

Appendix A

Detailed System Check Results

1. System Performance Check
System Performance Check 2450 MHz Head
System Performance Check 5250 MHz Head
System Performance Check 5600 MHz Head
System Performance Check 5750 MHz Head
System Performance Check 6500 MHz Head
System Performance Check for 10GHz Source



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System Performance Check 2450 MHz Head

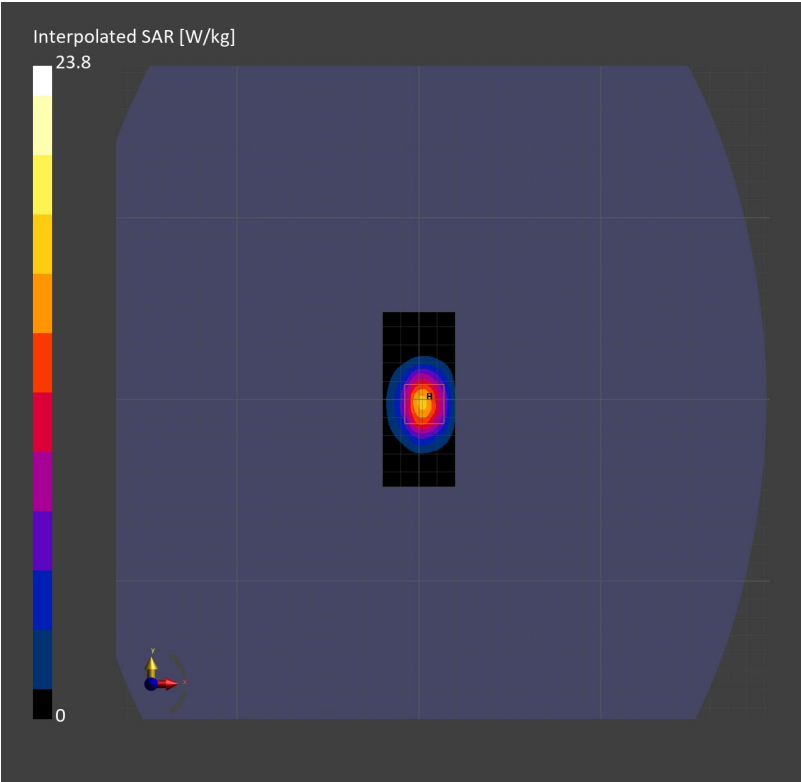
DUT:2450V2-SN 733

Communication System: ; Frequency: 2450.000
Medium: HSL. Medium parameters used: $f=2450.000$ MHz; $\sigma=1.77$ S/m; $\epsilon_r=40.1$

- DASY6 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(7.13, 6.8, 7.01); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4 Sn1663; Calibrated: 2025-04-28
 - Phantom: ELI V4.0 (20deg probe tilt); Serial: 1123
 - Measurement Software: cDASY6 V16.4.0.5005

Area Scan (40.0 mm x 96.0 mm): Measurement Grid: 10.0 mm x 12.0 mm
SAR (1g) = 12.6 W/kg; SAR (10g) = 6.02 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 = 0.02 dB
SAR (1g) = 12.6 W/kg; SAR (10g) = 6.33 W/kg;
M2/M1 [%]=84.8
Dist 3dB Peak [mm]=9.9



System Performance Check 5250 MHz Head

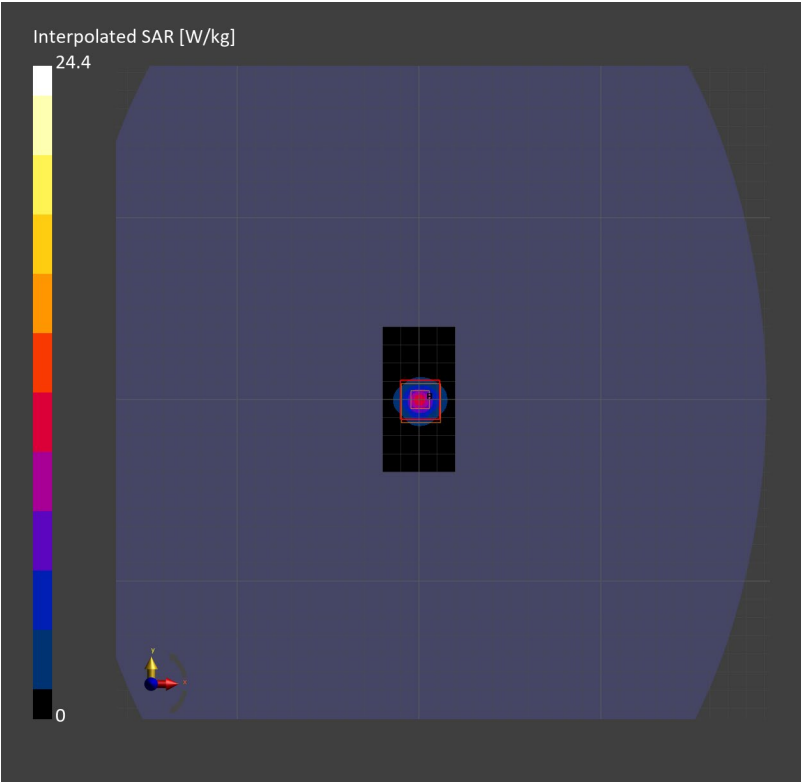
DUT:5250V2-SN 1165

Communication System: ; Frequency: 5250.000
Medium: HSL. Medium parameters used: $f=5250.000$ MHz; $\sigma=4.61$ S/m; $\epsilon_r=35.8$

- DASY6 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(5.52, 5.56, 5.42); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4 Sn1663; Calibrated: 2025-04-28
 - Phantom: ELI V4.0 (20deg probe tilt); Serial: 1123
 - 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) = 7.27 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 = 0.04 dB
SAR (1g) = 7.35 W/kg; SAR (10g) = 2.22 W/kg;
M2/M1 [%]=71.3
Dist 3dB Peak [mm]=6.6



System Performance Check 5600 MHz Head

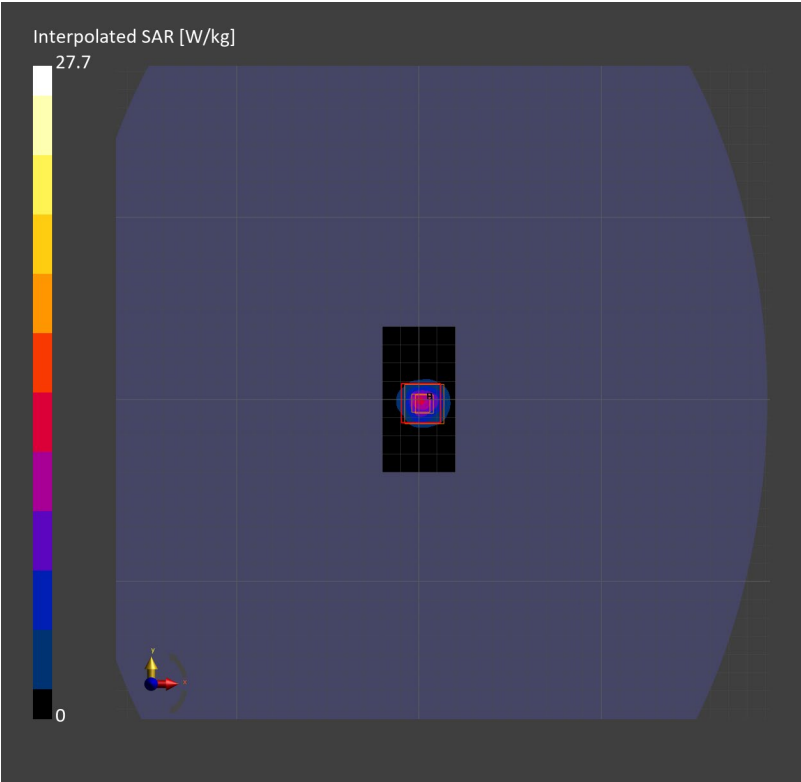
DUT:5600V2-SN 1165

Communication System: ; Frequency: 5600.000
Medium: HSL. Medium parameters used: $f=5600.000$ MHz; $\sigma=4.98$ S/m; $\epsilon_r=35.0$

- DASY6 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(5.07, 4.84, 4.98); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4 Sn1663; Calibrated: 2025-04-28
 - Phantom: ELI V4.0 (20deg probe tilt); Serial: 1123
 - 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) = 7.95 W/kg; SAR (10g) = 2.39 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 = 0.02 dB
SAR (1g) = 8.18 W/kg; SAR (10g) = 2.51 W/kg;
M2/M1 [%]=70.0
Dist 3dB Peak [mm]=6.9



System Performance Check 5750 MHz Head

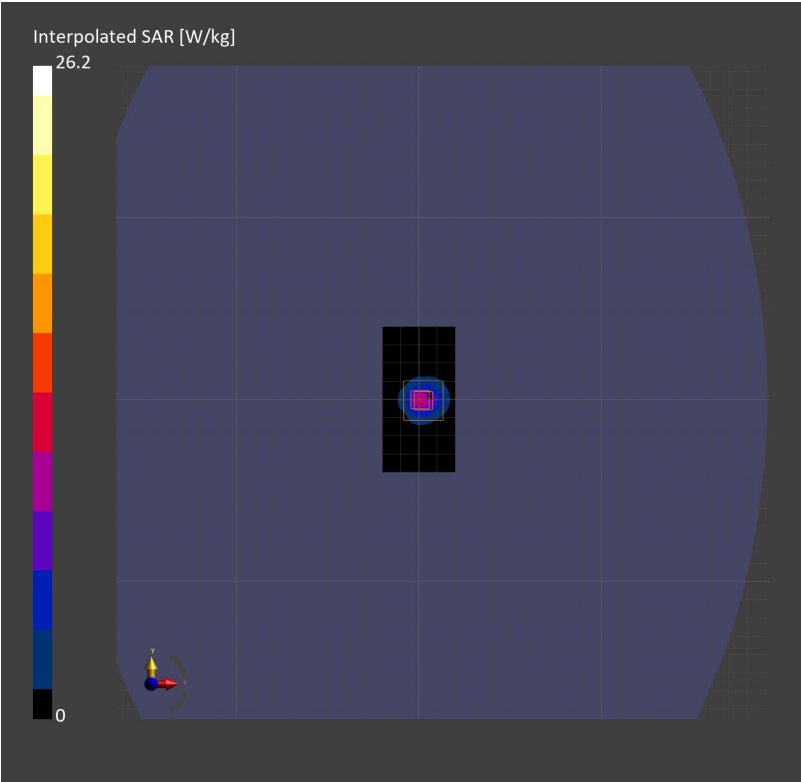
DUT:5750V2-SN 1165

Communication System: ; Frequency: 5750.000
Medium: HSL. Medium parameters used: $f=5750.000$ MHz; $\sigma=5.17$ S/m; $\epsilon_r=34.8$

- DASY6 Configuration:
- Probe: EX3DV4 - SN7838; ConvF(5.18, 4.94, 5.09); Calibrated: 2024-11-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4 Sn1663; Calibrated: 2025-04-28
 - Phantom: ELI V4.0 (20deg probe tilt); Serial: 1123
 - 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) = 7.19 W/kg; SAR (10g) = 2.08 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) = 7.33 W/kg; SAR (10g) = 2.19 W/kg;
M2/M1 [%]=68.7
Dist 3dB Peak [mm]=7.2



System Performance Check 6.5 GHz Head

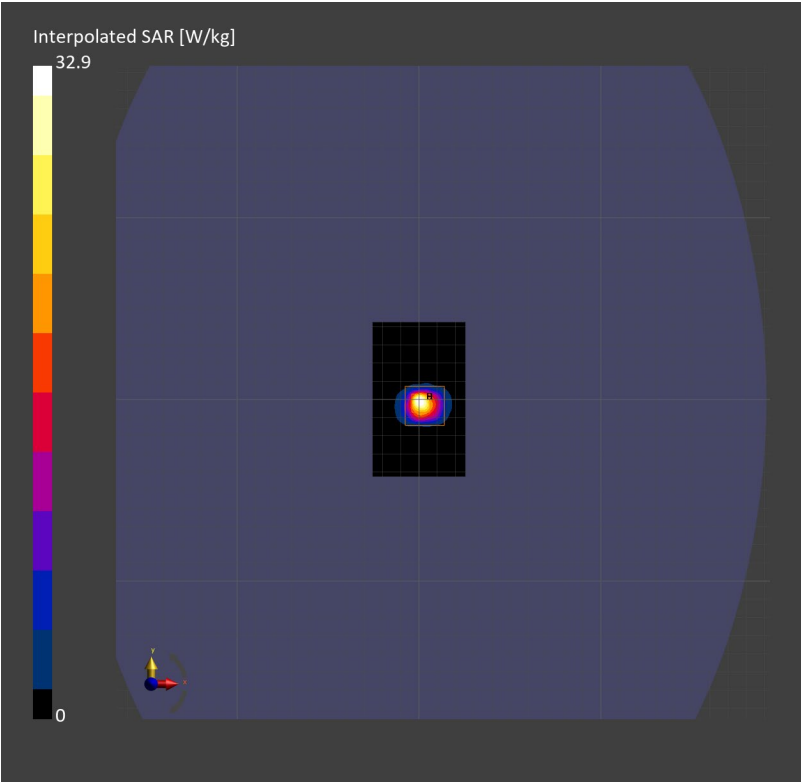
DUT:6500V2-SN 1102

Communication System: ; Frequency: 6500.000
Medium: HSL. Medium parameters used: $f=6500.000$ MHz; $\sigma=6.27$ 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 Sn1663; Calibrated: 2025-04-28
 - Phantom: ELI V4.0 (20deg probe tilt); Serial: 1123
 - Measurement Software: cDASY6 V16.4.0.5005

Area Scan (51.0 mm x 85.0 mm): Measurement Grid: 8.5 mm x 8.5 mm
SAR (1g) = 21.2 W/kg; SAR (10g) = 5.28 W/kg;

Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 3.4 mm x 3.4 mm x 1.4 mm
Power Drift = 0.09 dB
SAR (1g) = 26.5 W/kg; SAR (10g) = 5.91 W/kg;
M2/M1 [%]=59.0
Dist 3dB Peak [mm]=5.2



Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
10G Source, SPEAG	100.0 x 100.0 x 150.0	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 Sn1663, 2025–04–28

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.125 x 0.125
Sensor Surface [mm]	10.0
MAIA	N/A

Measurement Results

Scan Type	5G Scan
Date	2025–06–23
Avg. Area [cm2]	4.00
psPDn+ [W/m2]	184
psPDtot+ [W/m2]	185
psPDmod+ [W/m2]	190
E _{max} [V/m]	301
Power Drift [dB]	–0.01

