

Appendix B

Detailed Test Results

WIFI 2.4G for Limbs



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Laboratory

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Test Laboratory: SGS-SAR Lab

WIFI 2.4G 802.11b 1CH Top side 0mm

DUT: 249-8581-000 VEX AIM Coding Robot;

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2412 MHz;Duty Cycle: 1:1.002

Medium: HSL2450;Medium parameters used: $f = 2412$ MHz; $\sigma = 1.743$ S/m; $\epsilon_r = 38.841$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(7.35, 7.35, 7.35); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2024/8/15
- Phantom: SAM5; Type: SAM Twin; Serial: 1673
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (11x11x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.177 W/kg

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

Reference Value = 6.686 V/m; Power Drift = 0.11 dB

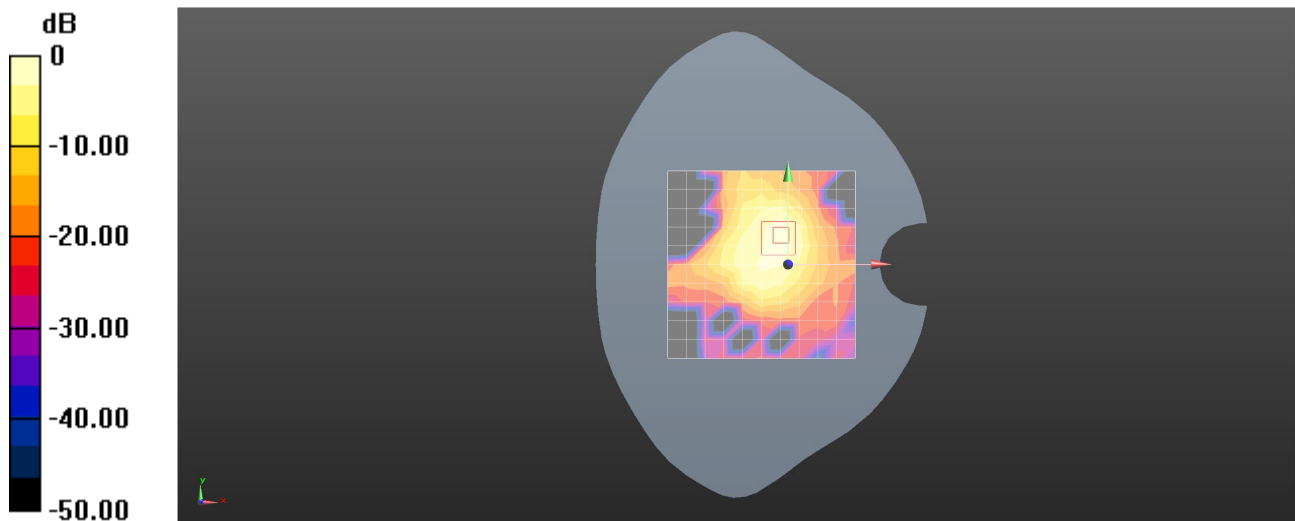
Peak SAR (extrapolated) = 0.244 W/kg

SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.047 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 45.5%

Maximum value of SAR (measured) = 0.181 W/kg



0 dB = 0.177 W/kg = -7.53 dBW/kg

- End of the Appendix -