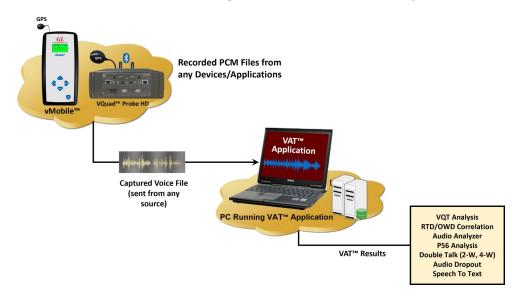
Voice Analysis Tool (VAT™)



Overview

The GL VAT^{IM} application analyzes audio content in any Narrowband (NB), Wideband (WB), and Super Wideband (SWB) PCM audio files. In addition the VAT^{IM} supports a-Law and μ -Law audio formats. VAT^{IM} can run in manual mode or automated mode while generating a variety of audio metrics from a single PCM file including Frequency Bandwidth, Speech Activity, Active Speech and Noise Level, RMS Power, Audio Dropout, Delay measurements, and Voice Quality (POLQA or PESQ) when coupled with the GL Voice Quality Testing (VQT) software.

The VAT™ application offers a wide range of audio metrics which can be performed simultaneously on each individual voice file. Tests include as Round Trip and One Way Delay measurement, Audio Dropout analysis, P56 analysis (providing level and activity measurements), Double-Talk measurements, and Voice Quality Analysis (requires coupling with the GL VQT solution). Additionally GL VAT™ supports Speech to Text analysis with pass/fail when coupled with the GL Speech to Text Analysis solution.

GL's VAT™ performs fully automated operations by detecting audio files within a user-specified directory and analyzing them as they are created. When running in fully automated mode, the VAT™ uses the PCM file name along with a configuration file to determine which tests to run and proper settings for running the tests.

The VAT™ software automatically sends all the results to a centralized database - GL <u>WebViewer™</u>. Accessing these results is achieved through the WebViewer™ (web - based dashboard) providing functionalities such as filtering, querying, and generating custom reports. Furthermore, if the results include GPS coordinates, the WebViewer™ can directly plot the results within Google Maps for enhanced visualization.

For more details, please visit <u>Voice Analysis Tool (VAT™)</u> webpage.

Main Features

- GL VAT™ supports analysis of any Raw PCM 16-bit voice file, including NB, WB, and SWB along with 8-bit PCM a-Law and μ-Law PCM voice files.
- The system is fully automated, with results logged and stored in the GL Central Database. The results can be easily accessed using
 the GL WebViewer™
- Audio files can be generated from any application, including GL VQuad™ and vMobile™
- VAT™ Command Line Interface (CLI) supports remote operation
- Audio analysis includes, Round Trip and One Way Delay, Audio Dropout analysis, Speech and Noise level,, Power Level and Frequency Analysis, Speech Activity, DC Offset, and Double Talk analysis.
- Supports Voice Quality Testing with POLQA or PESQ algorithms when used with GL VQT™ software. Supports Speech to Text analysis when used with GL STT software.
- Multiple analytical tests can be performed simultaneously on each individual voice file



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VAT™ Results

VAT[™] results are displayed on the main window and these results can be viewed using GL's WebViewer[™] database and the results can be saved locally to a log file.

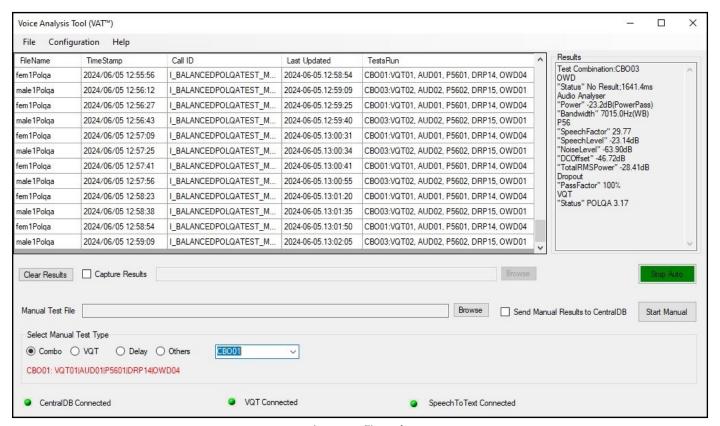


Figure: VAT™ Results

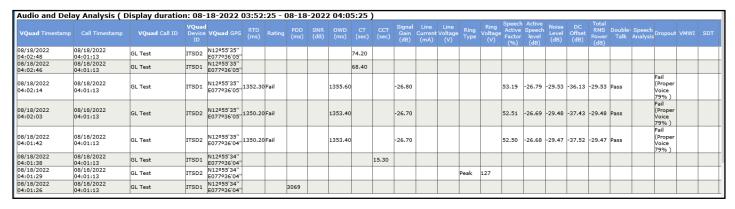


Figure: WebViewer™ Database

Buyer's Guide

Item No	Product Description
<u>VQT008</u>	Voice Analysis Tool
<u>VQT291</u>	vMobile™
<u>VQT002</u>	Voice Quality Testing (PESQ only)
<u>VQT010</u>	VQuad™ Software
<u>VQT006</u>	Voice Quality Testing (POLQA v 2.4)
<u>VQT007</u>	Voice Quality Testing (POLQA v3)
<u>VQT014</u>	VQT POLQA Auto™
VQT014U	Upgrade from VQT POLQA to VQT POLQA Auto™
Item No	Related Hardware

Item No	Related Hardware
<u>VQT251</u>	Dual UTA HD Next generation Dual UTA with FXO Wideband support
<u>VQT252</u>	Dual UTA HD – Bluetooth Option
<u>VQT280</u>	VQuad™ Probe HD (with Dual UTA HD)

Item No	Related Software
<u>VBA032</u>	Near Real-time Voice-band Analyzer
<u>EMU037</u>	Echo Measurement Utility (EMU) Software
<u>VQT040</u>	WebViewer™

Note: PCs which include GL hardware/software require Intel or AMD processors for compliance.

For more details, please visit Voice Analysis Tool webpage.

For complete list of VQT products, please visit <u>Voice Quality Testing Software</u> webpage.