The XRD patterns were analyzed with X’pert software. The XRD patterns of ribbons were noisy because of high degree of thermal strain induced during producing by melt spinning process. Patterns (especially the amorphous ribbons) were smoothed with functions of polynomial type of cubic and lowpass with convolution range of 11 and 13 and fast Fourier with degree of smoothing of about 20. For searching peaks background was determined. After searching peaks the exact angles and d spacing were determined using peak list menu at top right corner. To determine the structure of the phases, search-match menu was used and then restrictions sets were edited.