Guide how to measure with sweeps in REW and use with A1 Nexus script

v 1.1

Setting up AVR

1. Load AVReceiverREWmodeDEQ file into the receiver
   Highly recommended to use AVReceiverREWmodeDEQ file and not AVReceiverREWmode.*

2. Set in AVR the sub to LFE mode (not LFE+Main) and LPF for LFE to 250 (also make sure Low Pass on the back of subwoofer set to the maximum)

3. From remote control, with movie button, set to Multi Channel In

4. ECO mode disable

5. Make sure dialog enhancer is turned off and all other enhancements too, Restorer, Cinema EQ, Loudness Management, Dynamic Compression and so on…

6. Check if all speakers are set to Full range / Large, distances to 0 and levels to 0

7. In AVR set volume to display in db

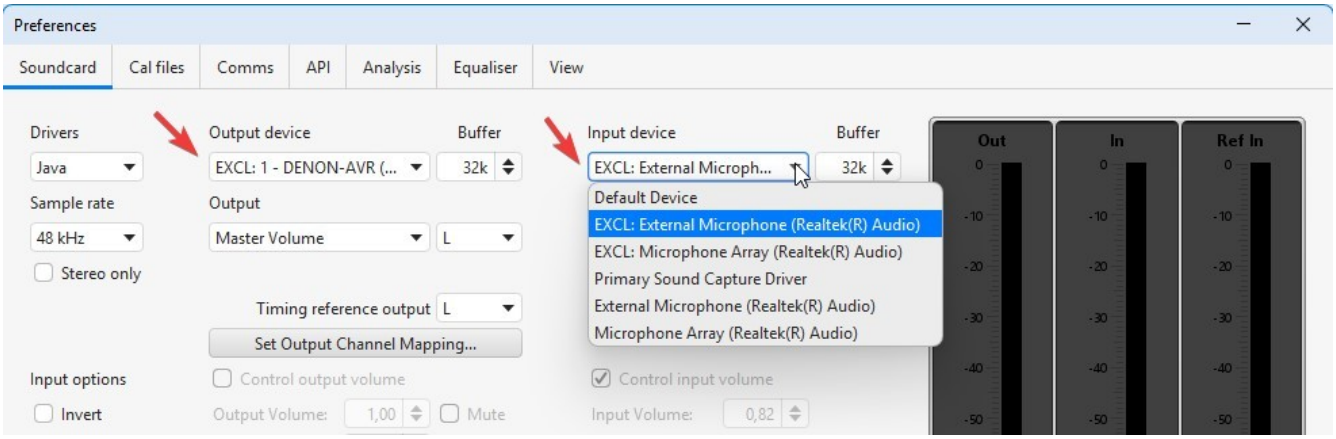
8. Restart AVR by pressing and holding power button on it.

9. Connect your PC or laptop to AVR with HDMI cable and start REW

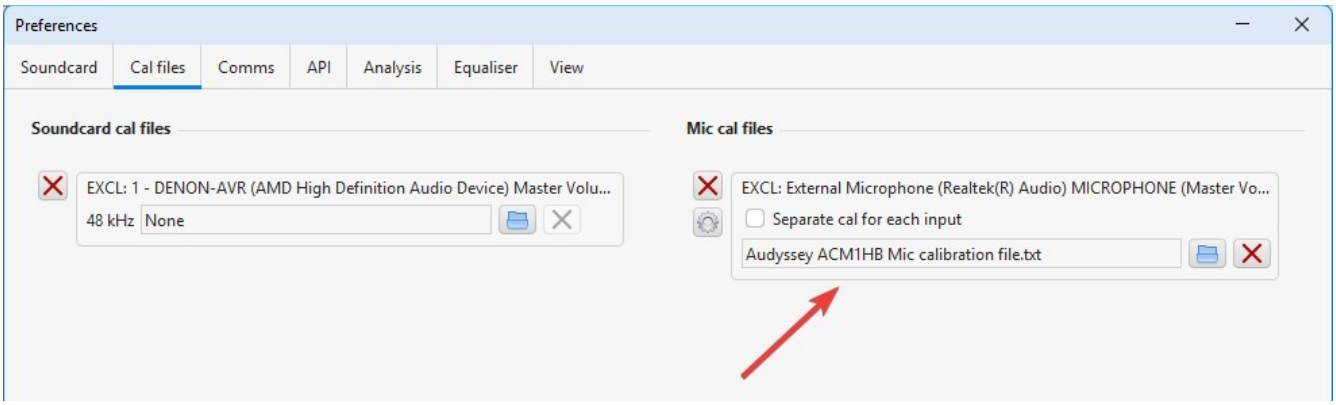
Setting up REW

1. Connect mic to PC / laptop

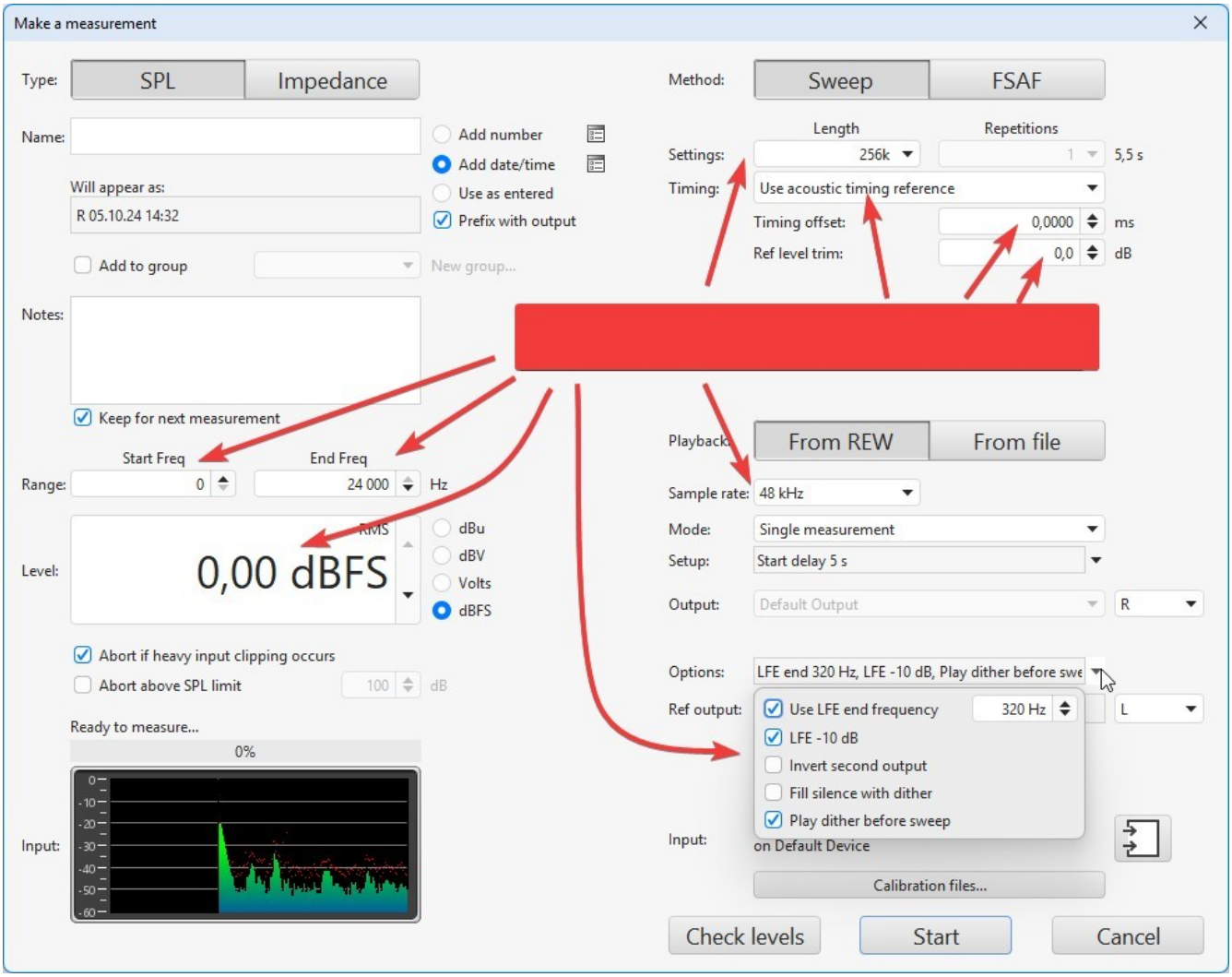
2. In REW settings set Output device to EXCL: your AVR and Input device to EXCL: your mic



3. Load Audyssey ACM1HB batch mic calibration file.txt if you using Audyssey mic



4. Setup measurement window



Range: 0 Hz to 24000 Hz

Level: 0 dB

Length: 256k

Timing: Use acoustic timing reference

Ref Output: to L

Mode: Single Measurement - for testing one speaker.

Setup: Start Delay = 5s or more if you need more time to leave the room or hide

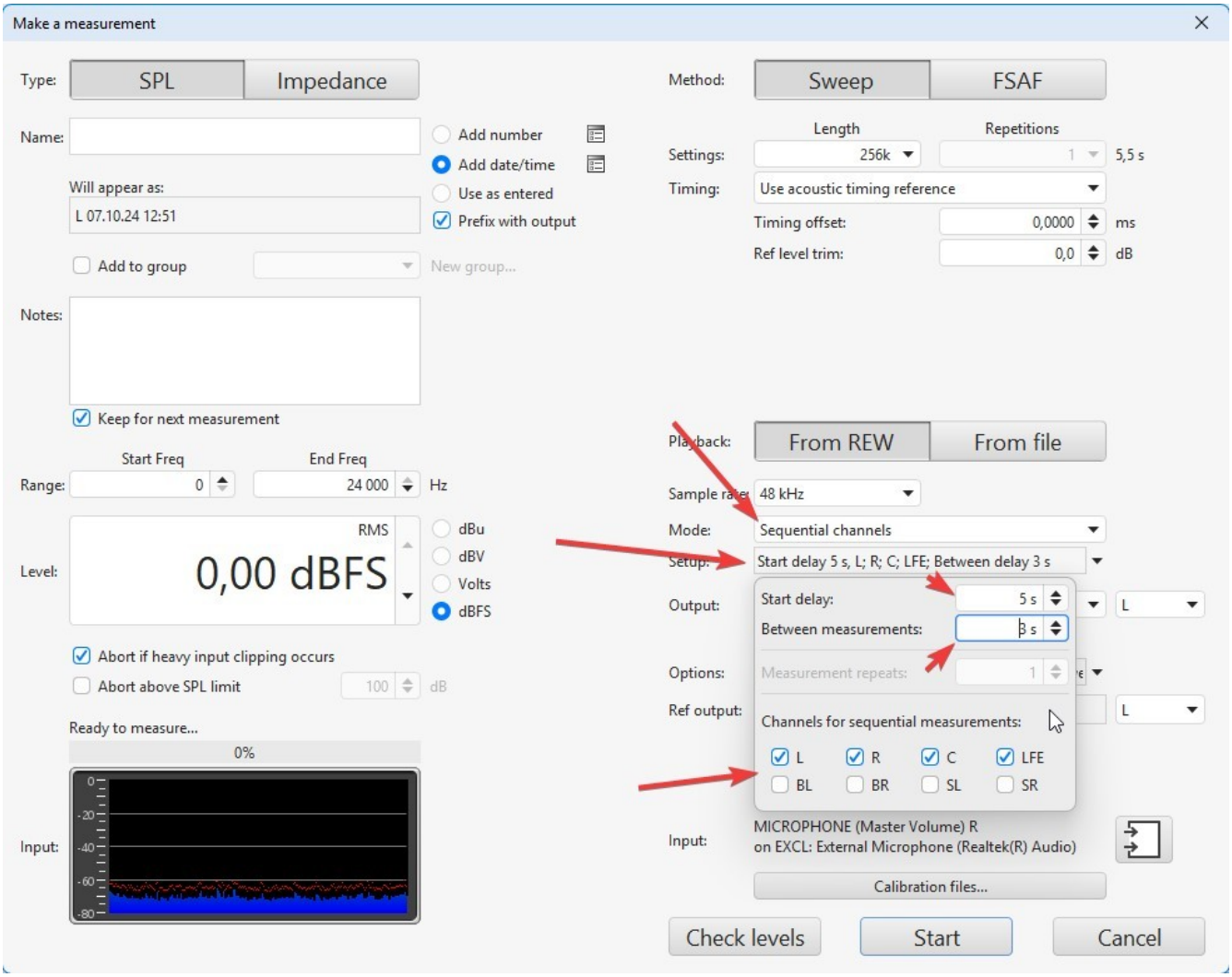
Use LFE end frequency 320 Hz: ON

LFE -10 dB: ON

Play dither before sweep: ON

Do measurement at the maximum possible volume. Test first with one speaker FL at -30db and make your way up to -10db or more, but stop if you hear that its too loud for your room and/or REW starts to show warnings.

When test volume on AVR is determined, you can test all speakers in one click. Set it as on the screenshot, select all your speakers and press Start.



If REW does not display all your speakers, then after measuring all the speakers that are in REW, you need to connect the speakers that were not there, to the speakers outputs on the receiver that are displayed in REW. For example, connect ceiling atmos speakers to the FL and FR output of AVR.

If you have more than one subwoofer, you will need to measure them one by one.

Immediately after measuring it, change their required names in REW

After all measurements are done, save it all in REW, so you don't have to do again. And connect all speakers back as it should.

After running script and loading ady file into AVR, set DEQ ON in the receiver and LPF for LFE to 120 (unless Nexus tells you set it to something else)

* Without DEQ you will get good amount of bass only at one specific volume level, and you will be trying to pick good target curve for that volume level to have nice bass, mostly it will be target curve with very high in bass region. But because nobody listen at reference level and after you find that curve, and gonna changing volume up or down - you will get too much bass, or not enough bass

With DEQ bass will be good at almost any volume level and target curve with 4-6db in bass will do