



Appendix A

Detailed System Validation Results

1. System Performance Check

System Performance Check 2450MHz Body

Test Laboratory: SGS-SAR Lab

System Performance Check 2450MHz Body

DUT: D2450V2; Type: D2450V2; Serial: 733

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

Medium: MSL2450; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.938$ S/m; $\epsilon_r = 50.802$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3962; ConvF(7.78, 7.78, 7.78); Calibrated: 2018/1/11;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1374; Calibrated: 2017/8/31
- Phantom: ELI V5.0; Type: ELI; Serial: 1123
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/d=10mm, Pin=250mW/Area Scan (10x14x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 13.8 W/kg

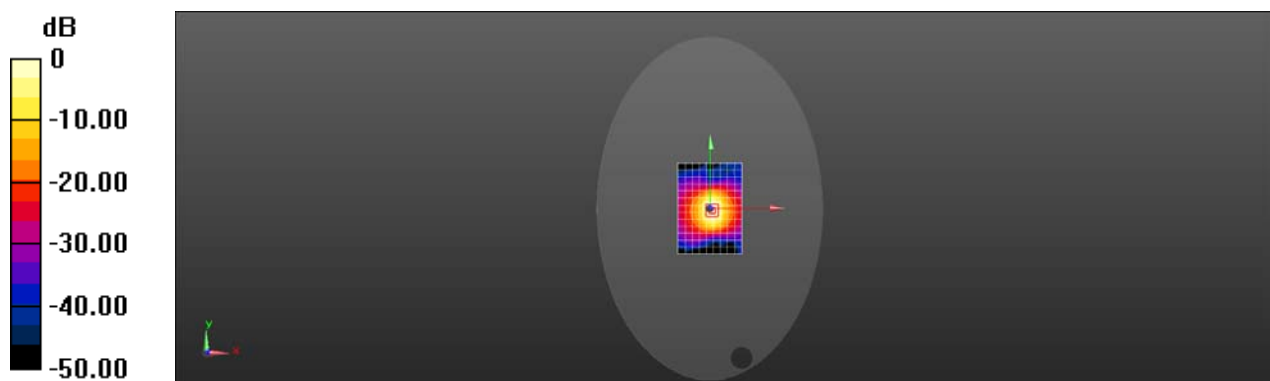
Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 80.343 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 25.8 W/kg

SAR(1 g) = 12.5 W/kg; SAR(10 g) = 5.75 W/kg

Maximum value of SAR (measured) = 14.3 W/kg



0 dB = 13.8 W/kg = 11.40 dBW/kg