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## Appendix A. System Check Data

Test Laboratory: DEKRA

Date: 2024/06/04

**System Performance Check\_2450MHz-Head****DUT: D2450V2; Type: D2450V2**

Communication System: UID 0, CW; Frequency: 2450 MHz

Communication System PAR: 0 dB

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.81$  S/m;  $\epsilon_r = 39.21$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(8.22, 8.22, 8.22) @ 2450 MHz; Calibrated: 2024/02/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2024/02/15
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASY52, Version 52.10 (4);

**Configuration/2450MHz\_Head/Area Scan (10x10x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 18.2 W/kg

**Configuration/2450MHz\_Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 106.1 V/m; Power Drift = 0.03 dB

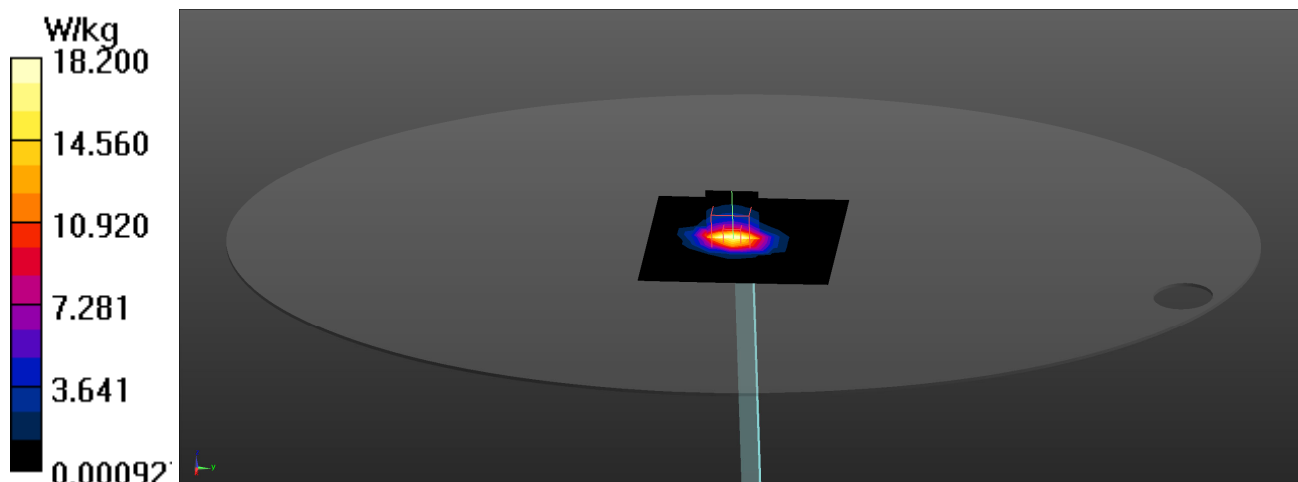
Peak SAR (extrapolated) = 24.6 W/kg

**SAR(1 g) = 12.8 W/kg; SAR(10 g) = 6.01 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 49.3%

Maximum value of SAR (measured) = 21.2 W/kg



Test Laboratory: DEKRA

Date: 2024/06/04

**System Performance Check\_5250MHz-Head****DUT: D5GHzV2; Type: D5GHzV2**

Communication System: UID 0, CW; Frequency: 5250 MHz

Communication System PAR: 0 dB

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.57$  S/m;  $\epsilon_r = 36.93$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(5.79, 5.79, 5.79) @ 5250 MHz; Calibrated: 2024/02/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2024/02/15
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASY52, Version 52.10 (4);

**Configuration/5250MHz-Head/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 16.2 W/kg

**Configuration/5250MHz-Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 51.97 V/m; Power Drift = 1.69 dB

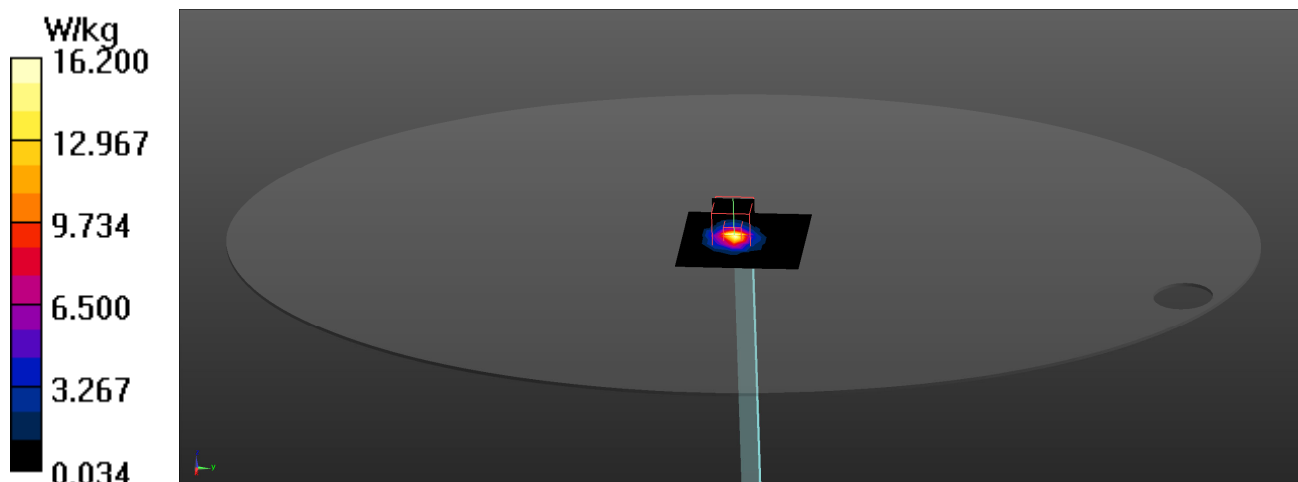
Peak SAR (extrapolated) = 27.4 W/kg

**SAR(1 g) = 7.92 W/kg; SAR(10 g) = 2.38 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 67.2%

Maximum value of SAR (measured) = 19.1 W/kg



Test Laboratory: DEKRA

Date: 2024/06/04

**System Performance Check\_5600MHz-Head****DUT: D5GHzV2; Type: D5GHzV2**

Communication System: UID 0, CW; Frequency: 5600 MHz

Communication System PAR: 0 dB

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.05$  S/m;  $\epsilon_r = 35.96$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(5.03, 5.03, 5.03) @ 5600 MHz; Calibrated: 2024/02/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2024/02/15
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASY52, Version 52.10 (4);

**Configuration/5600MHz-Head/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 13.2 W/kg

**Configuration/5600MHz-Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 48.21 V/m; Power Drift = 0.14 dB

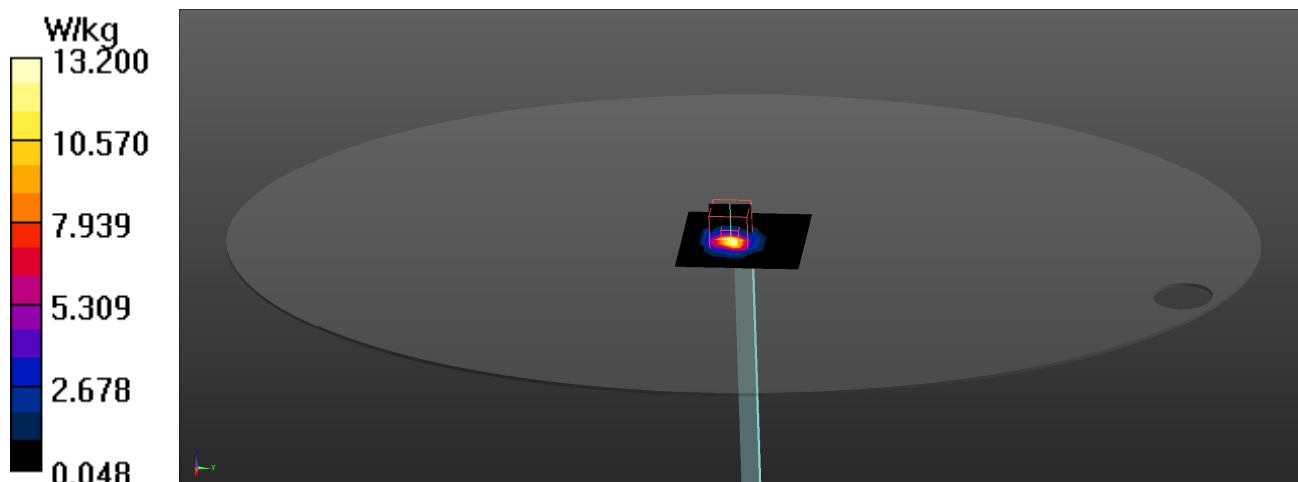
Peak SAR (extrapolated) = 27.1 W/kg

**SAR(1 g) = 7.51 W/kg; SAR(10 g) = 2.16 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 62.3%

Maximum value of SAR (measured) = 17.5 W/kg



Test Laboratory: DEKRA

Date: 2024/06/04

**System Performance Check\_5800MHz-Head****DUT: D5GHzV2; Type: D5GHzV2**

Communication System: UID 0, CW; Frequency: 5800 MHz

Communication System PAR: 0 dB

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.31$  S/m;  $\epsilon_r = 35.41$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN7631; ConvF(5.14, 5.14, 5.14) @ 5800 MHz; Calibrated: 2024/02/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2024/02/15
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASY52, Version 52.10 (4);

**Configuration/5800MHz-Head/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 21.5 W/kg

**Configuration/5800MHz-Head/Zoom Scan (9x9x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 52.31 V/m; Power Drift = 0.10 dB

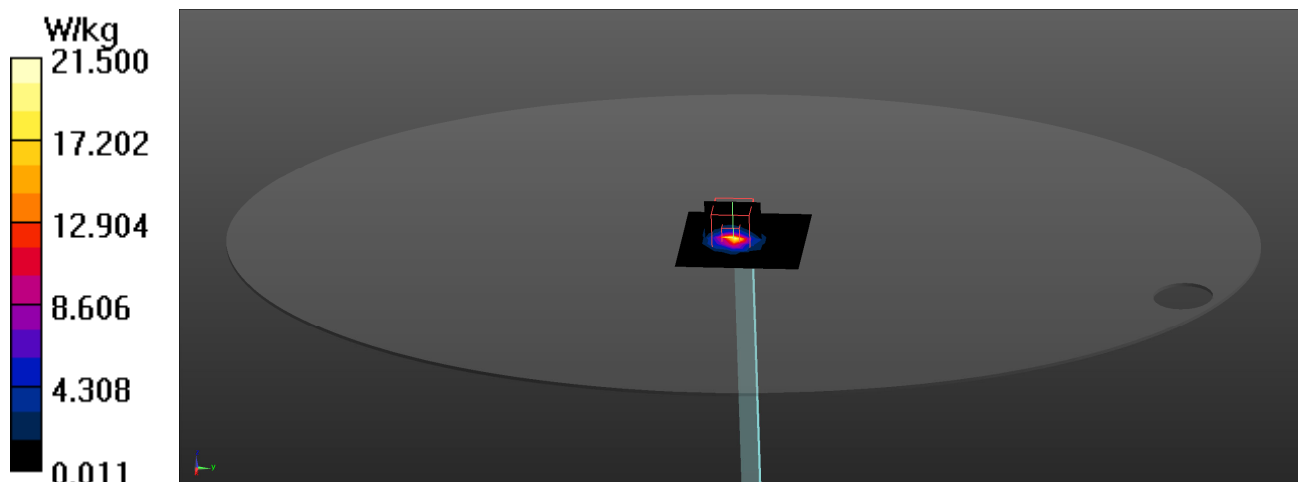
Peak SAR (extrapolated) = 28.8 W/kg

**SAR(1 g) = 7.56 W/kg; SAR(10 g) = 2.14 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 62.7%

Maximum value of SAR (measured) = 20.8 W/kg



Test Laboratory: DEKRA

Date: 2024-06-04

## System Performance Check\_6500MHz-Head

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

Medium parameters used:  $f = 6500.000$  MHz; Conductivity = 5.93 S/m; Permittivity = 35.0

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(5.7, 5.7, 5.7); Calibrated: 2024-02-21
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1651; Calibrated: 2024-02-15
- 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) = 19.7 W/kg; SAR (10 g) = 4.57 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 = 0.10 dB

SAR(1 g) = 29.3 W/kg; SAR(10 g) = 5.57 W/kg

psAPD (4.0cm<sup>2</sup>, sq) = 135 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 = 52.5

