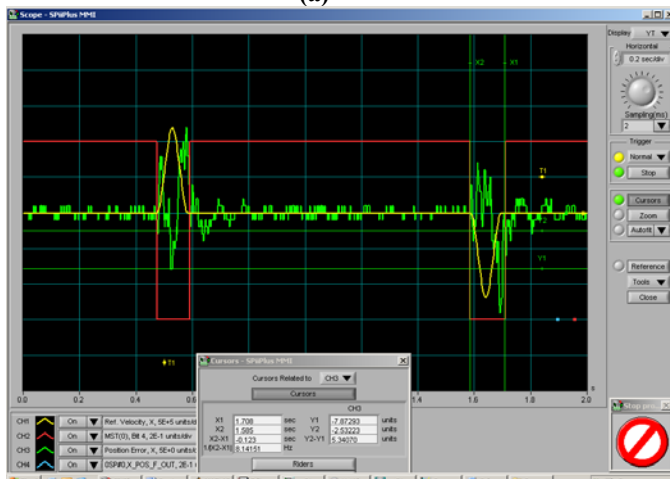
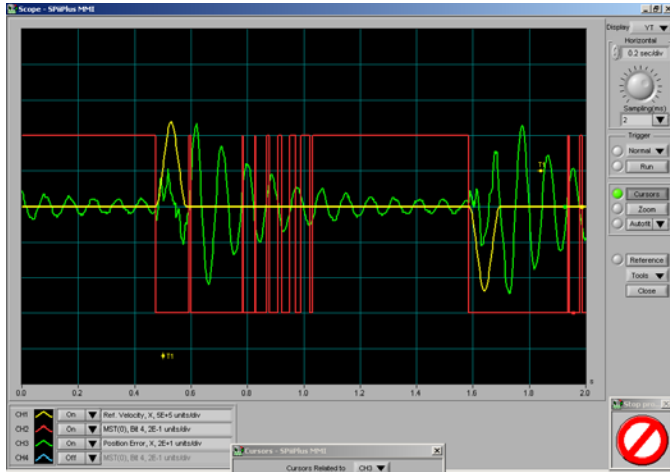


Frame Acceleration Compensation

The velocity profile (yellow), the position error (green), and the “in-position” bit (red) before and after the implementation of frame acceleration compensation. A significant improvement is observed, and the settling time is reduced almost to zero. (a) Performance before frame acceleration compensation was implemented. It can be seen that base vibration significantly influences the settling performance. (b) Performance after frame acceleration compensation was implemented. The oscillation in the position error is almost eliminated entirely.



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