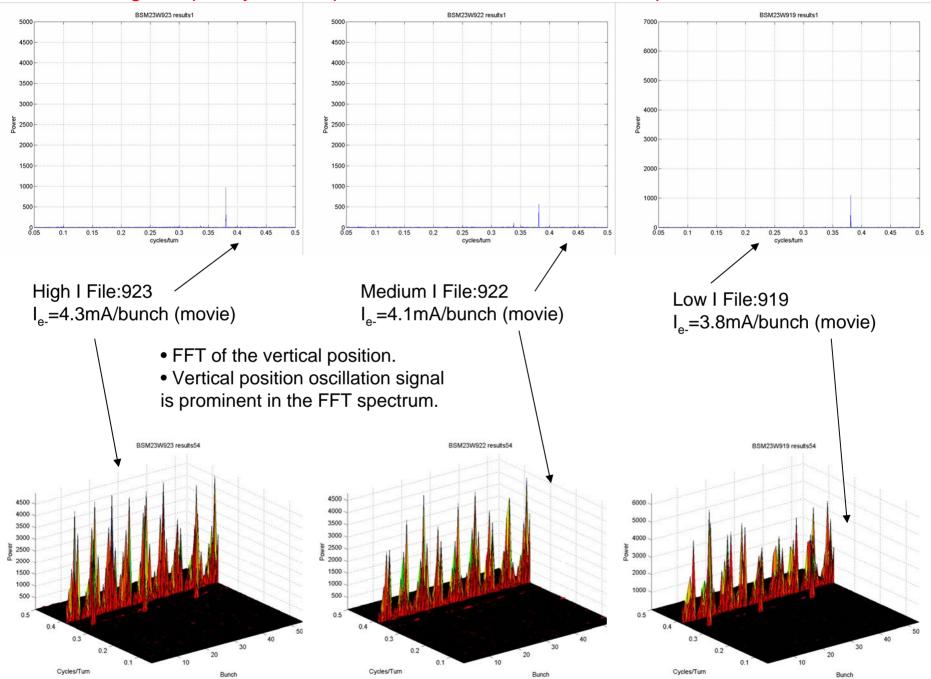
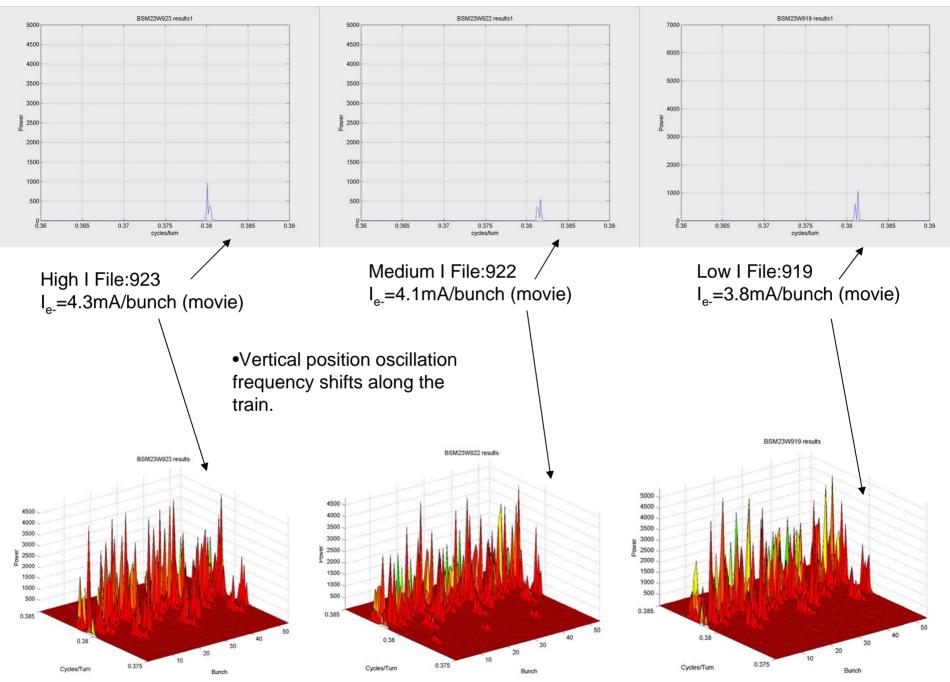


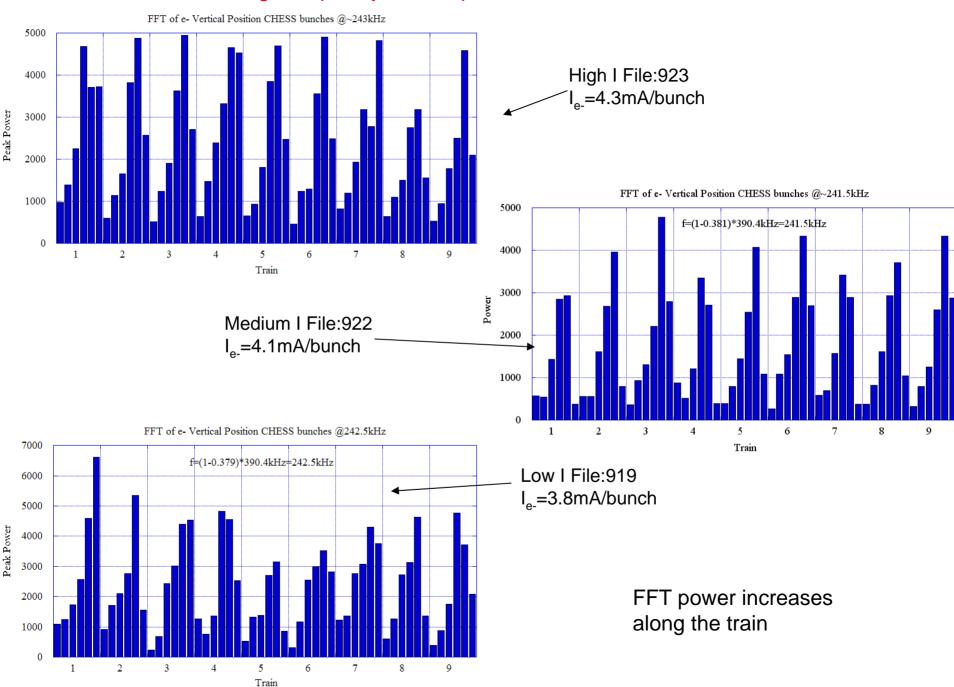
e- high frequency vertical position oscillation-FFT of vertical position for 9,000 turns



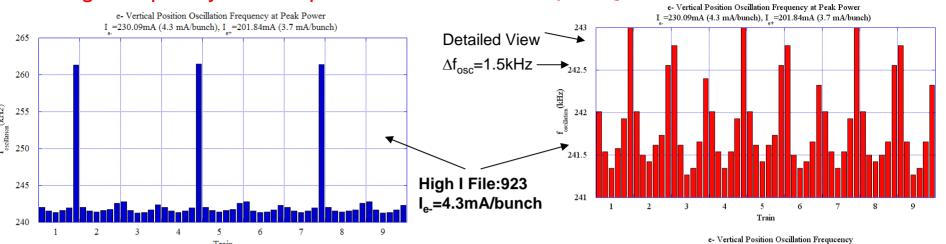
e- high frequency vertical position oscillation-close up of the oscillation frequency foscillation



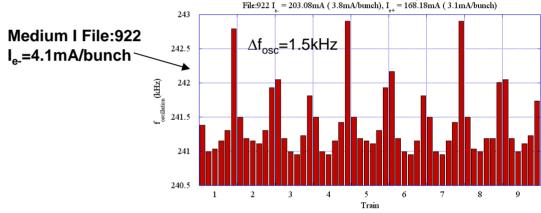
e- high frequency vertical position oscillation-FFT Power

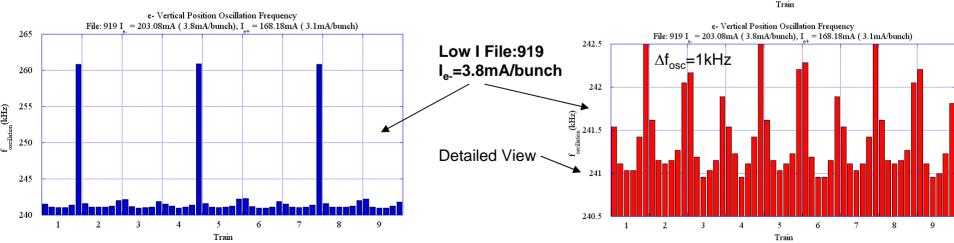


e- high frequency vertical position oscillation-Frequency of Oscillation

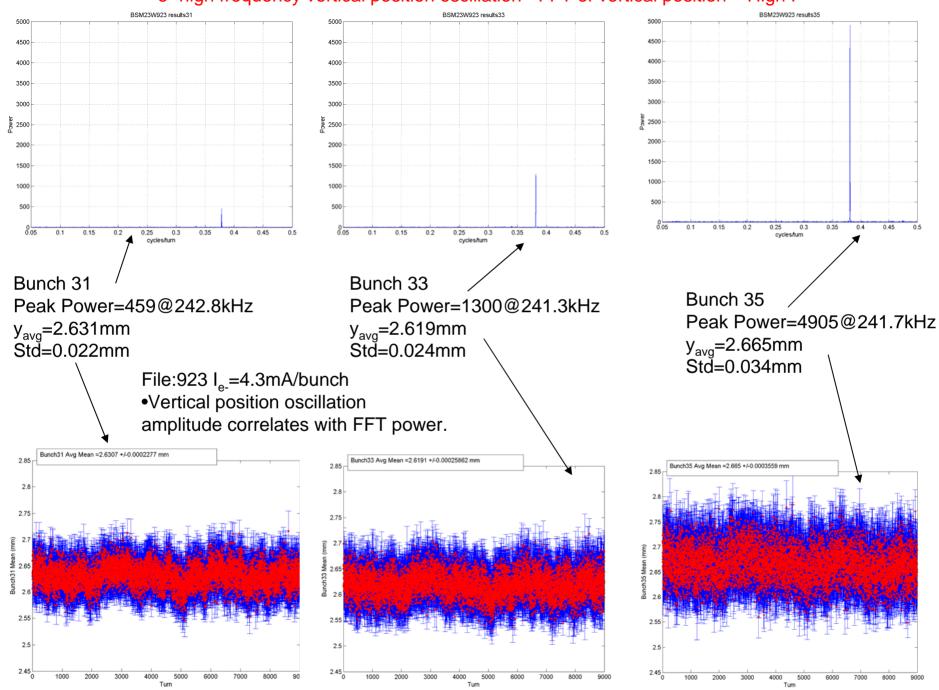


- Oscillation frequency shift, Δf_{osc} , along the trains is current dependent.
- Large frequency jump is occasionally noted

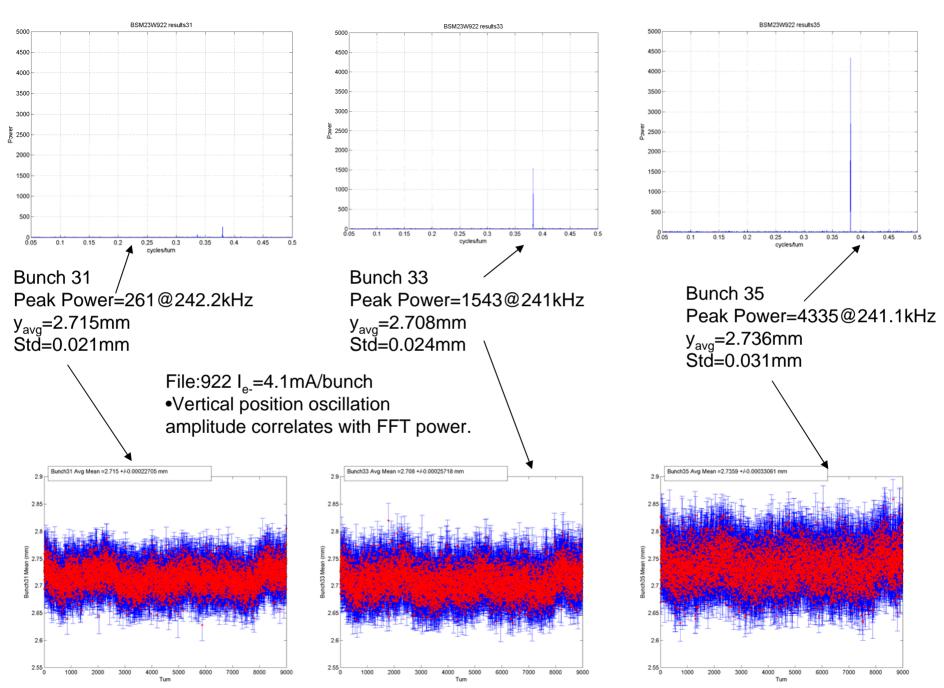




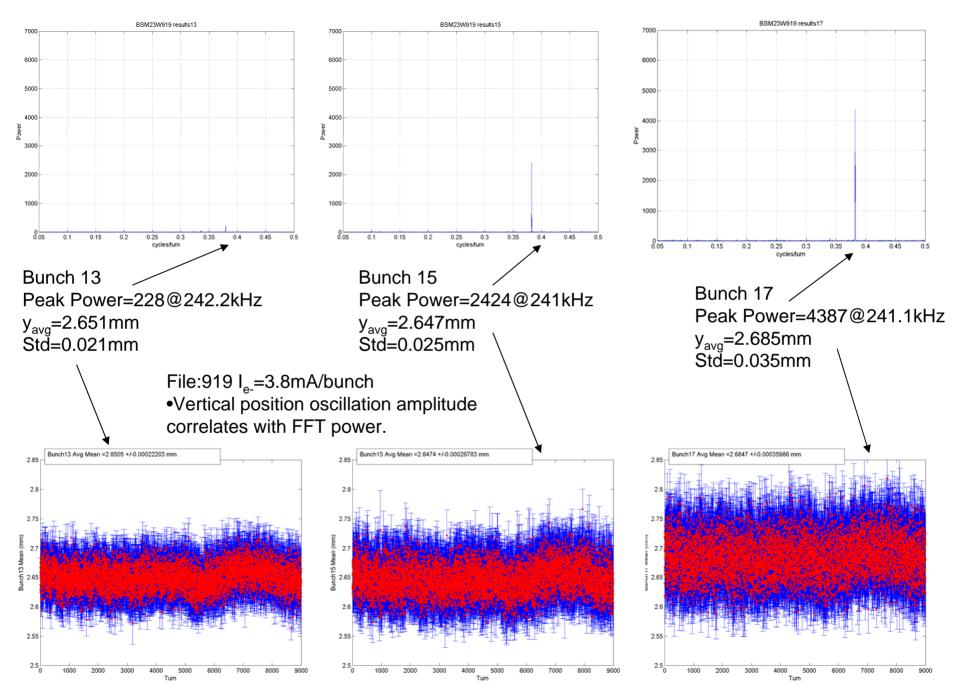
e- high frequency vertical position oscillation - FFT of vertical position - High I



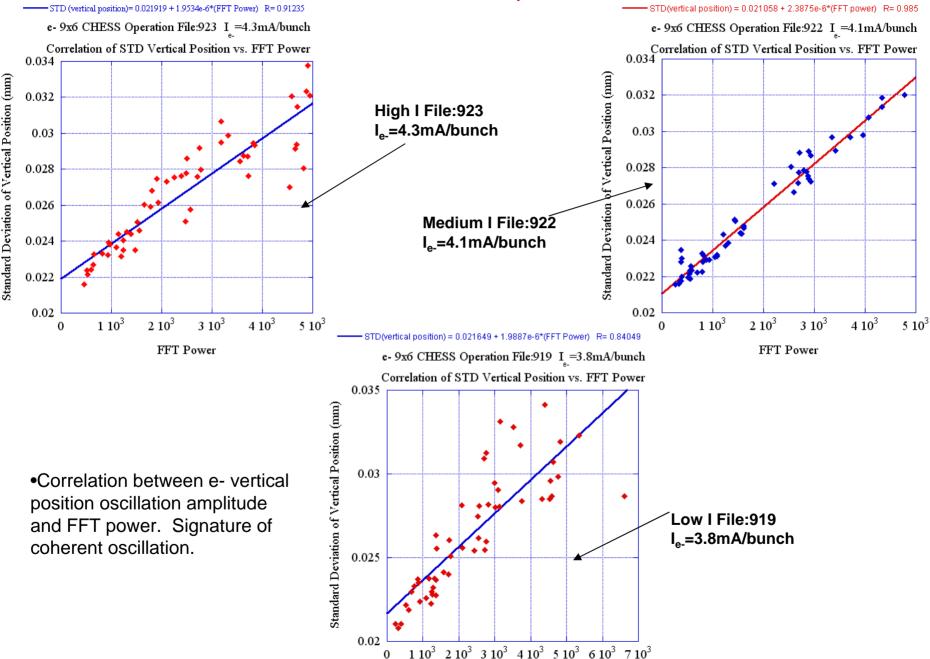
e- high frequency vertical position oscillation - FFT of vertical position - Medium I



e- high frequency vertical position oscillation - FFT of vertical position - Low I



e- vertical position oscillations amplitude correlation FFT Power



FFT Power