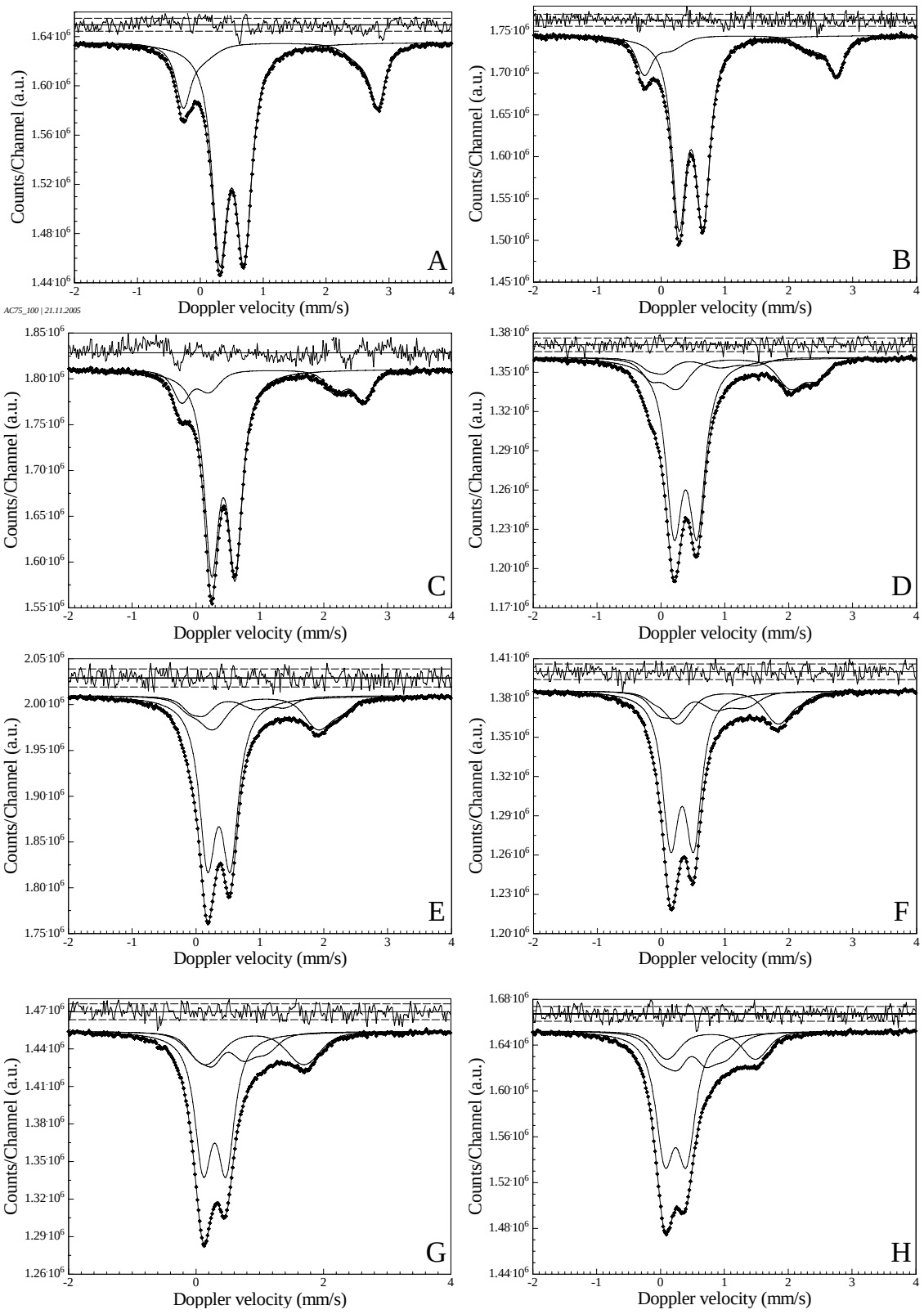

Figure 11: Typical ^{57}Fe Mössbauer spectra of sample Ae75#20 ($hd_{25}ae_{75}$) recorded at different temperatures and evaluated with the quadrupole splitting distribution approach: (a) T = 80 K, (b) T = 170 K, (c) T = 250 K, (d) T = 400 K, (e) T = 473 K and (f) T = 573 K.

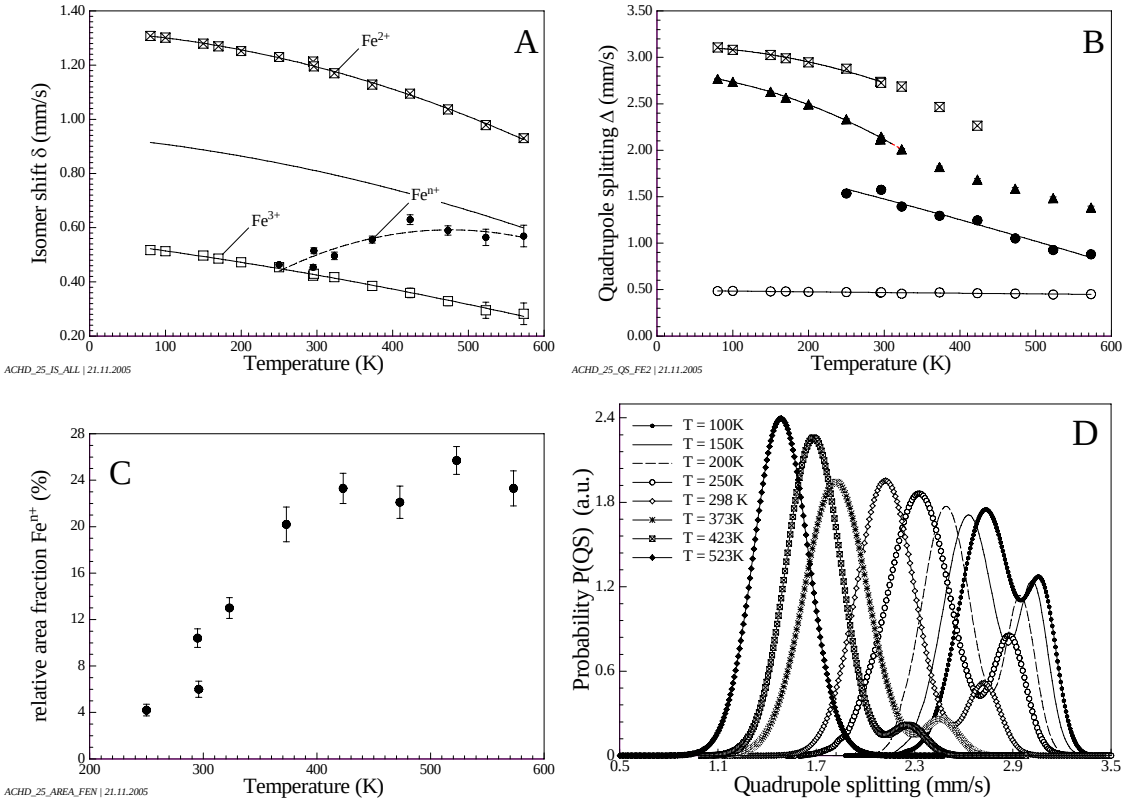

Figure 12: Variation of Mössbauer ^{57}Fe hyperfine parameters for sample Ae25#20 ($hd_{75}ae_{25}$) with temperature: (a) isomer shift for all Fe species, (b) quadrupole splitting for all Fe subcomponents (c) fraction of iron in the Fe^{n+} state (for total iron = 100 %); (d) variation of Fe^{2+} quadrupole splitting distribution curves with temperature. Error bars are smaller than the symbols if not visible. Lines fitted to the data are guides to the eye.