

Appendix A - System Verification

Test Laboratory: TUV Inc.

Date: 2024/5/2

System Check_HSL750MHz

DUT: D750V3 - SN1199

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL750_240502 Medium parameters used: $f = 750$ MHz; $\sigma = 0.886$ S/m; $\epsilon_r = 42.637$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.3°C

DASY Configuration:

- Electronics: DAE4 Sn917; Calibrated: 2024/3/11
- Probe: EX3DV4 - SN7350; ConvF(9.8, 9.8, 9.8) @ 750 MHz; Calibrated: 2023/12/13
- 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 (7x7x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 2.98 W/kg

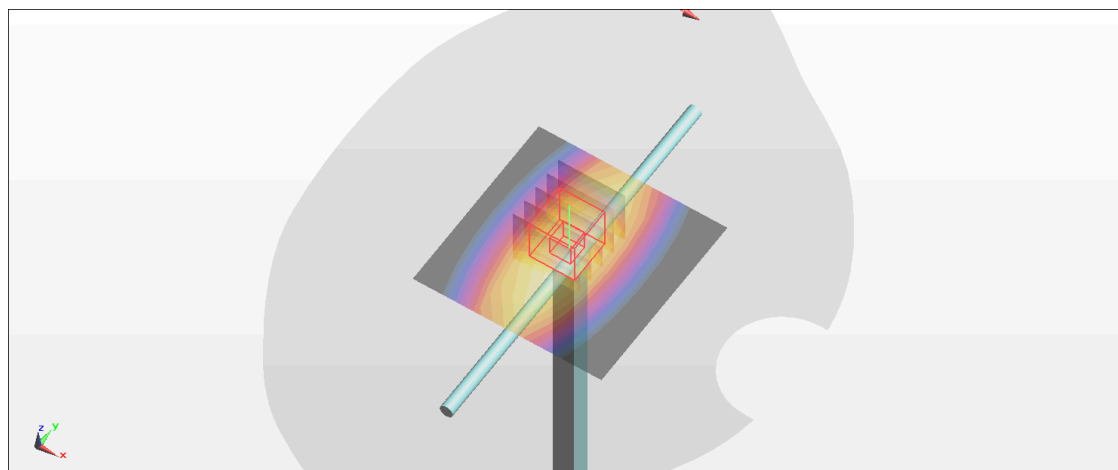
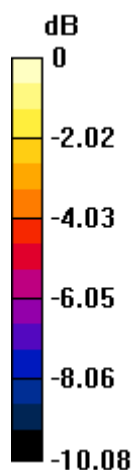
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 60.88 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.33 W/kg

SAR(1 g) = 2.26 W/kg; SAR(10 g) = 1.5 W/kg

Maximum value of SAR (measured) = 2.98 W/kg



0 dB = 2.98 W/kg = 4.74 dBW/kg

System Check_HSL835MHz

DUT: D835V2 - SN4d058

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835_240502 Medium parameters used: $f = 835$ MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 42.374$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.3°C

DASY Configuration:

- Electronics: DAE4 Sn917; Calibrated: 2024/3/11
- Probe: EX3DV4 - SN7350; ConvF(9.55, 9.55, 9.55) @ 835 MHz; Calibrated: 2023/12/13
- 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 (7x7x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 3.44 W/kg

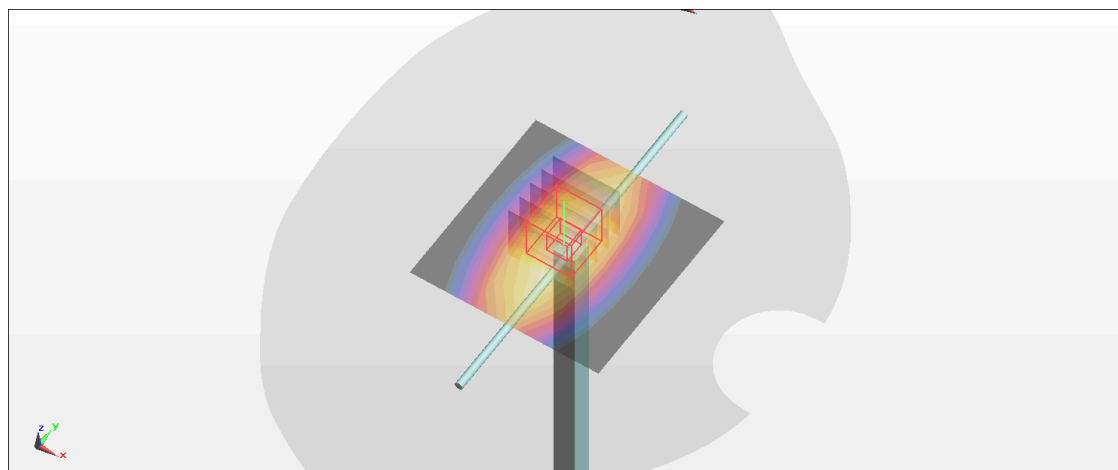
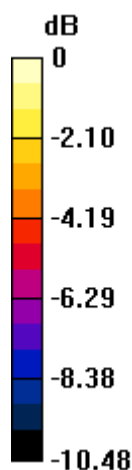
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 65.22 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.88 W/kg

SAR(1 g) = 2.63 W/kg; SAR(10 g) = 1.73 W/kg

Maximum value of SAR (measured) = 3.48 W/kg



0 dB = 3.48 W/kg = 5.42 dBW/kg

System Check_HSL1800MHz

DUT: D1800V2 - SN2d156

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: HSL1800_240430 Medium parameters used: $f = 1800$ MHz; $\sigma = 1.341$ S/m; $\epsilon_r = 39.906$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.7°C

DASY Configuration:

- Electronics: DAE4 Sn917; Calibrated: 2024/3/11
- Probe: EX3DV4 - SN7350; ConvF(8.87, 8.87, 8.87) @ 1800 MHz; Calibrated: 2023/12/13
- 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 (7x7x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 13.6 W/kg

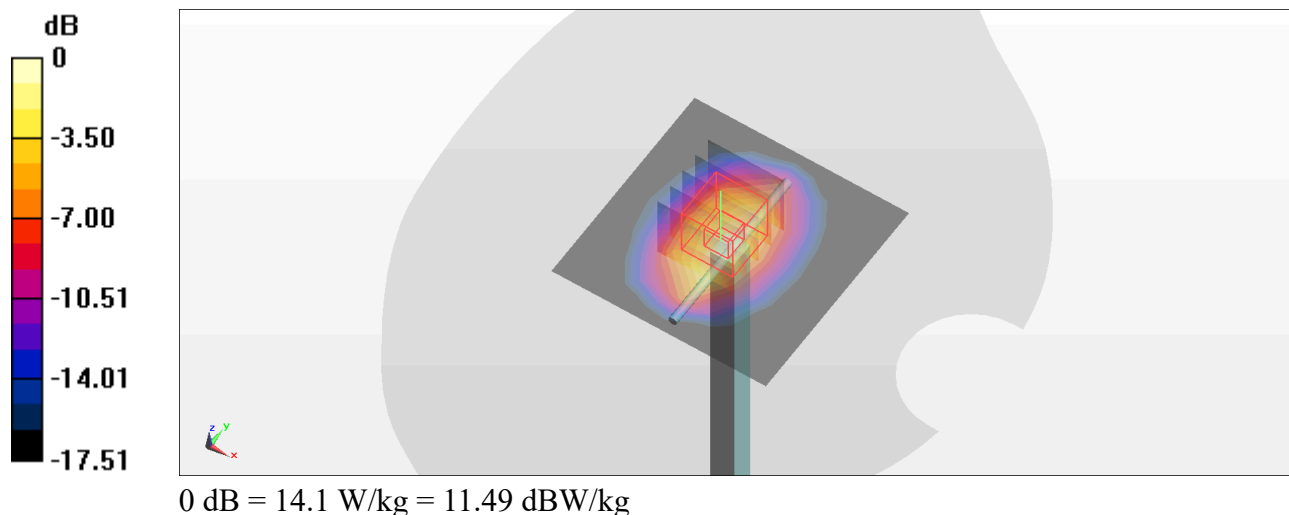
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 105.0 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 9.14 W/kg; SAR(10 g) = 4.81 W/kg

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



System Check_HSL1900MHz

DUT: D1900V2 - SN5d090

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL1900_240430 Medium parameters used: $f = 1900\text{ MHz}$; $\sigma = 1.4\text{ S/m}$; $\epsilon_r = 39.742$; $\rho = 1000\text{ kg/m}^3$
Ambient Temperature : 23.5 °C;Liquid Temperature : 22.7°C

DASY Configuration:

- Electronics: DAE4 Sn917; Calibrated: 2024/3/11
- Probe: EX3DV4 - SN7350; ConvF(8.27, 8.27, 8.27) @ 1900 MHz; Calibrated: 2023/12/13
- 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 (7x7x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 15.7 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 108.9 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 19.6 W/kg
SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.33 W/kg
Maximum value of SAR (measured) = 16.3 W/kg

