

This response was measured in my living room (not ideal) with REW and a Beringer UMM-600 (I think) that I had borrowed from a friend. The speaker was placed in the center of the room, and twisted to be at a 45 degree angle from the walls. The microphone was placed 1 meter away on axis, centered with the coaxial mid & tweet.

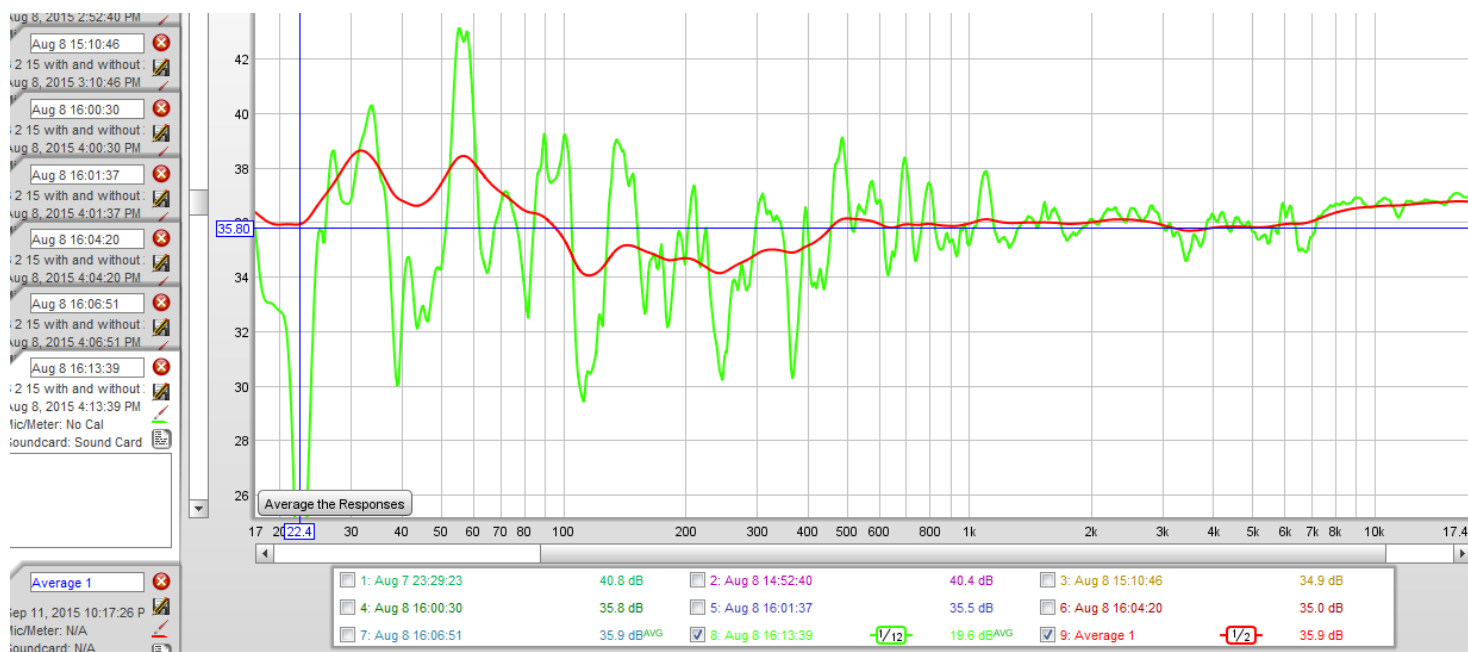
I can't tell how much of this bass response is from the room, but it sure as heck sounds good to me. Deep low bass that is not overpowering the upper range of the music, yet it has a presence that you can feel and know it's playing the notes that it is supposed to. It sounds solid.

These measurements were taken with some minor PEQ filtering applied with miniDSP. There are three levels of filtering. One is a narrow band filter on each individual driver to try to flatten peaks. Then the filters which create the high and low pass for the crossover, and finally a broad filter on the whole speaker to try to flatten the response.

The green line is with 12th Octave Smoothing, and IMO is a more honest representation of a speakers response than say a graph with half octave smoothing, which will appear to be very flat and looks great on a Sales Pamphlet. Also note that this graph is zoomed in pretty tight. The difference between the horizontal lines is only 2 dB, unlike some Sales Pamphlet graphs that may have 10 dB between the lines.

For reference, I also show the red line, which is an averaged response of several measurements, and then ½ octave smoothing applied. This will give you a better comparison against graphs you may find on sales literature of other speakers.

Don't pay too much attention to the measurements being only 36dB. I could have turned the volume up higher to measure, but there was no need. I went by the REW indicators for setting levels. This stuff gets a little over my head, but basically I only need to be a certain amount over the room noise to get a clean measurement, and I wanted to make



sure I didn't clip the cheapo microphone pre-amp that I was using.

I'm not sure where to measure "F3" from. On the red line, 3 decibels lower than the highest hump in the graph is around 22.5 Hz. On the Green line, 3 decibels lower is around 52 Hz. This brings me back to the "Who cares, it sounds damn good".