
Posted by [ppkstat](#) on Sun, 08 May 2022 02:02:47 GMT

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Because there were some very slight imperfections from the paintjob I decided to do some measurements in order to see everything is ok with the waveguides. TL;DR everything is fine, or at least what worried me at first had nothing to do with the paintjob.

This is the measurement setup. It's a somewhat nearfield measurement to minimize room reflections as much as possible.

This is the response. I tried both drivers and both waveguides but all the results are very similar to this.

What initially worried me was that 2-headed spike in the 14k-18k region. Mainly due to the fact that in Wayne's measurements it wasn't there (the rest of it looks almost identical). It also appears to be flatter in the 800Hz-2kHz region but I guess that's good. This 2-headed spike appears to be a property of the drivers - it's there even without a waveguide attached and ironically something very similar can be seen in the response of the DE250 provided by the manufacturer.

This is the tweeter going through the crossover.

And these are both responses plotted together and smoothed (var) in order to be more easily compared.

By the way these babies HISS 80 I was shocked to find that the DE250 when connected directly to my Hypex NC400 you can clearly hear them hissing and we're talking about an amplifier with a measured 105db SINAD 80 It goes completely silent when it goes through the crossover. Just for fun I also tried it with my Monrio MC205 dual mono and it was a hissing festival. Coming from

I am finishing up the plans, I will post an update here. I expect the cabinet construction to begin in the upcoming weeks.

File Attachments

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