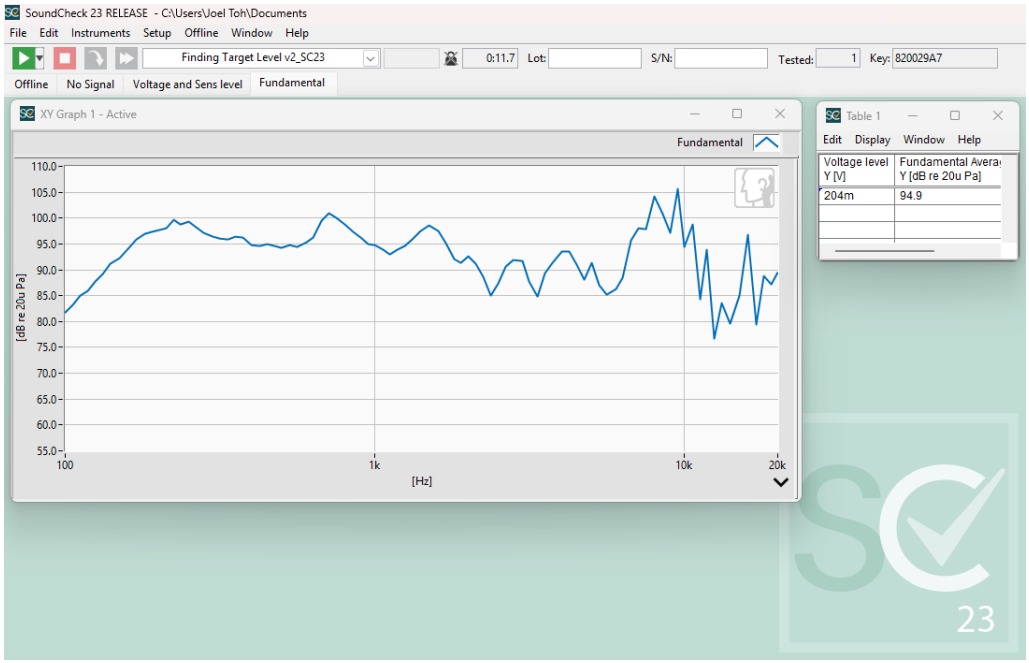
Finding Target Level

Introduction

The purpose of this sequence is to find the test level (volts) to achieve a desired sound pressure level (dB SPL). The user enters the desired sound pressure level. 1 volt is played through the amplifier which is used to then calculate the appropriate voltage level to obtain the desired Sound pressure level. The sequence then runs a stepped sine sweep using the calculated voltage level and outputs the frequency response.



Final Display for the *Finding Target Level* sequence

Hardware Requirements

1. Audio Interface – Listen AudioConnect 2 or similar
2. Power Amp – Listen SCAmp or similar
3. Reference Microphone – Listen SCM-4 or similar

Hardware Setup & Calibration

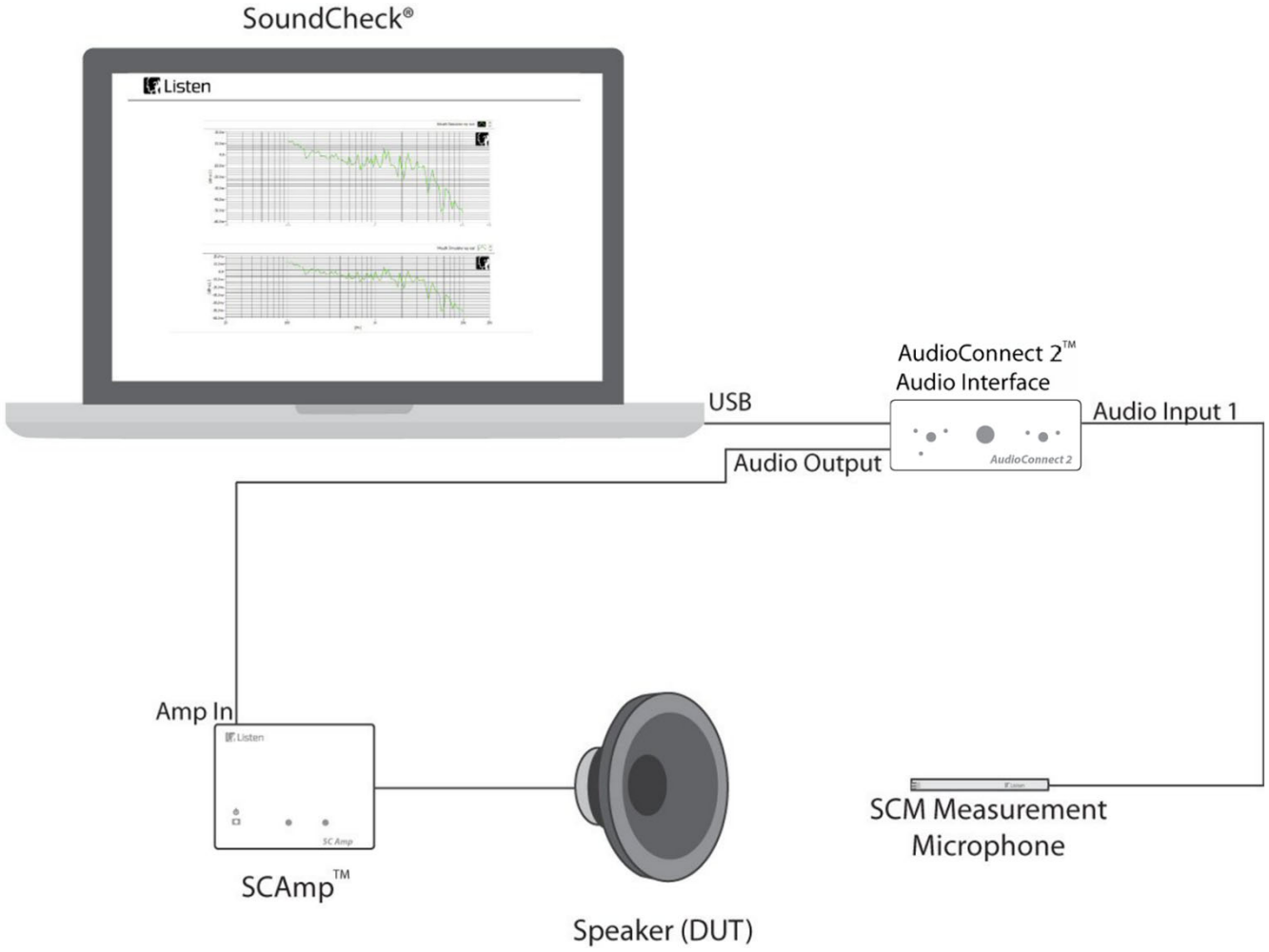
1. Calibrate the amplifier as instructed in the SoundCheck manual.
2. Calibrate the reference microphone as instructed in the SoundCheck manual.
3. Connect output 1 of the audio interface to the input of the amplifier.
4. Connect the amplifier output to the loudspeaker.
5. Position the reference microphone at the desired test distance from the loudspeaker and connect it to the microphone power supply.
6. Connect the output of the mic supply to input 1 of your audio interface.

You are ready to start the sequence.

Software Requirements

SoundCheck 23 or higher

System diagram



Further sequence development

Ways in which you could modify or further develop the sequence include:

- Doubling the tests for a stereo speaker system
- Add autosave steps to store your data and results
- Add/Modify analysis for additional distortion measurements