Appendix A. System performance verification

Test Laboratory: EMTEK (Shenzhen) Co.,Ltd. Date: 01.7.2017

SystemPerformanceCheck-D2450V2-HSL-170801

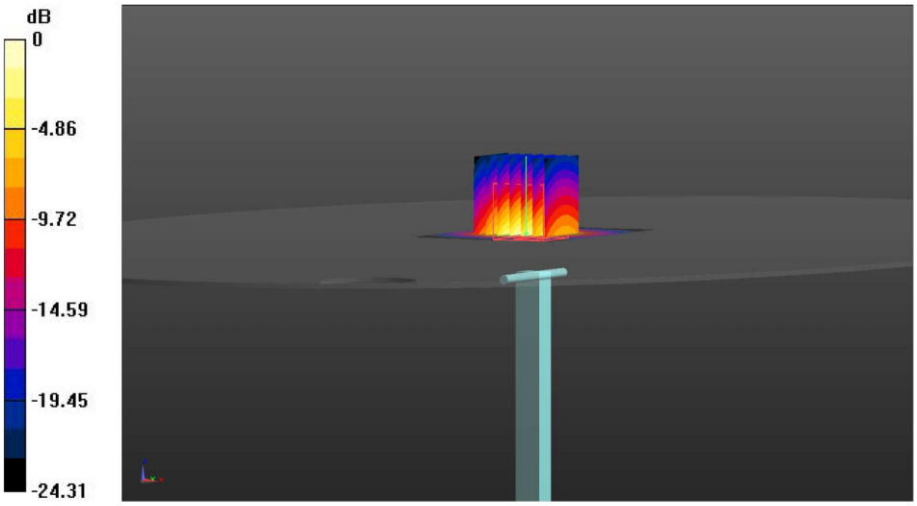
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: HSL_2450_170801
Medium parameters used: f = 2450 MHz; σ = 1.811 S/m; ε_r = 37.4; ρ = 1000 kg/m^3
Ambient Temperature: 23.5 ℃; Liquid Temperature: 22.5 ℃

DASY Configuration:

- Probe: EX3DV4 - SN3970; ConvF(7.63, 7.63, 7.63); Calibrated: 07.09.2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1418; Calibrated: 05.09.2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1231
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequency at 2450MHz/d=10mm, Pin=250mW, dist=2.0mm (EX-Probe)/Area Scan (41x61x1): Interpolated grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 16.7 W/kg

System Performance Check at Frequency at 2450MHz/d=10mm, Pin=250mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 96.092 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 24.5 W/kg
SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.39 W/kg
Maximum value of SAR (measured) = 16.5 W/kg



0 dB = 15.5 W/kg = 11.90 dBW/kg

Test Laboratory: EMTEK (Shenzhen) Co.,Ltd. Date: 03.07.2017

SystemPerformanceCheck-D2450V2-MSL-170803

Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: MSL_2450_170803

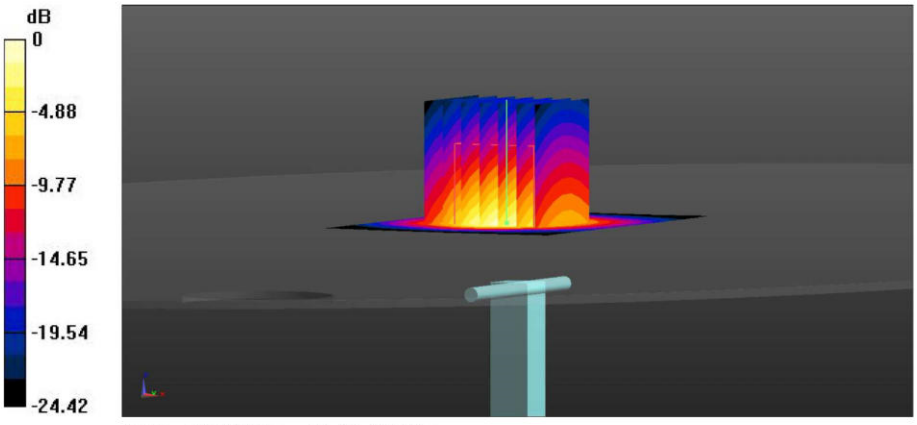
Medium parameters used: f = 2450 MHz; σ = 2.026 S/m; ε_r = 52.96; ρ = 1000 kg/m^3
Ambient Temperature: 23.5 ℃; Liquid Temperature: 22.5 ℃

DASY Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.30, 7.30, 7.30); Calibrated: 07.09.2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1341; Calibrated: 05.09.2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1231
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequency at 2450MHz/d=10mm, Pin=250mW, dist=2.0mm (EX-Probe)/Area Scan (41x61x1): Interpolated grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 17.2 W/kg

System Performance Check at Frequency at 2450MHz/d=10mm, Pin=250mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 95.192 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 26.5 W/kg
SAR(1 g) = 12.35 W/kg; SAR(10 g) = 5.74 W/kg
Maximum value of SAR (measured) = 17.4 W/kg



0 dB = 17.4 W/kg = 12.41 dBW/kg