

Appendix B - SAR Measurement

Test Laboratory: TUV Inc.

Date: 2026/7/21

04_NFC_Back Face_5mm_DUT3_USB 5V

DUT: VTAP25

Communication System: UID 0, NFC; Frequency: 13.56 MHz; Duty Cycle: 1:1

Medium: HSL13_260721 Medium parameters used: $f = 13.6$ MHz; $\sigma = 0.751$ S/m; $\epsilon_r = 55.26$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.2°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2026/4/20
- Probe: EX3DV4 - SN7400; ConvF(16.7, 16.06, 20.64) @ 13.56 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1153
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (11x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0587 W/kg

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

Reference Value = 0.8710 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.101 W/kg

SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.013 W/kg

Maximum value of SAR (measured) = 0.0706 W/kg

