

Improvised Room Correction in Logic

by Keyboard reader Edward Jay

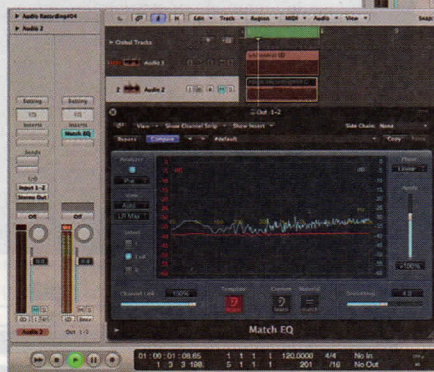
However good your speakers are, the room they're in affects their frequency response—and your mixes. Some companies make room correction products to compensate for this, but using plug-ins native to Apple Logic Pro, you can considerably flatten the frequency response of any speakers you mix through, making your mixes more reliable without additional hardware or third-party plug-ins.



Step 1. Insert Logic's Test Oscillator plug-in on an audio track, and record some white noise directly into that track.



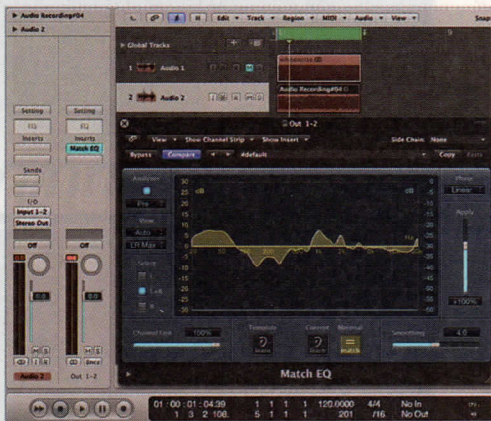
Step 2. Play back that track, and using a mic you know has a flat response, re-record this noise from your speakers onto a second audio track. Hold the mic where your head would be when mixing.



Step 3. Insert the Match EQ plug-in on the master channel. Unmute the original track and mute the second audio track of re-recorded noise. Click "Learn Template" in Match EQ and start playback. The graph is fairly straight, meaning all frequencies are evenly represented in the white noise.



Step 4. Now, mute the original track and unmute the re-recorded track. In Match EQ, click "Learn Current" and start playback. The green line shows the new response, and the white noise sounds different—maybe like a seashell. You're hearing the errors of your speaker/room interaction, revealed by the re-recording.



Step 5. In Match EQ, click "Match." This works out what the EQ must do to make the frequency response of the re-recorded noise equal that of the original noise.

If you play the re-recorded noise through Match EQ, it no longer sounds like a seashell, but like the original Test Oscillator noise it was sampled from. Likewise, if you mix with Match EQ on, your recordings should now translate better to other listening environments.