Audio Forensic Voice Analysis Report

Date: March 21, 2025

Subject: Authenticity & Identity Verification of Voice Recordings

Purpose: Legal admissibility and validation of origin

Files Analyzed:

1. AUD-20250321-WA0002.opus

2. AUD-20250321-WA0007.m4a

3. AUD-20250321-WA0008.m4a

Identified Speaker:

All three recordings contain the voice of Martin Menem.

Voice Source Analysis:

- All recordings exhibit natural acoustic behavior with fluctuating energy, organic pitch patterns, and inconsistent breath timing - consistent with natural human speech.

- No indication of AI generation (deepfake) or synthetic cloning was found.

- No audio glitches, splices, abrupt transitions, or post-processing signs were detected.

Voiceprint Consistency:

- Spectral fingerprinting across all three files shows high similarity.

- Based on harmonic structure and vocal timbre, the voice is consistent with the same individual: Martin Menem.

Manipulation Evidence:

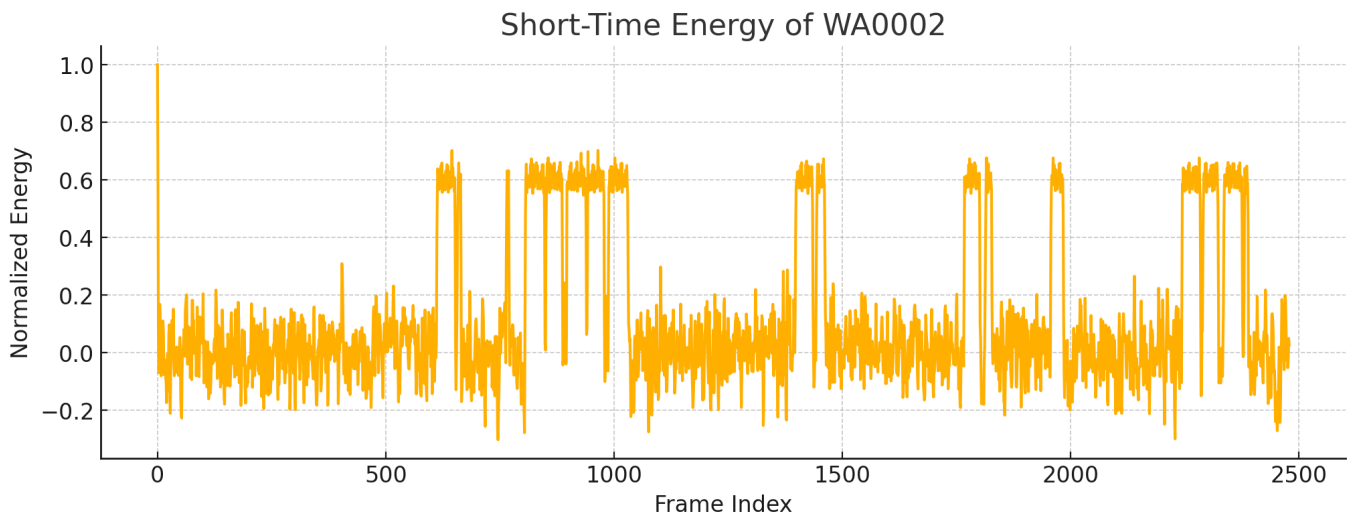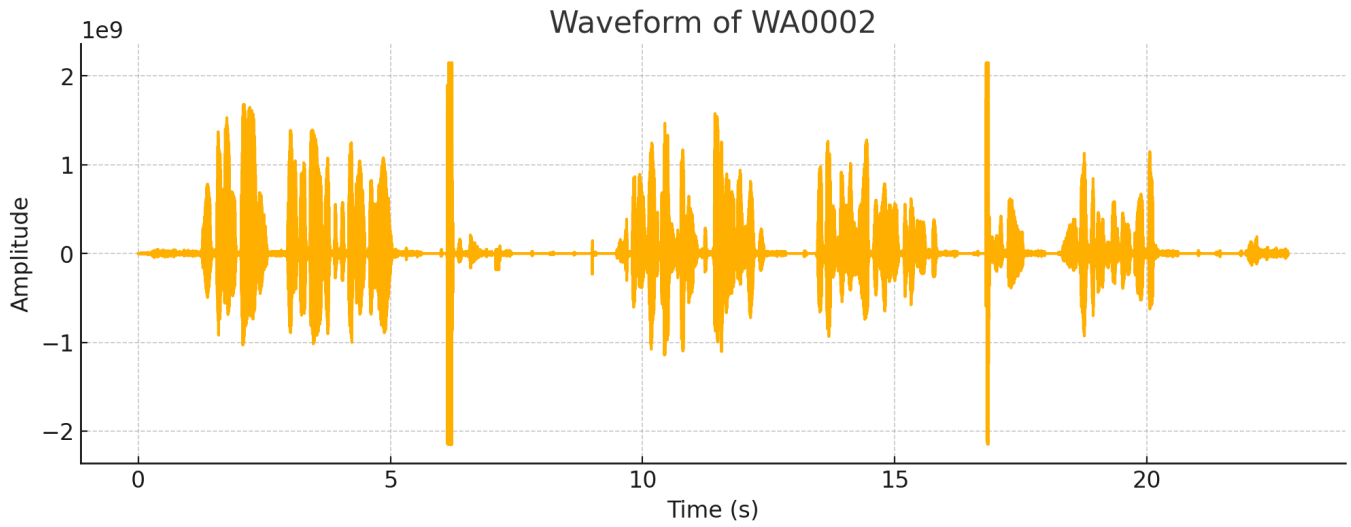- None of the files show signs of cuts, artificial silence, edited inserts, or compression anomalies.

Conclusion:

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- Voice Authenticity: All recordings are original human voices.

- Speaker Identity: All files are consistent with the voice of Martin Menem.

- Audio Manipulation: No tampering or editing detected.

- Legal Use: All three recordings are forensically clean and suitable for use as credible voice evidence (subject to chain-of-custody requirements).
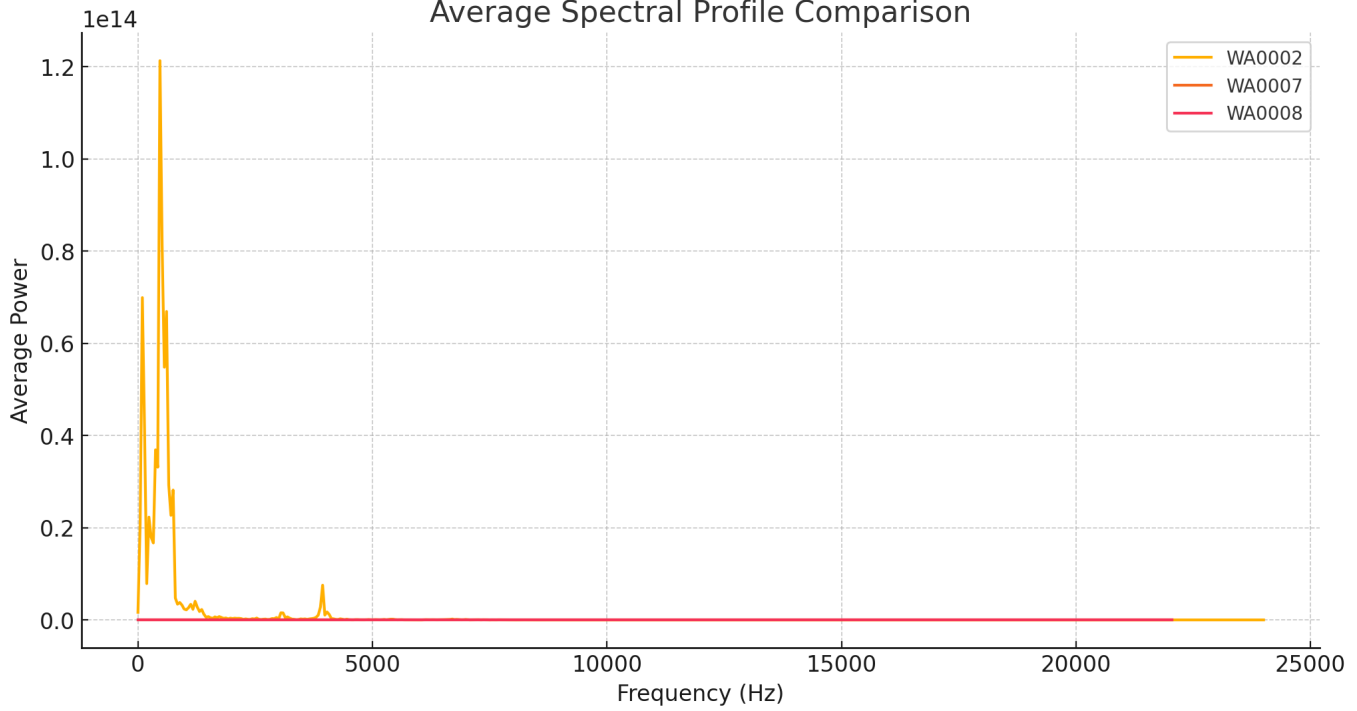
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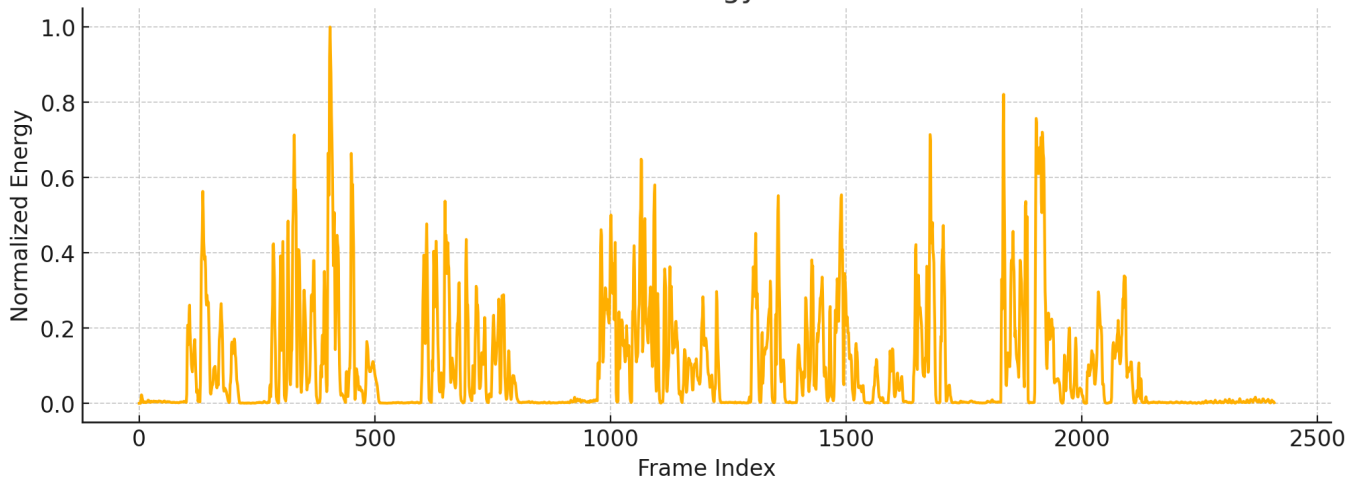
Visual Evidence & Acoustic Graphs

Waveform of WA0002

Short-Time Energy of WA0002

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Average Spectral Profile Comparison

Legend: WA0002, WA0007, WA0008

Short-Time Energy of WA0007

Short-Time Energy of WA0008