

Title | *5 Channel HV Filter Test Results*  
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## Overview

Transfer function test results to aid in evaluation and test of D1500113\_v1, the ESD 5-channel HV Filter Box. There are four identical quadrant paths and one bias path. Measured log-magnitude and phase are shown for each of the two path types over a range of frequencies from 1 Hz to 1 kHz.

Each filter channel (quadrant and bias paths) is HIPOT tested to 700VDC as a last step. The capacitors present in this design are only rated up to 700VDC, so don't test beyond this voltage. The maximum drive voltage for the ESD system is ~430VDC.

## Transfer Functions

Figure 1

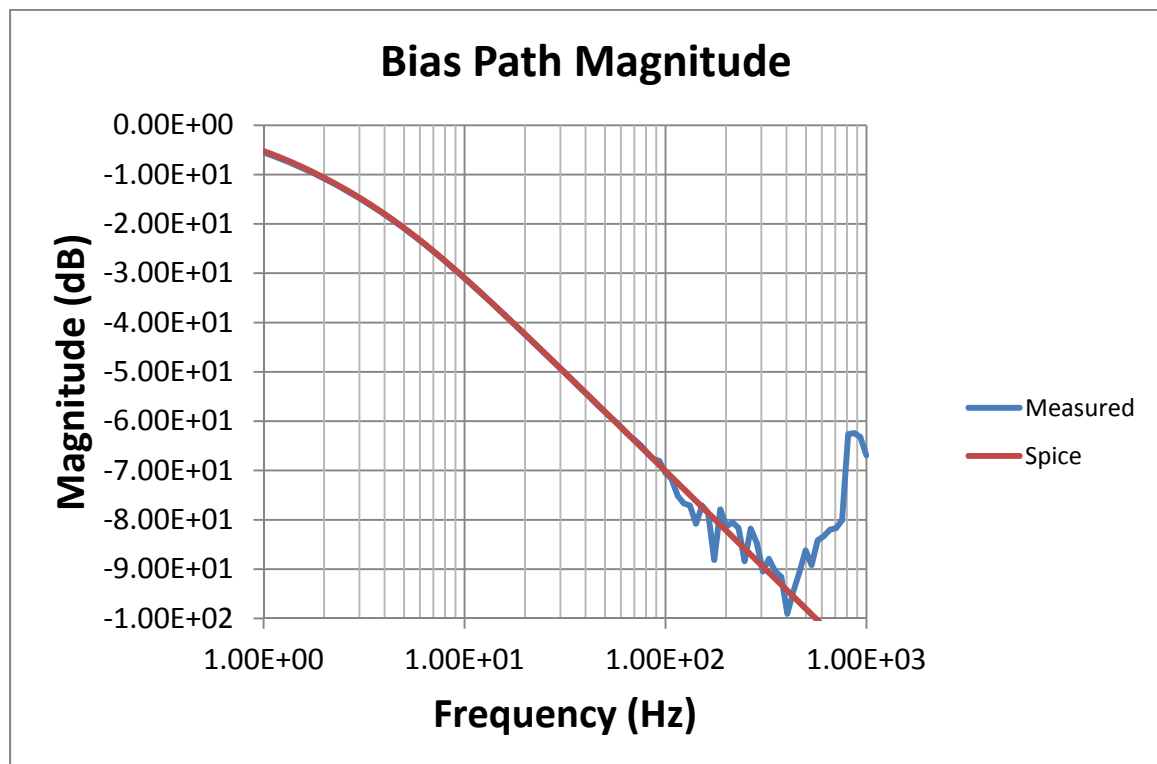


Figure 2

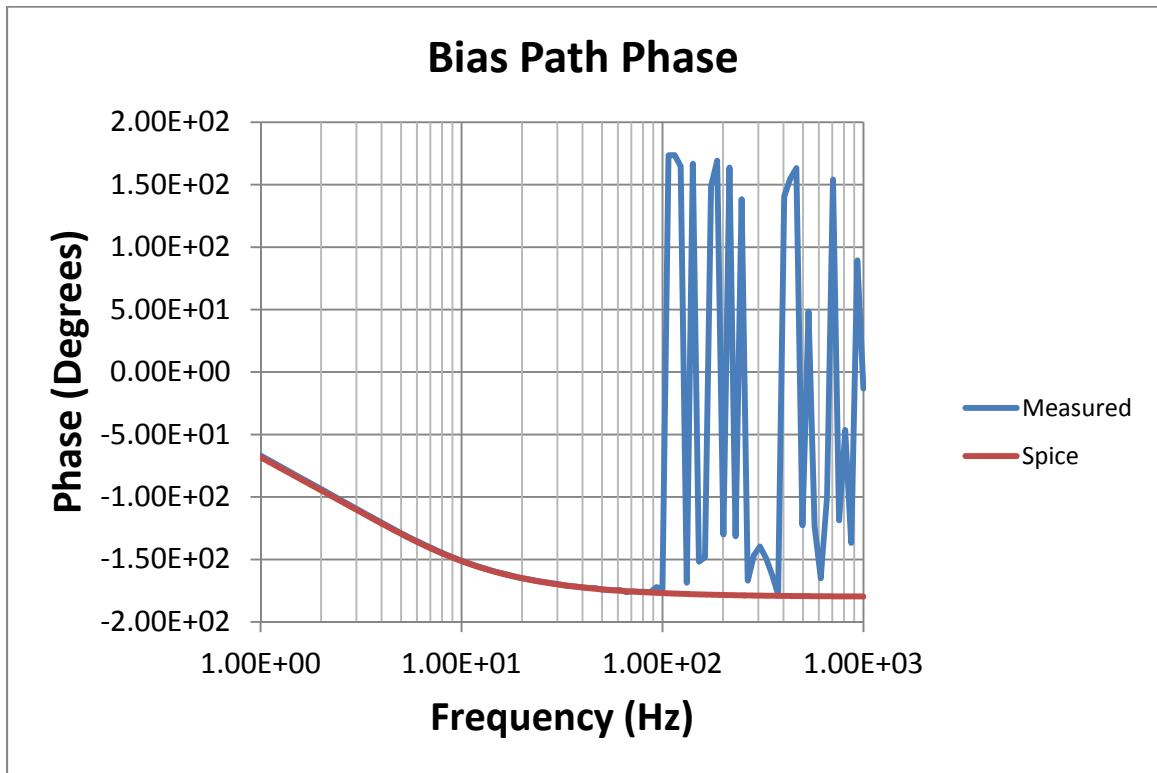


Figure 3

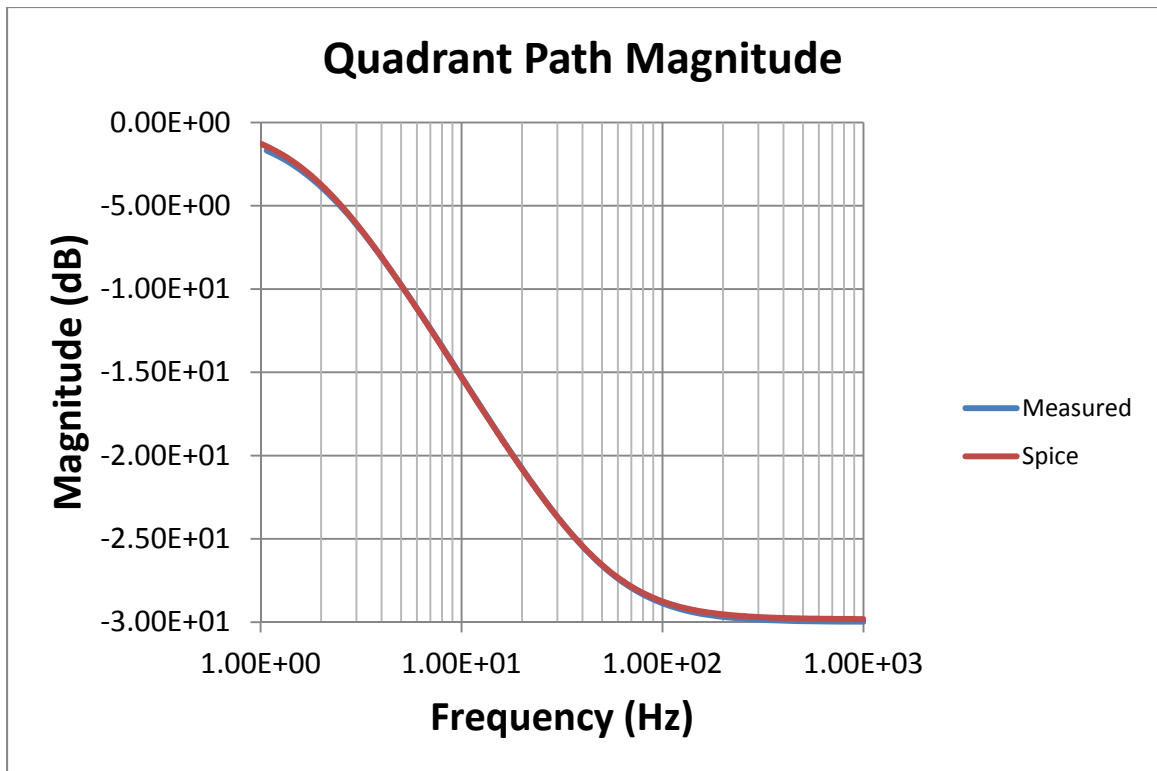


Figure 4

