

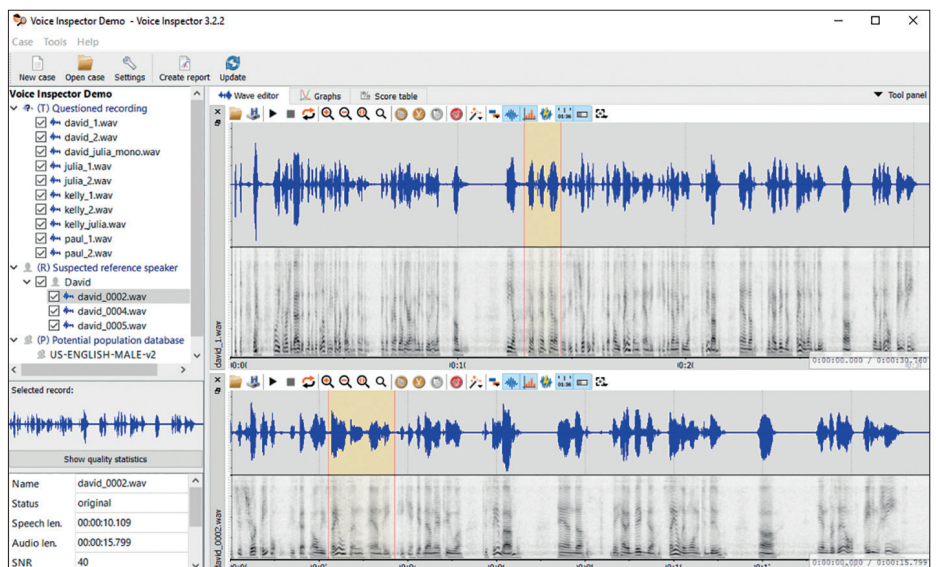


Phonexia Voice Inspector

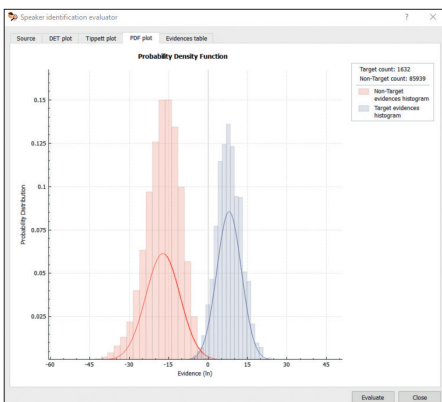
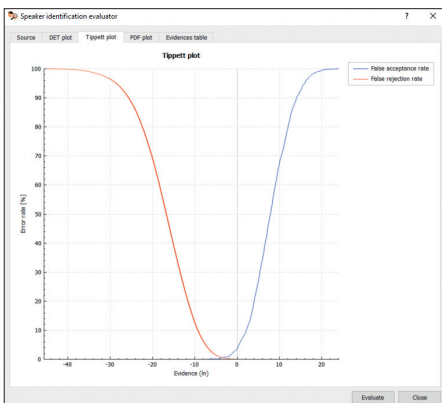
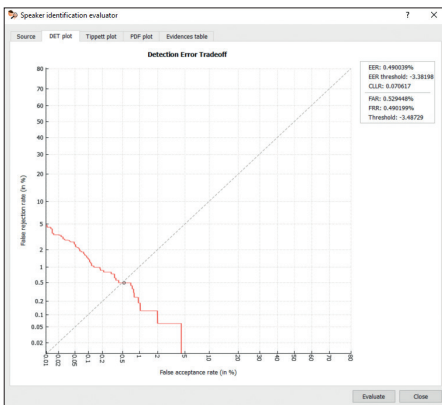
Phonexia Voice Inspector (VIN) provides police forces and forensic experts with a highly accurate speaker identification tool that supports criminal investigations. It uses the latest voice biometry algorithms to recognize a speaker automatically.

Selected Features

- ❖ **1:1 identification** and **1:n identification**
- ❖ **Automatic speaker identification** tool to strengthen the results of standard phonetic-based approaches
- ❖ **Phoneme recognizer** for the searching and visualization of the same phoneme sequences across audio files
- ❖ **Evaluation tool** for the measurement of accuracy in users' data sets
- ❖ **Waveform editor** with tools such as a spectrum panel, voice activity detection, and more
- ❖ **Simple management** of investigation cases



Automatic Forensic Analysis



Technology

- ❖ **Phonexia Voice Inspector** is independent of language, accent, text, and channel
- ❖ Uses a **Gaussian Mixture Model (GMM)** with powerful techniques (an iVector based system, etc.) to generate small but highly representative voiceprints
- ❖ Applies state-of-the-art **channel compensation techniques**, verified by NIST evaluation
- ❖ **Compatible** with the widest range of audio sources possible (applies channel compensation techniques): GSM/CDMA, 3G, VoIP, landlines, etc.

Input

- ❖ **Input format for processing:**
WAV or RAW (8 or 16 bit linear coding), A-law or Mu-law, PCM, 8 kHz+ sampling
- ❖ **Minimum speech signal for enrollment:**
recommended 45+ seconds
- ❖ **Minimum speech signal for identification:**
recommended 10+ seconds

Output

- ❖ **Scoring** to likelihood ratio (LR), log-likelihood ratio (LLR), and verbal presentation of results
- ❖ **Graphic presentation** of likelihood ratio (LR)
- ❖ **Detailed report output** (expert opinion template automatically generated) for presentation of results (to court or an investigation team)