

Appendix A

System Validation Plots

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1. D2450V2-SN: 904 Validation Plot

Date: 22.12.2022

Test Laboratory: Tianjin Dongdian Testing Service Co., Ltd.

2450MHz Validation

DUT: Dipole 2450 MHz D2450V2; Serial: D2450V2 - SN:904

Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.769$ S/m; $\epsilon_r = 37.74$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3906; ConvF(7.69, 7.69); Calibrated: 27.02.2022;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1366; Calibrated: 21.01.2022
- Phantom: EL1 v5.0; Type: QDOVA002AA; Serial: TP:1197
- DASY52 52.8.8(1212); SEMCAD X 14.6.10(7331)

Configuration/tilt/Area Scan (6x11x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 15.1 W/kg

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

Reference Value = 91.06 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 27.0 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.06 W/kg

Maximum value of SAR (measured) = 14.7 W/kg

