Subject: PiAlign RS1354?

Posted by craigha@attbi.com on Wed, 02 Jan 2002 13:04:30 GMT

View Forum Message <> Reply to Message

First off thanks to Wayne and the others that havebeen answering my questions. I would like to builda Theater 4 Pi when I can afford the parts. In themeantime I have a pair of Radio Shack 1354 driverson the shelf and some time to build a speaker. Iwant to try a PiAlign'ed cabinet with a full range 1354and a Motorola 1038 piezo for HF fill.I'm using these parameters for the 1354:Fs 51, Vas .5 ft3, Qts .46, Qms .537, Qes 3.46,Pd 40W, Re 7, Diam. 4.75, Xmax 0.1 (??)From PiAlign I got: Vol. .23ft3, Fr 46From Box Plot: Alpha 2.2, H 0.9The Box Plot alignment was: vol. .8ft3, Fr 44 HzAlpha .62, H .97The Box Plot alignment Amplitude plot has -3dB at 40Hzand a flat 0dB line from 60Hz up.The Pi Alignment Amplitute plot has -3dB at 70 Hzand a hump from 90-250Hz.Some questions:1) Am I entering things correctly?Assuming this is correct2) Why the differences in the 2 alignments? How   will the sound compare?3) How are the cylindrical port sizes determined for   each alignment? This has got me confused.Tia, Craig