
Subject: Re: directivity

Posted by [Earl Geddes](#) on Sat, 13 Aug 2005 01:09:18 GMT

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I did not read the Toole paper as carefully as you seem to, but I would have to say that there is not enough data to make the conclusions that you say Floyd made. In fact, my experience, and some unpublished data, imply the opposite. But either way your original comments implied that Toole claimed a "preference" for wider directivity, but now it seems that it is only a difference in subjective effect. Perhaps I should reread the paper in more detail. I do appreciate the reference to the horn mouth paper. This is much like what I use in my text. I found some slightly different results and Johansen admits that it is known that the wavefronts do not adhere to the walls in many horns, but his analysis assumes that they do. This is a weak point in the paper. In my text I do not assume this adherence since I do the calculations using higher order modes which accounts for this effect. I would thus claim a slightly higher accuracy to my analysis than Johansen's. But I really am indebted to you for a coincidence that happened after I reviewed the Johansen paper. The next article in that journal is about using woven cloth as a HT screen, which I had also recently concluded to be superior to a commercial screen for all the same reasons as in the paper. My new screen cost me \$10 (bed sheet) and replaced an inferior \$1200 perforated vinyl screen! Can you beat that!
