

Appendix A

Detailed System Check Results

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



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SGS-SAR LabDate: 2024-09-14

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; $\sigma = 1.85$ S/m; $\epsilon_r = 40.16$

DASY8 Configuration:

- Probe: EX3DV4 - SN7636; ConvF(7.95, 7.95, 7.95); Calibrated: 2024-07-17
- 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 V16.2.4.2524

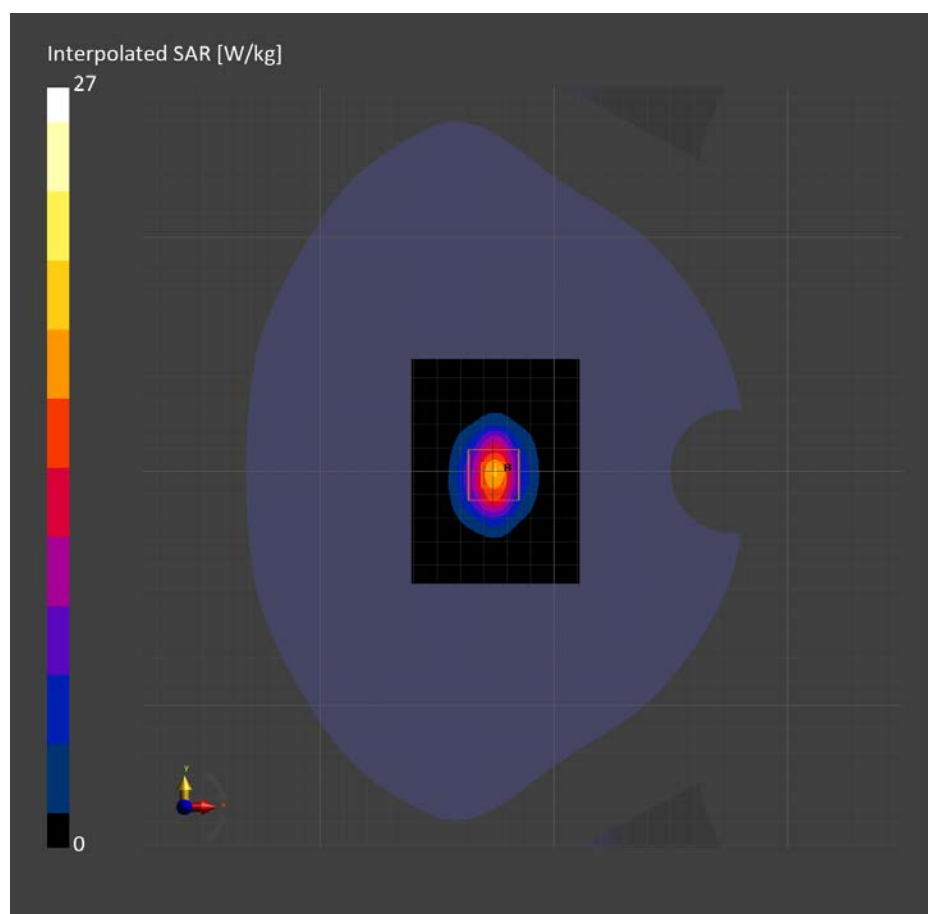
Area Scan (72.0 mm x 96.0 mm): Measurement Grid: 12.0 mm x 12.0 mm

SAR (1g) = 13.8 W/kg; SAR (10g) = 6.42 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 = -0.07 dB

SAR (1g) = 13.5 W/kg; SAR (10g) = 6.35 W/kg;



SGS-SAR LabDate: 2024-09-15

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; $\sigma = 4.66$ S/m; $\epsilon_r = 36.7$

DASY8 Configuration:

- Probe: EX3DV4 - SN7636; ConvF(5.6, 5.6, 5.6); Calibrated: 2024-07-17
- 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 V16.2.4.2524

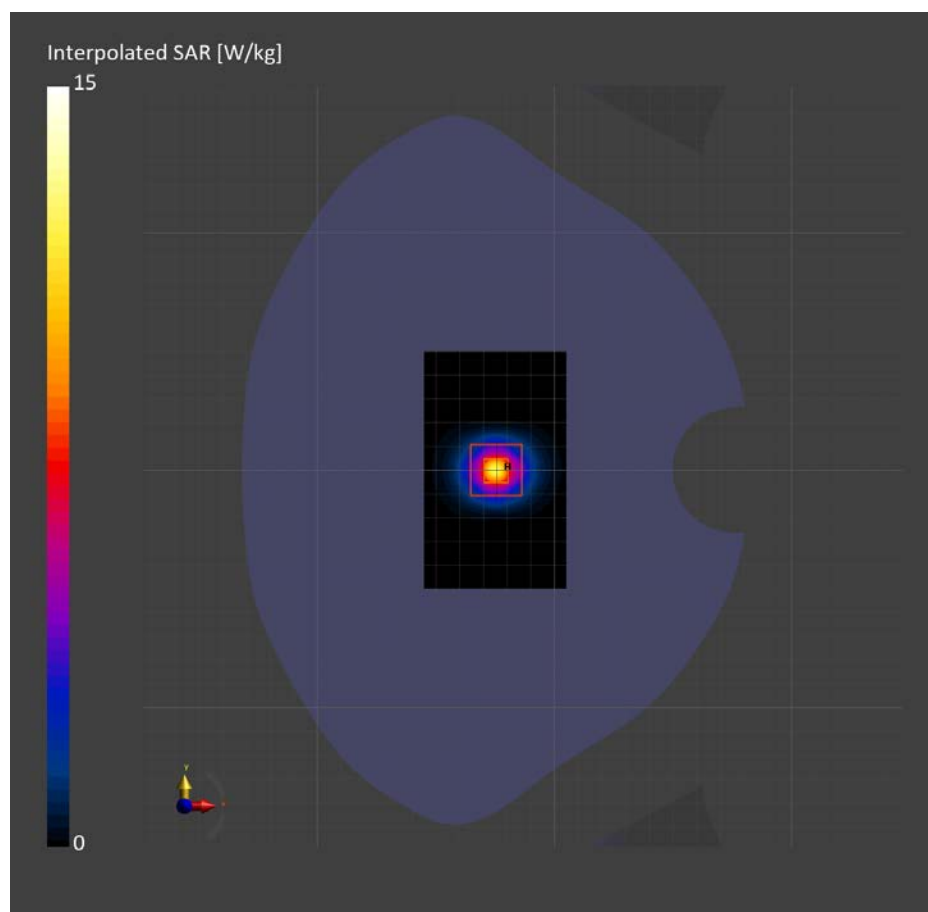
Area Scan (60.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 7.75 W/kg; SAR (10g) = 2.26 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 = -0.07 dB

SAR (1g) = 7.83 W/kg; SAR (10g) = 2.3 W/kg;



SGS-SAR LabDate: 2024-09-16

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; $\sigma = 5.12$ S/m; $\epsilon_r = 35.7$

DASY8 Configuration:

- Probe: EX3DV4 - SN7636; ConvF(5.02, 5.02, 5.02); Calibrated: 2024-07-17
- 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 V16.2.4.2524

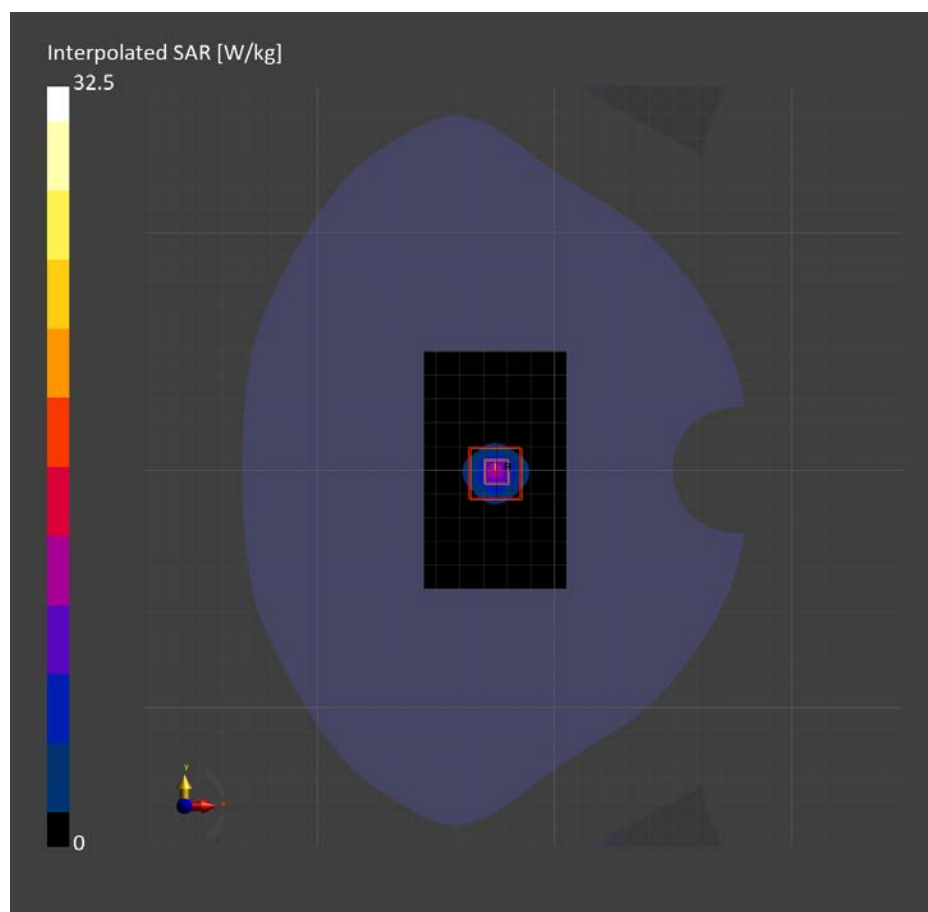
Area Scan (60.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 7.89 W/kg; SAR (10g) = 2.27 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) = 8.3 W/kg; SAR (10g) = 2.39 W/kg;



SGS-SAR LabDate: 2024-09-17

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; $\epsilon_r = 35.3$

DASY8 Configuration:

- Probe: EX3DV4 - SN7636; ConvF(5.16, 5.16, 5.16); Calibrated: 2024-07-17
- 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 V16.2.4.2524

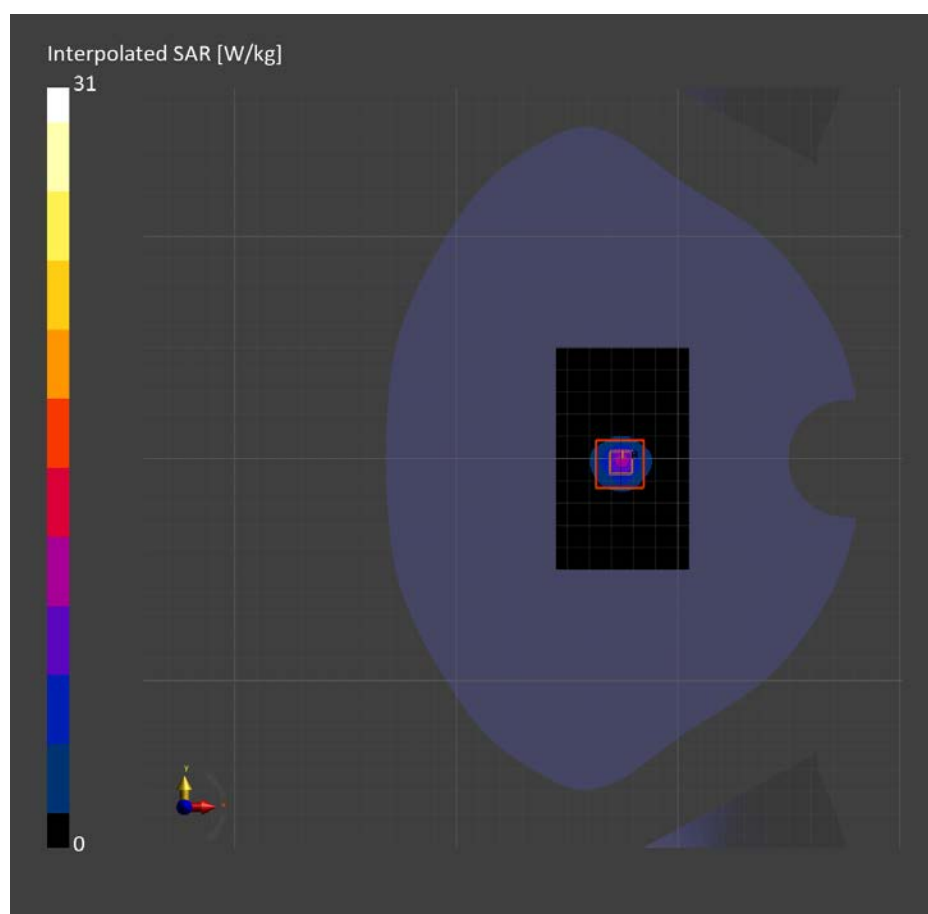
Area Scan (60.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 7.47 W/kg; SAR (10g) = 2.18 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) = 8.03 W/kg; SAR (10g) = 2.15 W/kg;



SGS-SAR LabDate: 2024-08-06

System Performance Check 6500 MHz Head

D6.5GHzV2-SN 1102

Communication System: D6.5GHz; Frequency: 6500.000

Medium: Head Simulating Liquid. Medium parameters used: $f = 6500.000$ MHz; $\sigma = 6.01$ S/m; $\epsilon_r = 34.3$

DASY8 Configuration:

- Probe: EX3DV4 - SN7838; ConvF(5.07, 4.99, 5.15); Calibrated: 2023-09-11
- Sensor-Surface: 1.4 mm
- Electronics: DAE4ip Sn1830; Calibrated: 2023-09-12
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2156
- Measurement Software: cDASY8 V16.2.4.2524

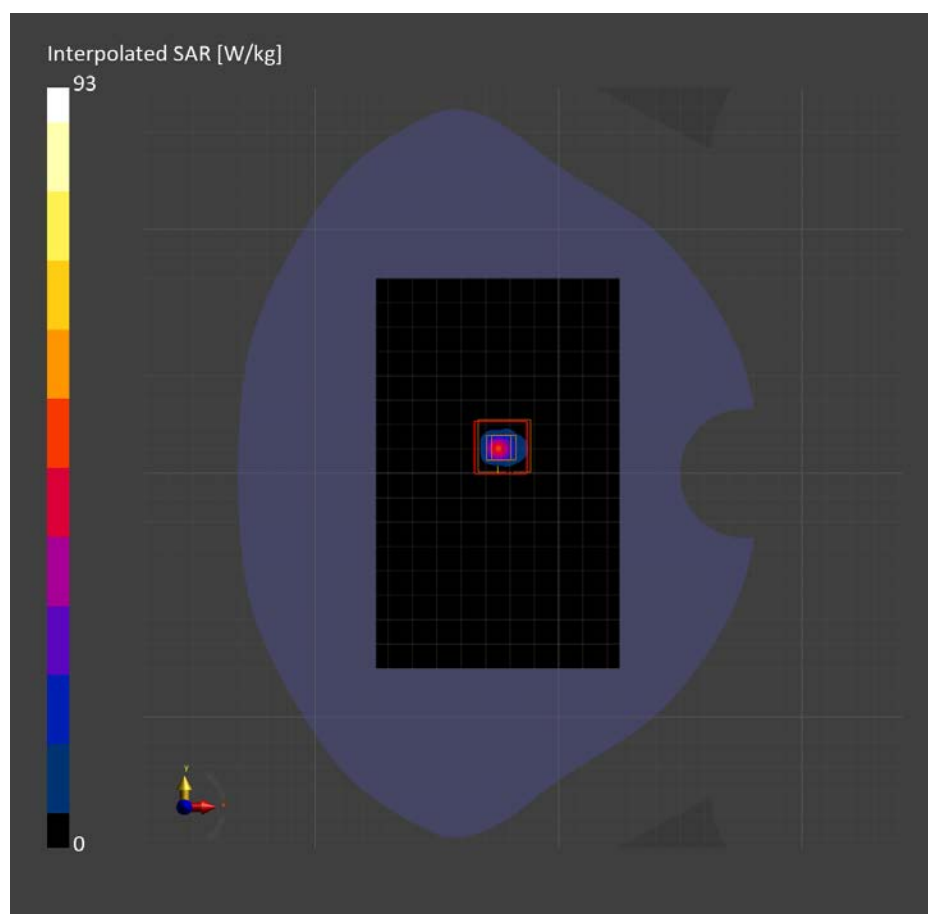
Area Scan (100.0 mm x 160.0 mm): Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 25.2 W/kg; SAR (10g) = 5.18 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 = -0.15 dB

SAR (1g) = 30.3 W/kg; SAR (10g) = 5.82 W/kg;



Test Laboratory:SGS-SAR Lab

System Performance Check 10GHz Power Density

Device Under Test Properties

Model	Dimensions [mm]	IMEI	DUT Type
10G Source	100.0 x 100.0 x 100.0		Phone

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, 2023-08-18	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	2024-08-07
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	181
psPDtot+ [W/m ²]	183
psPDmod+ [W/m ²]	187
E _{max} [V/m]	299
Power Drift [dB]	0.02

