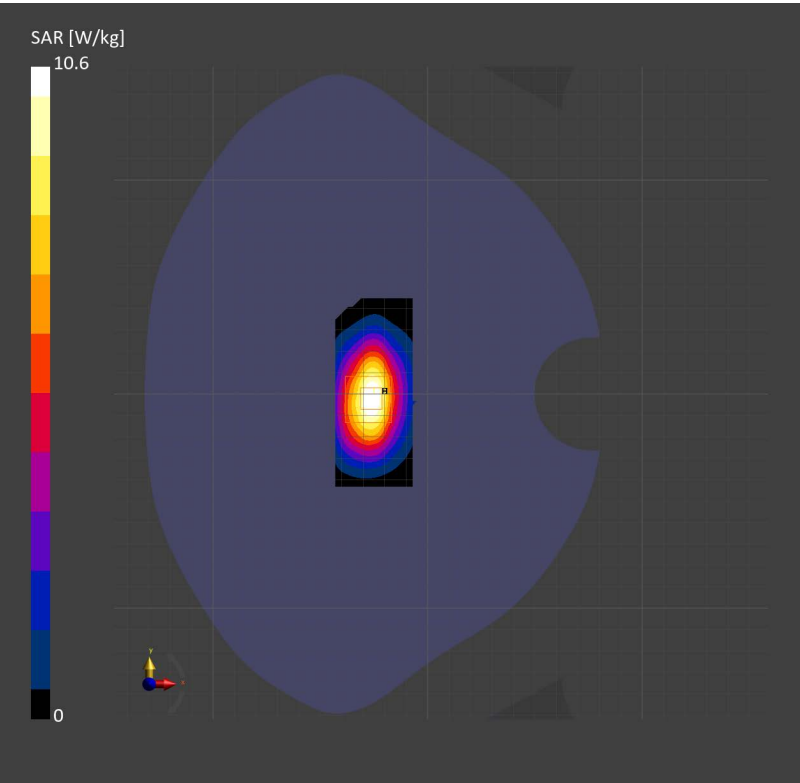
D1750V2-SN 1149

Communication System: ; Frequency: 1750.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 1750.000$ MHz; $\sigma= 1.32$ S/m; $\epsilon_r = 40.2$

- DASY6 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(8.05, 7.68, 7.91); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4 Sn896; Calibrated: 2024-03-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2031
 - Measurement Software: cDASY6 V16.4.0.5005

Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm
SAR (1g) = 9.61 W/kg; SAR (10g) = 5.12 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) = 9.60 W/kg; SAR (10g) = 5.20 W/kg;
M2/M1 [%]=84.7
Dist 3dB Peak [mm]=9.6



System Performance Check 1750MHz Head

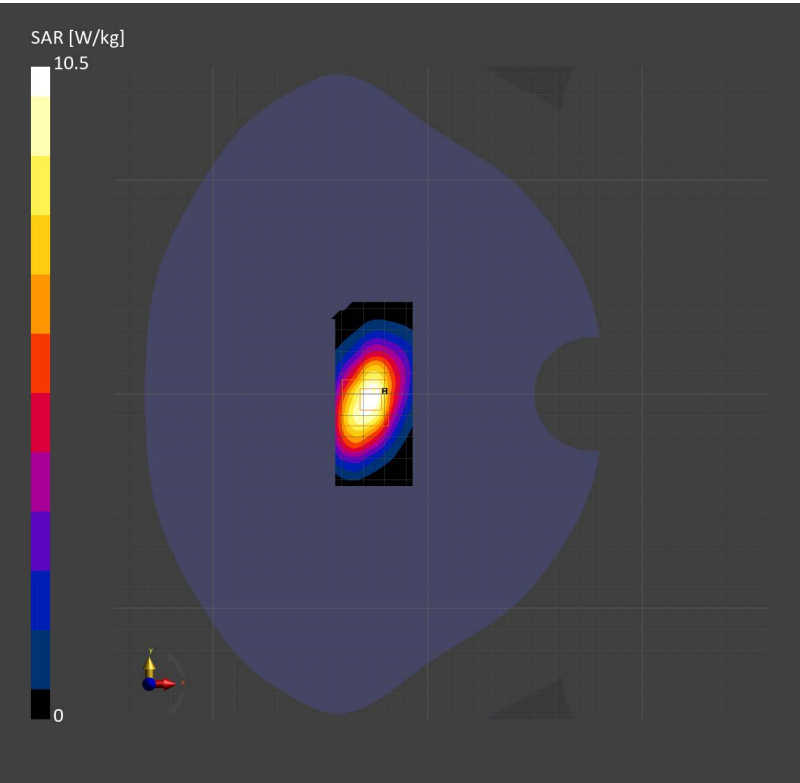
D1750V2-SN 1149

Communication System: ; Frequency: 1750.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 1750.000$ MHz; $\sigma= 1.31$ S/m; $\epsilon_r = 40.2$

- DASY6 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(8.05, 7.68, 7.91); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4 Sn896; Calibrated: 2024-03-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2031
 - Measurement Software: cDASY6 V16.4.0.5005

Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm
SAR (1g) = 9.57 W/kg; SAR (10g) = 5.17 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) = 9.50 W/kg; SAR (10g) = 5.15 W/kg;
M2/M1 [%]=84.9
Dist 3dB Peak [mm]=9.6



Test Laboratory: SGS-SAR Lab

System Performance Check 1750MHz Head

DUT: D1750V2; Type: Dipole; Serial: 1149

Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1

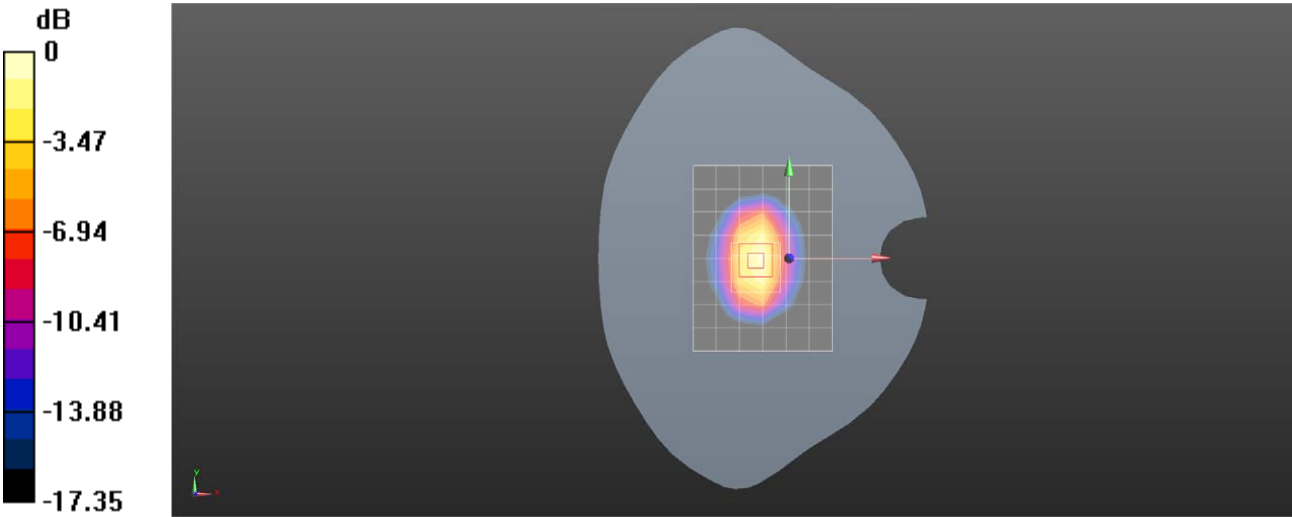
Medium: HSL1750;Medium parameters used: $f = 1750 \text{ MHz}$; $\sigma = 1.384 \text{ S/m}$; $\epsilon_r = 40.545$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(8.02, 8.02, 8.02); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=10mm, Pin=250mW/Area Scan (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 9.87 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 80.40 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 16.0 W/kg
SAR(1 g) = 8.98 W/kg; SAR(10 g) = 4.79 W/kg
Smallest distance from peaks to all points 3 dB below = 11.2 mm
Ratio of SAR at M2 to SAR at M1 = 57%
Maximum value of SAR (measured) = 11.2 W/kg



0 dB = 11.2 W/kg = 10.49 dBW/kg

System Performance Check 1950 MHz Head

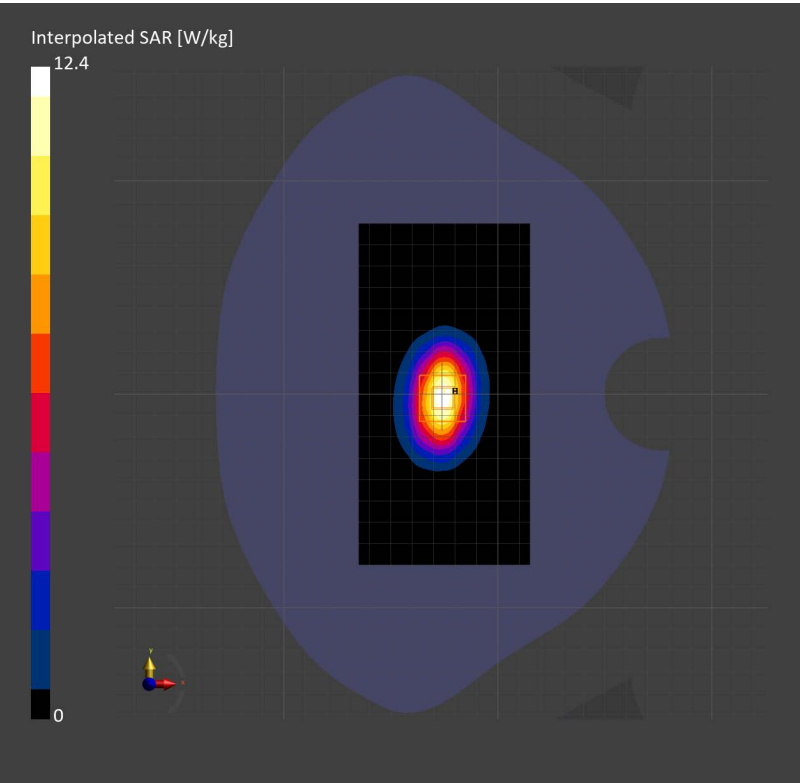
D1950V3-SN 1138

Communication System: D1950; Frequency: 1950.000
Medium: Head Simulating Liquid. Medium parameters used: $f=1950.000$ MHz; $\sigma=1.46$ S/m; $\epsilon_r=41.6$

- 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) = 9.78 W/kg; SAR (10g) = 5.05 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 = 0.03 dB
SAR (1g) = 9.65 W/kg; SAR (10g) = 5.04 W/kg;
M2/M1 [%]=55.9
Dist 3dB Peak [mm]=10.8



System Performance Check 1950MHz Head

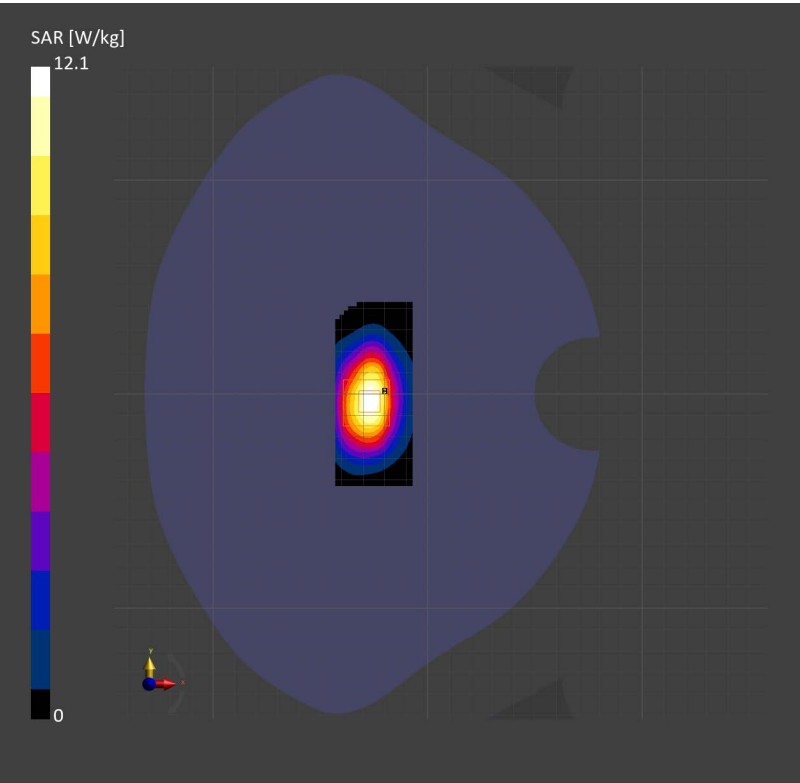
D1950V3-SN 1138

Communication System: ; Frequency: 1950.000
Medium: Head Simulating Liquid. Medium parameters used: $f=1950.000$ MHz; $\sigma=1.39$ S/m; $\epsilon_r=39.5$

- DASY6 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(7.77, 7.41, 7.63); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4 Sn896; Calibrated: 2024-03-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2031
 - Measurement Software: cDASY6 V16.4.0.5005

Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm
SAR (1g) = 10.8 W/kg; SAR (10g) = 5.58 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 = 0.02 dB
SAR (1g) = 10.8 W/kg; SAR (10g) = 5.64 W/kg;
M2/M1 [%]=84.5
Dist 3dB Peak [mm]=8.8



Test Laboratory: SGS-SAR Lab

System Performance Check 2300MHz Head

DUT: D2300V2; Type: Dipole; Serial: 1072

Communication System: UID 0, CW (0); Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: HSL2300; Medium parameters used: $f = 2300$ MHz; $\sigma = 1.629$ S/m; $\epsilon_r = 40.498$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(7.6, 7.6, 7.6); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=10mm, Pin=250mW/Area Scan (6x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 14.3 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 94.13 V/m; Power Drift = 0.09 dB

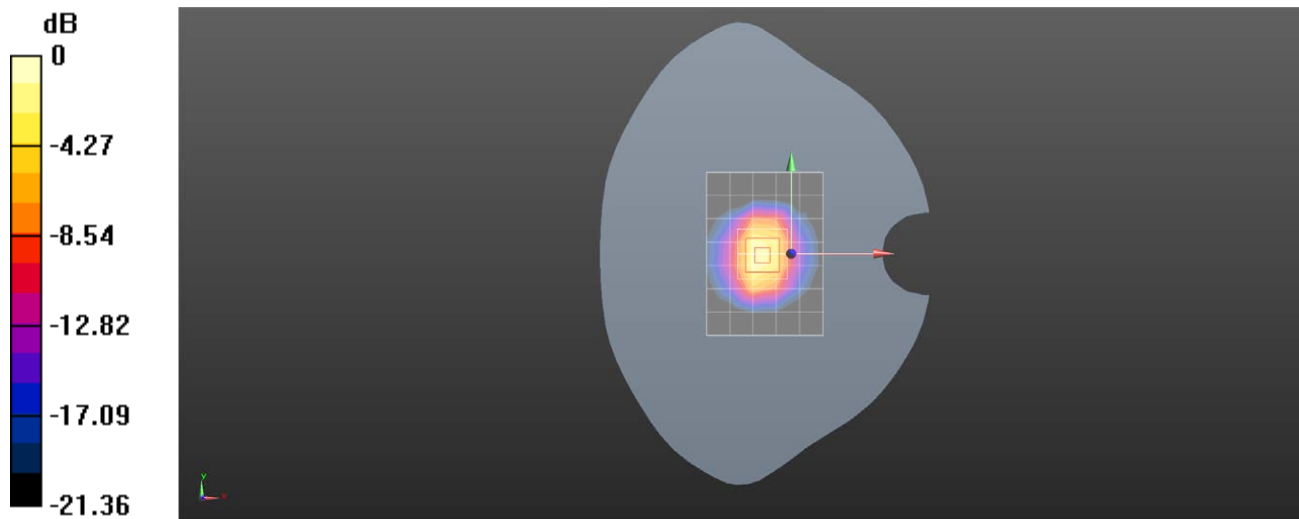
Peak SAR (extrapolated) = 24.6 W/kg

SAR(1 g) = 12.8 W/kg; SAR(10 g) = 6.12 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 51.7%

Maximum value of SAR (measured) = 20.6 W/kg



0 dB = 20.6 W/kg = 13.14 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2450MHz Head

DUT: D2450V2; Type: Dipole; Serial: 733

Communication System: UID 0, CW; Frequency: 2450 MHz;Duty Cycle: 1:1

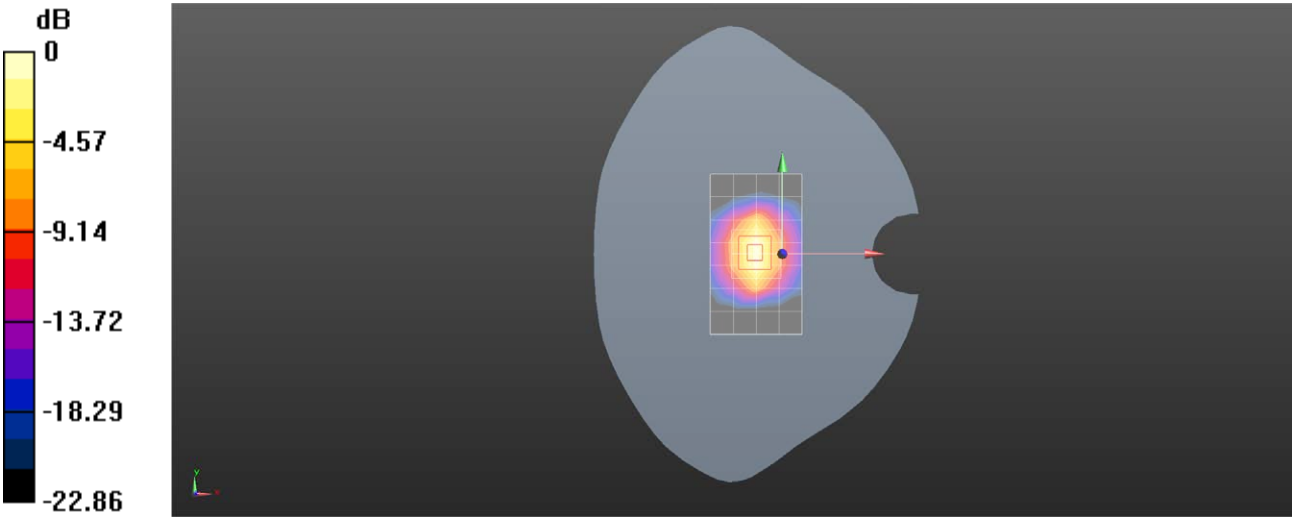
Medium: HSL2450;Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.756 \text{ S/m}$; $\epsilon_r = 39.863$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(7.35, 7.35, 7.35); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=10mm, Pin=250mW/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 19.9 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 92.39 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 27.1 W/kg
SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.06 W/kg
Smallest distance from peaks to all points 3 dB below = 9.3 mm
Ratio of SAR at M2 to SAR at M1 = 48%
Maximum value of SAR (measured) = 21.9 W/kg



0 dB = 21.9 W/kg = 13.40 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2600MHz Head

DUT: D2600V2; Type: Dipole; Serial: 1125

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.897$ S/m; $\epsilon_r = 38.361$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(7.18, 7.18, 7.18); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=10mm, Pin=250mW/Area Scan (9x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 21.7 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 72.24 V/m; Power Drift = 0.08 dB

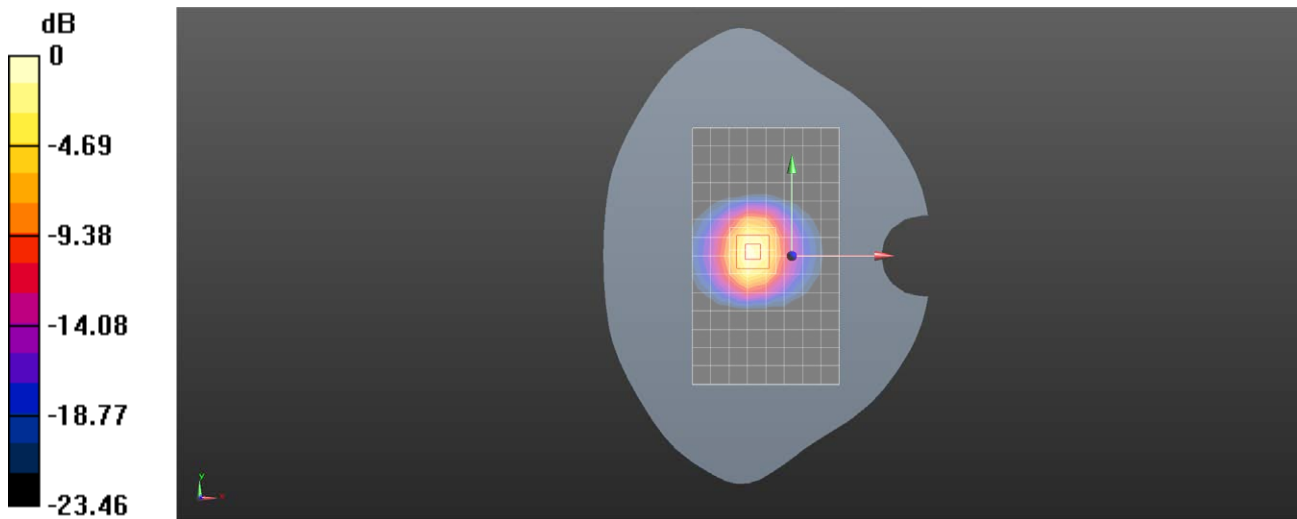
Peak SAR (extrapolated) = 30.5 W/kg

SAR(1 g) = 14.4 W/kg; SAR(10 g) = 6.46 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 46.9%

Maximum value of SAR (measured) = 24.5 W/kg



0 dB = 24.5 W/kg = 13.89 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2600MHz Head

DUT: D2600V2; Type: Dipole; Serial: 1125

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.937$ S/m; $\epsilon_r = 39.515$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(7.18, 7.18, 7.18); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=10mm, Pin=250mW/Area Scan (9x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 18.8 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 81.04 V/m; Power Drift = 0.17 dB

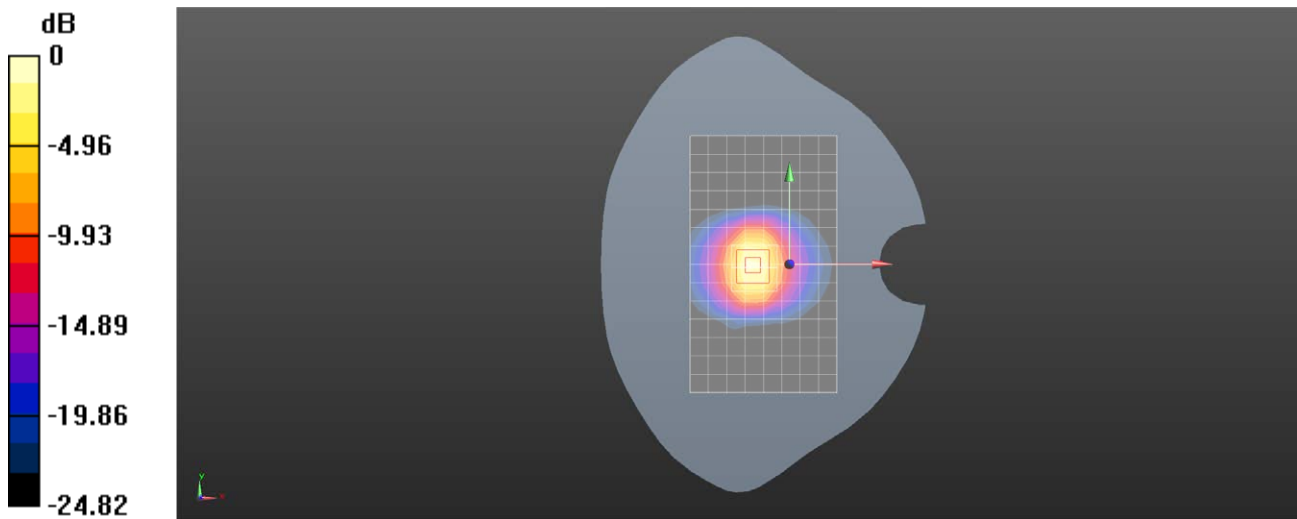
Peak SAR (extrapolated) = 29.9 W/kg

SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.41 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 46.9%

Maximum value of SAR (measured) = 24.1 W/kg



0 dB = 24.1 W/kg = 13.82 dBW/kg

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DUT: D2600V2; Type: Dipole; Serial: 1125

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.921$ S/m; $\epsilon_r = 39.371$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(7.18, 7.18, 7.18); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=10mm, Pin=250mW/Area Scan (9x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 23.1 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.06 V/m; Power Drift = -0.06 dB

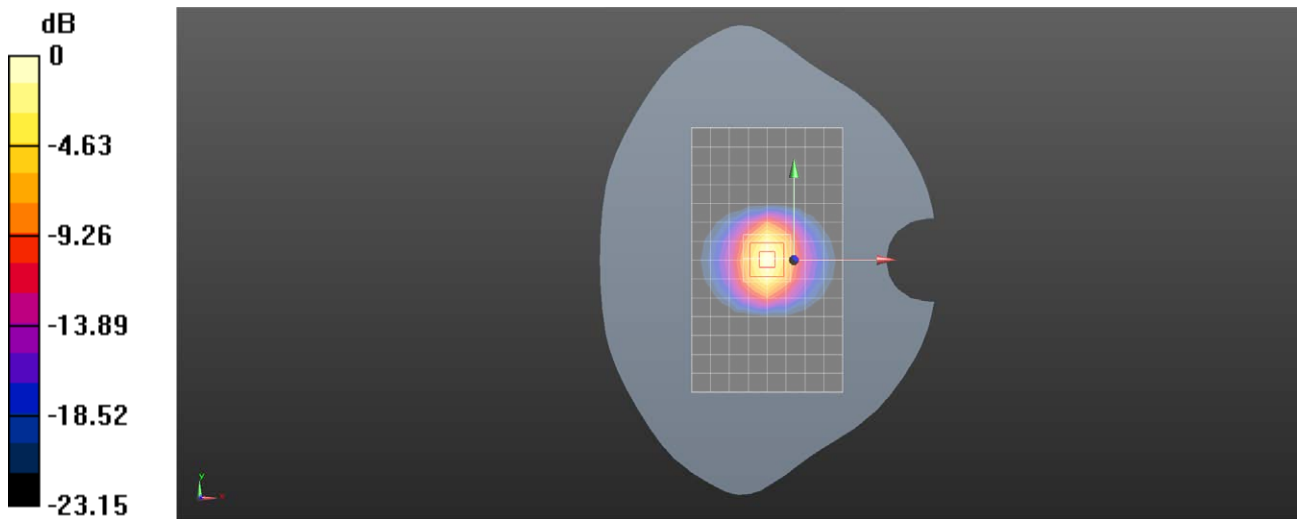
Peak SAR (extrapolated) = 28.2 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.09 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 48.5%

Maximum value of SAR (measured) = 22.9 W/kg



Test Laboratory: SGS-SAR Lab

System Performance Check 2600MHz Head

DUT: D2600V2; Type: Dipole; Serial: 1125

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.947$ S/m; $\epsilon_r = 38.709$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(7.18, 7.18, 7.18); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/d=10mm, Pin=250mW/Area Scan (9x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 22.4 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.42 V/m; Power Drift = -0.02 dB

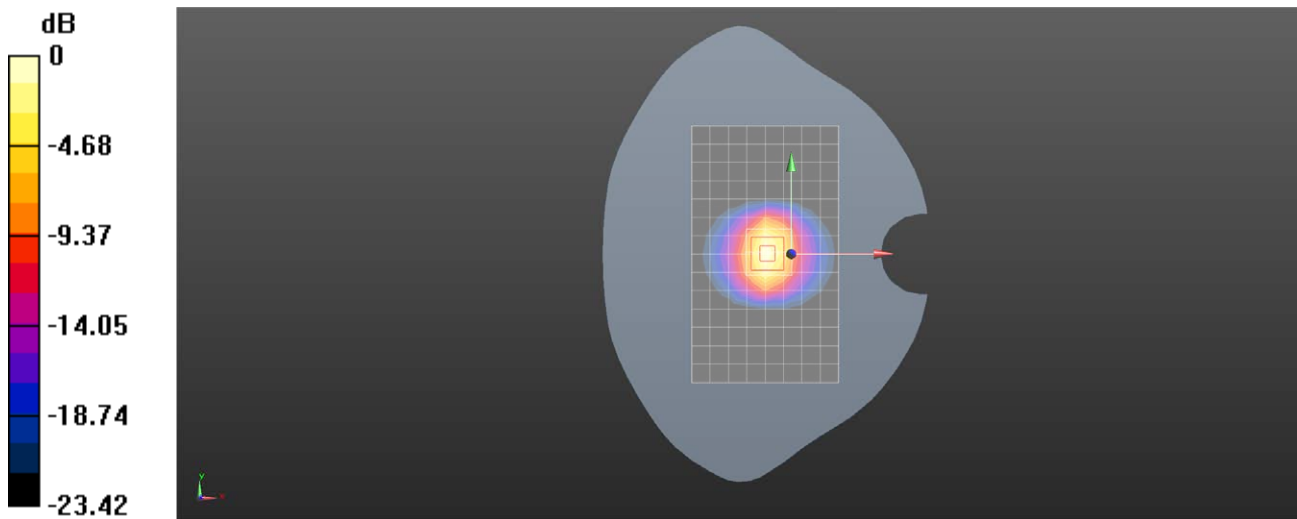
Peak SAR (extrapolated) = 28.6 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.14 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 48.3%

Maximum value of SAR (measured) = 23.2 W/kg



0 dB = 23.2 W/kg = 13.65 dBW/kg

System Performance Check 3500MHz Head

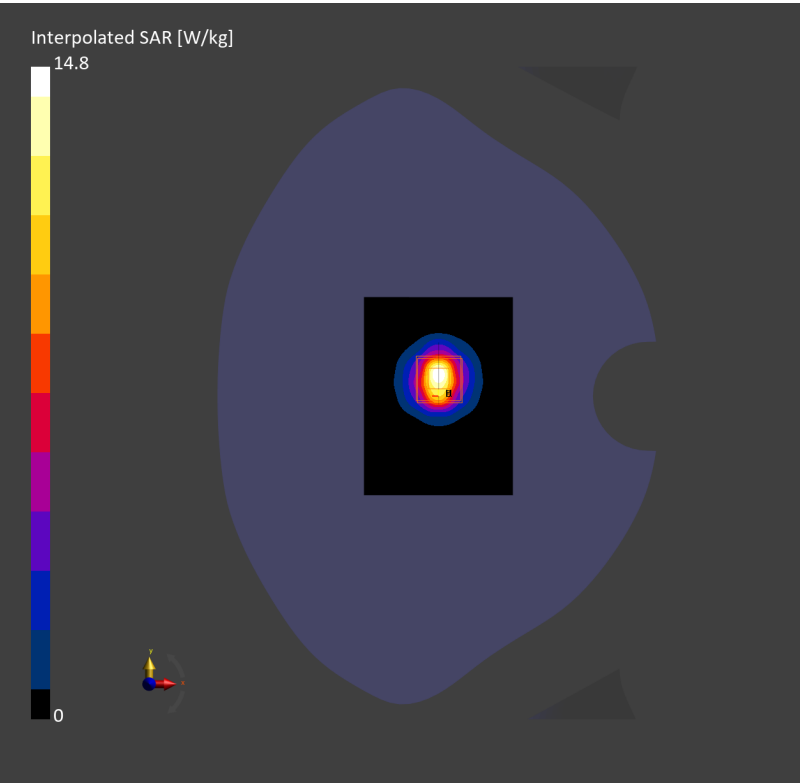
D3500V2-SN 1082

Communication System: D3500; Frequency: 3500.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 3500.000$ MHz; $\sigma= 2.79$ S/m; $\epsilon_r = 37.3$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(6.7, 6.7, 6.7); 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 (60.0 mm x 96.0 mm): Measurement Grid: 12.0 mm x 12.0 mm
SAR (1g) = 5.61 W/kg; SAR (10g) = 2.35 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 = -0.04 dB
SAR (1g) = 6.45 W/kg; SAR (10g) = 2.62 W/kg;
M2/M1 [%]=42.3
Dist 3dB Peak [mm]=8.6



System Performance Check 3500 MHz Head

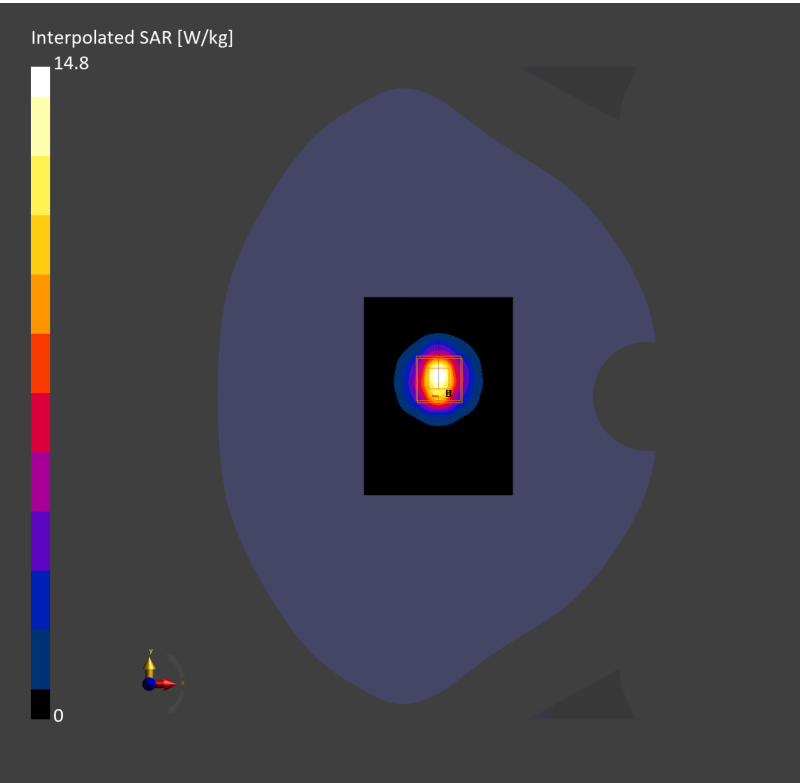
D3500V2-SN 1082

Communication System: D3500; Frequency: 3500.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 3500.000$ MHz; $\sigma= 2.81$ S/m; $\epsilon_r = 37.4$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(6.7, 6.7, 6.7); 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 (72.0 mm x 96.0 mm): Measurement Grid: 12.0 mm x 12.0 mm
SAR (1g) = 5.99 W/kg; SAR (10g) = 2.30 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 = 0.04 dB
SAR (1g) = 6.37 W/kg; SAR (10g) = 2.52 W/kg;
M2/M1 [%]=41.2
Dist 3dB Peak [mm]=9.0



System Performance Check 3700MHz Head

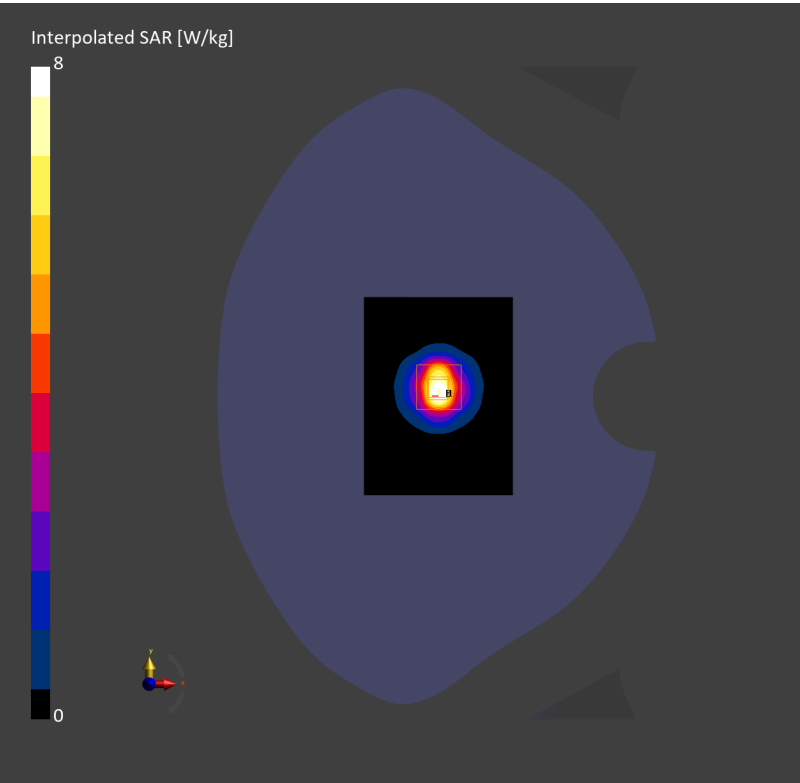
D3700V2-SN 1046

Communication System: D3700; Frequency: 3700.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 3700.000$ MHz; $\sigma= 2.98$ S/m; $\epsilon_r = 36.6$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(6.48, 6.48, 6.48); 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 (60.0 mm x 96.0 mm): Measurement Grid: 12.0 mm x 12.0 mm
SAR (1g) = 6.04 W/kg; SAR (10g) = 2.26 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 = 0.00 dB
SAR (1g) = 6.27 W/kg; SAR (10g) = 2.45 W/kg;
M2/M1 [%]=40.7
Dist 3dB Peak [mm]=8.1



System Performance Check 3700 MHz Head

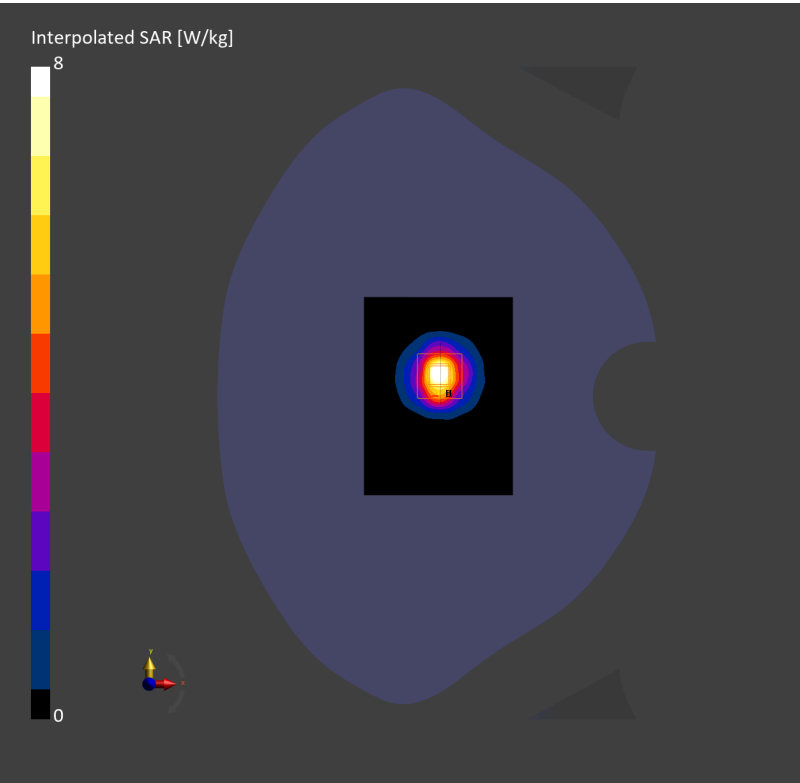
D3700V2-SN 1046

Communication System: D3700; Frequency: 3700.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 3700.000$ MHz; $\sigma= 2.99$ S/m; $\epsilon_r = 36.6$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(6.48, 6.48, 6.48); 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 (72.0 mm x 96.0 mm): Measurement Grid: 12.0 mm x 12.0 mm
SAR (1g) = 6.06 W/kg; SAR (10g) = 2.25 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 = 0.08 dB
SAR (1g) = 6.15 W/kg; SAR (10g) = 2.35 W/kg;
M2/M1 [%]=39.8
Dist 3dB Peak [mm]=8.6



System Performance Check 3900 MHz Head

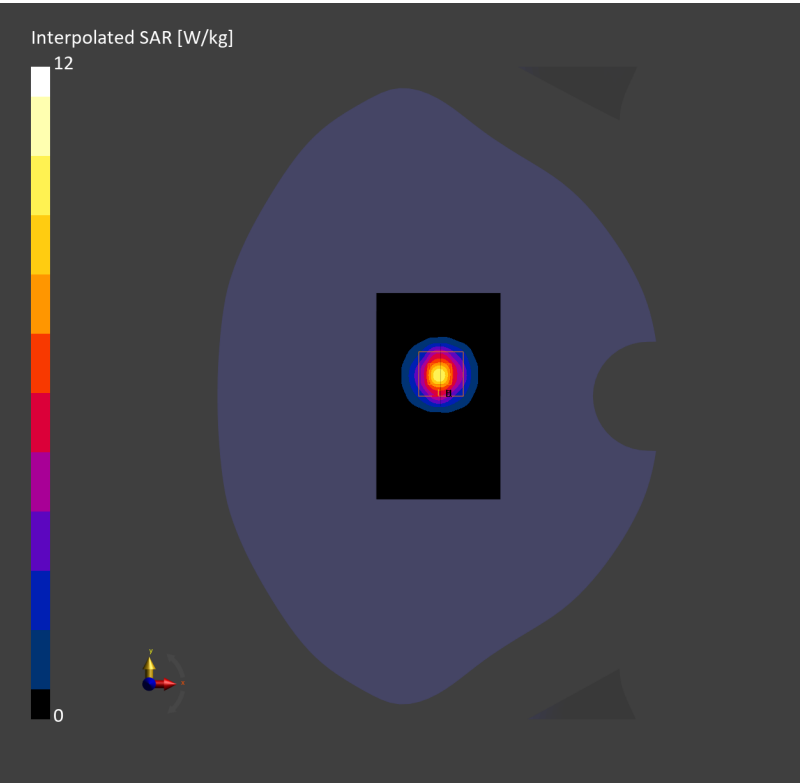
D3900V2-SN 1026

Communication System: D3900; Frequency: 3900.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 3900.000$ MHz; $\sigma= 3.20$ S/m; $\epsilon_r = 35.9$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(6.4, 6.4, 6.4); 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 (60.0 mm x 100.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 6.72 W/kg; SAR (10g) = 2.38 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 = 0.13 dB
SAR (1g) = 6.79 W/kg; SAR (10g) = 2.49 W/kg;
M2/M1 [%]=37.9
Dist 3dB Peak [mm]=8.5



System Performance Check 5250 MHz Head

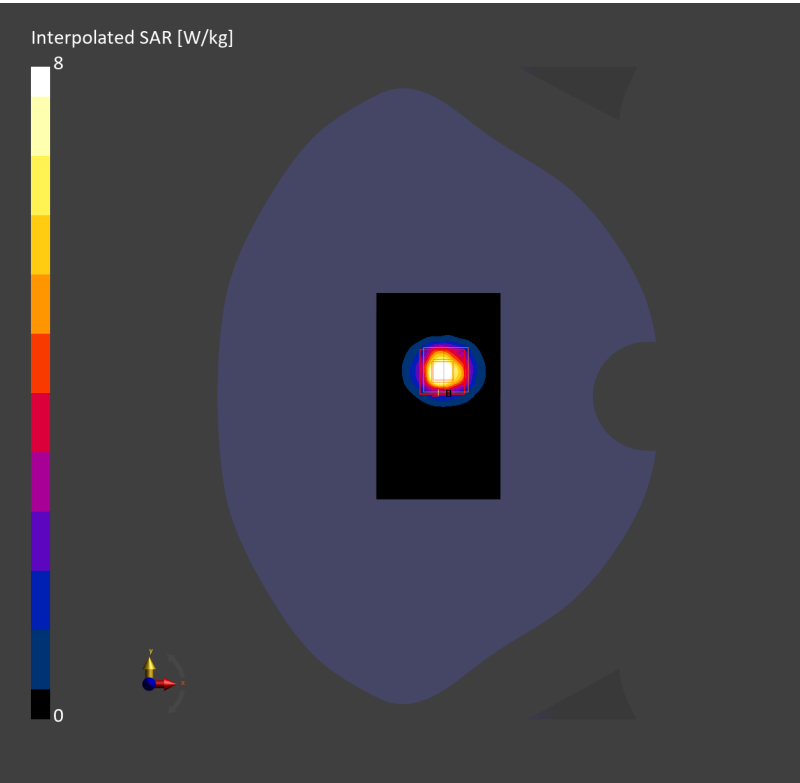
D5GHzV2-SN 1165

Communication System: D5GHz; Frequency: 5250.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 5250.000$ MHz; $\sigma= 4.76$ S/m; $\epsilon_r = 36.2$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(5.21, 5.21, 5.21); 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 (60.0 mm x 100.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 6.71 W/kg; SAR (10g) = 2.01 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 = -0.16 dB
SAR (1g) = 7.24 W/kg; SAR (10g) = 2.11 W/kg;
M2/M1 [%]=52.8
Dist 3dB Peak [mm]=7.4



System Performance Check 5600 MHz Head

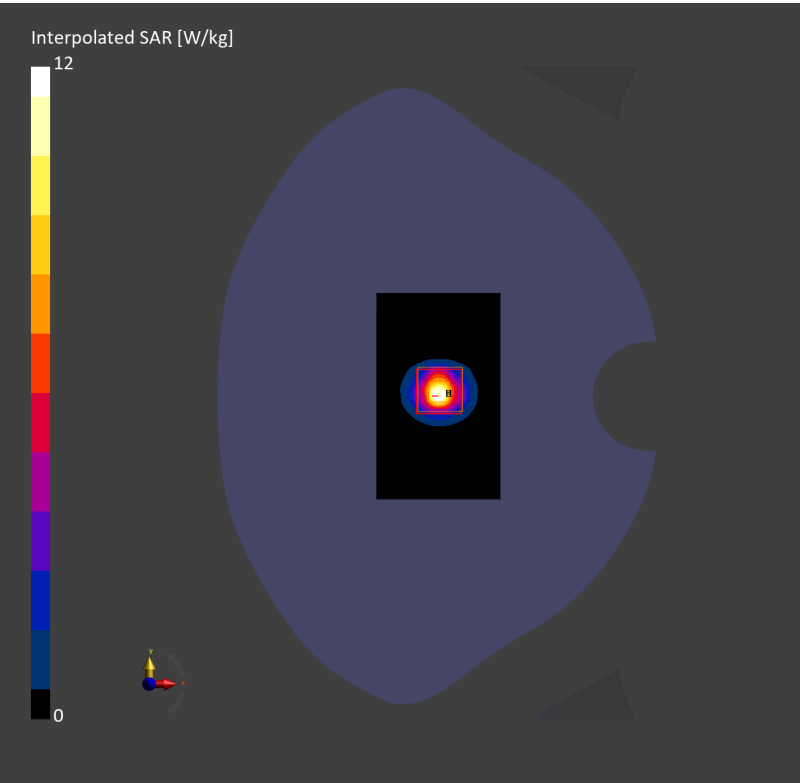
D5GHzV2-SN 1165

Communication System: D5GHz; Frequency: 5600.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 5600.000$ MHz; $\sigma= 5.14$ S/m; $\epsilon_r = 35.3$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(4.6, 4.6, 4.6); 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 (60.0 mm x 100.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 8.04 W/kg; SAR (10g) = 2.31 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 = -0.14 dB
SAR (1g) = 8.60 W/kg; SAR (10g) = 2.48 W/kg;
M2/M1 [%]=51.5
Dist 3dB Peak [mm]=7.2



System Performance Check 5750 MHz Head

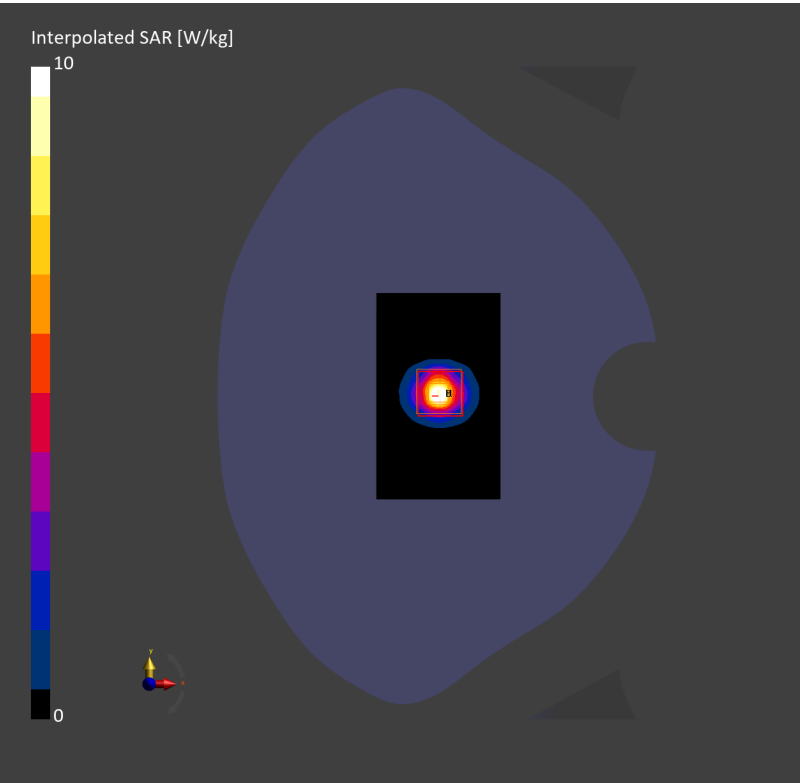
D5GHzV2-SN 1165

Communication System: D5GHz; Frequency: 5750.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 5750.000$ MHz; $\sigma= 5.34$ S/m; $\epsilon_r = 35.1$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(4.73, 4.73, 4.73); 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 (60.0 mm x 100.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 7.32 W/kg; SAR (10g) = 2.08 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 = -0.13 dB
SAR (1g) = 7.67 W/kg; SAR (10g) = 2.25 W/kg;
M2/M1 [%]=50.1
Dist 3dB Peak [mm]=7.2



System Performance Check 6.5GHz Head

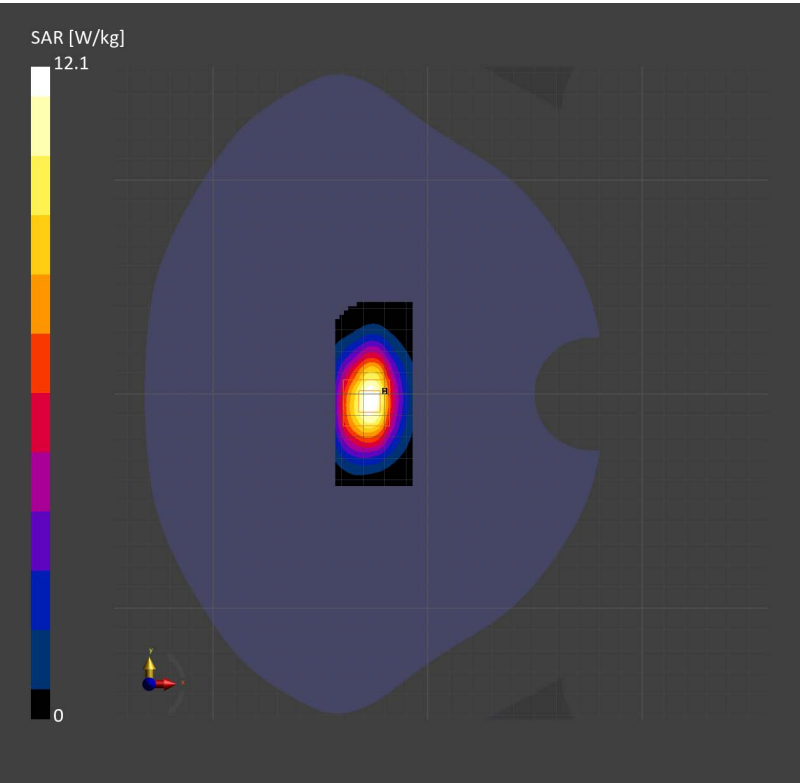
D6.5GHzV2-SN 1102

Communication System: ; Frequency: 6500.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 6500.000$ MHz; $\sigma= 6.32$ S/m; $\epsilon_r = 34.4$

- DASY6 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(5.2, 4.96, 5.11); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4 Sn896; Calibrated: 2024-03-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2031
 - Measurement Software: cDASY6 V16.4.0.5005

Area Scan (40.0 mm x 80.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 27.7 W/kg; SAR (10g) = 5.17 W/kg;

Zoom Scan (24.0 mm x 24.0 mm x 22.0 mm): Measurement Grid: 3.4 mm x 3.4 mm x 1.4 mm
Power Drift = 0.15 dB
SAR (1g) = 30.7 W/kg; SAR (10g) = 5.82 W/kg;
M2/M1 [%]=54.4
Dist 3dB Peak [mm]=4.4



Test Laboratory:SGS-SAR Lab
System Performance Check 10GHz Power Density

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	SN	DUT Type
10G Source,	100.0 x 100.0 x 100.0	2004	Source

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 10.00	Validation band	CW, 0--	10000.0, 10000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave – 1777	Air –	EUmmWV4 – SN9533_F1–55GHz, 2024–08–23	DAE4 Sn896, 2024–03–18

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
MAIA	N/A

Measurement Results

Scan Type	5G Scan
Date	2024-12-11
Avg. Area [cm2]	4.00
psPDn+ [W/m2]	196
psPDtot+ [W/m2]	197
psPDmod+ [W/m2]	202
E _{max} [V/m]	312
Power Drift [dB]	0.04

