Appendix A. SAR Validation Data

Date/Time: 12/10/2021

Test Laboratory: DEKRA Lab

System Check body 2450MHz

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

Communication System: UID 0, CW; Communication System Band: D2450; Duty Cycle: 1:1; Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ = 1.865 S/m; ε_r = 39.74; ρ = 1000 kg/m3 ; Phantom section: Flat Section ; Input Power=250mW

Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.36, 7.36, 7.36); Calibrated: 4/9/2021
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 3/11/2021
- Phantom: ELI1; Type: QDOVA002AA; Serial: TP:2106
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/System Check body 2450MHz/Area Scan

(7x11x1): Measurement grid: dx=10mm, dy=10mm

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

Configuration/System Check body 2450MHz/Zoom Scan

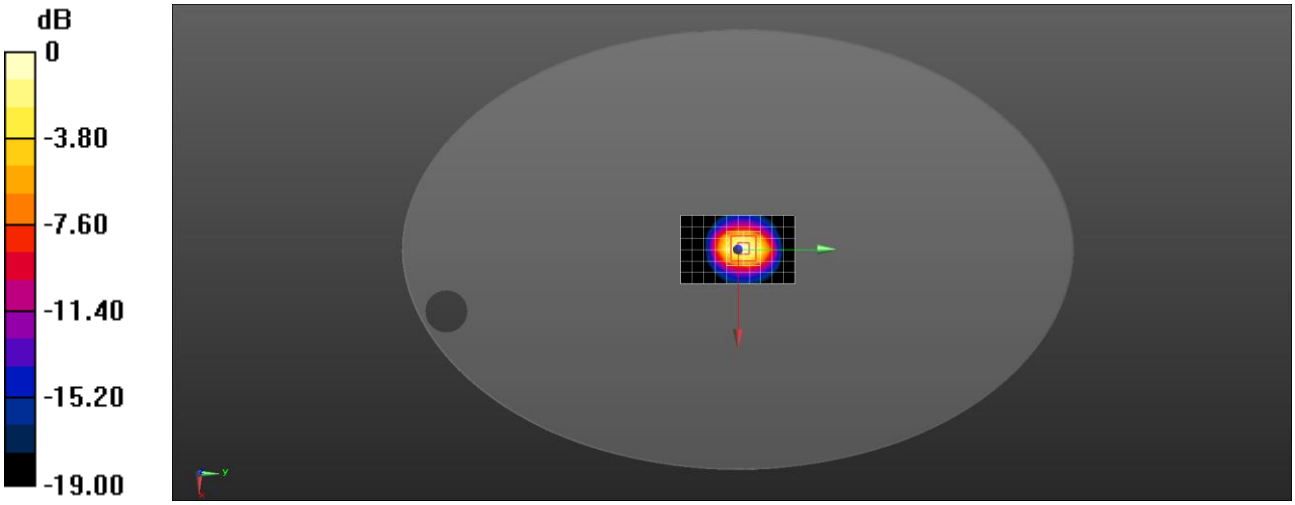
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 84.33 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 24.7 W/kg

SAR(1 g) = 12.3 W/kg; SAR(10 g) = 5.7 W/kg

Maximum value of SAR (measured) = 14.1 W/kg



0 dB = 14.1 W/kg = 11.49 dBW/kg

Date/Time: 12/11/2021

Test Laboratory: DEKRA Lab

System Check Body 5250MHz

DUT: Dipole D5GHzV2; Type: D5GHzV2

Communication System: UID 0, CW (0); Communication System Band: 5GHz; Duty Cycle: 1:1; Frequency: 5250 MHz; Medium parameters used: f = 5250 MHz; σ = 4.532 S/m; ε_r = 35.287; ρ = 1000 kg/m3 ;

Phantom section: Flat Section ; Input Power=100mW

Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(5.3, 5.3, 5.3); Calibrated: 4/9/2021
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 3/11/2021
- Phantom: ELI1; Type: QDOVA002AA; Serial: TP:2106
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/System Check Body 5250MHz/Area Scan

(6x8x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 5.14 W/kg

Configuration/System Check Body 5250MHz/Zoom Scan

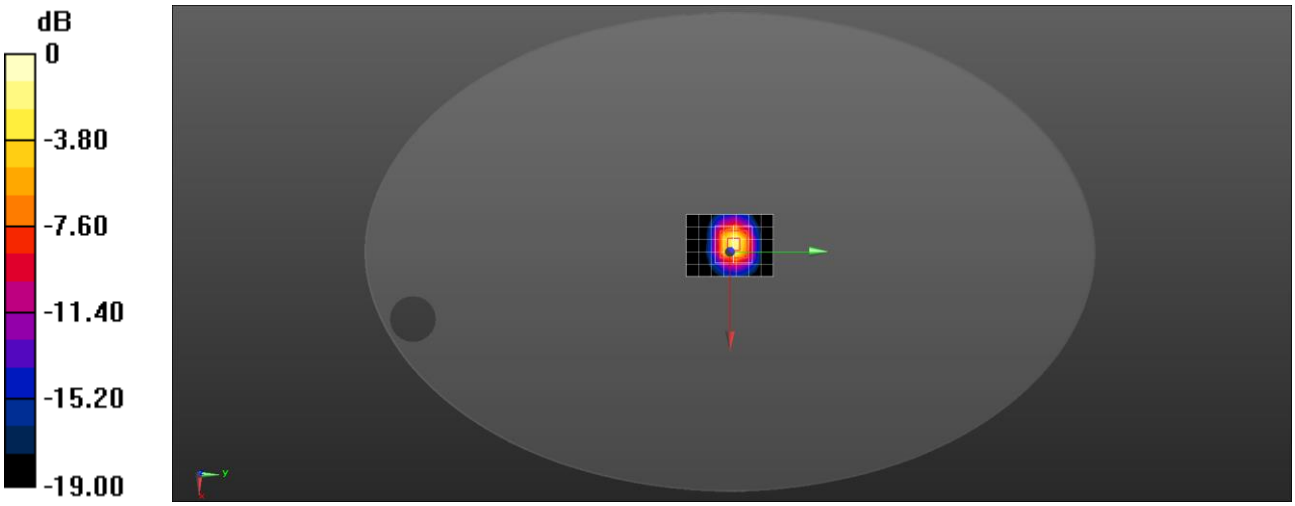
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.00 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 41.2 W/kg

SAR(1 g) = 7.12 W/kg; SAR(10 g) = 2.01 W/kg

Maximum value of SAR (measured) = 6.16 W/kg



0 dB = 6.16 W/kg = 7.90 dBW/kg

Date/Time: 12/12/2021

Test Laboratory: DEKRA Lab

System Check Body 5600MHz

DUT: Dipole D5GHzV2; Type: D5GHzV2

Communication System: UID 0, CW (0); Communication System Band: 5GHz; Duty Cycle: 1:1; Frequency: 5600 MHz; Medium parameters used: f = 5600 MHz; σ = 4.919 S/m; ε_r = 34.68; ρ = 1000 kg/m3 ;

Phantom section: Flat Section ; Input Power=100mW

Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(4.75, 4.75, 4.75); Calibrated: 4/9/2021
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 3/11/2021
- Phantom: ELI1; Type: QDOVA002AA; Serial: TP:2106
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/System Check Body 5600MHz/Area Scan

(6x8x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 5.26 W/kg

Configuration/System Check Body 5600MHz/Zoom Scan

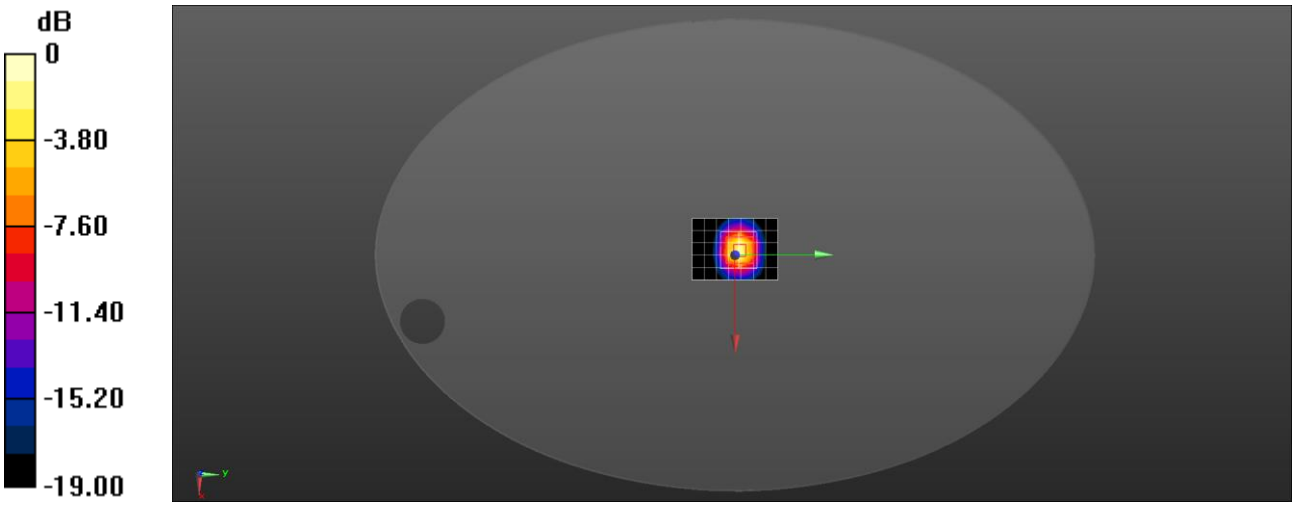
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.17 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 7.52 W/kg; SAR(10 g) = 2.16 W/kg

Maximum value of SAR (measured) = 6.53 W/kg



0 dB = 6.53 W/kg = 8.15 dBW/kg

Date/Time: 12/13/2021

Test Laboratory: DEKRA Lab

System Check Body 5750MHz

DUT: Dipole D5GHzV2; Type: D5GHzV2

Communication System: UID 0, CW (0); Communication System Band: 5GHz; Duty Cycle: 1:1; Frequency: 5750 MHz; Medium parameters used: f = 5750 MHz; σ = 5.09 S/m; ε r = 34.425; ρ = 1000 kg/m3 ;

Phantom section: Flat Section ; Input Power=100mW

Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(4.8, 4.8, 4.8); Calibrated: 4/9/2021
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 3/11/2021
- Phantom: ELI1; Type: QDOVA002AA; Serial: TP:2106
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/System Check Body 5750MHz/Area Scan

(6x8x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 4.91 W/kg

Configuration/System Check Body 5750MHz/Zoom Scan

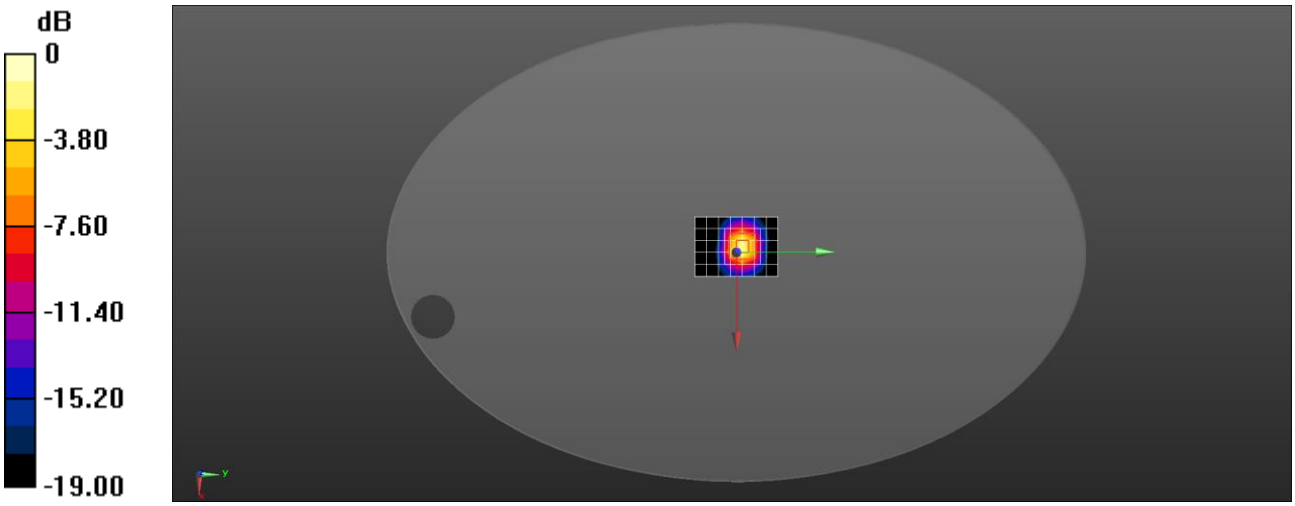
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.94 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 7.45 W/kg; SAR(10 g) = 2.16 W/kg

Maximum value of SAR (measured) = 6.38 W/kg



0 dB = 6.38 W/kg = 8.05 dBW/kg

The End