Figure 3. Preprocessing Robustness Under Clinical Noise
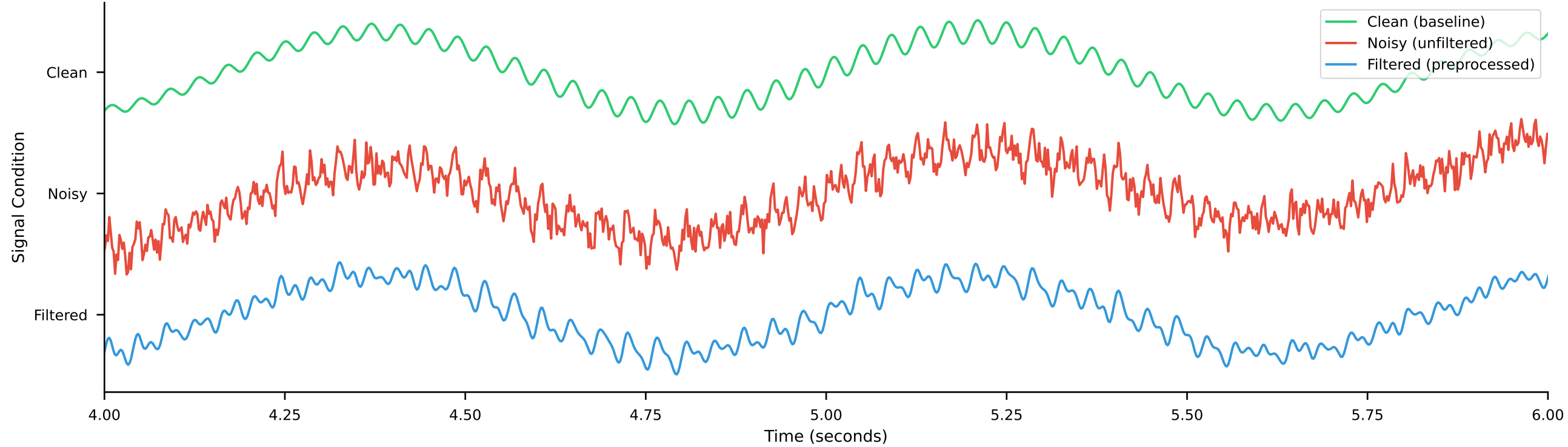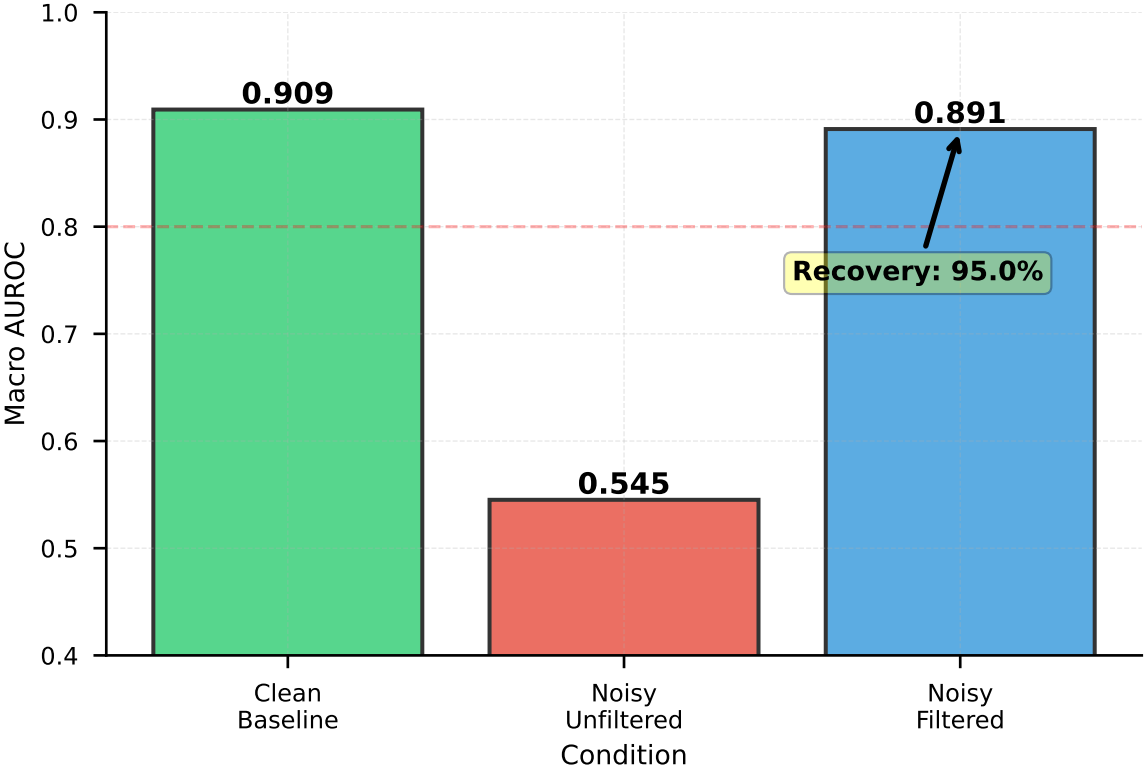
A. Example ECG Under Different Noise Conditions (Lead II)

Legend: Clean (baseline), Noisy (unfiltered), Filtered (preprocessed)

B. Diagnostic Performance Comparison

- Clean Baseline: 0.909
- Noisy Unfiltered: 0.545
- Noisy Filtered: 0.891
- Recovery: 95.0%

C. Robustness Across Noise Intensities

- Low: 98.5%
- Medium: 95.0%
- High: 87.3%

Legend: Recovery Rate, Performance Drop