

Appendix B - SAR Measurement

Test Laboratory: TUV Inc.

Date: 2026/4/10

01_NFC_Front Face_5mm_DUT1_USB 3.3V

DUT: VTAP25

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

Medium: HSL13_260410 Medium parameters used: $f = 13.6$ MHz; $\sigma = 0.751$ S/m; $\epsilon_r = 55.26$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.4°C

DASY Configuration:

- Electronics: DAE4 Sn1356; Calibrated: 2025/12/9
- Probe: EX3DV4 - SN7400; ConvF(15.91, 15.26, 19.06) @ 13.56 MHz; Calibrated: 2025/5/21
- 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) = 0.283 W/kg

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

Reference Value = 0.4010 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.249 W/kg

SAR(1 g) = 0.085 W/kg; SAR(10 g) = 0.044 W/kg

Maximum value of SAR (measured) = 0.162 W/kg

