

Euphony Blues

Final Testing



Photo by Christopher Plummer

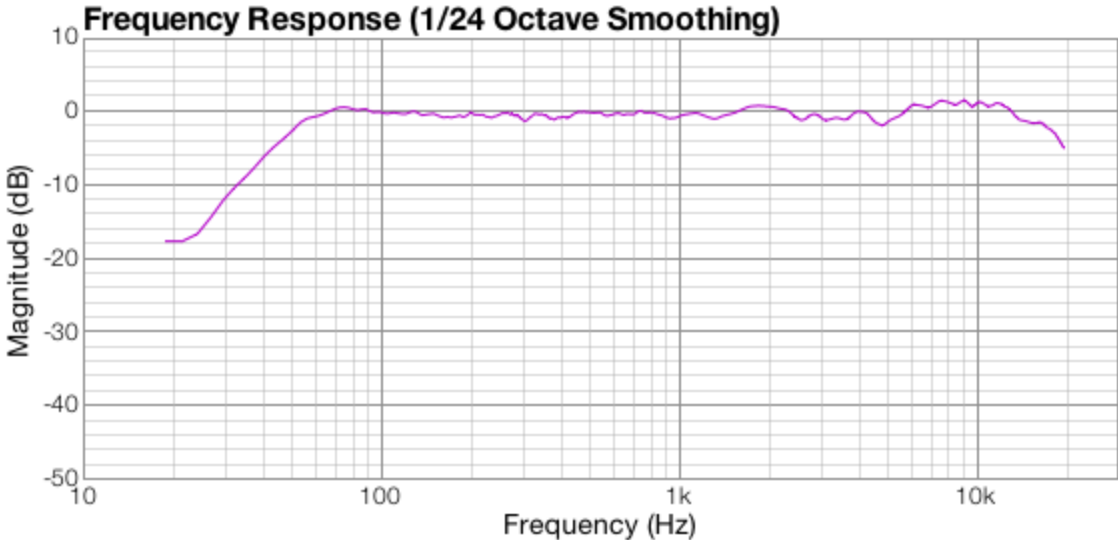
Lindsey L. Johns
FA 4740: Transducer Theory
Revised May 3, 2013

Table of Contents

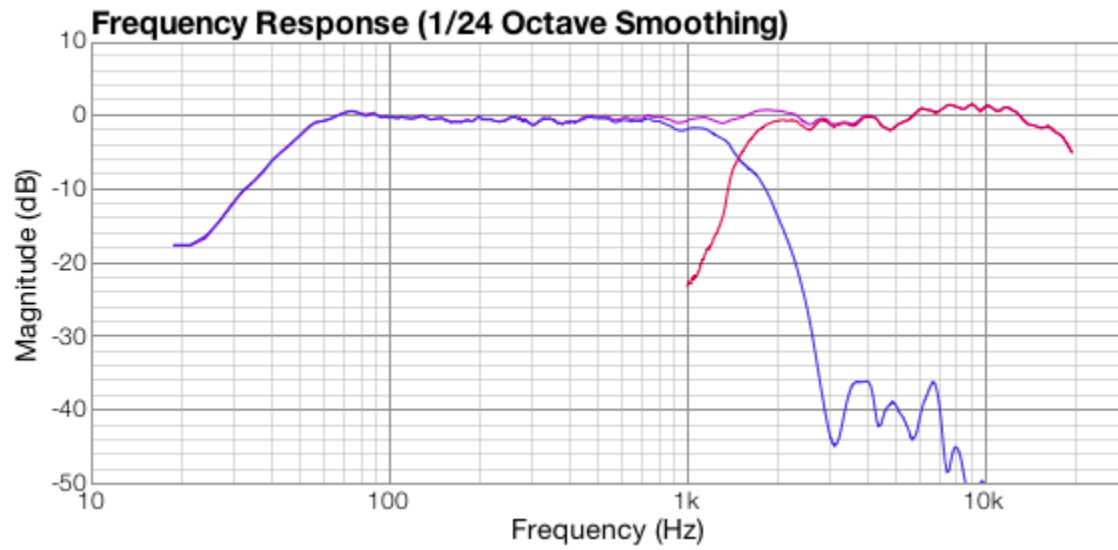
Overall Loudspeaker Performance	3
Frequency Response	3
Integrated Frequency Response	4
Harmonic Distortion Percentage	4
Minimum Phase	5
Horizontal Off-Axis Response	5
Vertical Off-Axis Response	6
Difference Plot	7
Step Response	8
Integrated Step Response	8
Impulse Response	9
Waterfall Plot	9
Woofer Performance	10
Frequency Response	10
Harmonic Distortion Percentage	10
Minimum Phase	11
Tweeter Performance	11
Frequency Response	11
Harmonic Distortion Percentage	12
Minimum Phase	12

Overall Loudspeaker Performance

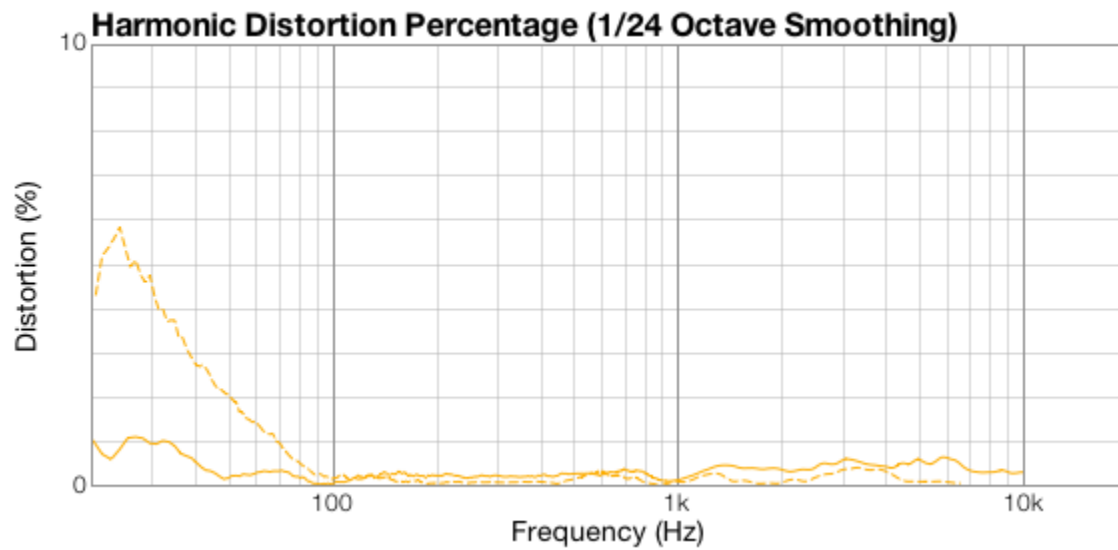
Frequency Response



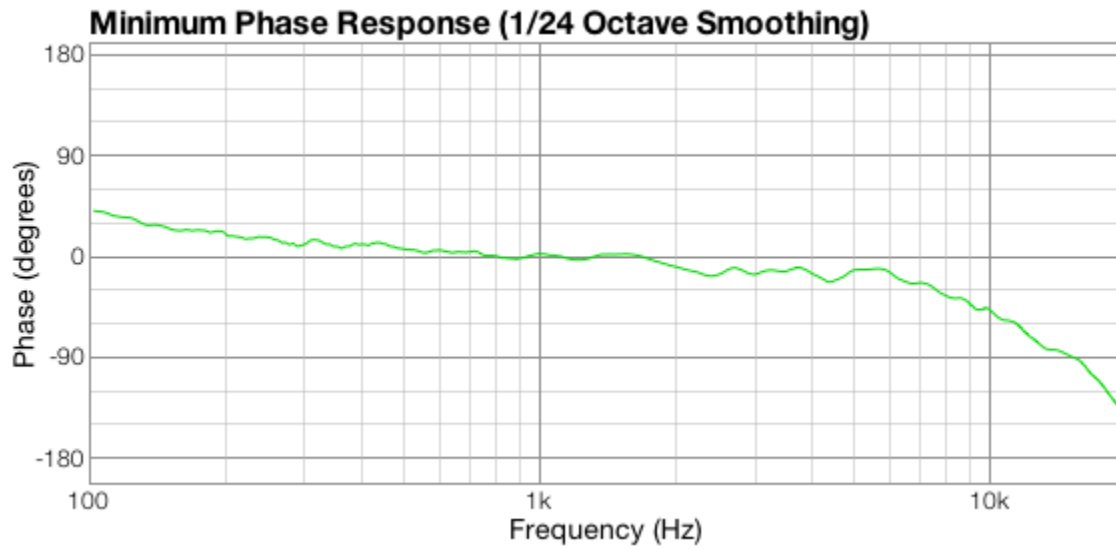
Integrated Frequency Response



Harmonic Distortion Percentage

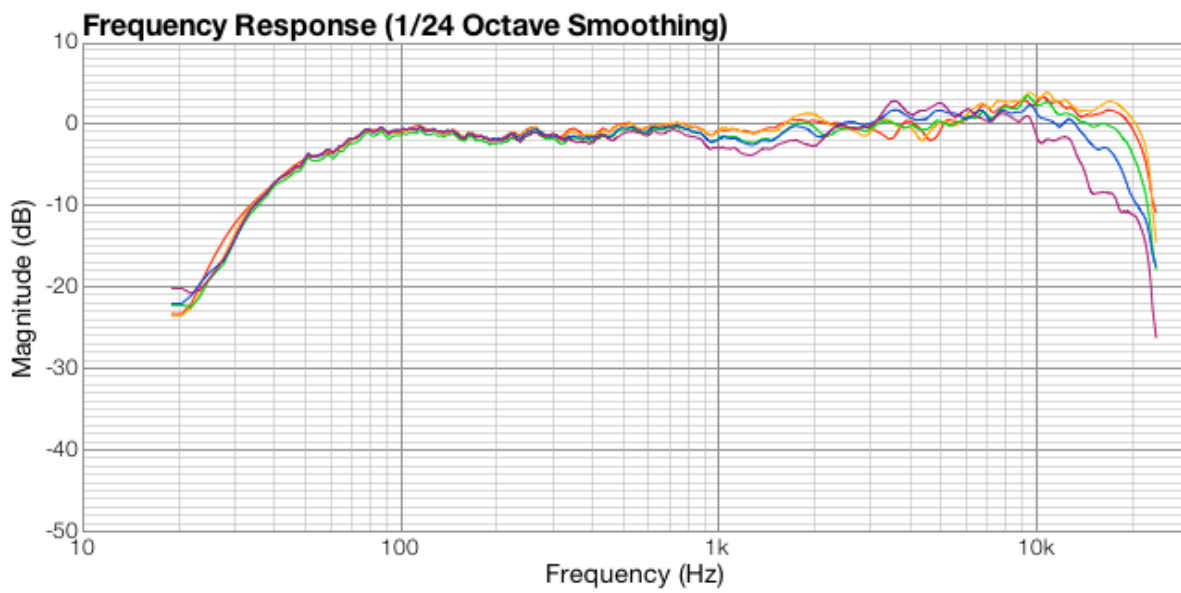


Minimum Phase

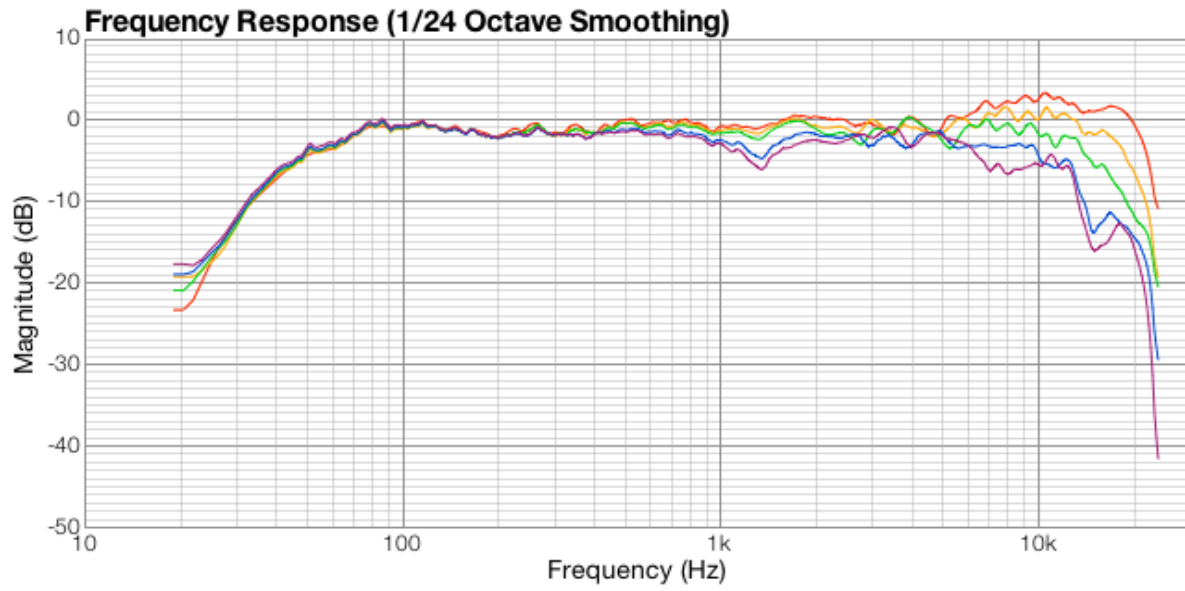


Horizontal Off-Axis Response

Left: (0°, 15°, 30°, 45°, 60°)

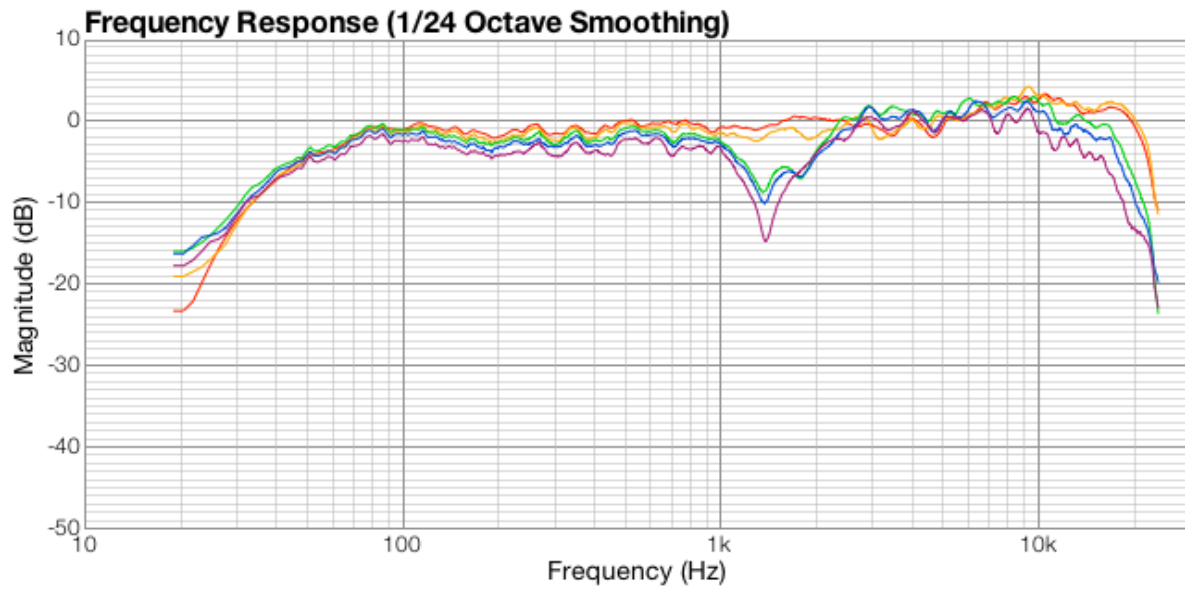


Right: (0°, 15°, 30°, 45°, 60°)

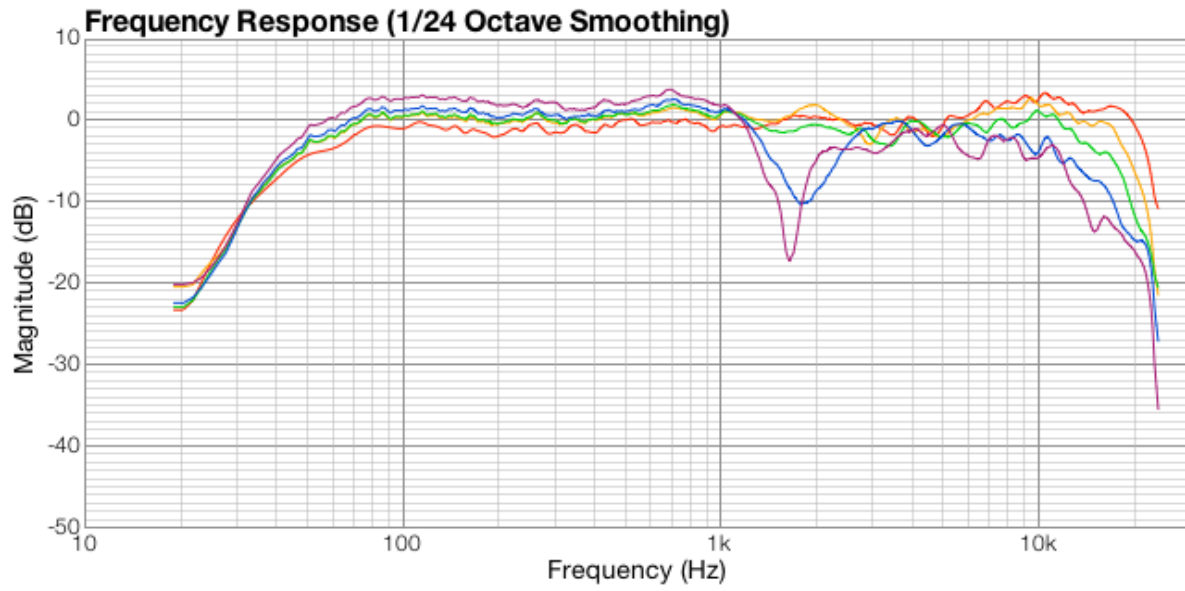


Vertical Off-Axis Response

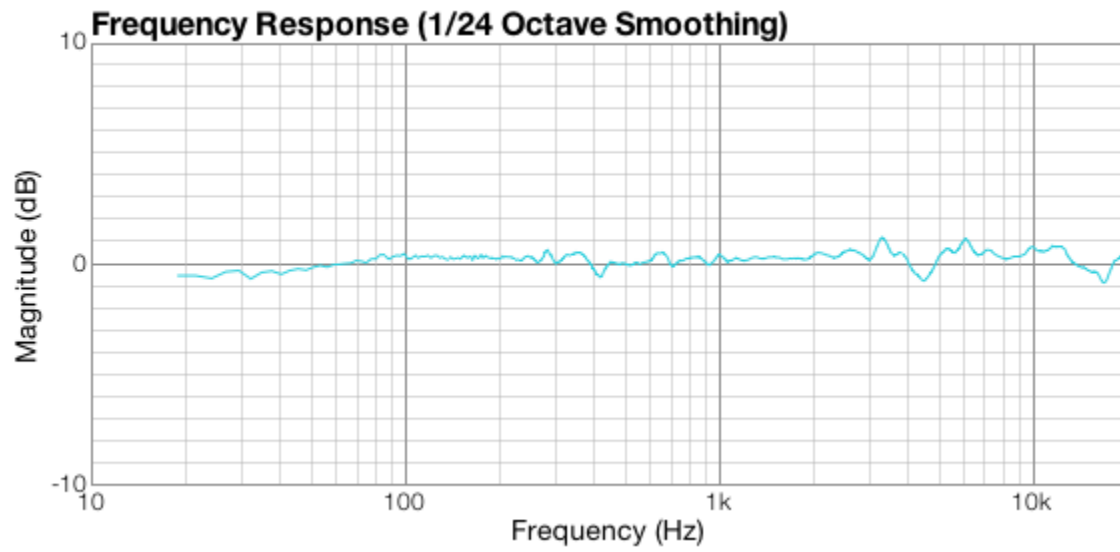
Up: (0°, 15°, 30°, 45°, 60°)



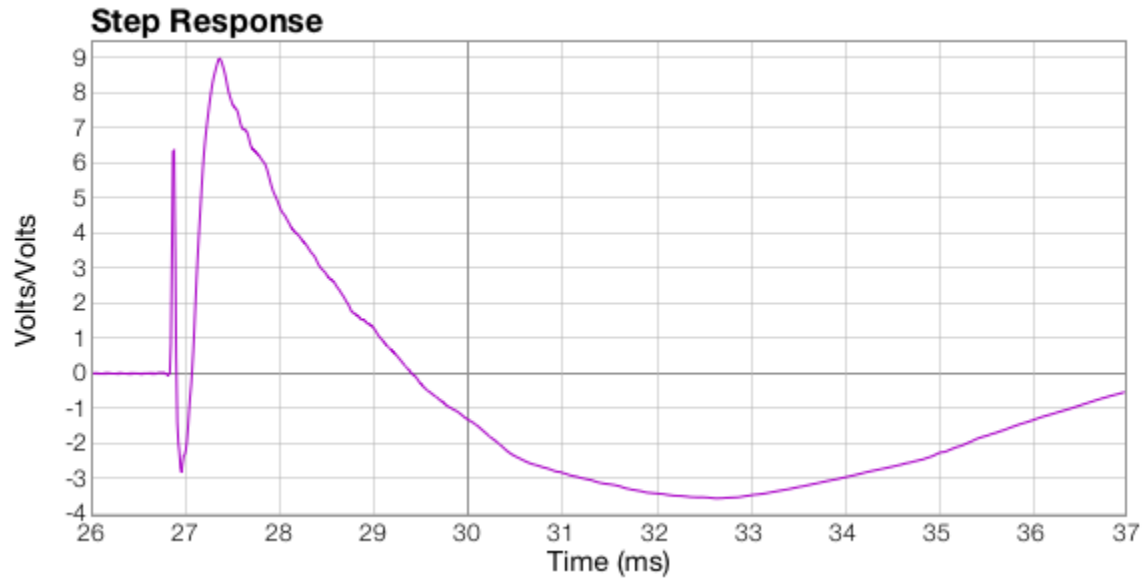
Down: (0°, 15°, 30°, 45°, 60°)



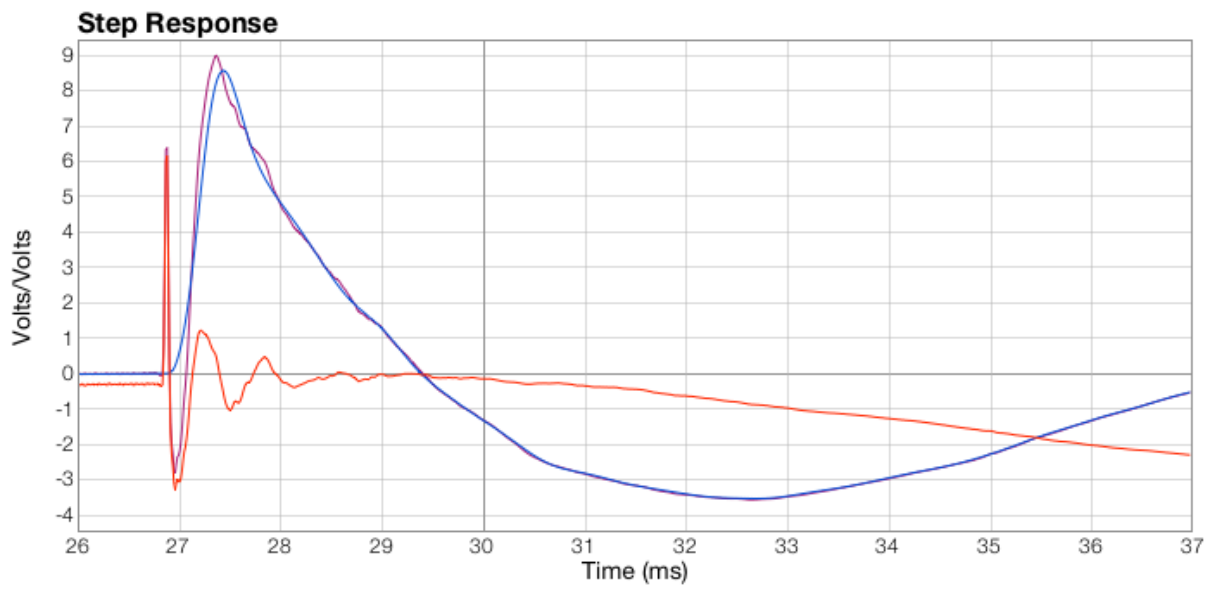
Difference Plot



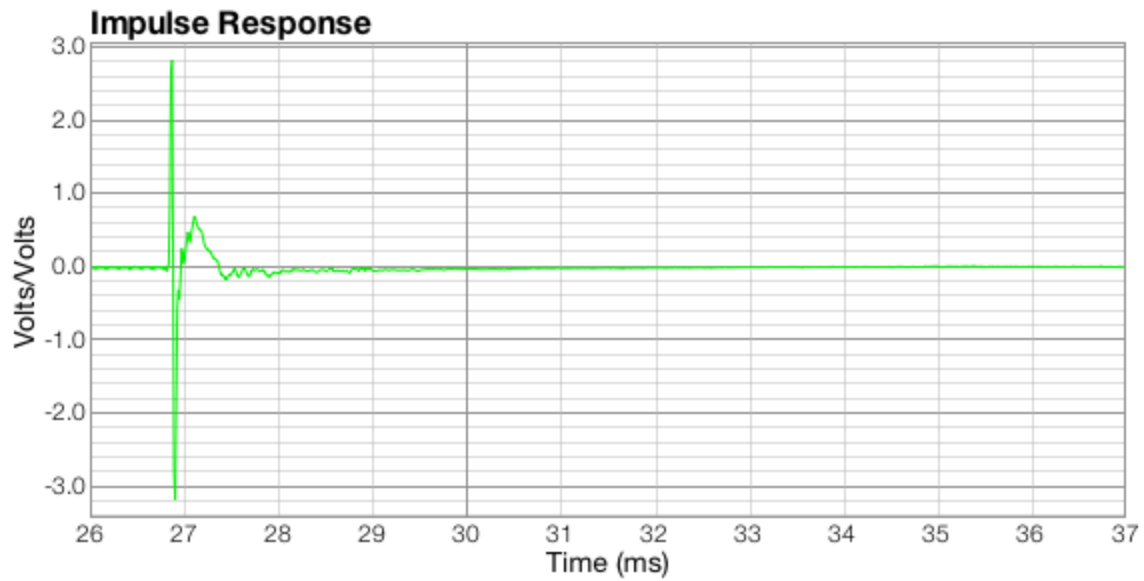
Step Response



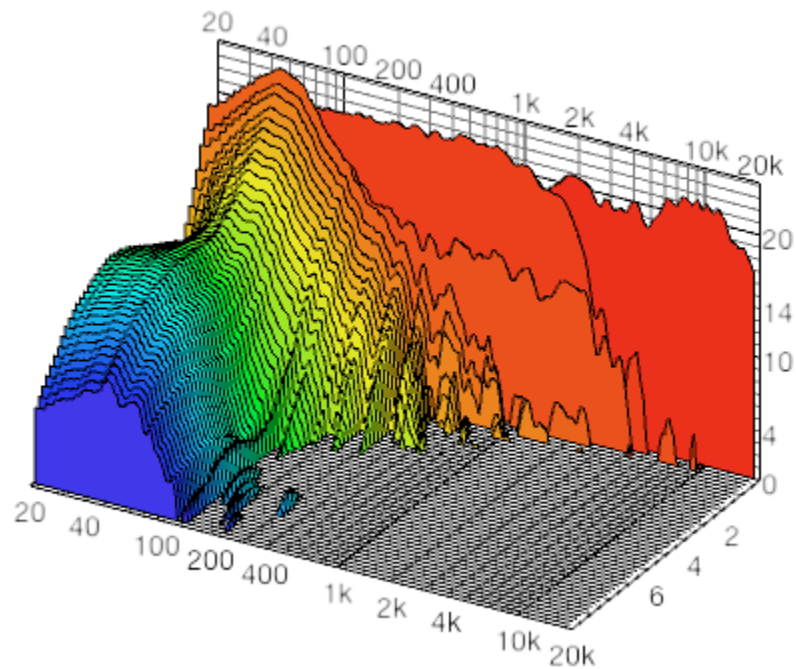
Integrated Step Response



Impulse Response

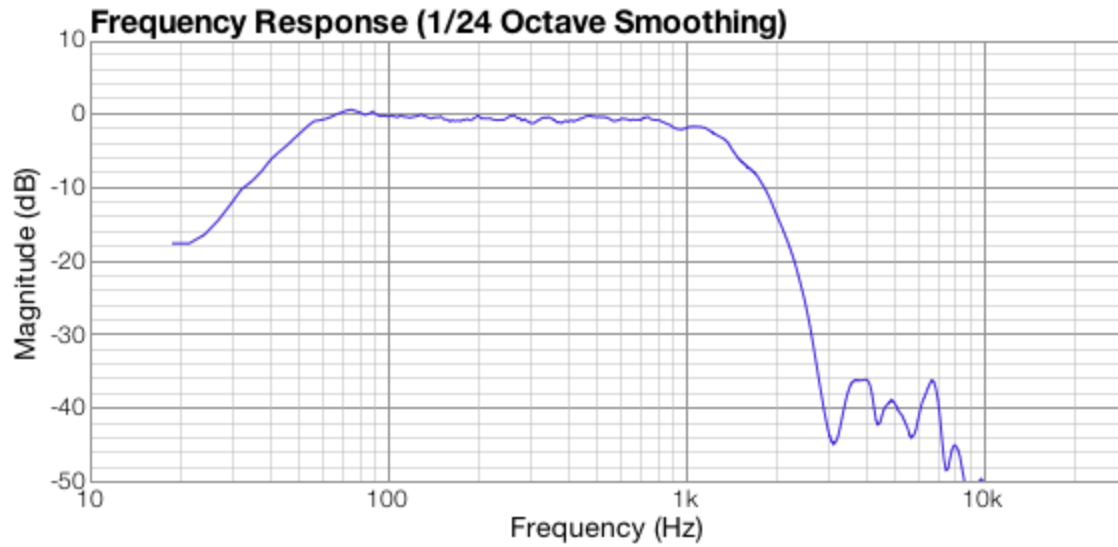


Waterfall Plot

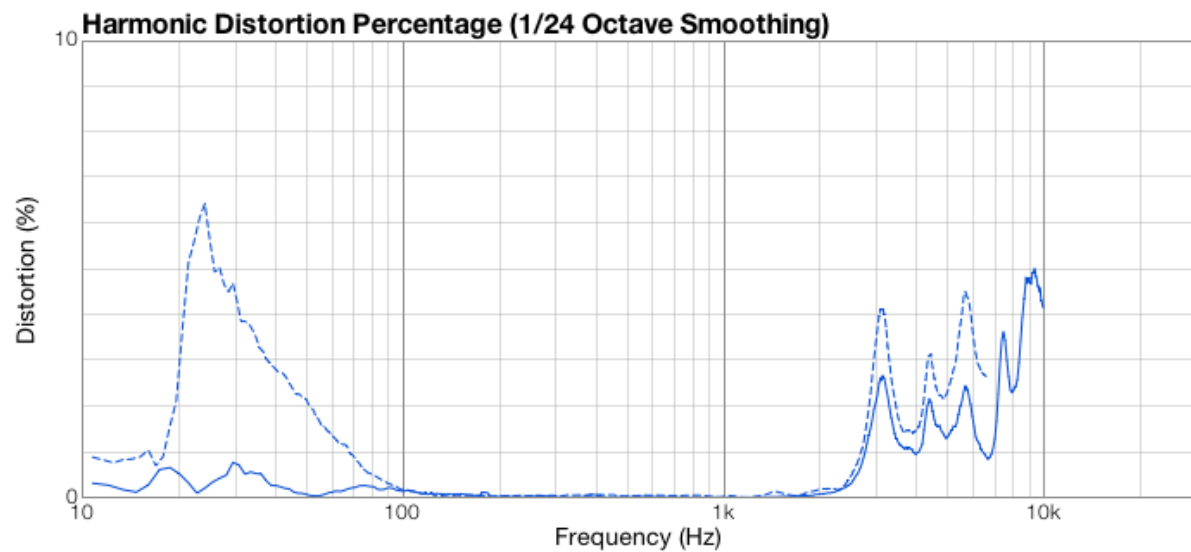


Woofer Performance

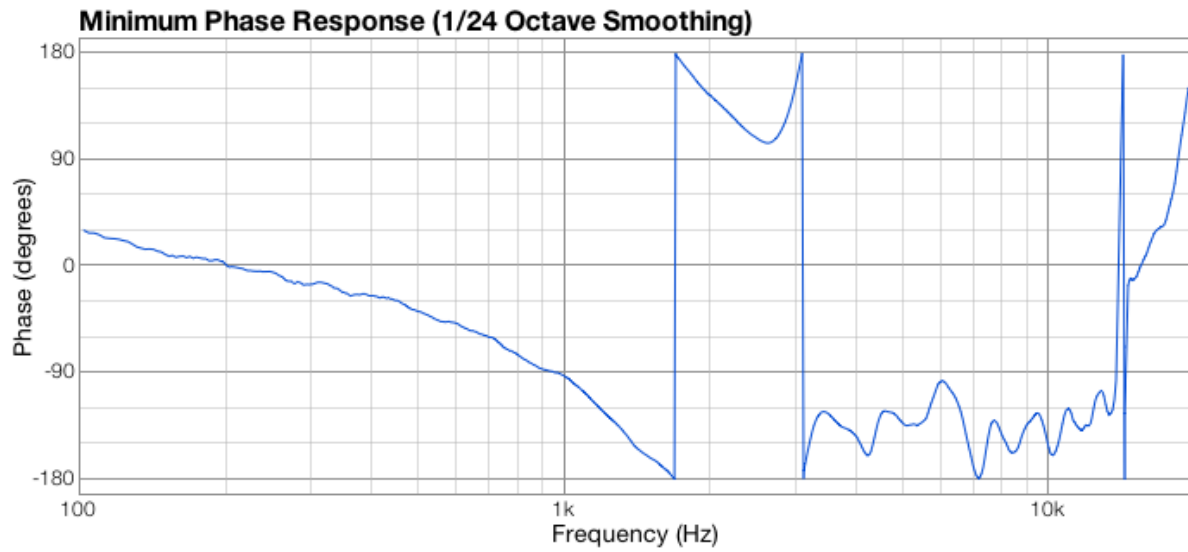
Frequency Response



Harmonic Distortion Percentage

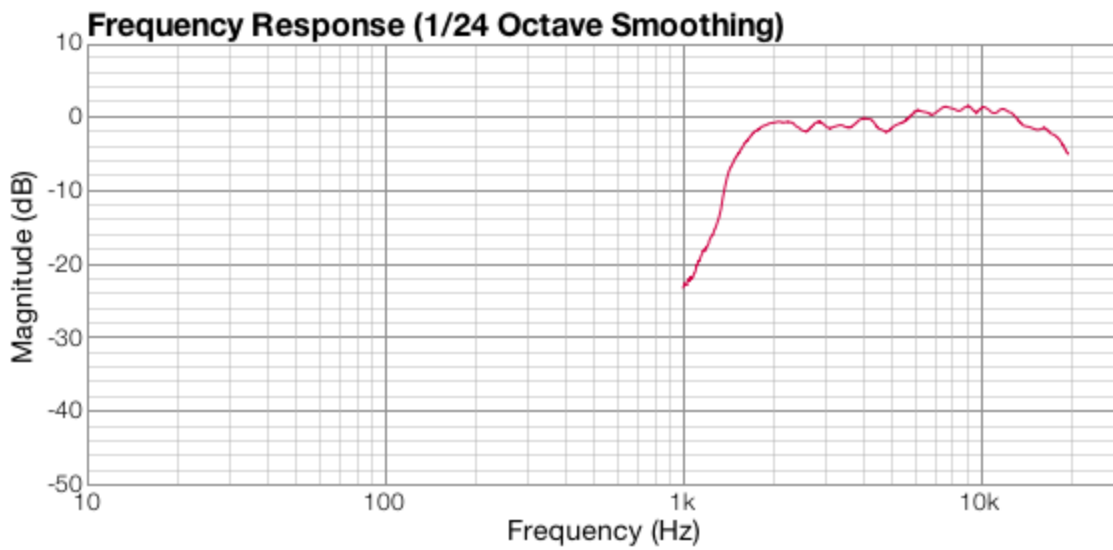


Minimum Phase

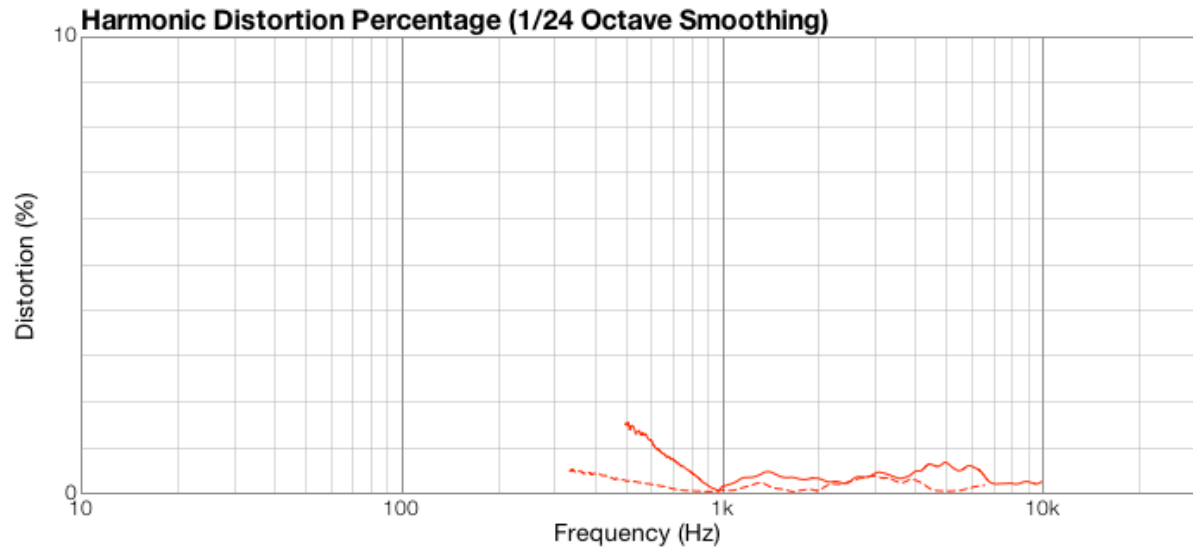


Tweeter Performance

Frequency Response



Harmonic Distortion Percentage



Minimum Phase

