Subject: Measuring Vas?
Posted by uW on Sat, 15 Oct 2005 17:48:00 GMT
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I'd like to build a pair of Pi-aligned cabinets for my newly-acquired pair of Goodmans Axiom 201 12" extended-range drivers.As a first step (and also just as a learning exercise), I'd like to measure the T-S parameters of my particular pair of 201's.I have all of the information I need to get started except:How should I calculate a reasonable volume for the closed box I will use to measure Vas?The Readme.txt file contained in PiAlign.zip says, "The test box should be 0.5 - 2.0 of the expected Vad, which can beapproximated using the ratio method described above."I may be misreading the Readme.txt document somehow-- because I can't spot the ratio method for approximating the expected Vad. Can you help me out?Thanks very much,-uW

Subject: Re: Measuring Vas?
Posted by Wayne Parham on Sat, 15 Oct 2005 18:51:02 GMT
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See the post called "T/S Measurements".

Subject: Re: Measuring Vas?
Posted by Paul C. on Sat, 15 Oct 2005 23:26:04 GMT
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I have a number of papers by Pat Snyder of Speakelab (from some years back) in which he talks about this.He showed that even though individual samples will vary somewhat due to the manufacturing process, this causes some of the T/S parameters to vary in such a way that in the end, the effects cancel out. In a given box, ported the same way, the woofers of a given model will perform very similarly even though Vas, Fs, etc may vary slightly.He stated that what really mattered were the ratios of various T/S parameters. And even though T/S numbers varied from sample to sample, they varied in such a way that these ratios were the same.

Subject: What volume box for sealed-box test?
Posted by uW on Sat, 15 Oct 2005 23:41:38 GMT
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Thanks, Wayne. I have just finished a careful read-through of that whole thread. I'm sure I'm being obtuse, but: I still don't know how to choose the volume of the sealed box to use for the sealed-box-method Vas test. Is the box volume fairly arbitrary, as long as it is precisely

known?Thanks for your patience,-uW

Subject: Re: What volume box for sealed-box test?
Posted by Wayne Parham on Sat, 15 Oct 2005 23:43:21 GMT
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The box size is arbitrary. Make a box of convenient size and it will work just fine.

Subject: Thanks! <nt>
Posted by uW on Sun, 16 Oct 2005 13:22:40 GMT
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