MLL Phase Contrast Line Profile Comparison

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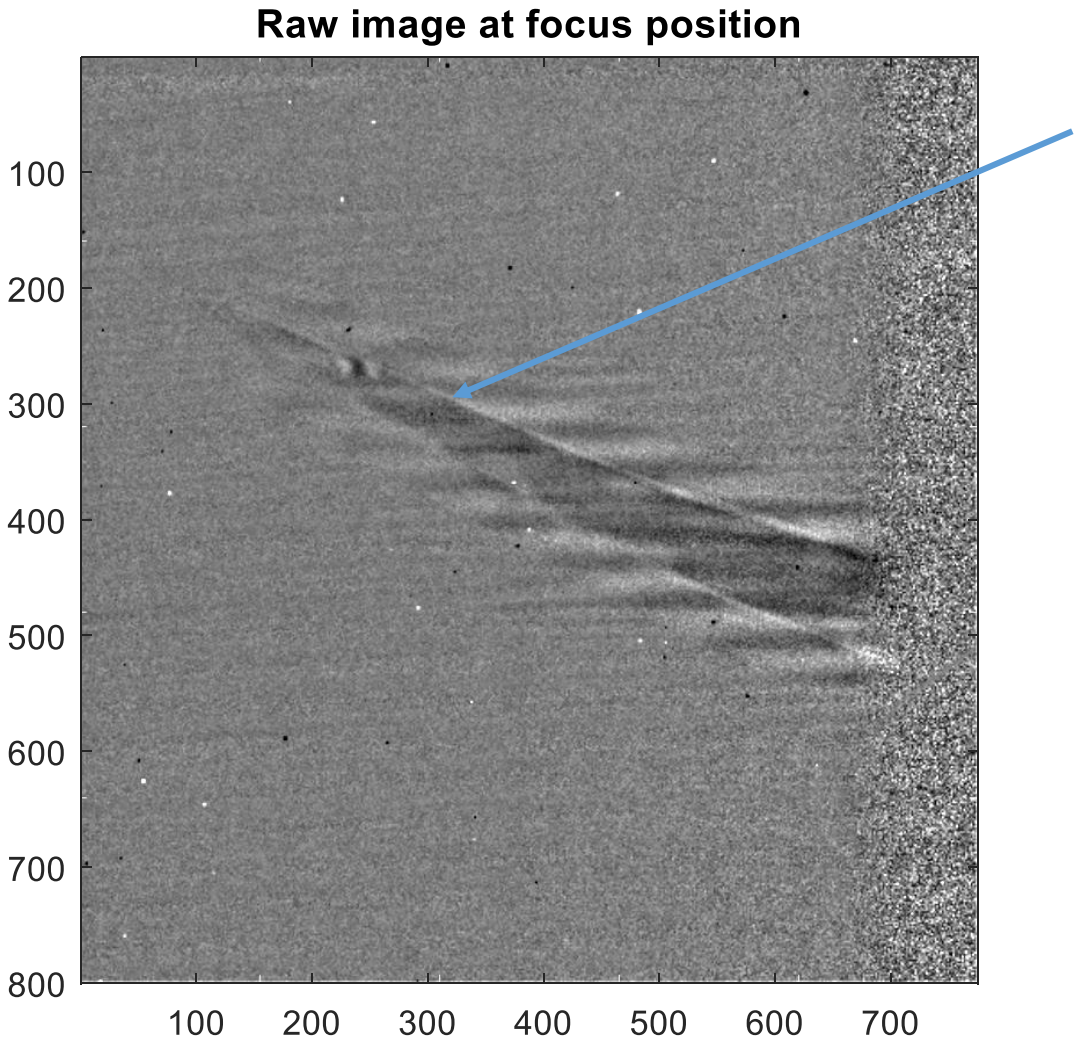
14-03-2017

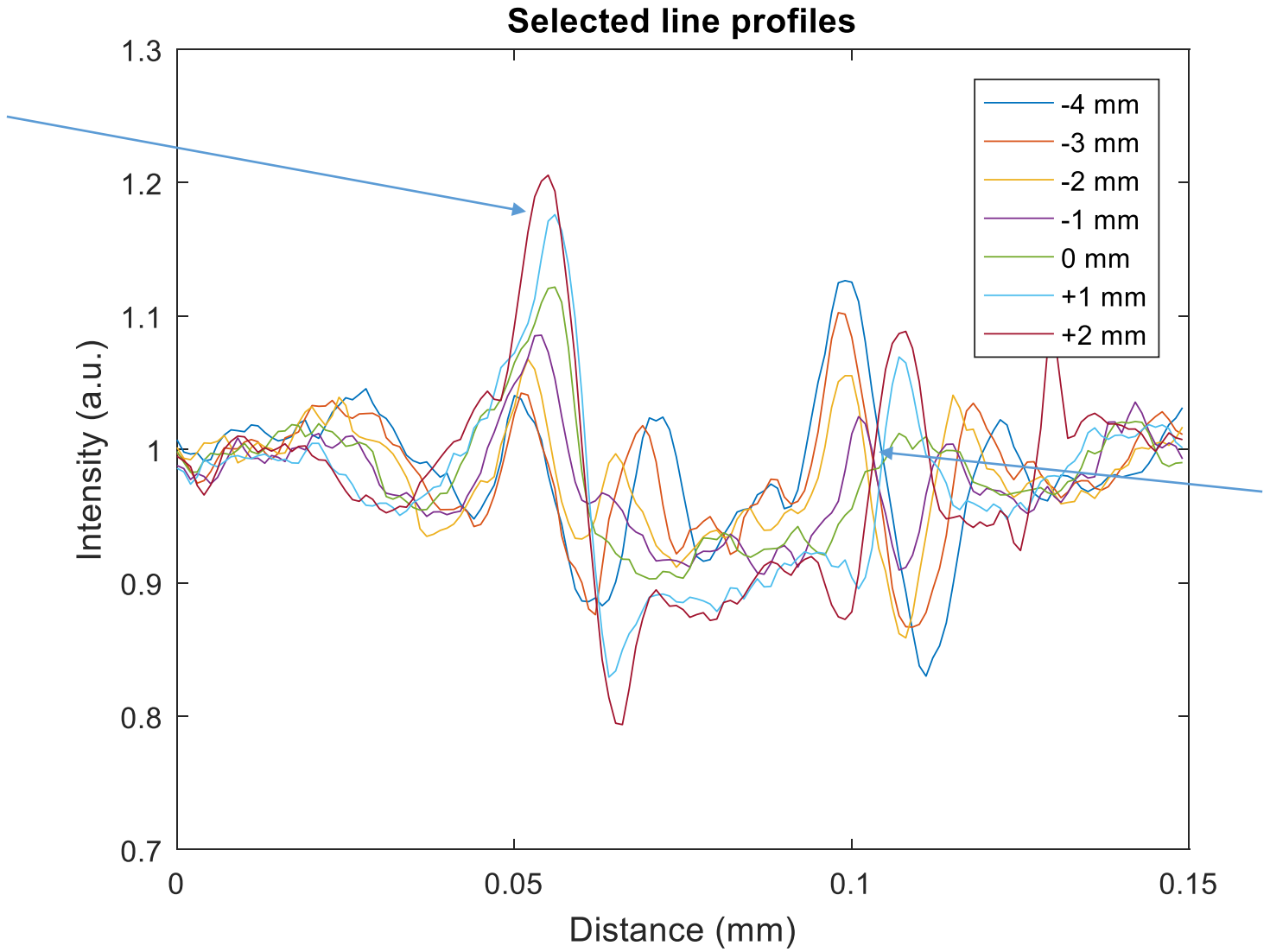
Recorded image estimated at focus position



This line interferes with the profile, but it is only visible on the top side of the rod.

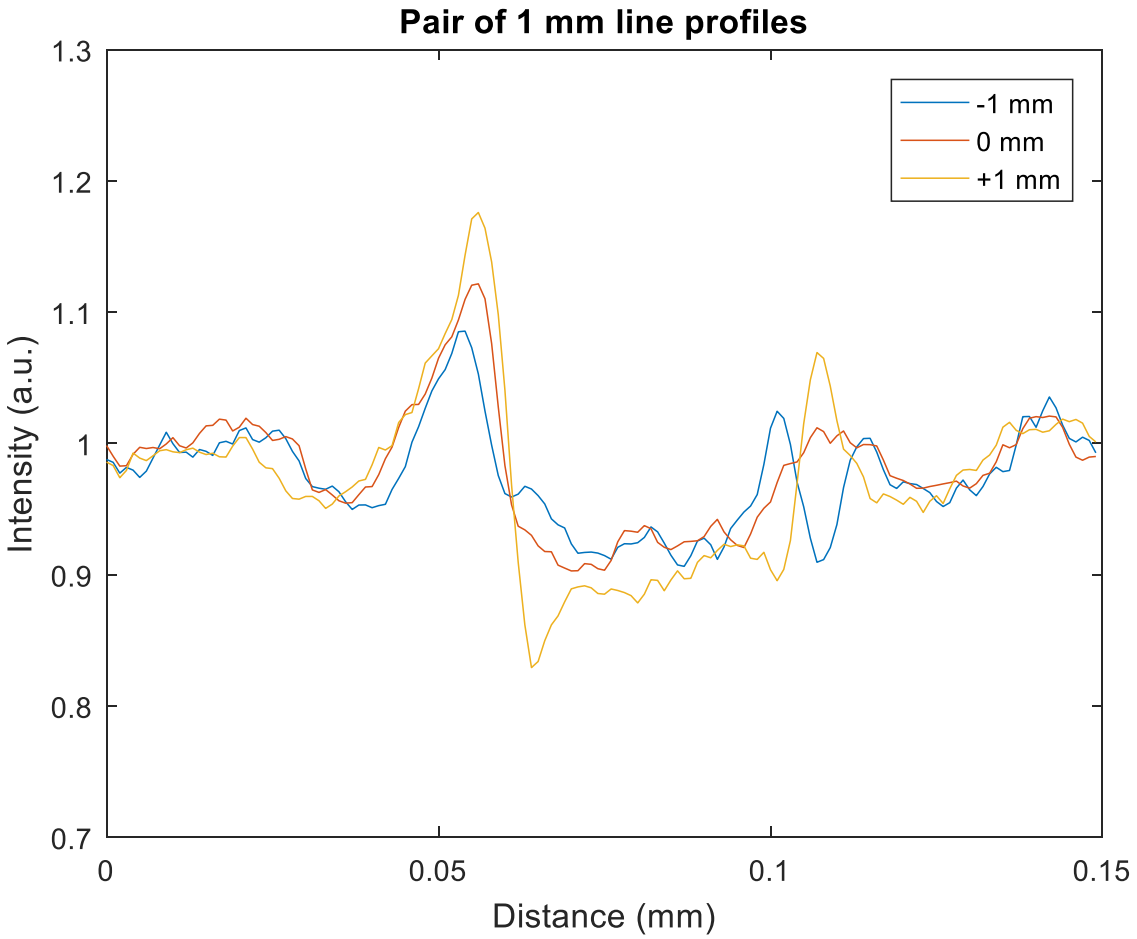
Measured line profiles

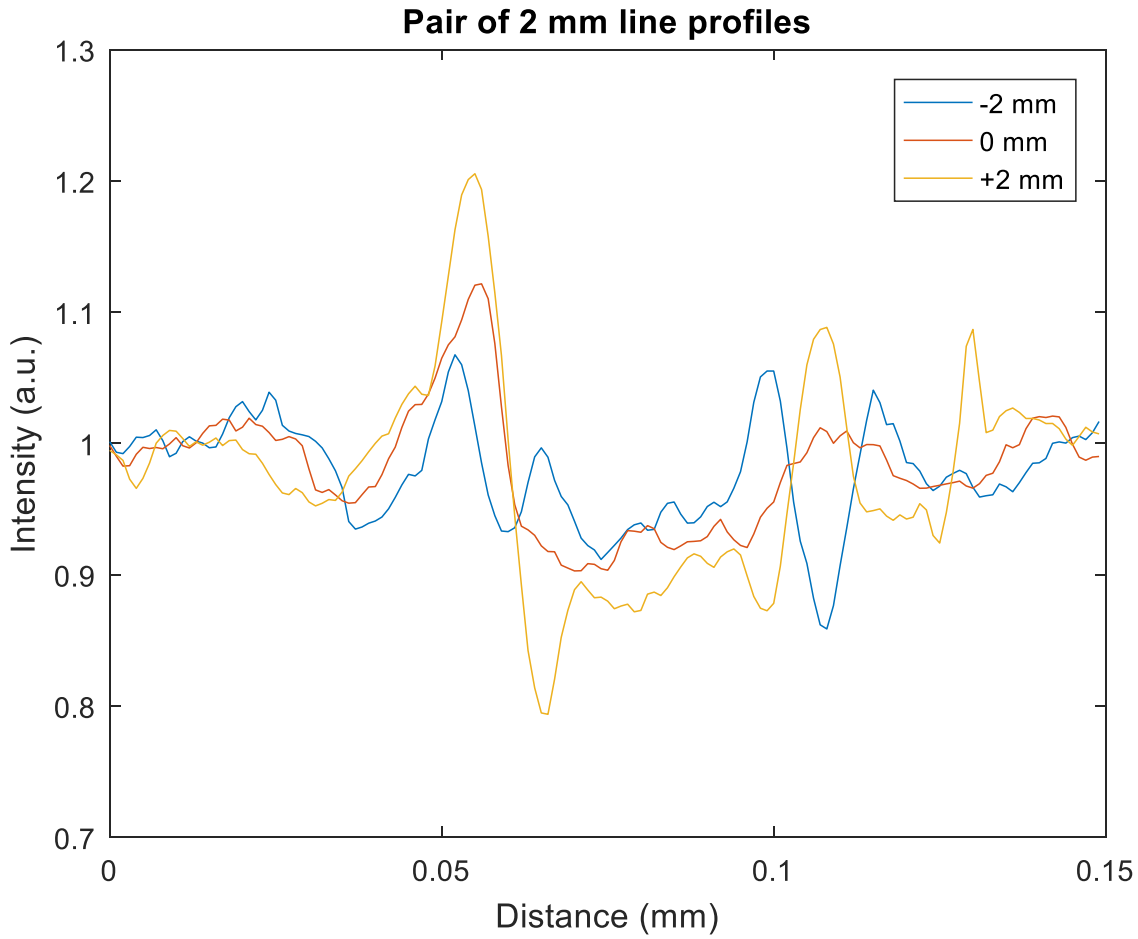
The problematic line mentioned on the previous slide. It is difficult to see the amplitude inversion on this side of the rod.



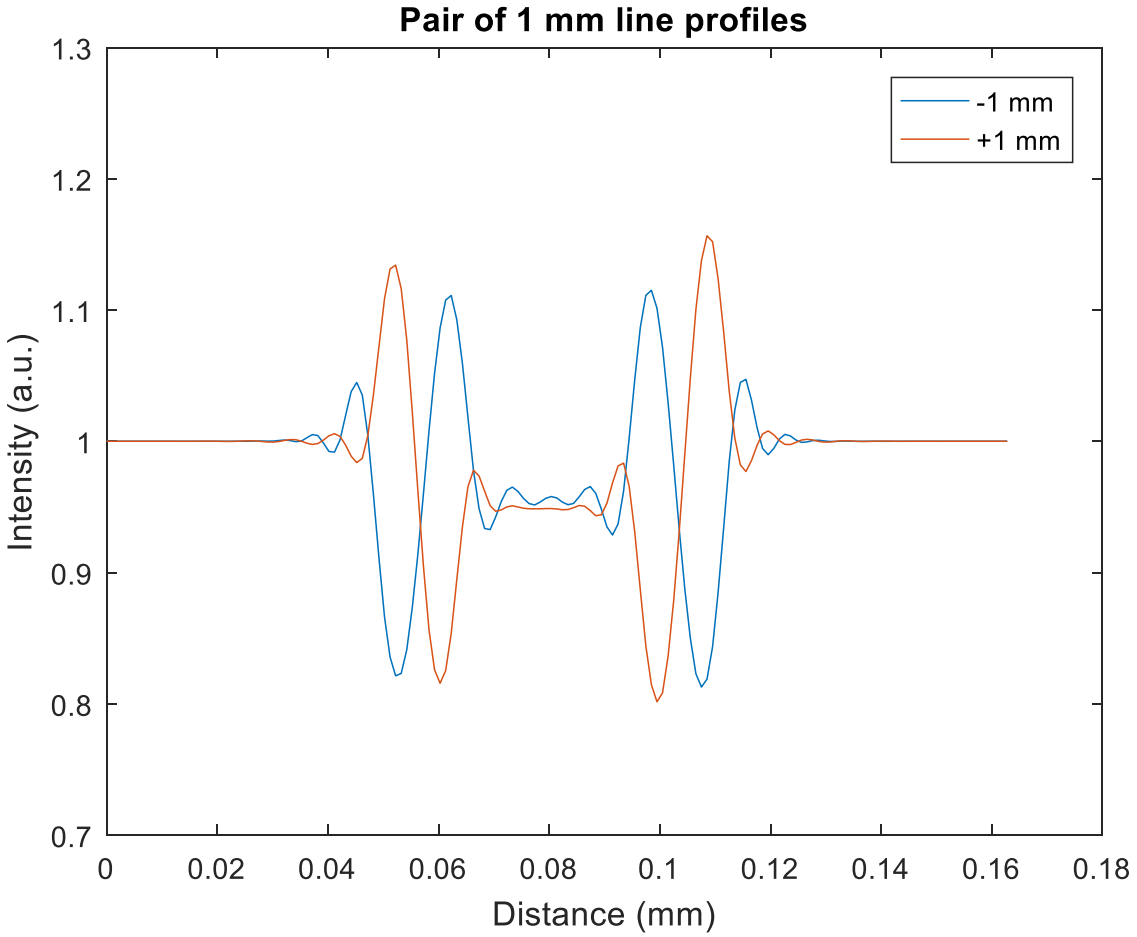
Amplitude inversion is clearly seen on the bottom side of the rod.

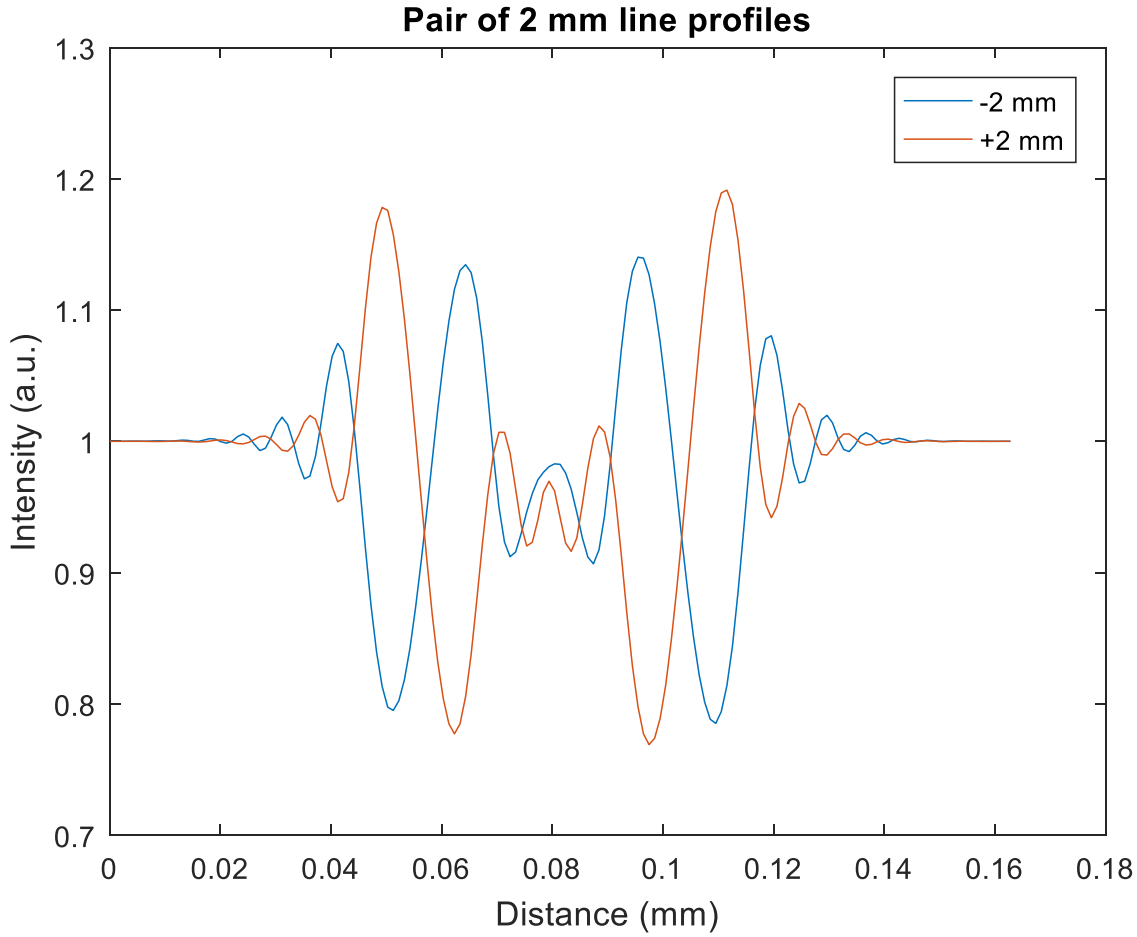
Measurement ± displacement comparison



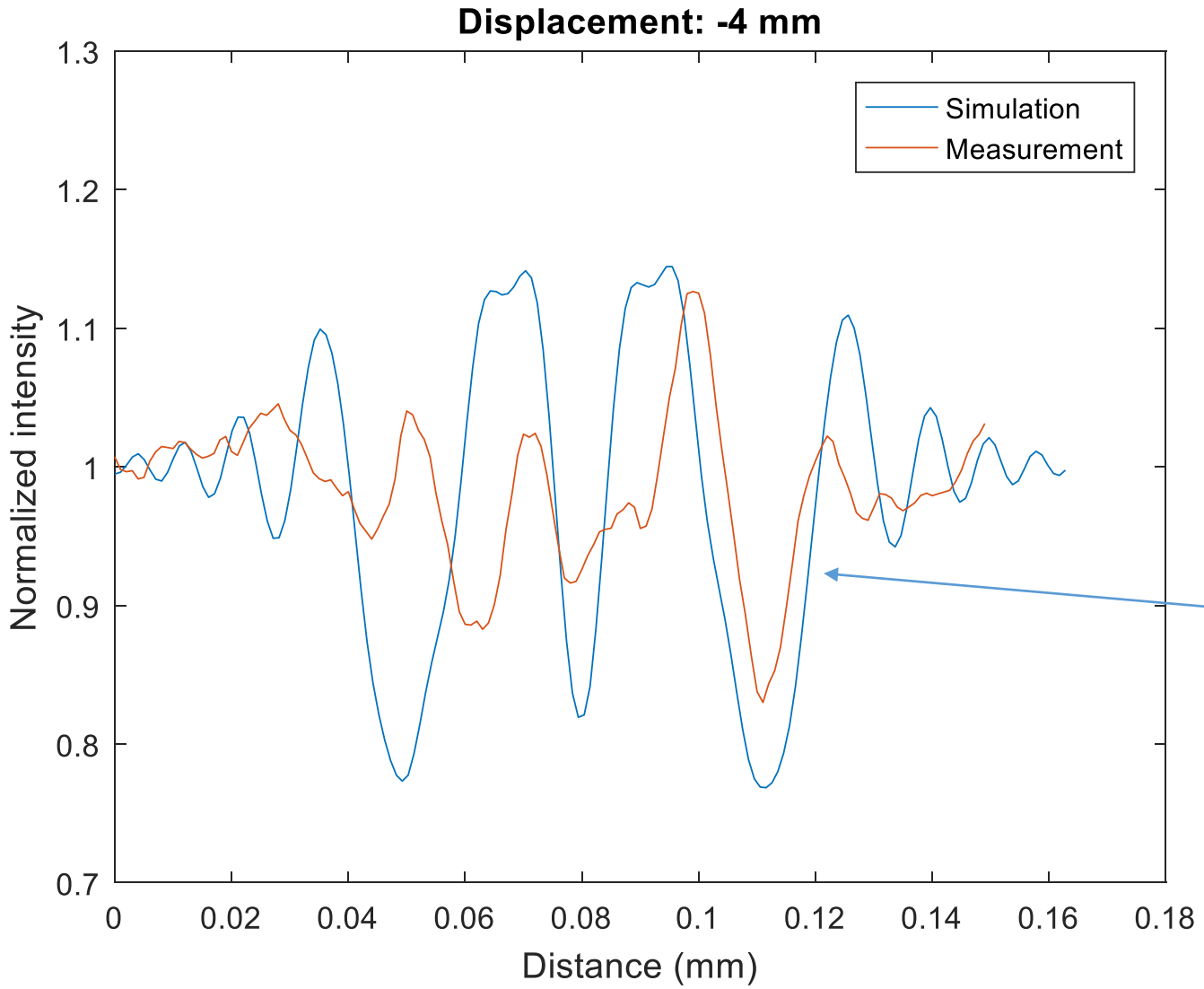


Simulation ± displacement comparison



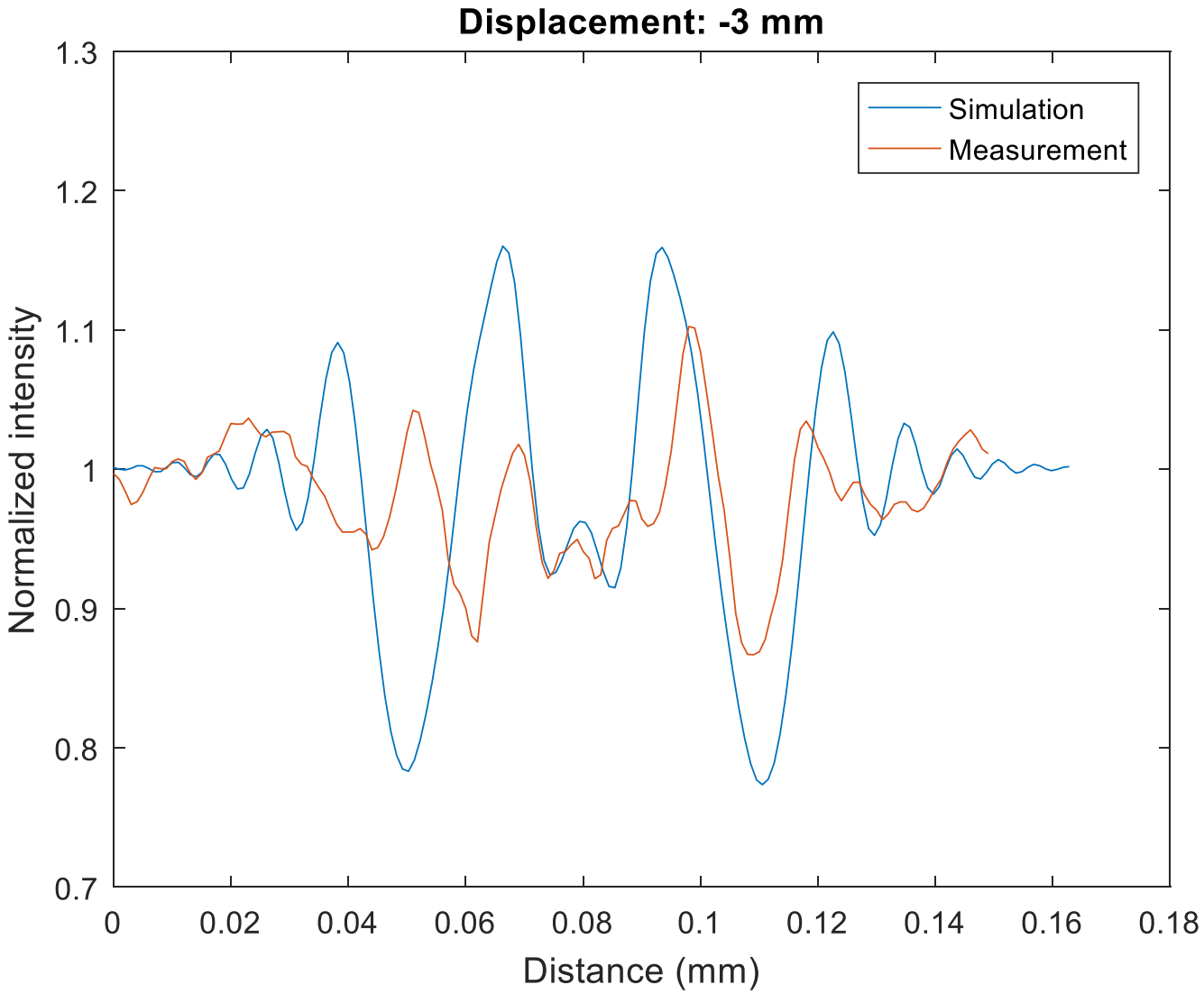


Simulation vs. measurement

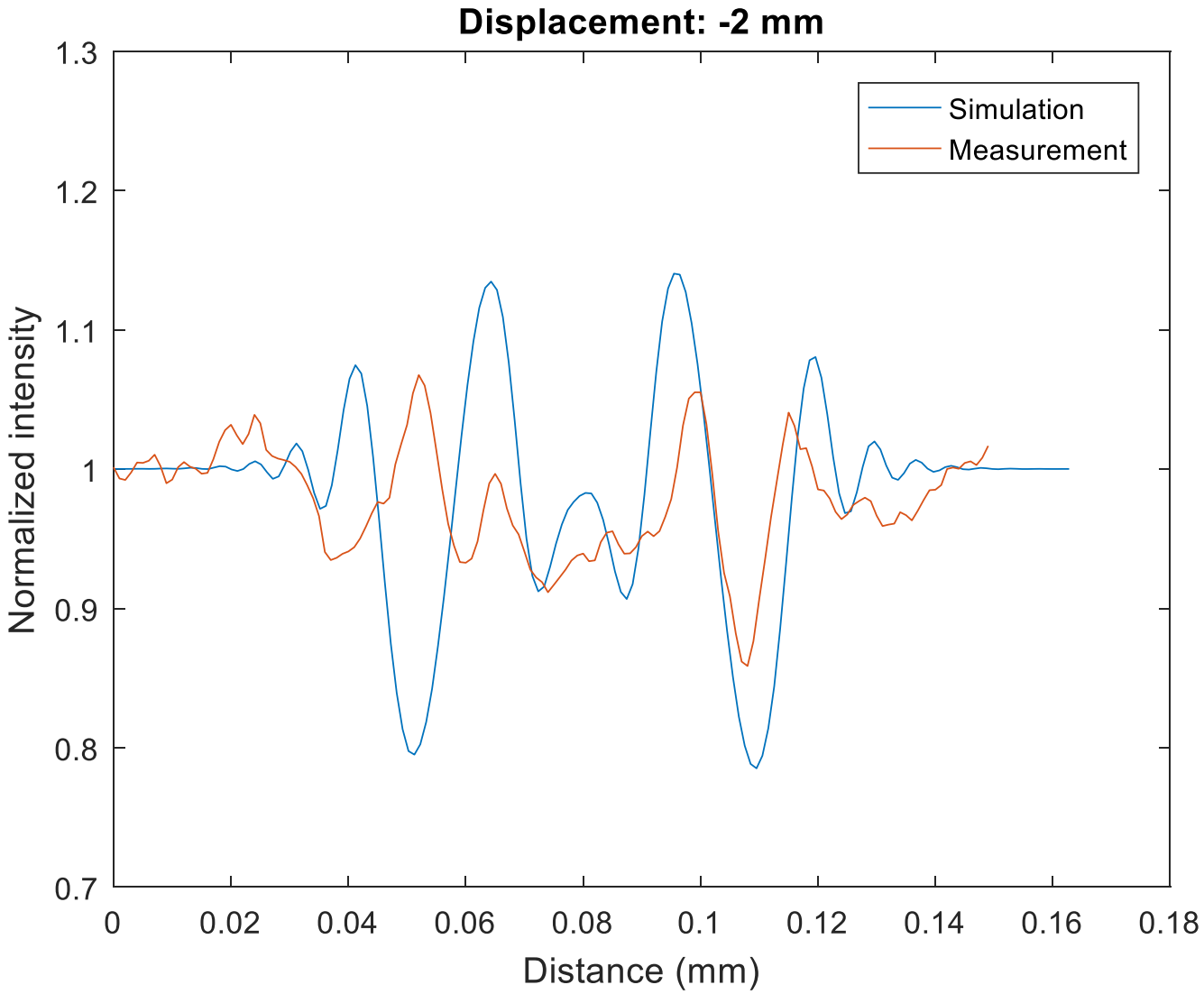


Good agreement between measurement and simulation on this side of rod. The simulation overestimates the amplitude of the oscillations a bit.

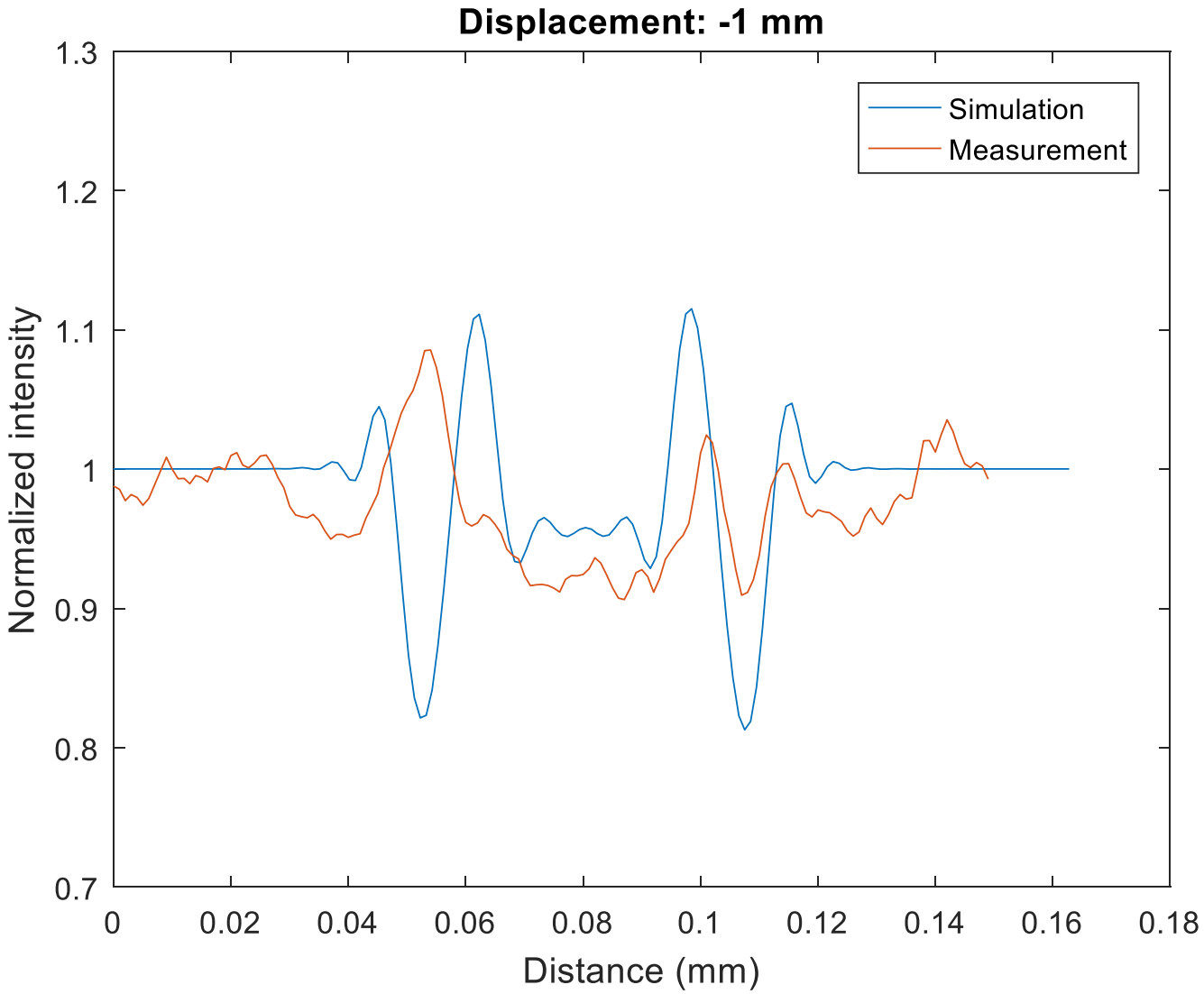
Simulation vs. measurement



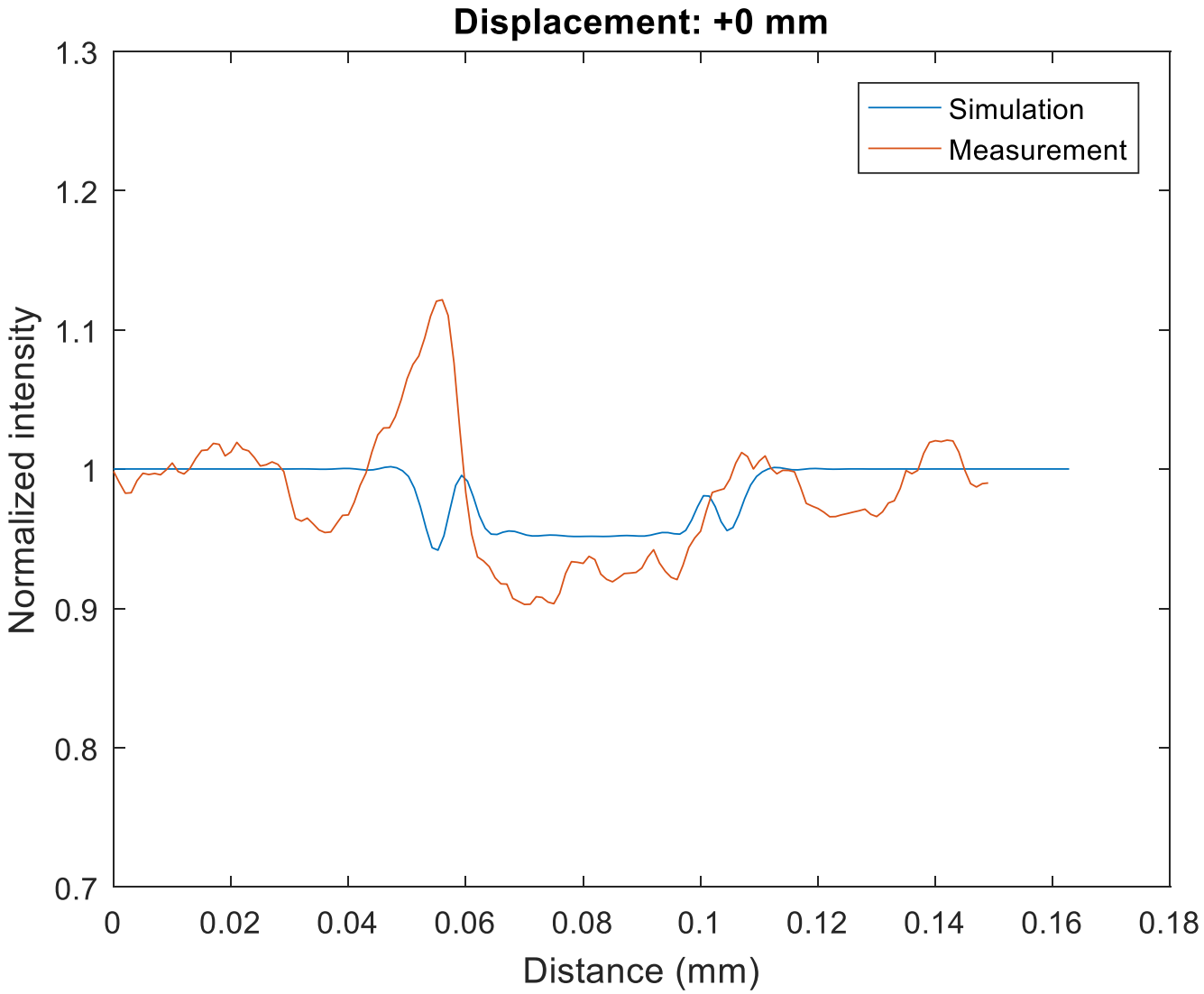
Simulation vs. measurement



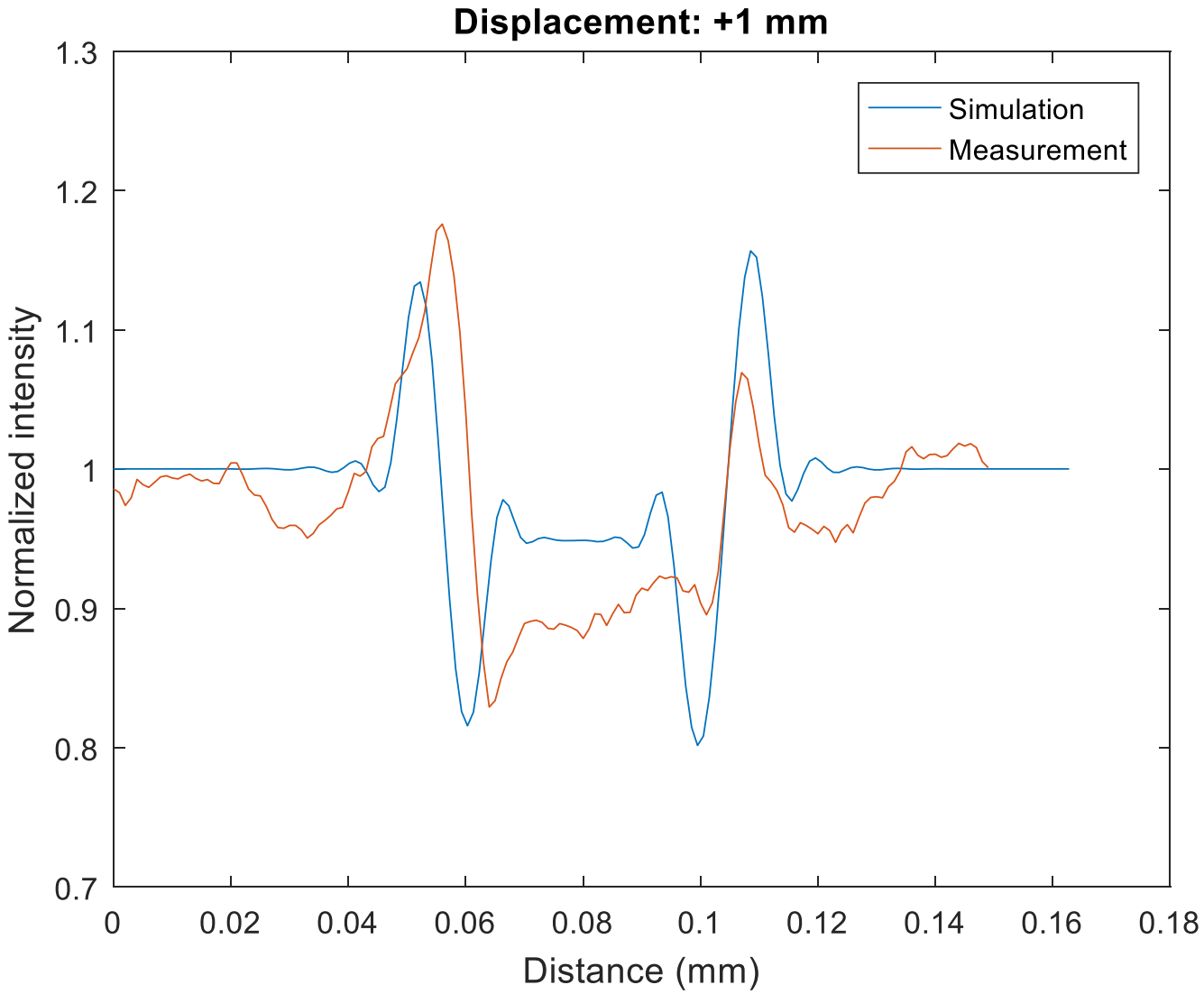
Simulation vs. measurement



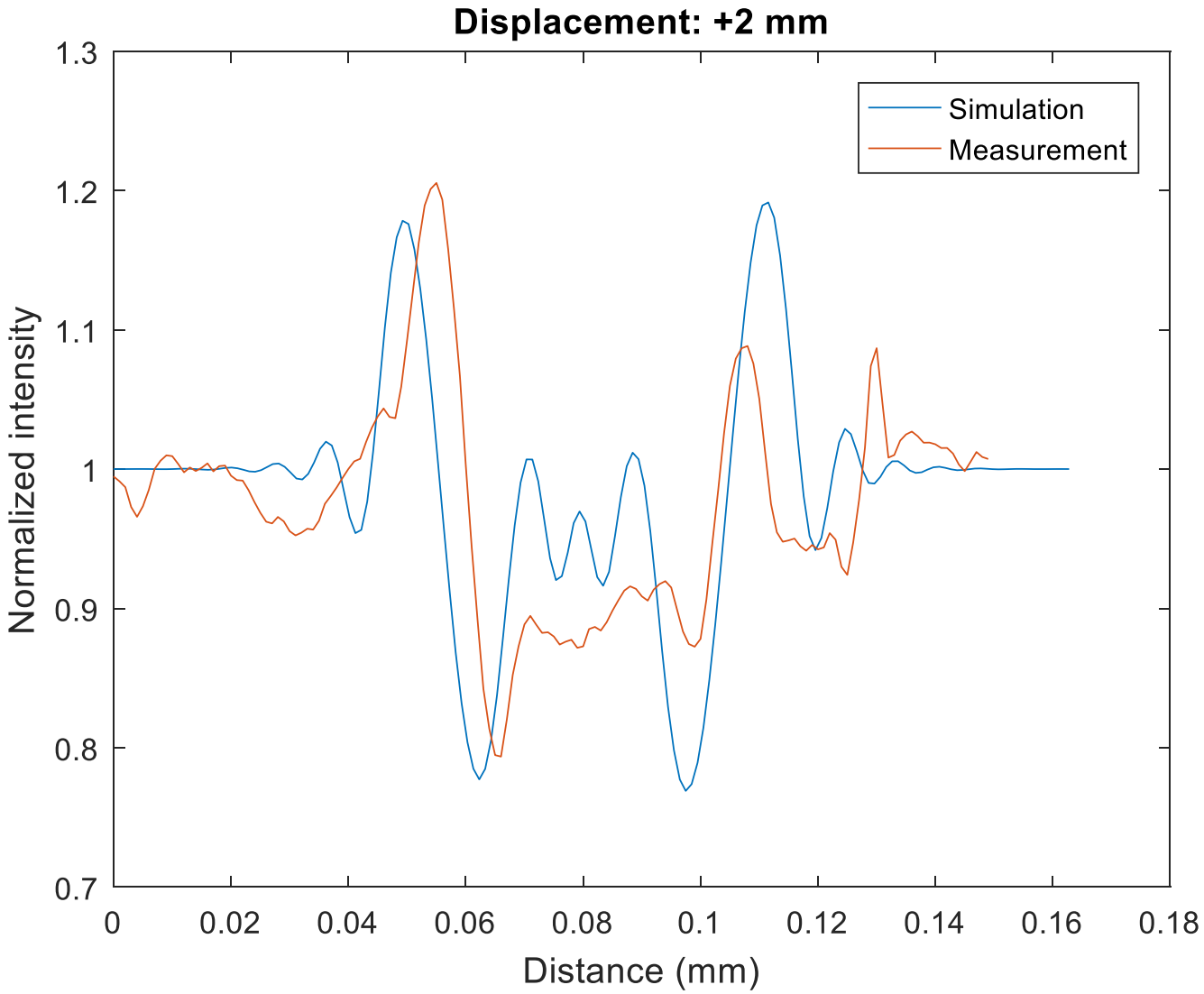
Simulation vs. measurement



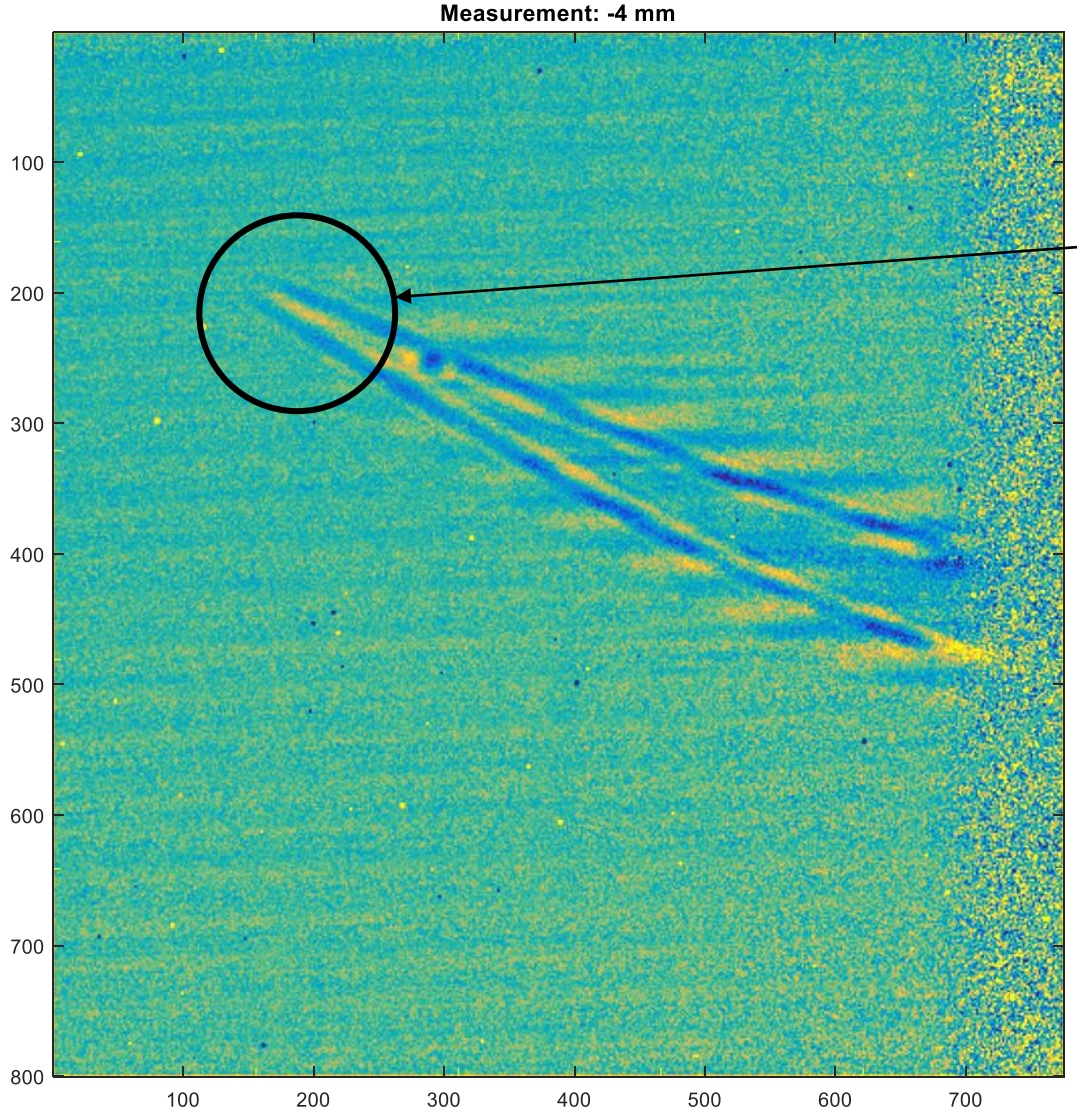
Simulation vs. measurement



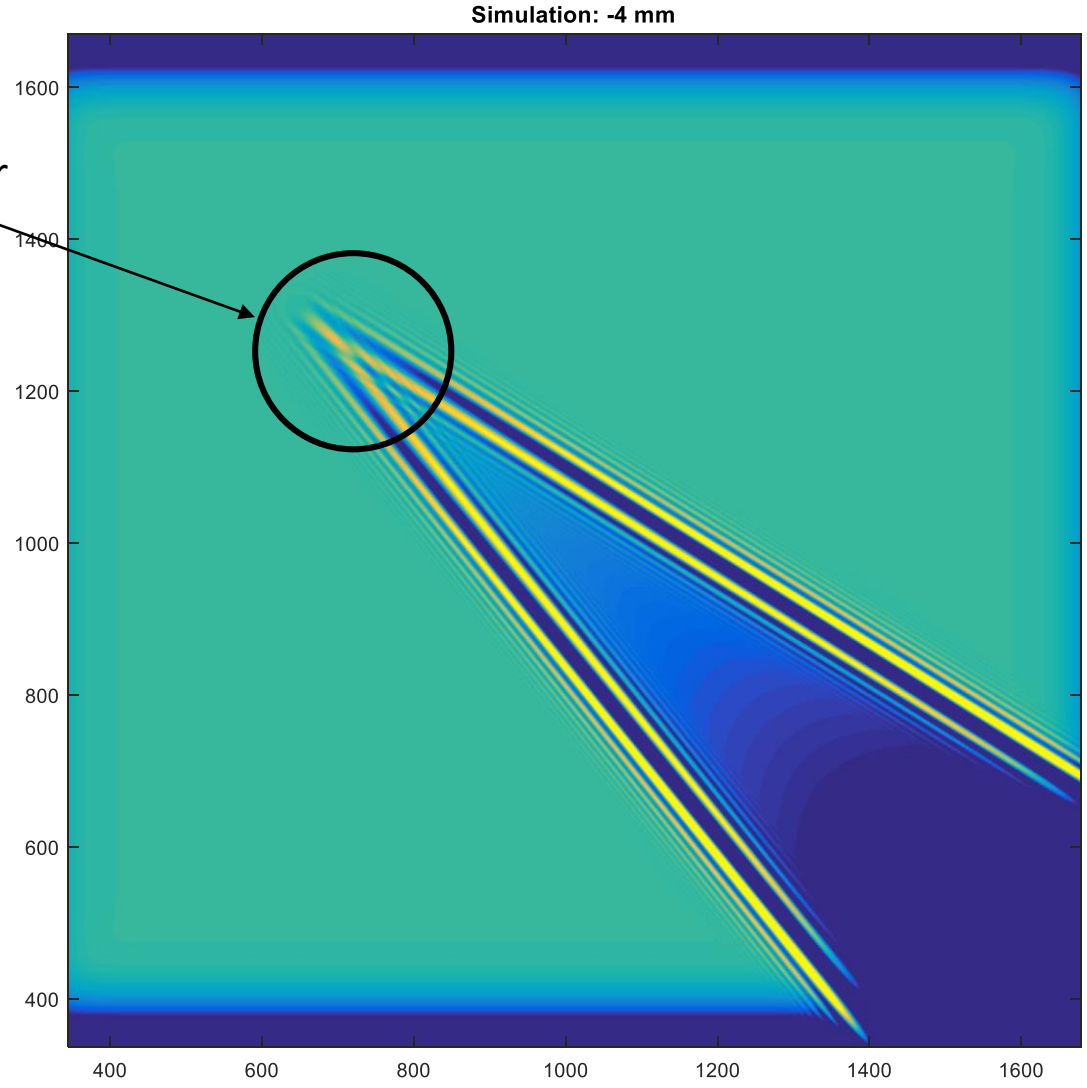
Simulation vs. measurement



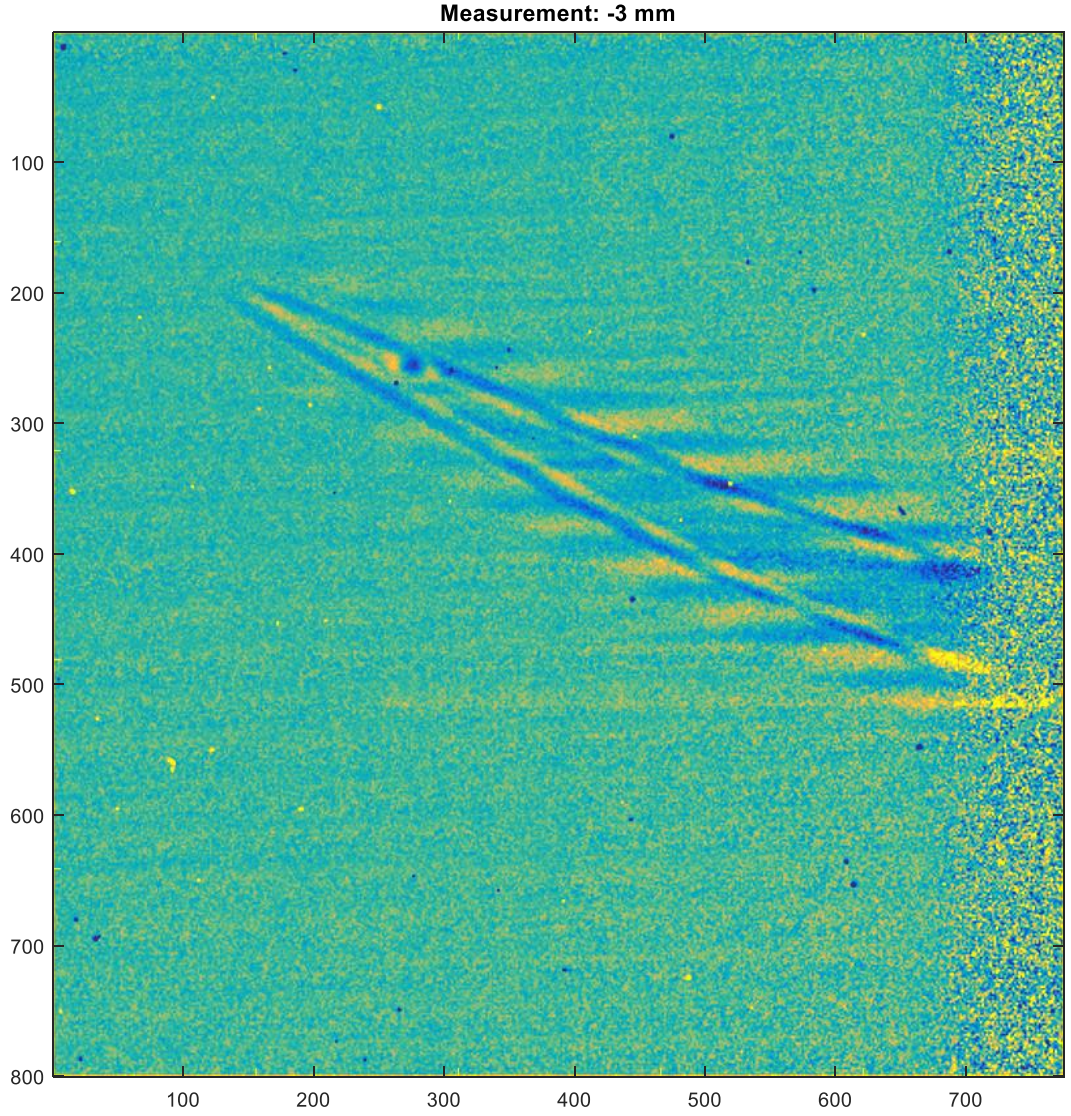
Measured and simulated images

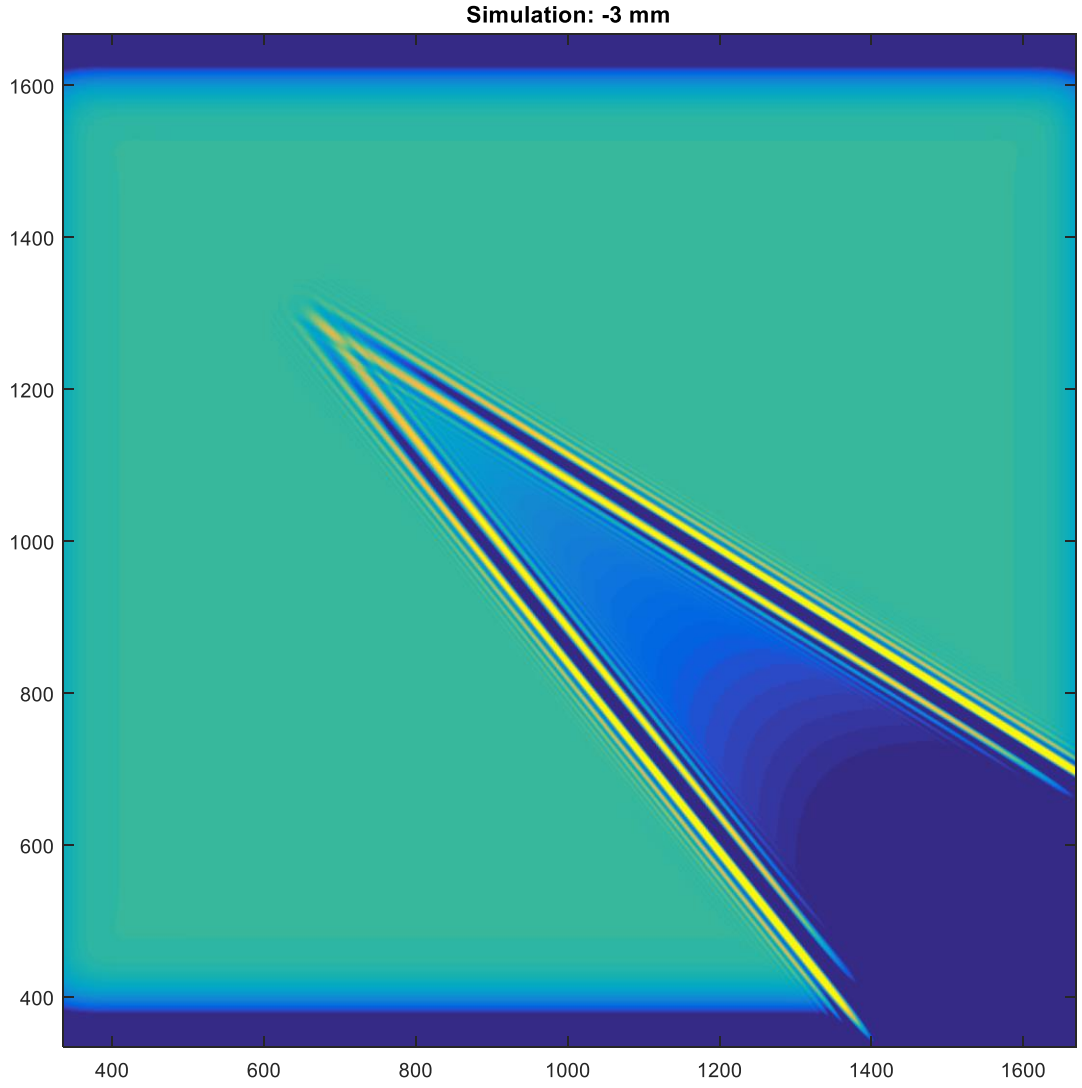


Very similar features!

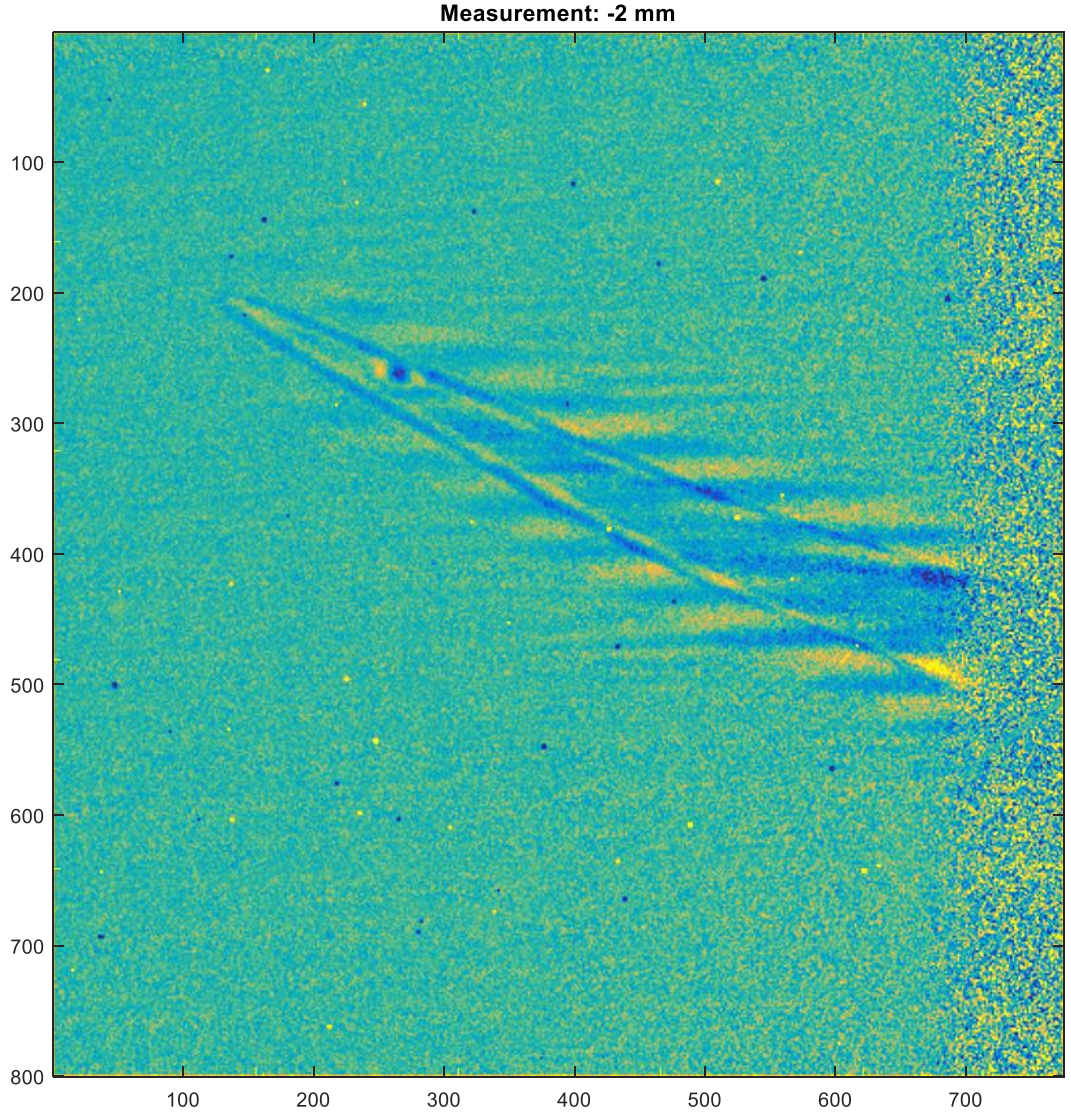


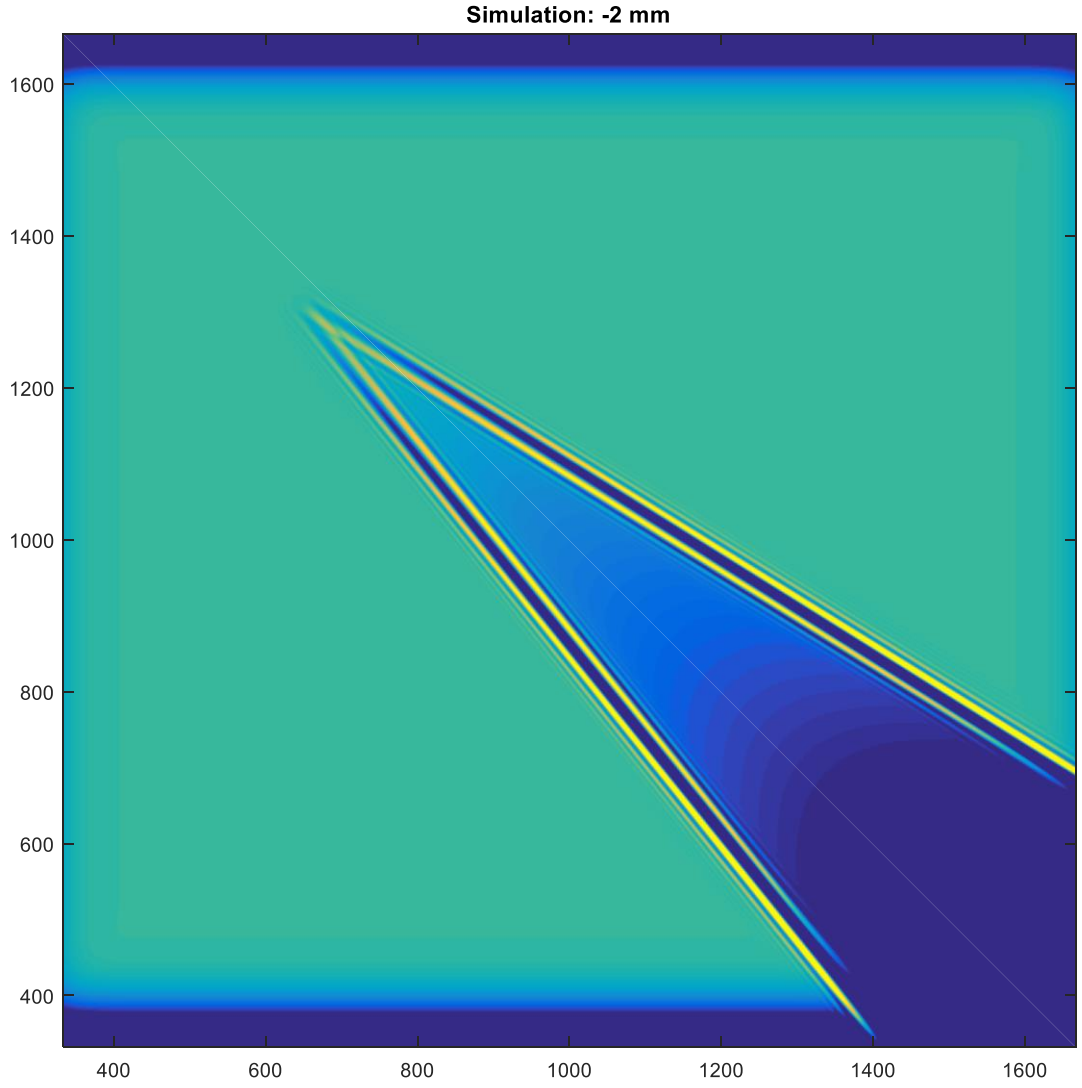
Measured and simulated images



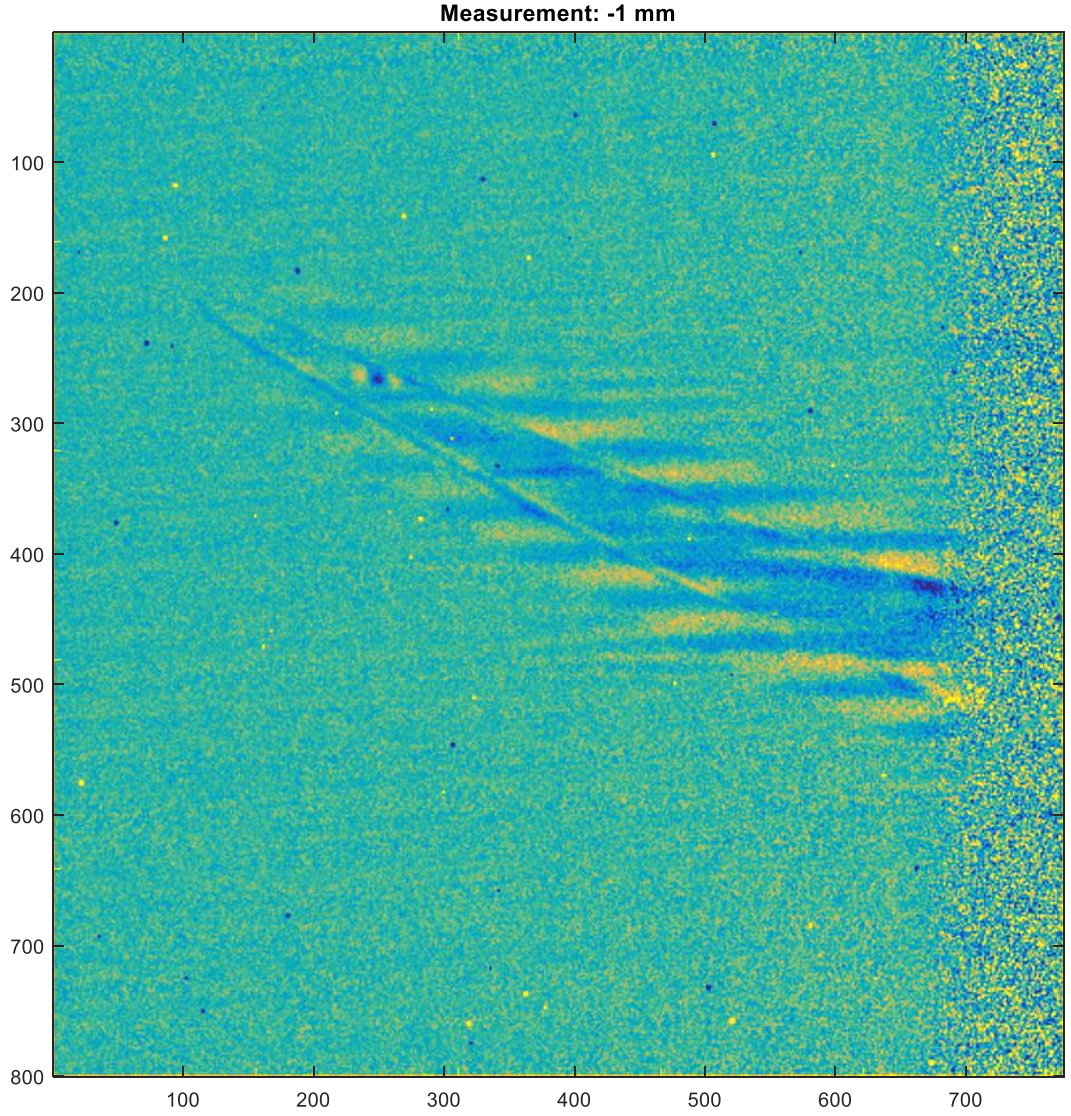


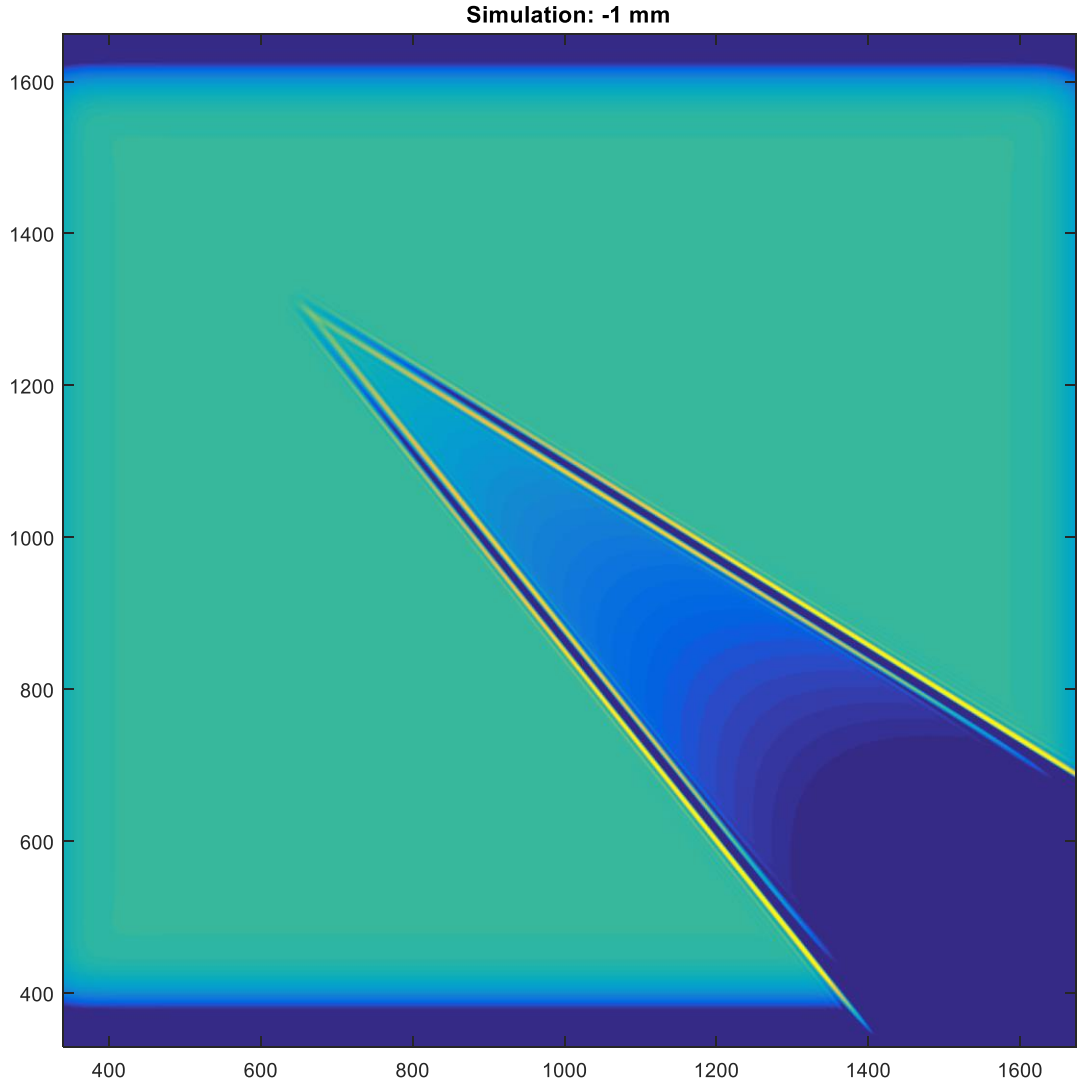
Measured and simulated images



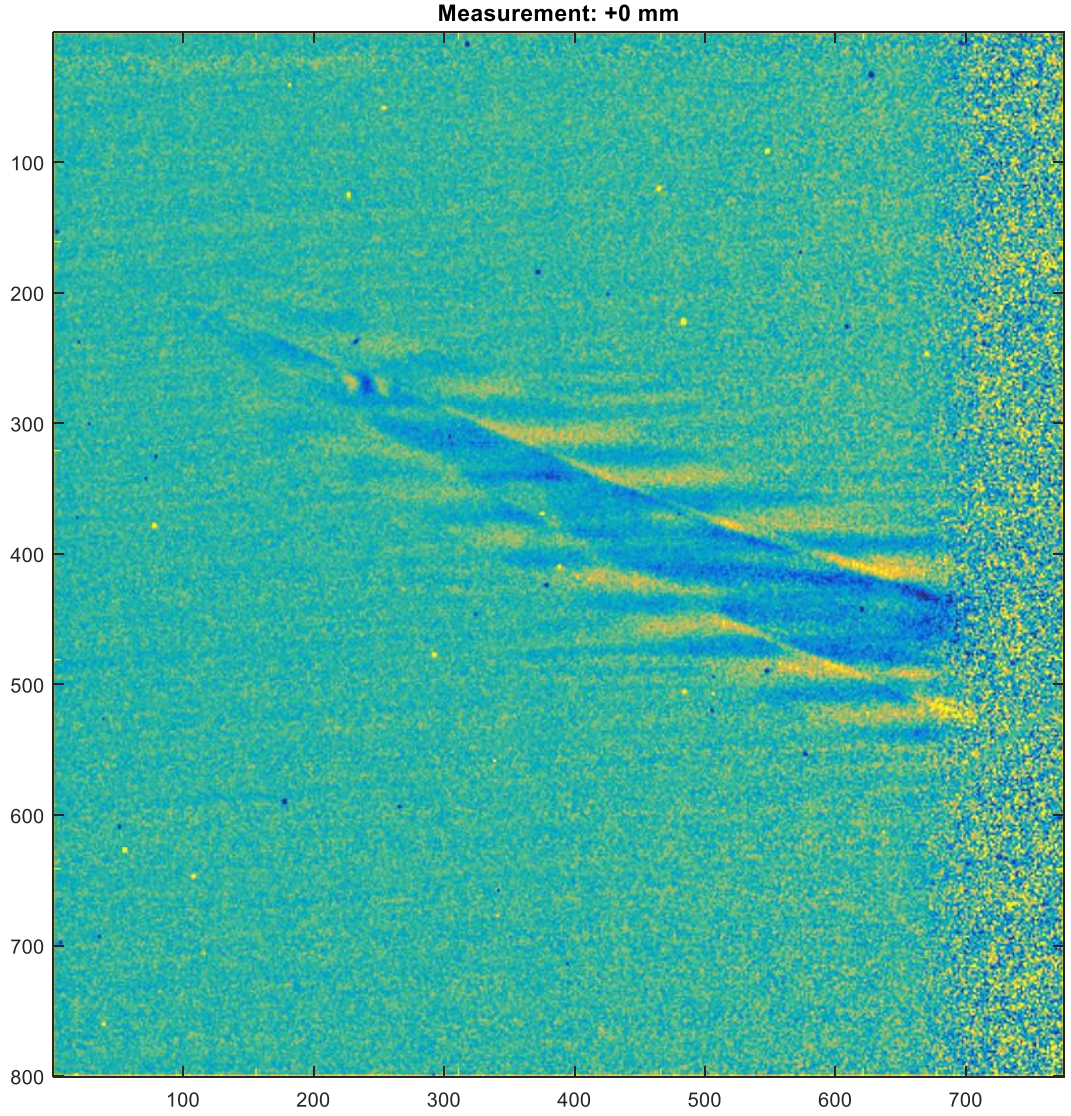


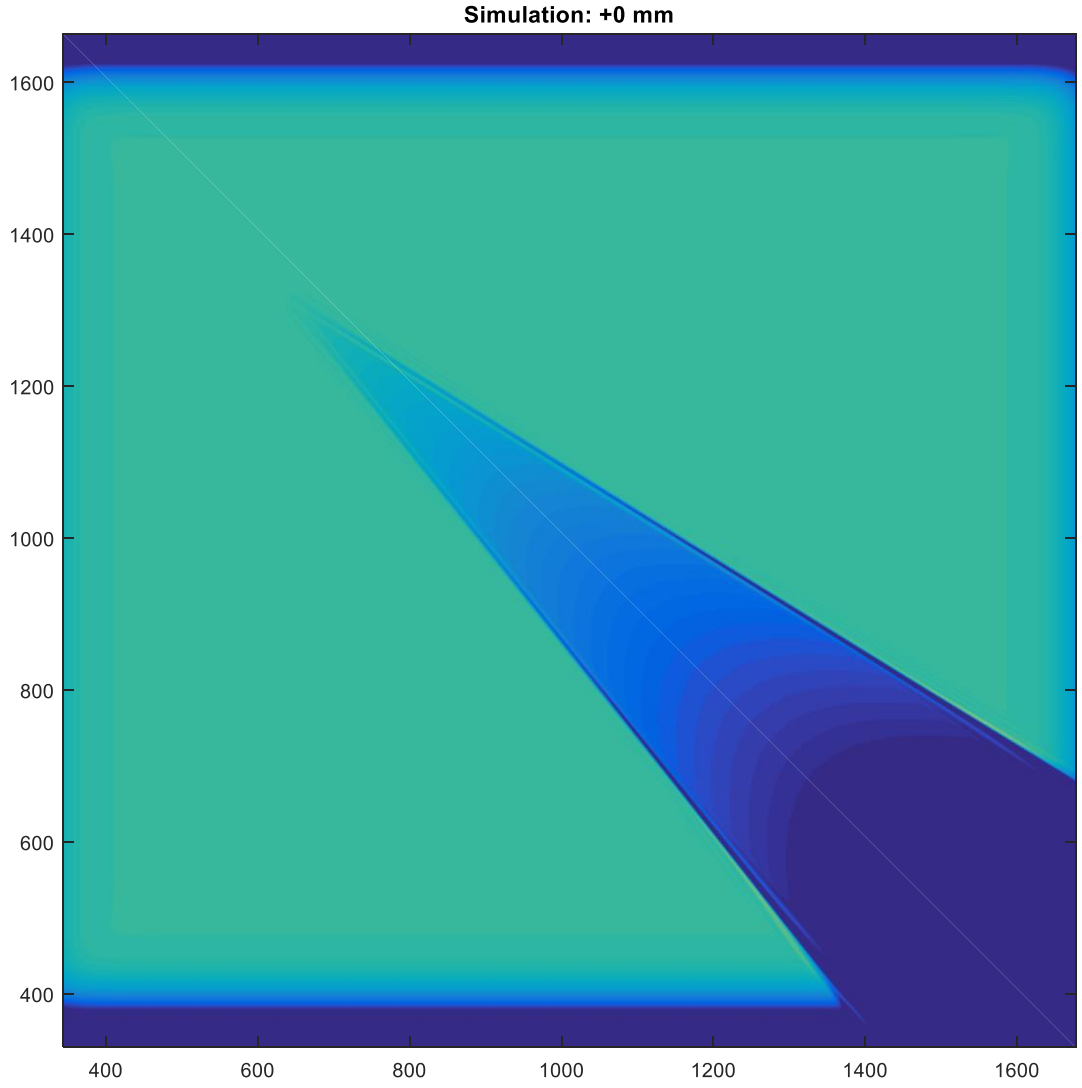
Measured and simulated images



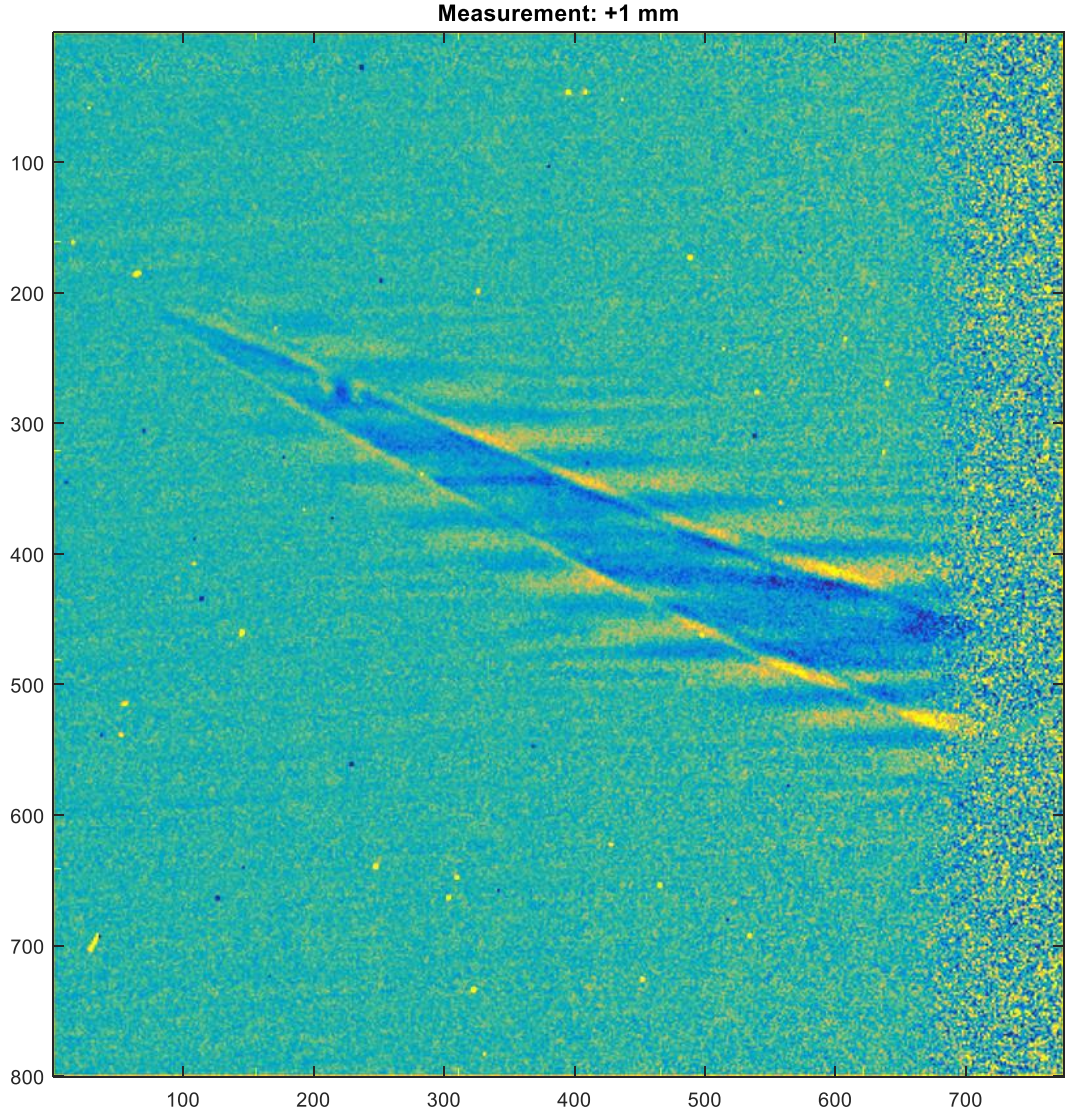


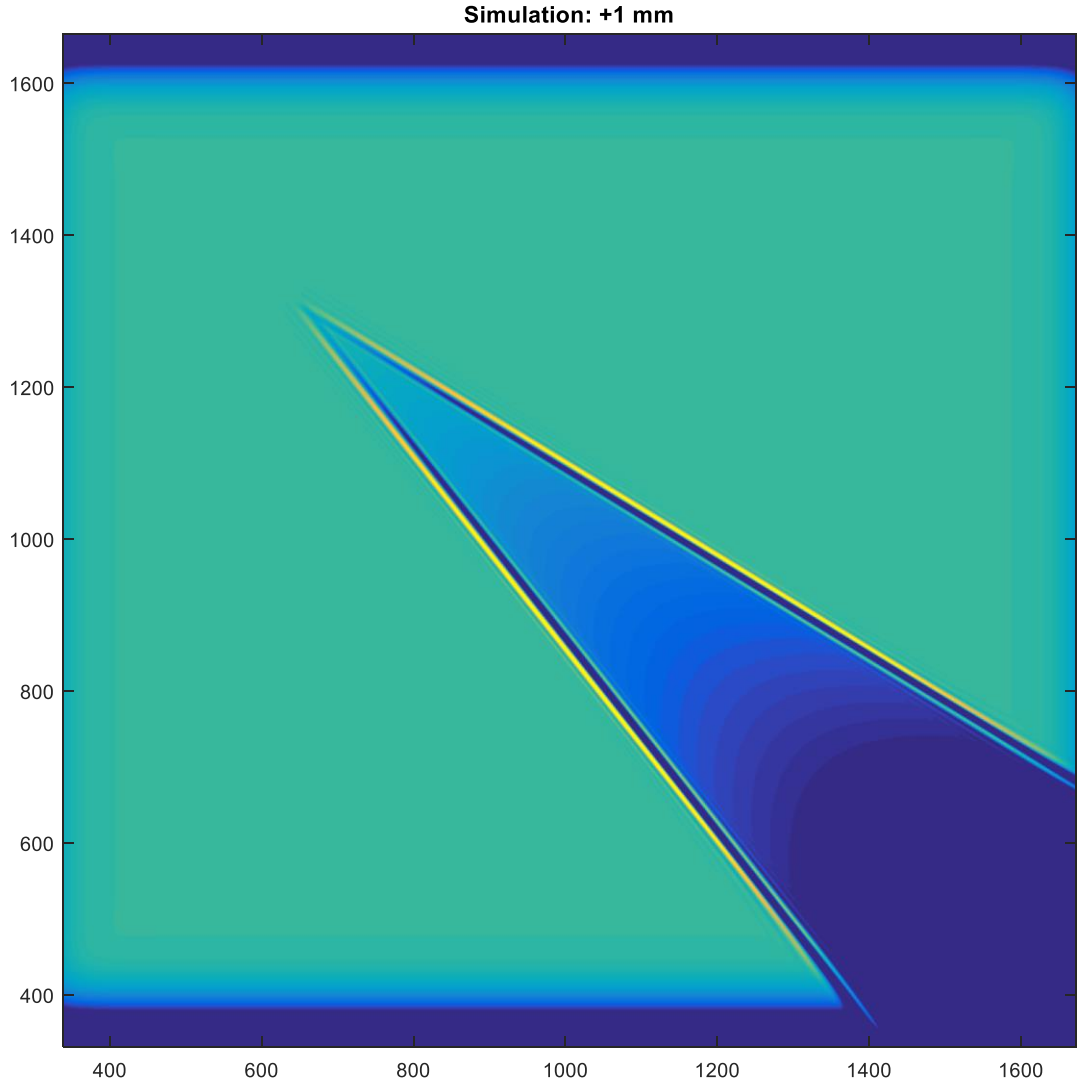
Measured and simulated images





Measured and simulated images





Measured and simulated images