

Appendix A - System Verification

Test Laboratory: TUV Inc.

Date: 2024/10/30

System Check_HSL2450MHz

DUT: D2450V2 - SN804

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450_241030 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.814$ S/m; $\epsilon_r = 40.251$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C; Liquid Temperature : 22.8°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2024/4/22
- Probe: EX3DV4 - SN7400; ConvF(7.67, 7.67, 7.67) @ 2450 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Phantom: Right_Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: TP-1467
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Pin=250mW/Area Scan (9x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 21.3 W/kg

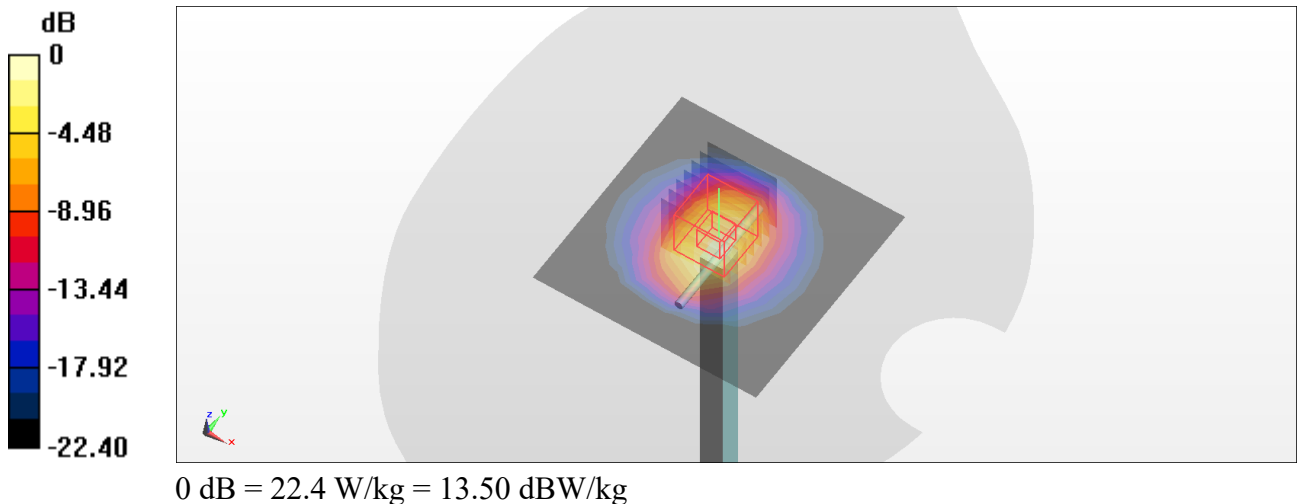
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 105.1 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 27.9 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.27 W/kg

Maximum value of SAR (measured) = 22.4 W/kg



System Check_HSL5250MHz

DUT: D5GHzV2 - SN1235

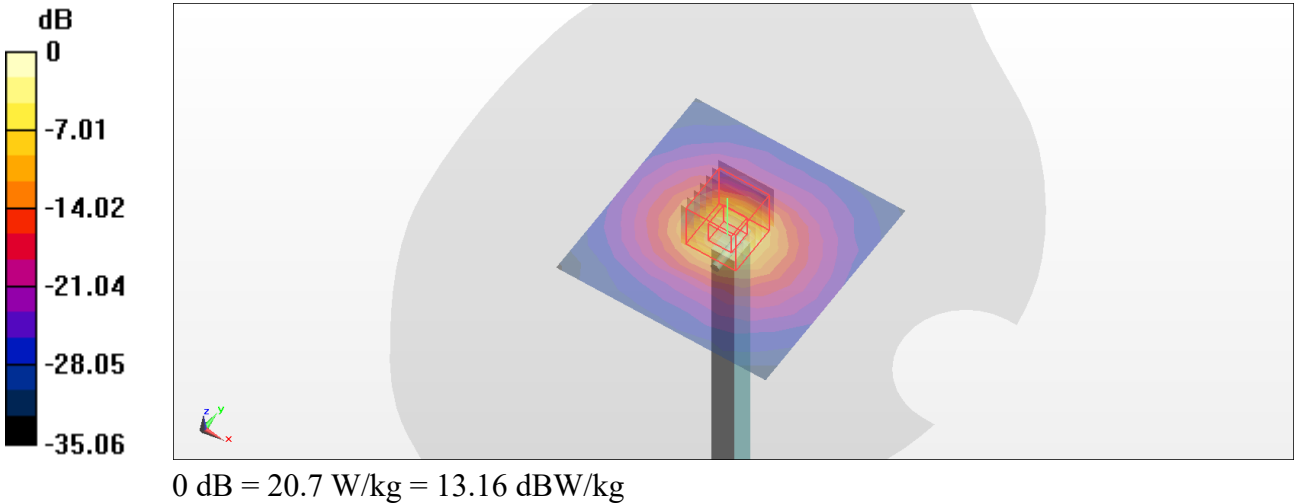
Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1
Medium: HSL5G_241101 Medium parameters used: $f = 5250\text{ MHz}$; $\sigma = 4.548\text{ S/m}$; $\epsilon_r = 35.667$; $\rho = 1000\text{ kg/m}^3$
Ambient Temperature : 23.4 °C;Liquid Temperature : 22.6°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2024/4/22
- Probe: EX3DV4 - SN7400; ConvF(5.05, 5.05, 5.05) @ 5250 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -9.0, 23.0$
- Phantom: Right_Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: TP-1467
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Pin=100mW/Area Scan (10x10x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 14.7 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 65.14 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 33.0 W/kg
SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.34 W/kg
Maximum value of SAR (measured) = 20.7 W/kg



System Check_HSL5600MHz

DUT: D5GHzV2 - SN1235

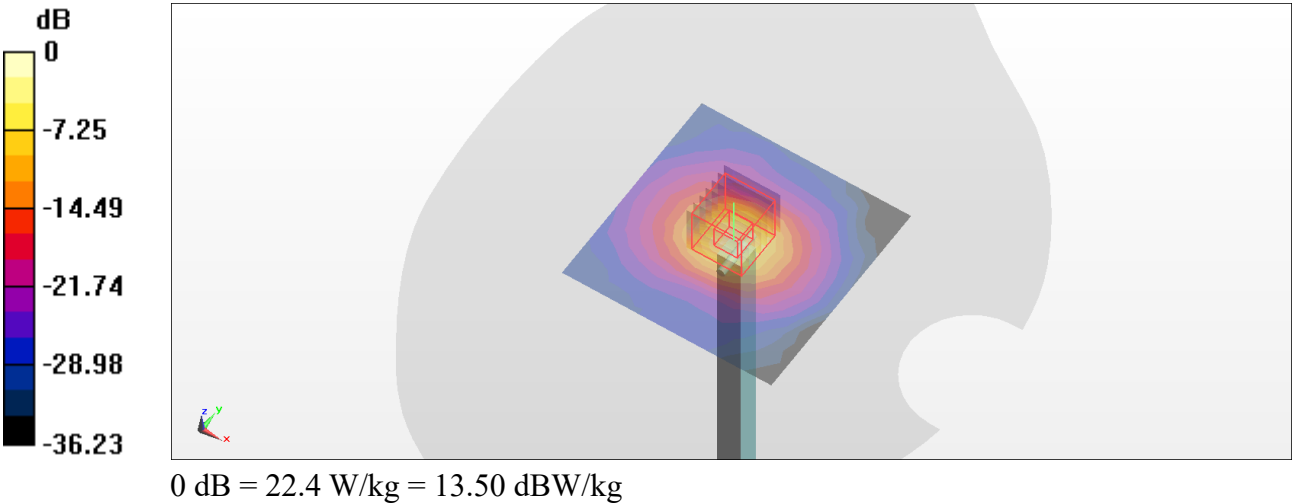
Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1
Medium: HSL5G_241101 Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 4.909 \text{ S/m}$; $\epsilon_r = 35.017$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2024/4/22
- Probe: EX3DV4 - SN7400; ConvF(4.74, 4.74, 4.74) @ 5600 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -9.0, 23.0$
- Phantom: Right_Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: TP-1467
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Pin=100mW/Area Scan (10x10x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 15.7 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 63.29 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 38.5 W/kg
SAR(1 g) = 8.45 W/kg; SAR(10 g) = 2.36 W/kg
Maximum value of SAR (measured) = 22.4 W/kg



System Check_HSL5750MHz

DUT: D5GHzV2 - SN1235

Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1
Medium: HSL5G_241101 Medium parameters used: $f = 5750 \text{ MHz}$; $\sigma = 5.065 \text{ S/m}$; $\epsilon_r = 34.763$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.4 °C;Liquid Temperature : 22.6°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2024/4/22
- Probe: EX3DV4 - SN7400; ConvF(4.77, 4.77, 4.77) @ 5750 MHz; Calibrated: 2024/4/25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -9.0, 23.0$
- Phantom: Right_Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: TP-1467
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Pin=100mW/Area Scan (10x10x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 15.5 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 63.08 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 36.6 W/kg
SAR(1 g) = 7.83 W/kg; SAR(10 g) = 2.21 W/kg
Maximum value of SAR (measured) = 20.9 W/kg

