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## Appendix A. System Check Data

Test Laboratory: DEKRA

Date: 2024-09-20

### System Performance Check\_2450MHz-Head

Communication System: UID 0--, CW; Frequency: 2450.000 MHz

Medium parameters used:  $f = 2450.000$  MHz; Conductivity = 1.78 S/m; Permittivity = 39.2

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(6.73, 6.93, 6.69); Calibrated: 2024-04-22
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2024-04-22
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.2.4.2524

**Area Scan (40.0 mm x 80.0 mm ):** Measurement grid: 10.0 mm x 10.0 mm

SAR (1 g) = 12.0 W/kg; SAR (10 g) = 5.60 W/kg

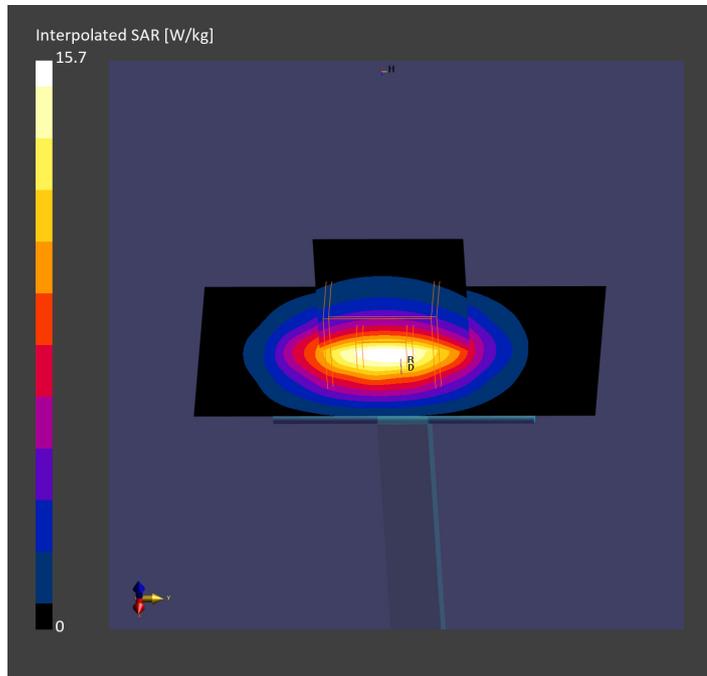
**Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm ):** Measurement grid: 5.0 mm x 5.0 mm x 1.5 mm

Power Drift = 0.01 dB

SAR(1 g) = 12.6 W/kg; SAR(10 g) = 5.91 W/kg

Smallest distance from peaks to all points 3 dB below = 9.0

Ratio of SAR at M2 to SAR at M1 = 81.1



Test Laboratory: DEKRA

Date: 2024-09-21

### System Performance Check\_5250MHz-Head

Communication System: UID 0--, CW; Frequency: 5250.000 MHz

Medium parameters used:  $f = 5250.000$  MHz; Conductivity = 4.78 S/m; Permittivity = 36.4

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(5.09, 5.24, 5.17); Calibrated: 2024-04-22
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2024-04-22
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.2.4.2524

**Area Scan (40.0 mm x 80.0 mm ):** Measurement grid: 10.0 mm x 10.0 mm

SAR (1 g) = 12.8 W/kg; SAR (10 g) = 3.72 W/kg

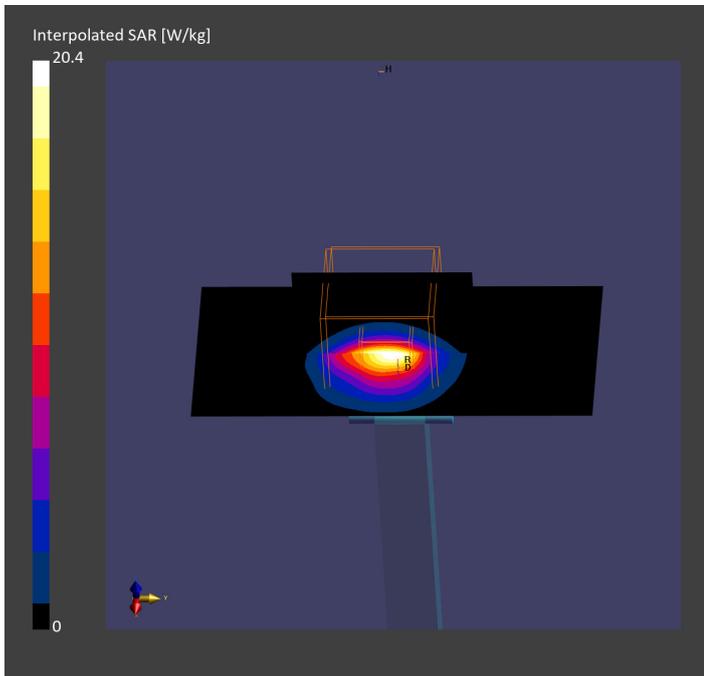
**Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm ):** Measurement grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = -0.00 dB

SAR(1 g) = 7.5 W/kg; SAR(10 g) = 2.18 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6

Ratio of SAR at M2 to SAR at M1 = 64.5



Test Laboratory: DEKRA

Date: 2024-09-21

### System Performance Check\_5600MHz-Head

Communication System: UID 0--, CW; Frequency: 5600.000 MHz

Medium parameters used:  $f = 5600.000$  MHz; Conductivity = 5.25 S/m; Permittivity = 35.5

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.41, 4.5, 4.47); Calibrated: 2024-04-22
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2024-04-22
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.2.4.2524

**Area Scan (40.0 mm x 80.0 mm ):** Measurement grid: 10.0 mm x 10.0 mm

SAR (1 g) = 8.35 W/kg; SAR (10 g) = 2.39 W/kg

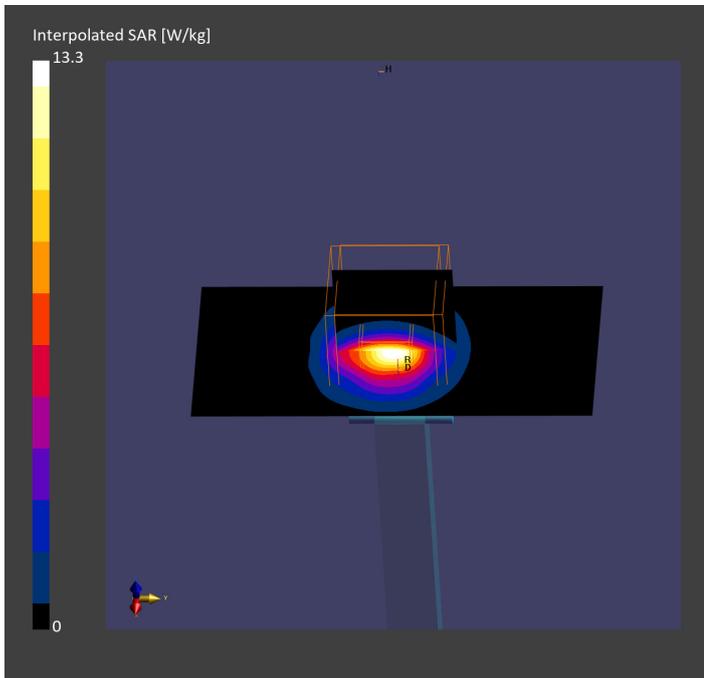
**Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm ):** Measurement grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = -0.00 dB

SAR(1 g) = 8.34 W/kg; SAR(10 g) = 2.39 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6

Ratio of SAR at M2 to SAR at M1 = 63.7



Test Laboratory: DEKRA

Date: 2024-09-21

### System Performance Check\_5800MHz-Head

Communication System: UID 0--, CW; Frequency: 5800.000 MHz

Medium parameters used:  $f = 5800.000$  MHz; Conductivity = 5.51 S/m; Permittivity = 34.9

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.47, 4.6, 4.54); Calibrated: 2024-04-22
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2024-04-22
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.2.4.2524

**Area Scan (40.0 mm x 80.0 mm ):** Measurement grid: 10.0 mm x 10.0 mm

SAR (1 g) = 6.92 W/kg; SAR (10 g) = 2.00 W/kg

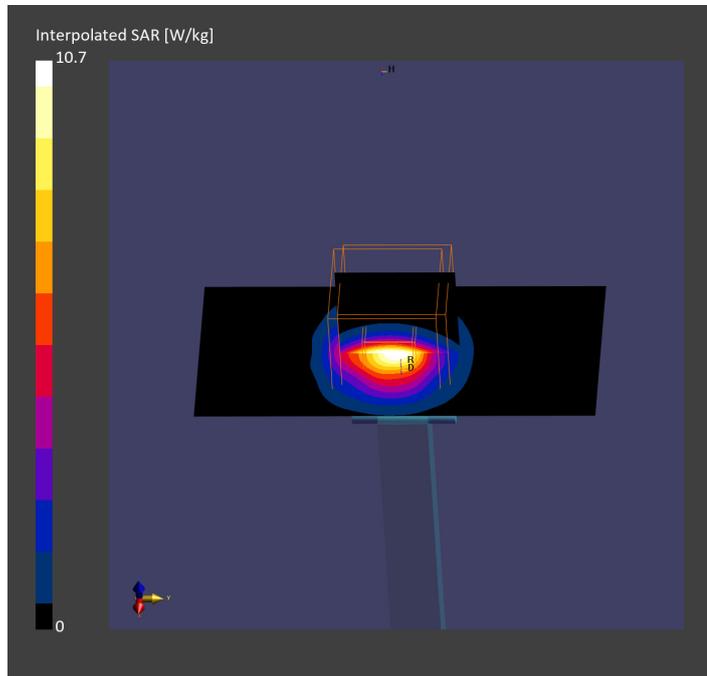
**Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm ):** Measurement grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = 0.12 dB

SAR(1 g) = 8.37 W/kg; SAR(10 g) = 2.39 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6

Ratio of SAR at M2 to SAR at M1 = 60.5



Test Laboratory: DEKRA

Date: 2024-09-15

### System Performance Check\_6500MHz-Head

Communication System: UID 0--, CW; Frequency: 6500.000 MHz

Medium parameters used:  $f = 6500.000$  MHz; Conductivity = 5.99 S/m; Permittivity = 35.3

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.71, 4.83, 4.78); Calibrated: 2024-04-22
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2024-04-22
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.2.4.2524

**Area Scan (51.0 mm x 85.0 mm ):** Measurement grid: 8.5 mm x 8.5 mm

SAR (1 g) = 24.7 W/kg; SAR (10 g) = 5.08 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

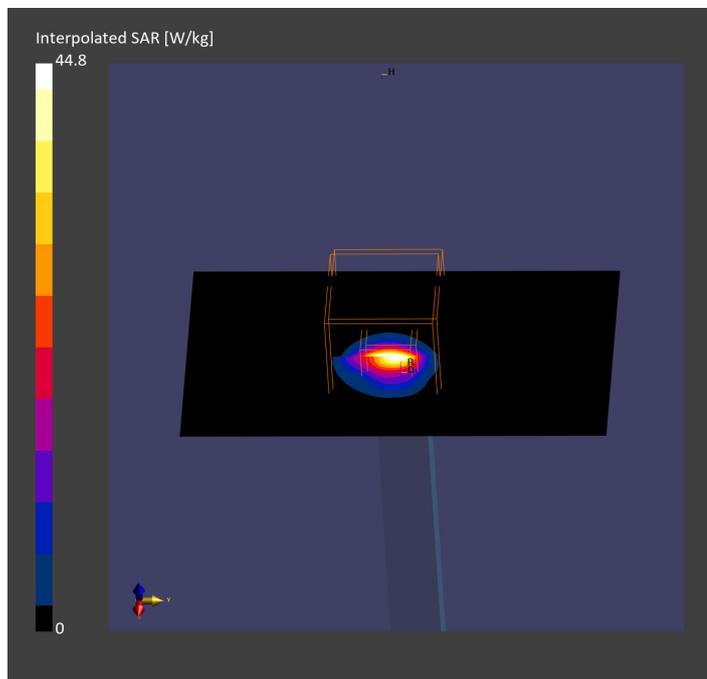
Power Drift = 0.01 dB

SAR(1 g) = 30.0 W/kg; SAR(10 g) = 5.79 W/kg

psAPD (4.0cm<sup>2</sup>, sq) = 140 W/m<sup>2</sup>

Smallest distance from peaks to all points 3 dB below = 4.8

Ratio of SAR at M2 to SAR at M1 = 52.3



**System Performance Check\_10GHz**

**Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 100.0	SN-2006	

**Exposure Conditions**

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

**Hardware Setup**

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1068	Air	EUmmWV4 - SN9546_F1-55GHz, 2024-04-18	DAE4 Sn1651, 2024-02-15

**Scan Setup**

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.125 x 0.125
Sensor Surface [mm]	10.0
MAIA	N/A

**Measurement Results**

	5G Scan
Date	2024-09-16
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	191
psPDtot+ [W/m <sup>2</sup> ]	192
psPDmod+ [W/m <sup>2</sup> ]	198
E <sub>max</sub> [V/m]	308
Power Drift [dB]	-0.04

