

# Test Report - VxMarkScan T-Coil Adapter Compatibility [2024-07]

## Summary

This document serves to attest that the VotingWorks ballot-marking device VxMarkScan has been tested and verified to be compatible with T-coil hearing aids when paired with a separate T-coil adapter. This testing helps give evidence that VxMarkScan meets the following VVSG requirements, including for T-coil hearing aid users.

## Applicable VVSG Requirements

- 6.1-D Audio privacy
- 7.1-K Audio settings
- 8.1-C Personal Assistive Technology (PAT)
- 8.1-G Telephone Style Handset
- 8.1-J Hearing Aids

## **Devices Under Test**

VxMarkScan

## **Testing and Verification Process**

#### 1. Test Environment & Tools:

- Testing was conducted in a controlled environment designed to simulate typical voting conditions.
- Telecoil (t-coil)-compatible hearing amplifiers (from Hlisoundly / Amazon) were tested with two different telecoil 3.5mm audio adapters (Williams Sound NKL 001, and Bellman and Symfon Neckloop). Both quiet and noisy settings were used to assess performance.

#### 2. Testing Procedure:



- Each T-coil adapter was tested separately.
- When a T-coil was plugged into the headphone jack of the device under test, a
  magnetic field signal was produced from the T-coil compatible with
  T-coil-equipped hearing aids/amplifiers. The signal was confirmed to produce
  accurate sound through the hearing aids/amplifiers.

### 3. User Experience:

- T-coil hearing aids/amplifiers successfully interacted with the device under test without interference or loss of signal clarity.
- Audio was confirmed. The audio output was clear and comprehensible.