

MrSpeakers

Tuning Dot Placement Guide

ABOUT THIS GUIDE

This tuning guide is intended to help you optimize your Alpha Prime, Alpha Dog and Mad Dog Pro treble response.

The enclosed measurements were made on one of our master Alpha Prime headphones, but the relative changes are similar across all our headphones.

MrSpeakers' tuning dots can be used in combinations of 1, 2, 3 and even 4 dots on a driver to create different tunings and many combinations are possible.

As you will see, patterns that are symmetric measure the same, but they may not sound the same to you due to how your ear interacts with the headphone's "air cavity." As such, these comments are general and your experience and preference may vary.

In this guide we do not discuss all possible tunings; only those we feel are of the greatest general interest.

Important note: Headphones do not measure like loudspeakers, and "flat" response does not create a "flat" curve on the test fixture. Our test fixtures are extremely accurate and the results are repeatable.

1) The Default Configuration shows our standard tuning (orange for this and all subsequent graphs) compared to no dots at all (blue).

EFFECT: Default tuning creates a small increase in the 3.5-5KHz regions, followed by a decrease in output from 7-14KHz.

Removing the dots adds more mid and upper treble, it also produces a small peak around 8.5KHz which can emphasize sibilance in some recordings. For people preferring a brighter tone, this is a possible tuning. Should it induce sibilance, you may also consider configurations 32-34.

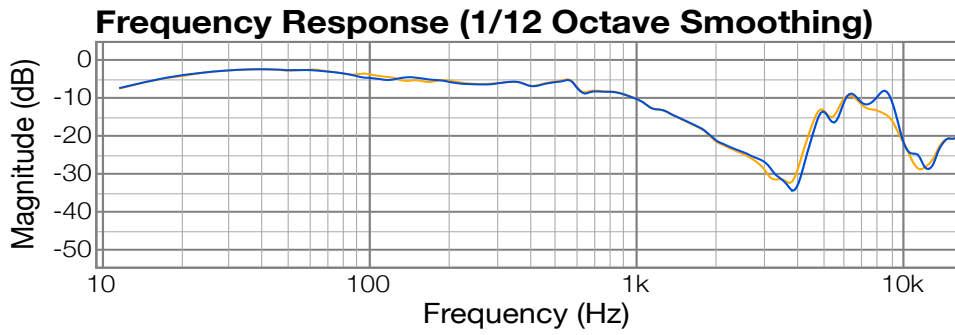
2) Configurations 16-19 are similar and really nice, this was seriously considered as a default.

EFFECT: 1-3dB increases from 7-9KHz, without a peak. 1-2dB decreases in output above 13KHz. This configuration creates slightly brighter cymbals and overtones on strings.

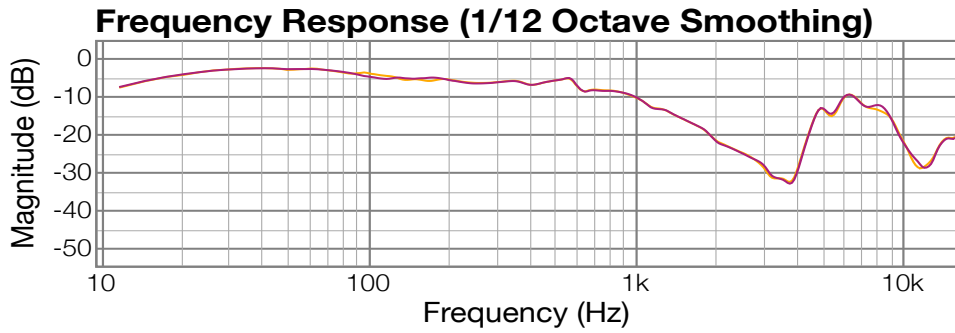
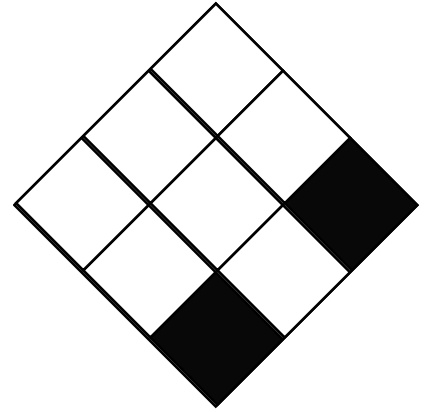
3) Configurations 26-31 creates a slightly darker sound.

EFFECT: This configuration brings the whole top-end down 1-3dB. It is ideal for use with bright electronics or at higher volumes. This may sound excellent on some amps but on warmer tube-amps it will probably lack clarity.

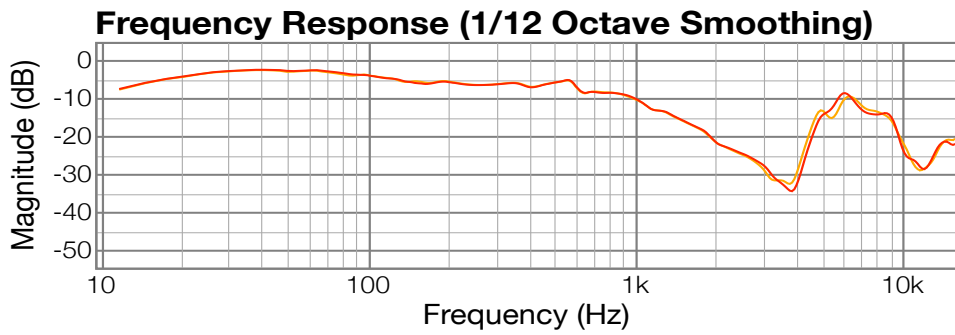
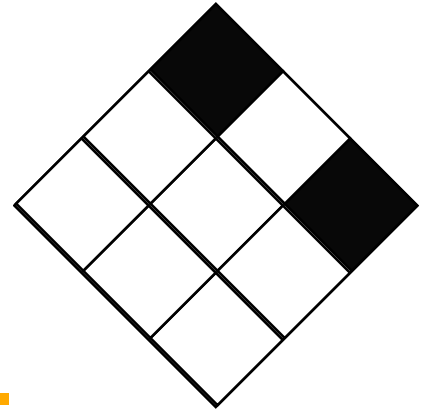
4) Configurations 31-36 provide a mild increase in brightness. EFFECT: These tunings tend to boost the 7-9KHz region about 1-2 dB, without creating a sibilant peak. For slightly brighter highs these are the recommended tunings.



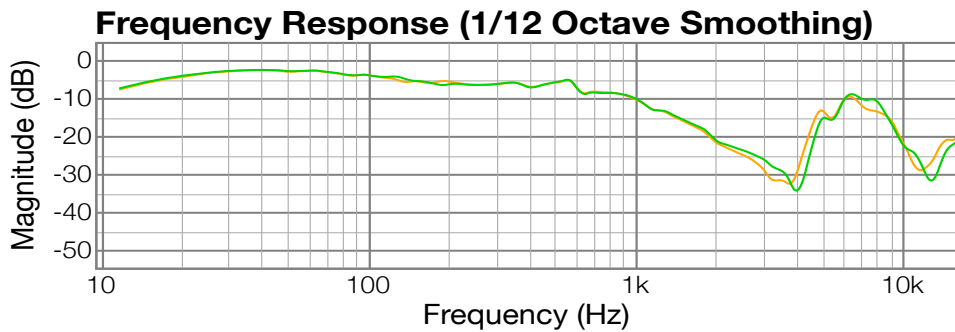
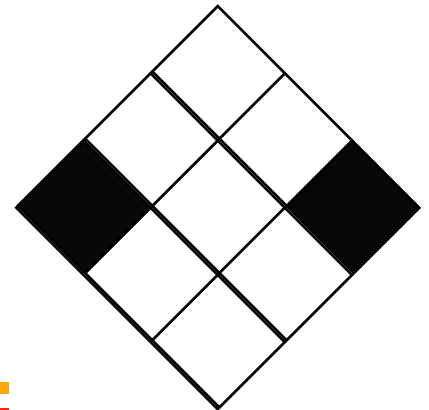
Default Configuration ■
No Tuning Dots ■



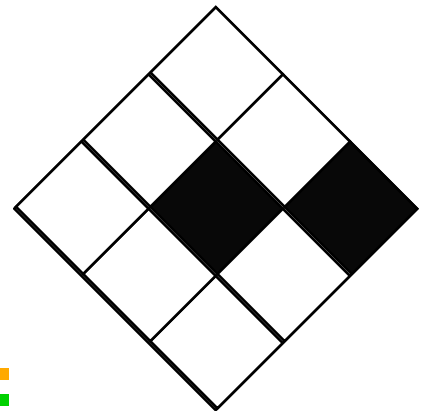
Default Configuration ■
Configuration 2 ■

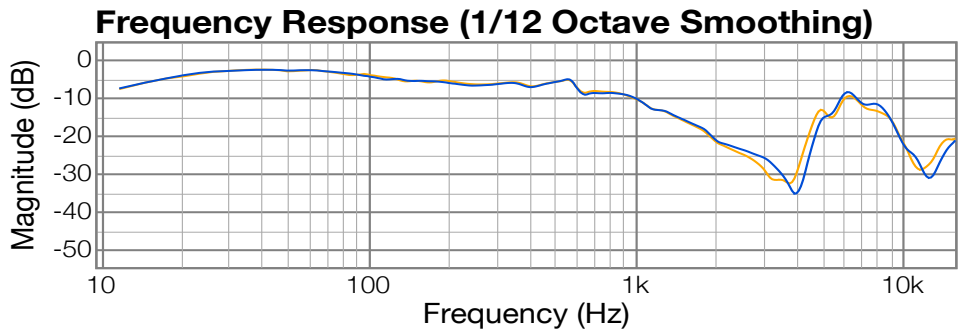


Default Configuration ■
Configuration 3 ■

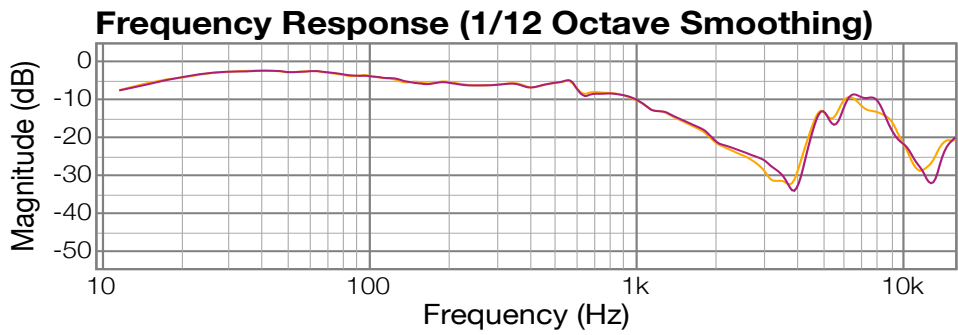
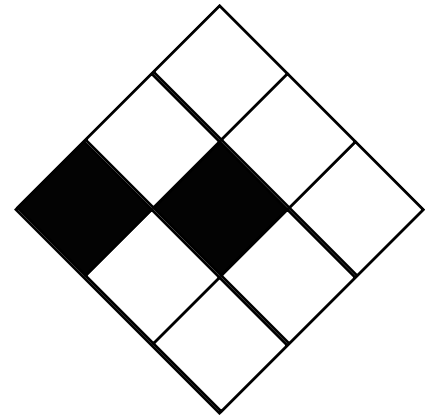


Default Configuration ■
Configuration 4 ■

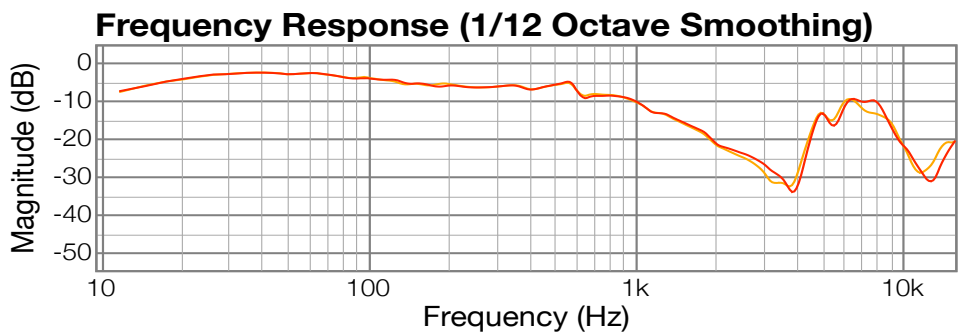
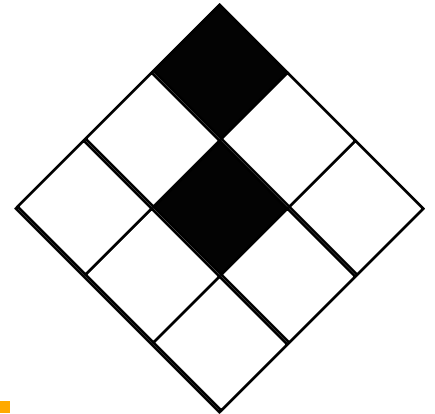




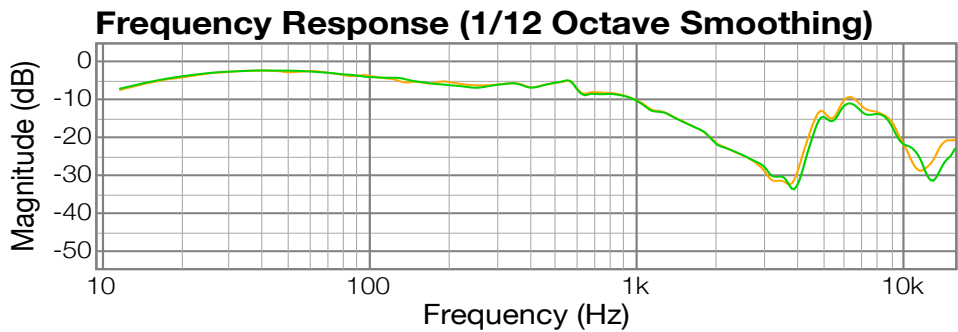
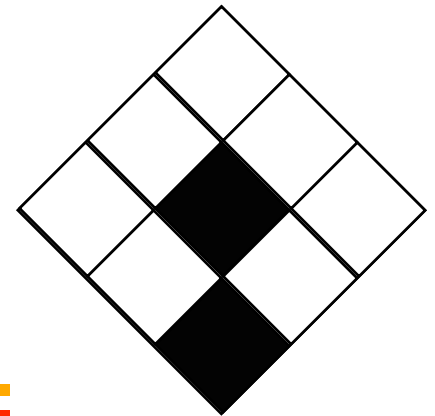
Default Configuration ■
 Configuration 5 ■



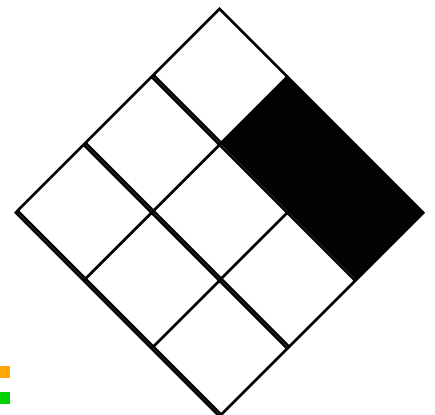
Default Configuration ■
 Configuration 6 ■

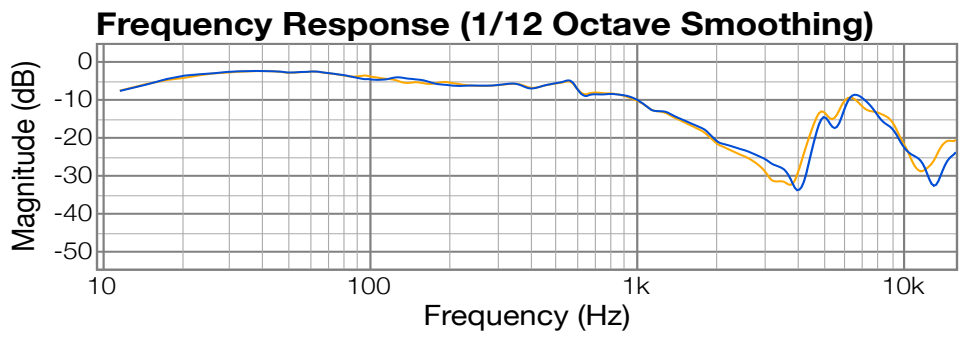


Default Configuration ■
 Configuration 7 ■

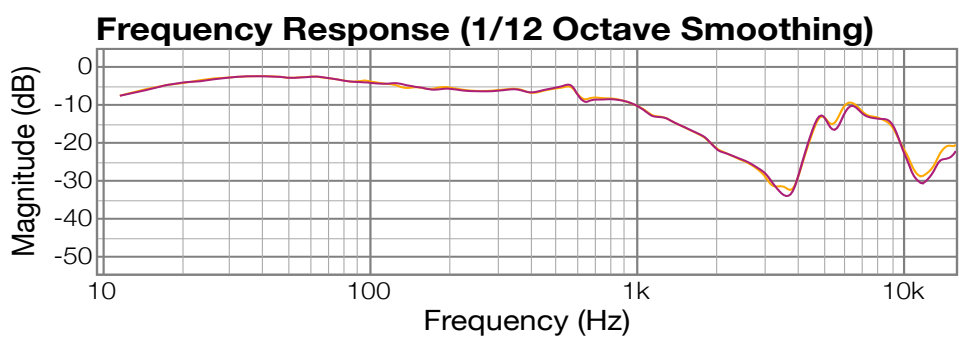
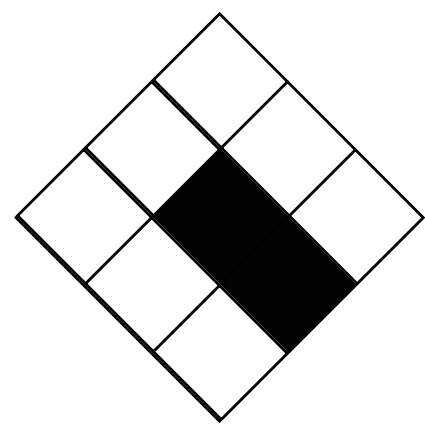


Default Configuration ■
 Configuration 8 ■

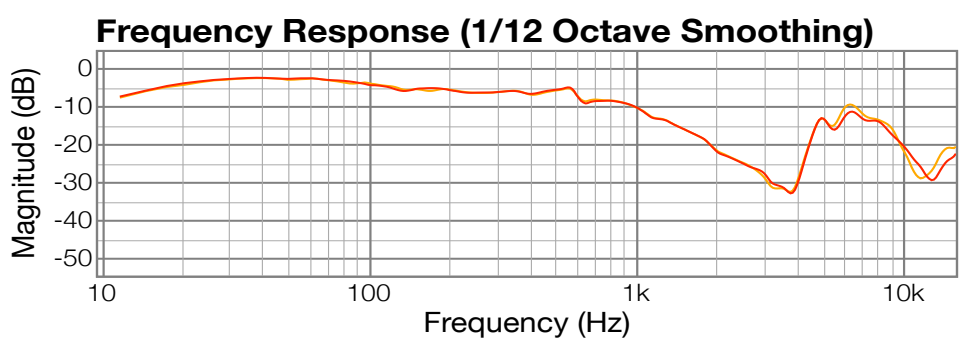
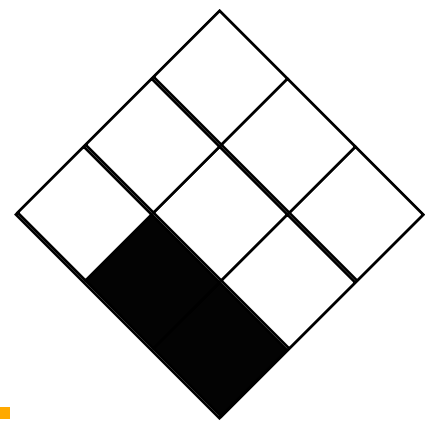




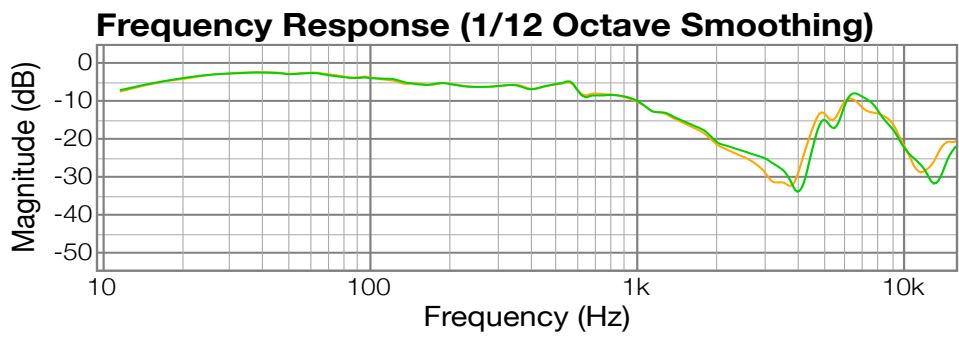
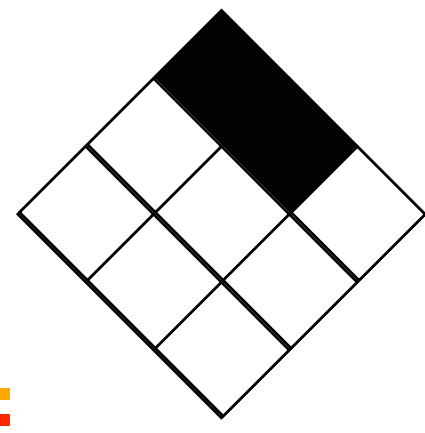
Default Configuration ■
 Configuration 9 ■



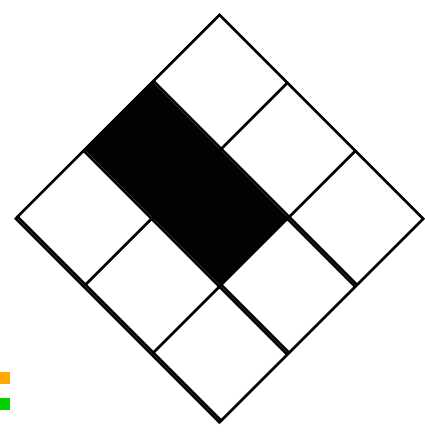
Default Configuration ■
 Configuration 10 ■

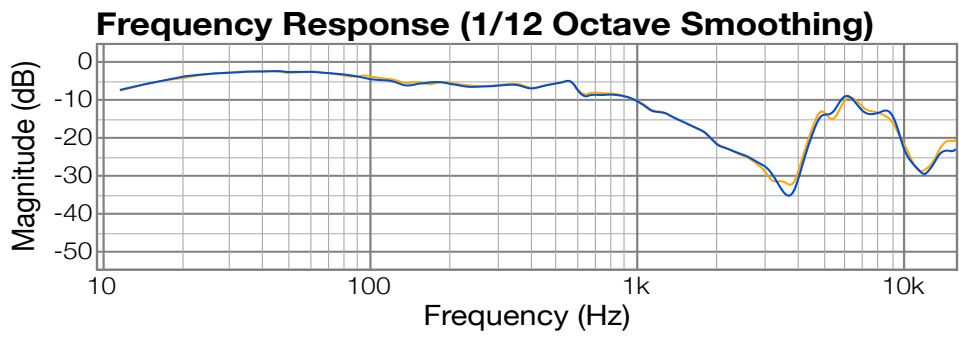


Default Configuration ■
 Configuration 11 ■

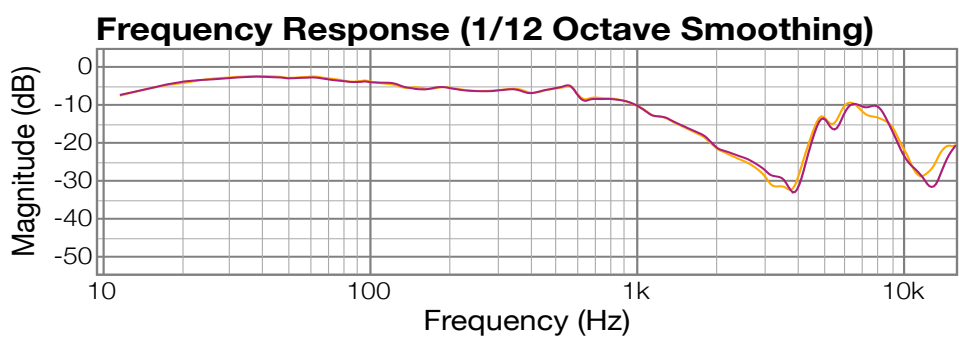
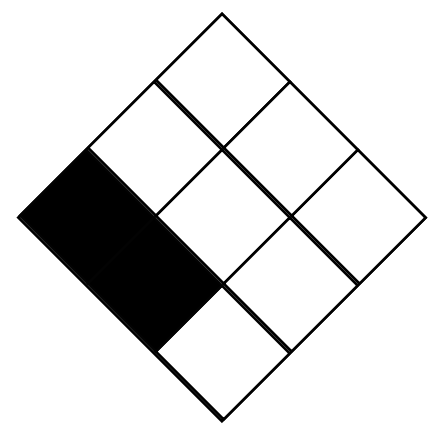


Default Configuration ■
 Configuration 12 ■

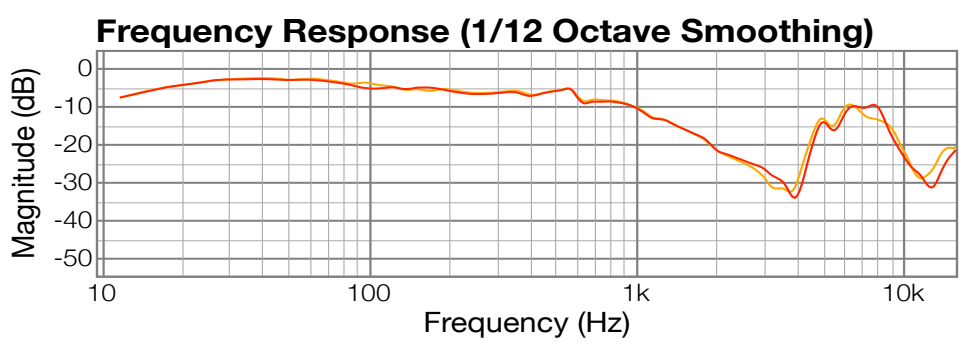
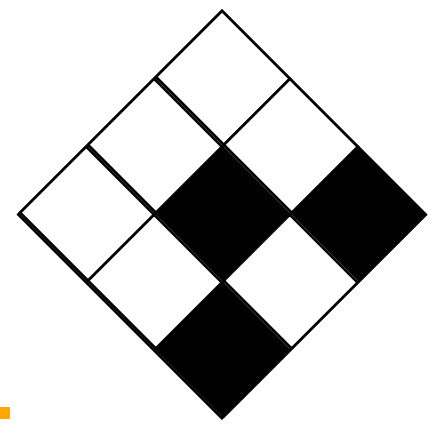




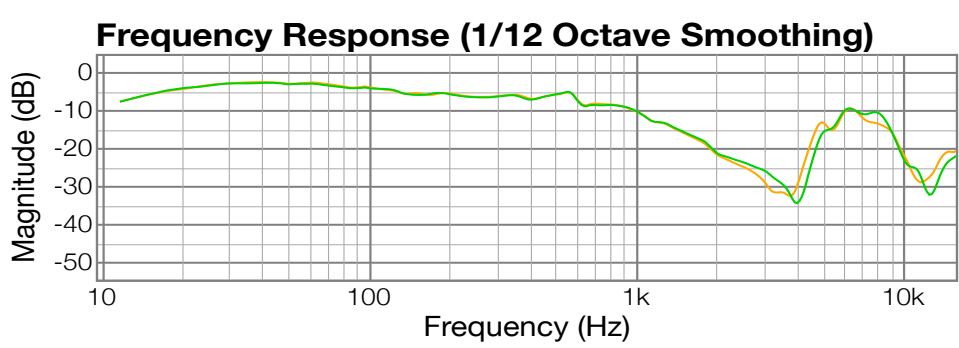
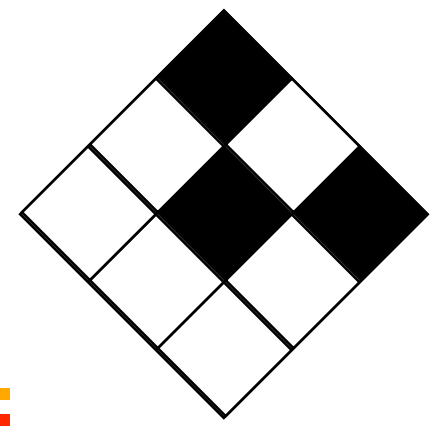
Default Configuration ■
 Configuration 13 ■



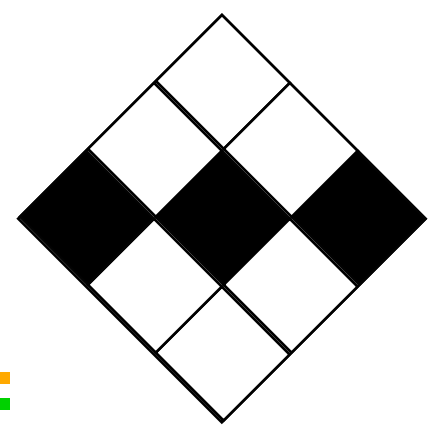
Default Configuration ■
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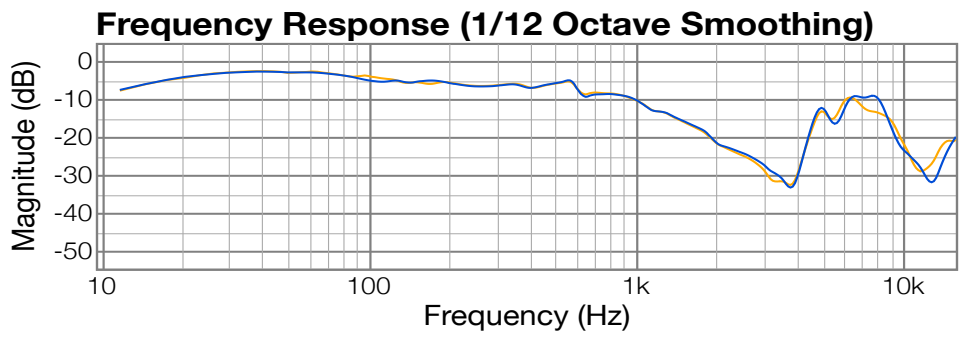


Default Configuration ■
 Configuration 15 ■

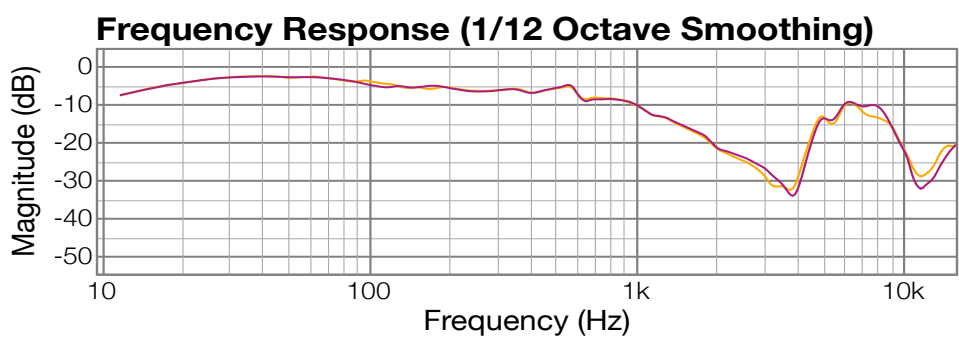
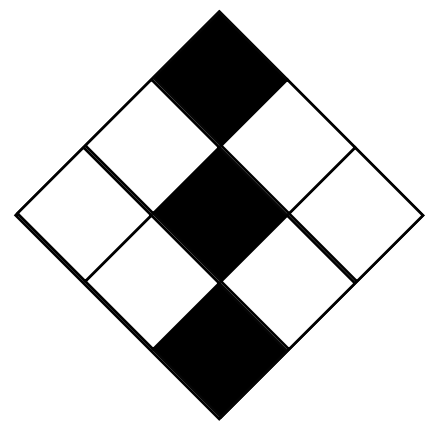


Default Configuration ■
 Configuration 16 ■

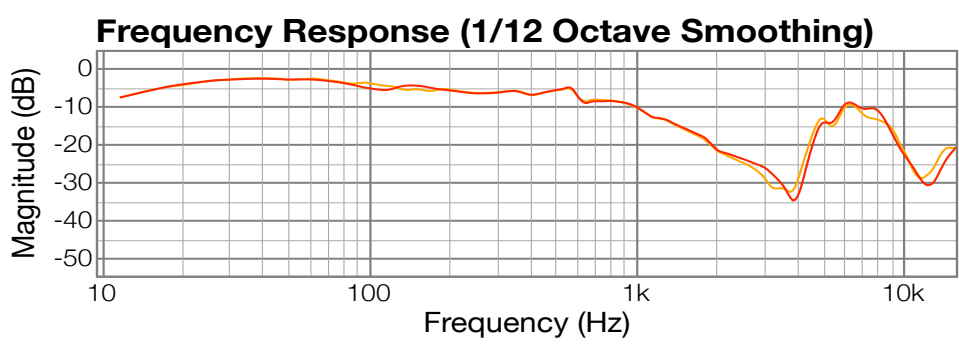
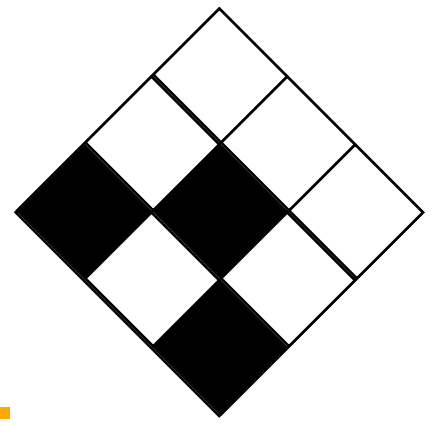




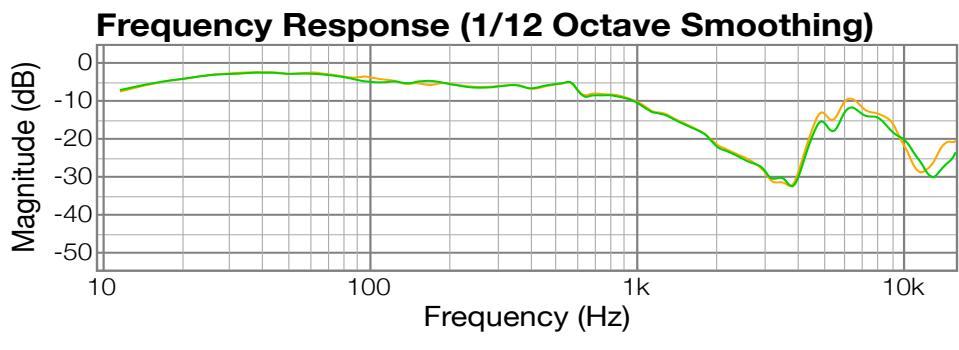
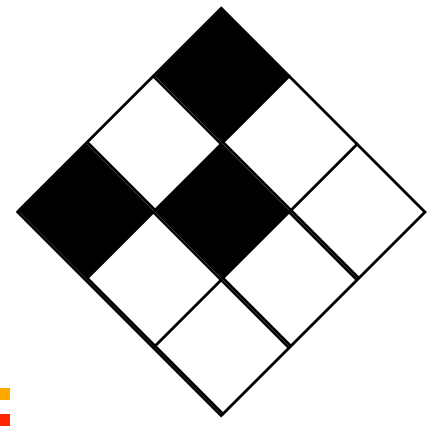
Default Configuration ■
 Configuration 17 ■



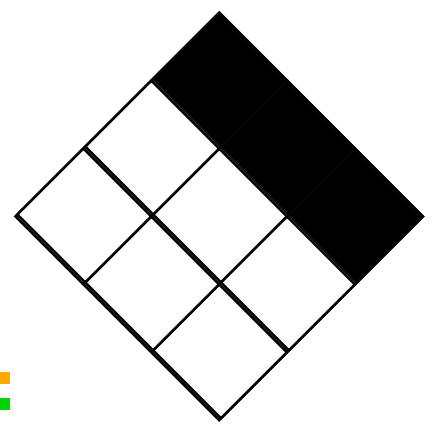
Default Configuration ■
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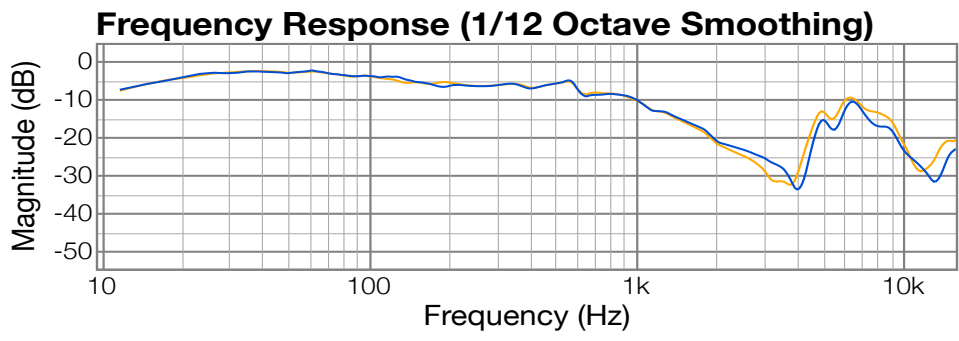


Default Configuration ■
 Configuration 19 ■

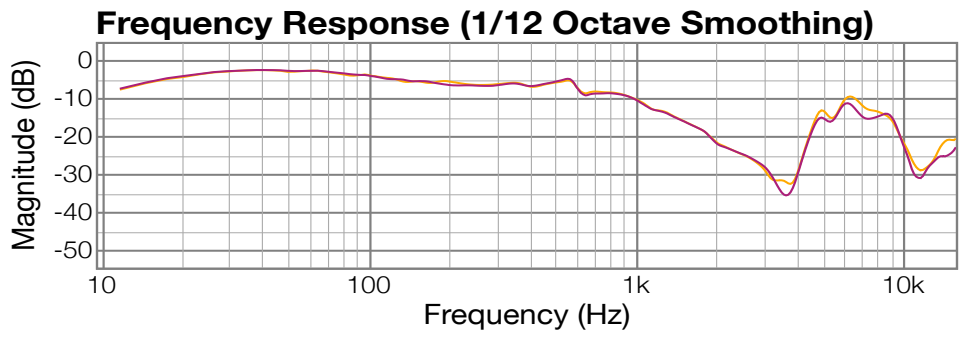
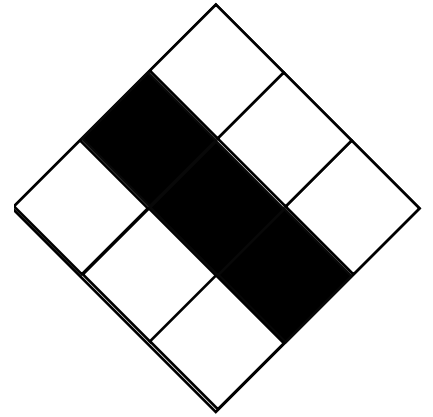


Default Configuration ■
 Configuration 20 ■

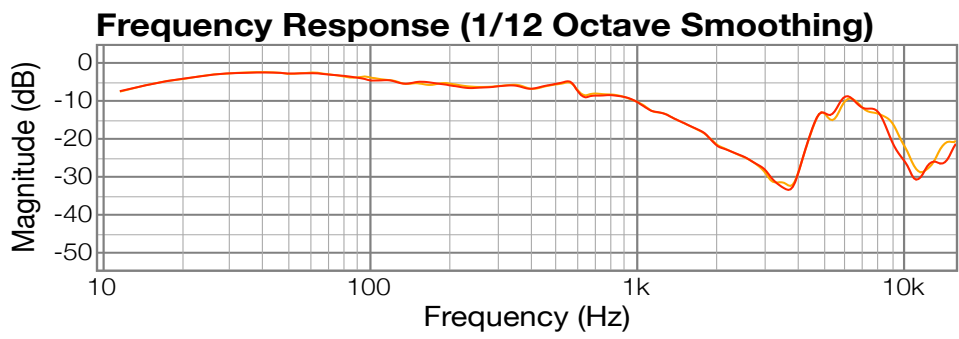
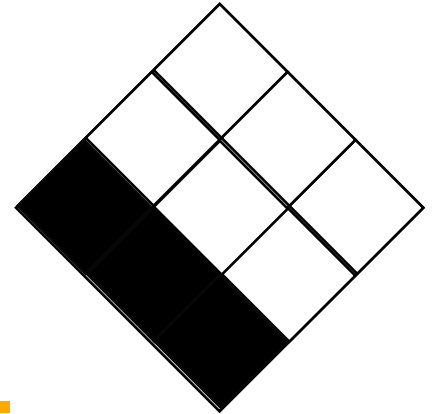




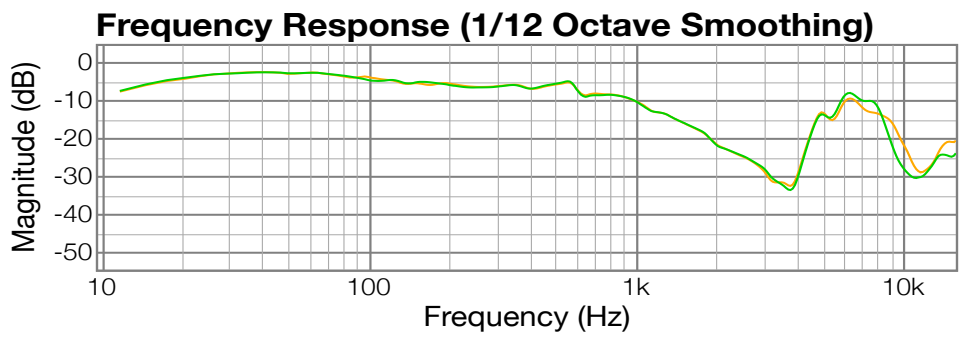
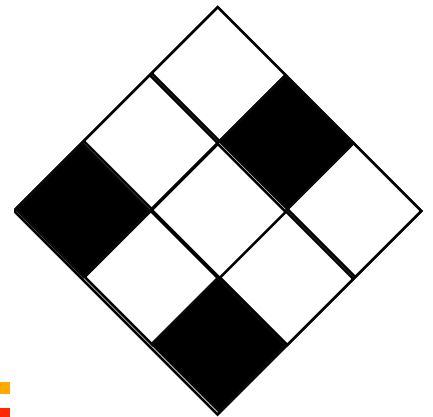
Default Configuration ■
 Configuration 21 ■



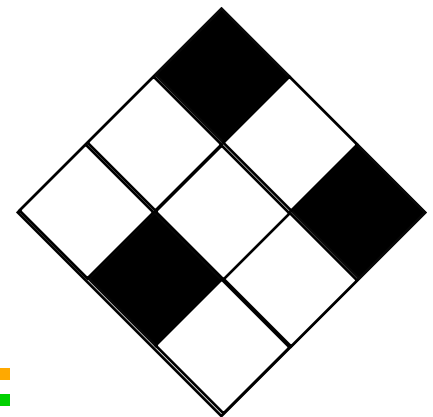
Default Configuration ■
 Configuration 22 ■

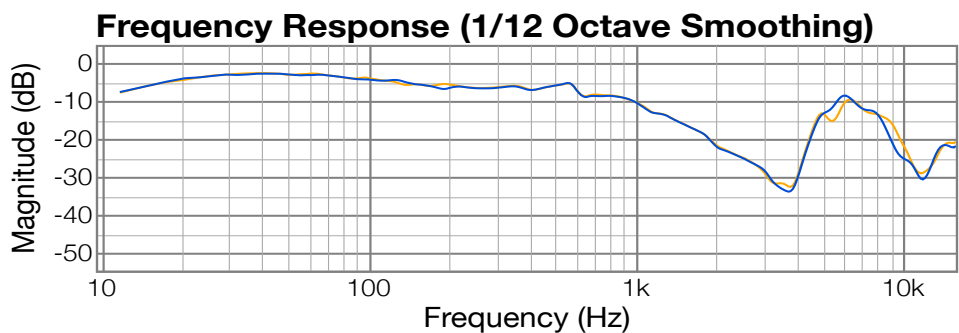


Default Configuration ■
 Configuration 23 ■

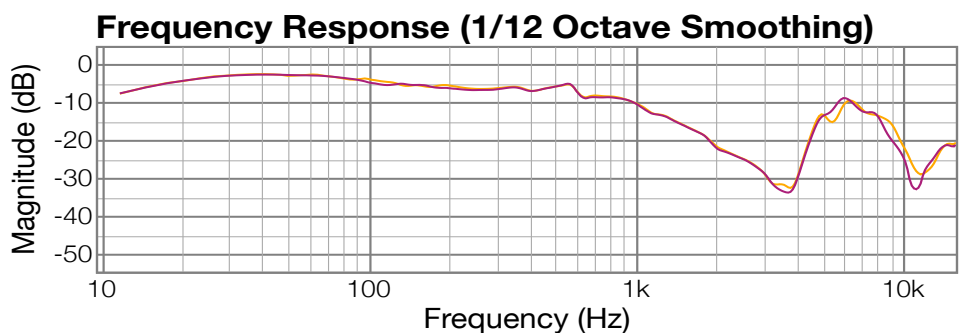
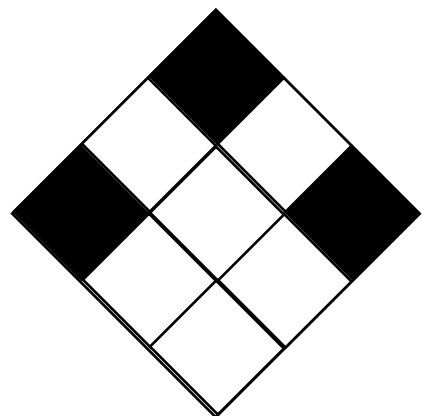


Default Configuration ■
 Configuration 24 ■

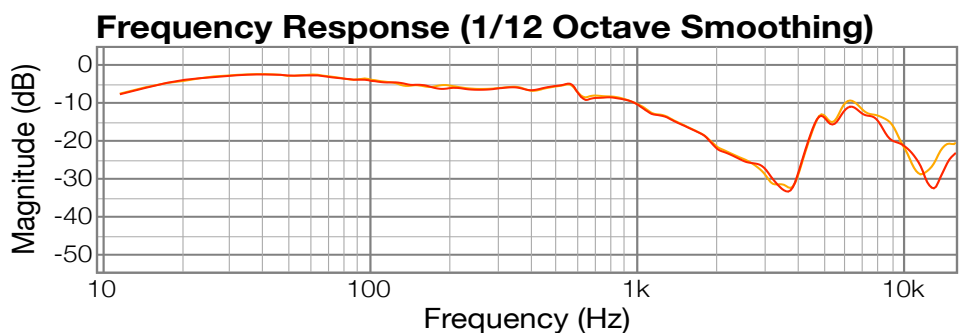
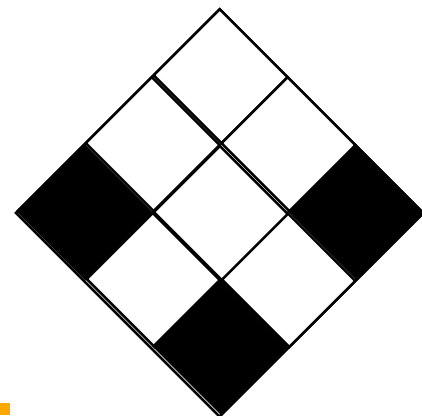




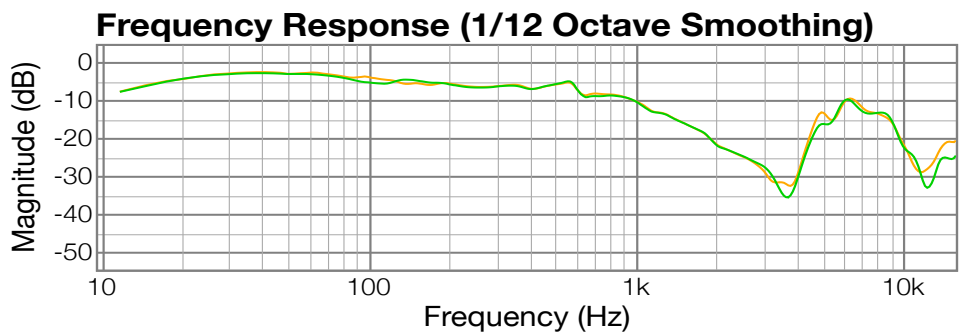
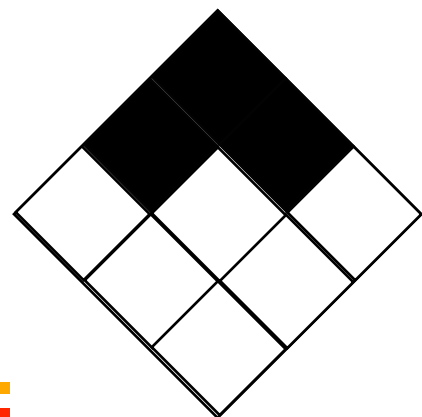
Default Configuration ■
 Configuration 25 ■



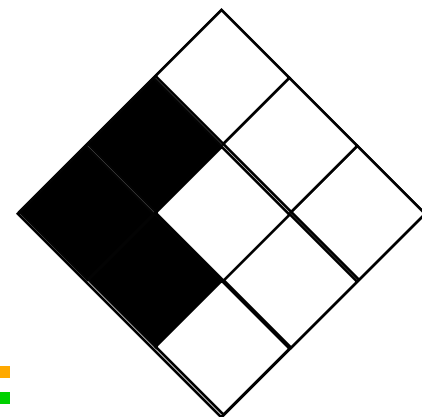
Default Configuration ■
 Configuration 26 ■

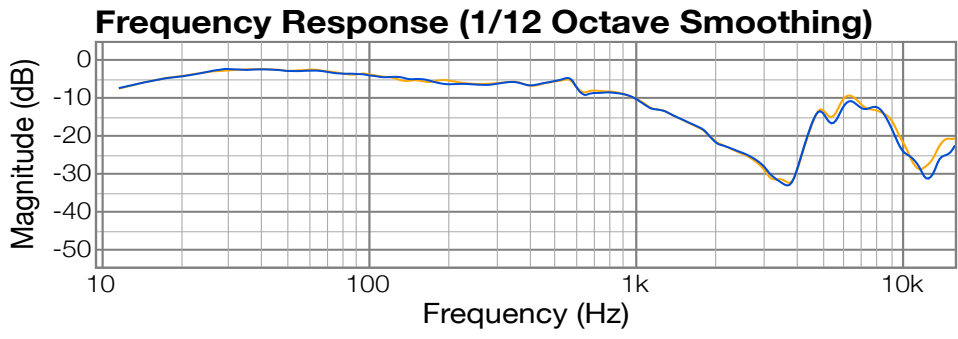


Default Configuration ■
 Configuration 27 ■

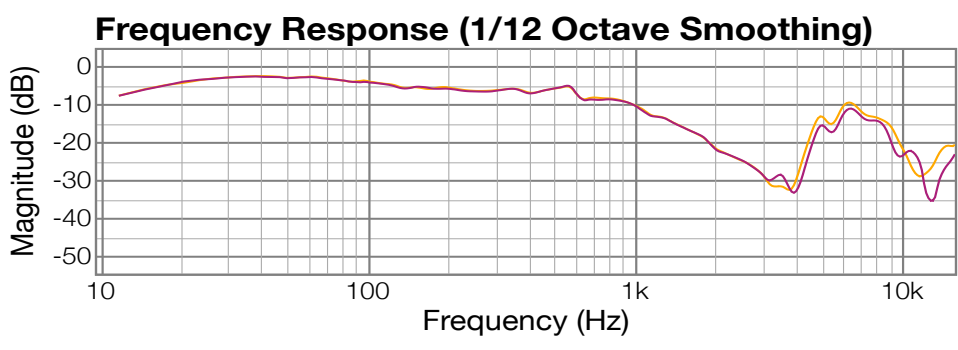
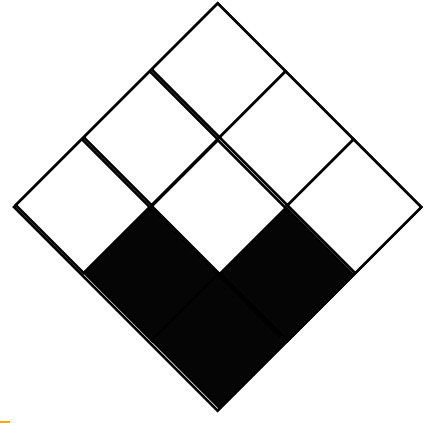


Default Configuration ■
 Configuration 28 ■

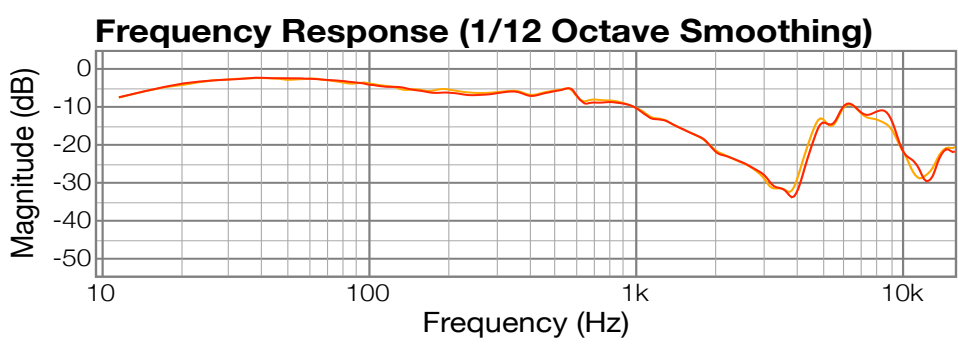
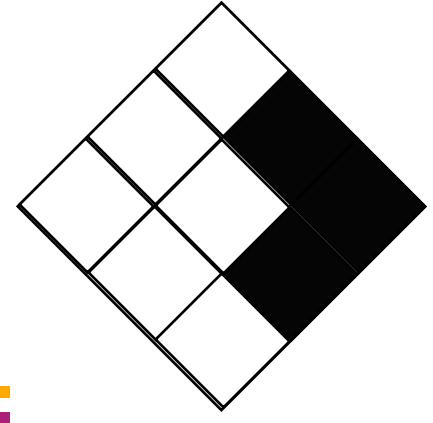




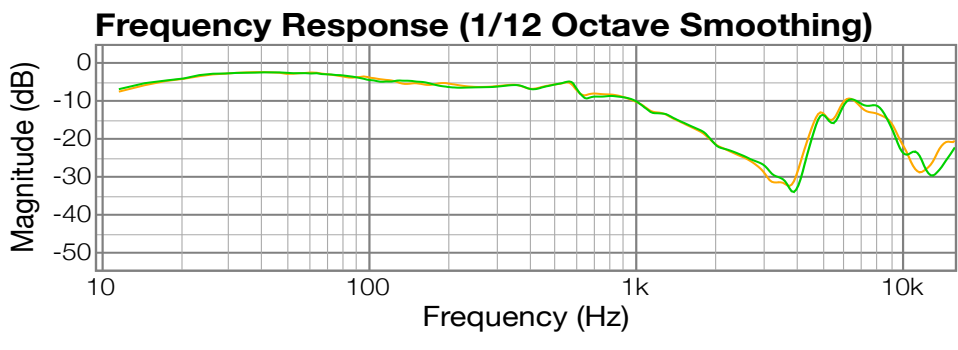
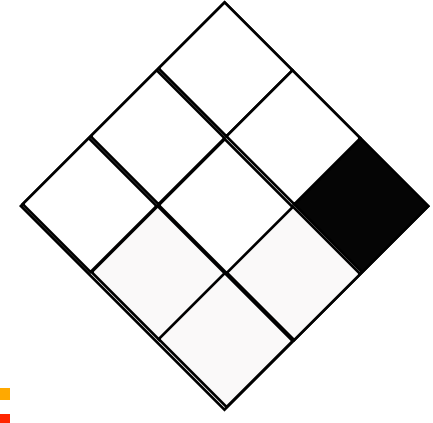
Default Configuration ■
 Configuration 29 ■



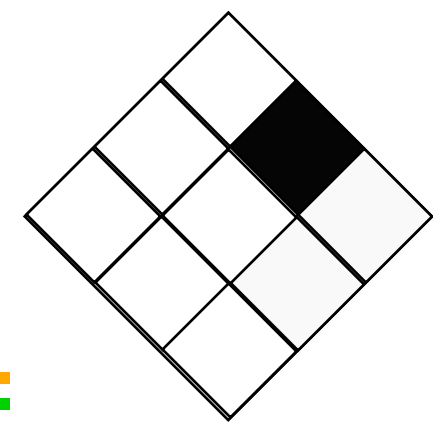
Default Configuration ■
 Configuration 30 ■

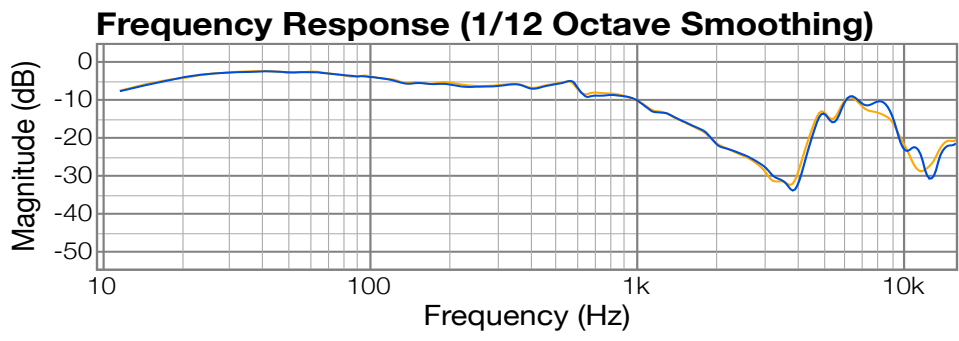


Default Configuration ■
 Configuration 31 ■

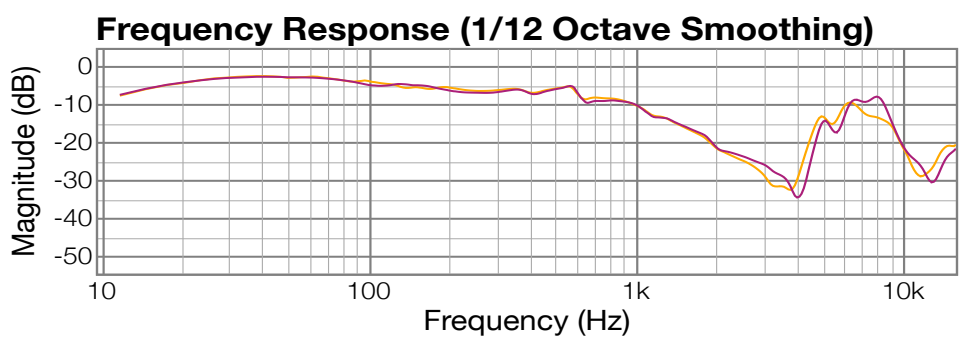
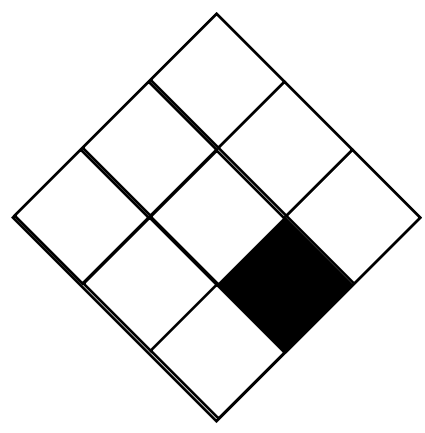


Default Configuration ■
 Configuration 32 ■

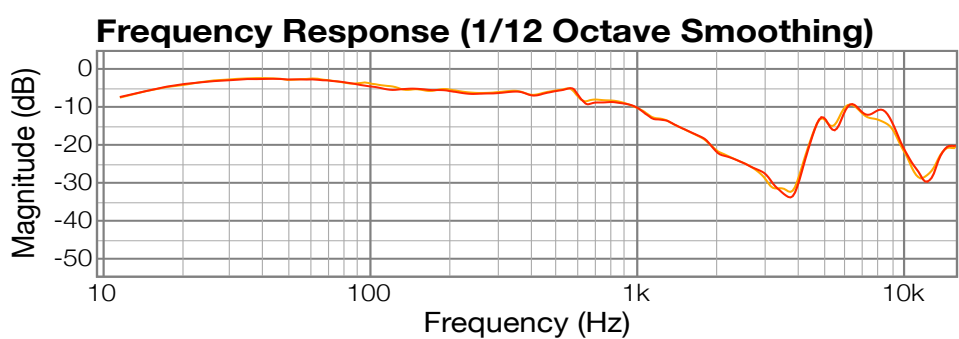
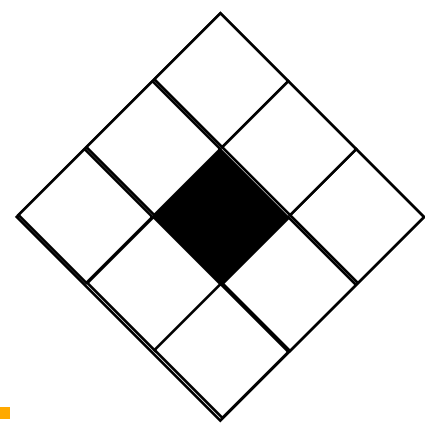




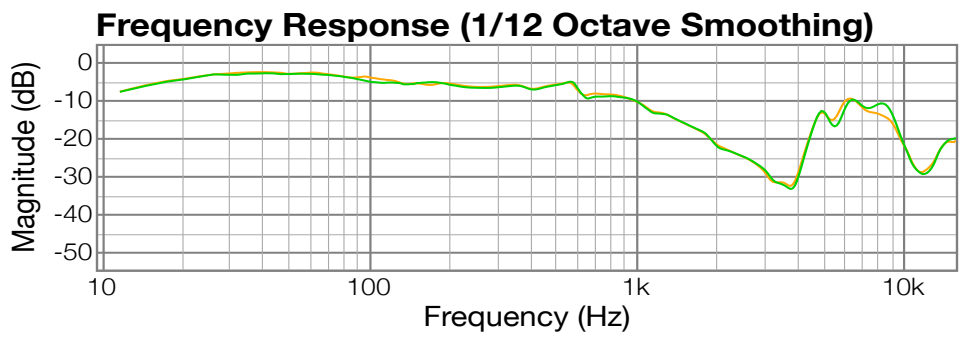
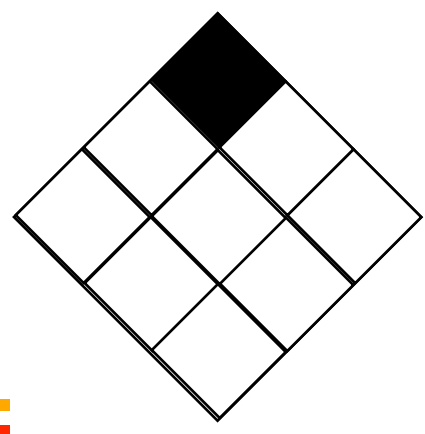
Default Configuration ■
 Configuration 33 ■



Default Configuration ■
 Configuration 34 ■



Default Configuration ■
 Configuration 35 ■



Default Configuration ■
 Configuration 36 ■

