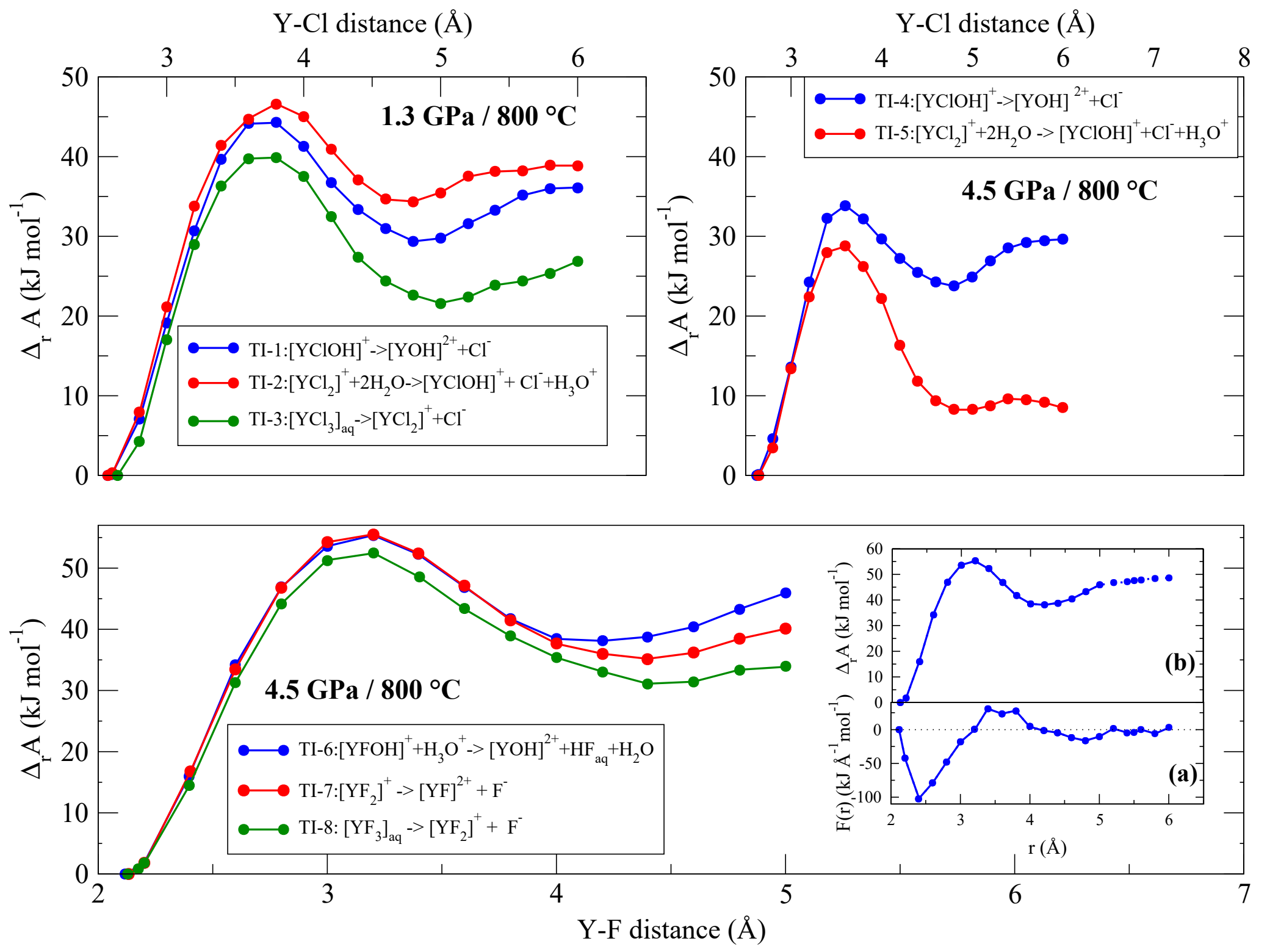
Y-Cl distance (Å)
1.3 GPa / 800 °C
$\Delta_r A$ (kJ mol^{-1})
TI-1:[YClOH]$^+$->[YOH]$^{2+}$+Cl$^-$
TI-2:[YCl$_2$]$^+$+2H$_2$O->[YClOH]$^+$+ Cl$^-$+H$_3$O$^+$
TI-3:[YCl$_3$]$_{aq}$->[YCl$_2$]$^+$+Cl$^-$
Y-Cl distance (Å)
TI-4:[YClOH]$^+$->[YOH] $^{2+}$+Cl$^-$
TI-5:[YCl$_2$]$^+$+2H$_2$O -> [YClOH]$^+$+Cl$^-$+H$_3$O$^+$
4.5 GPa / 800 °C
$\Delta_r A$ (kJ mol^{-1})
4.5 GPa / 800 °C
TI-6:[YFOH]$^+$+H$_3$O$^+$-> [YOH]$^{2+}$+HF$_{aq}$+H$_2$O
TI-7:[YF$_2$]$^+$ -> [YF]$^{2+}$ + F$^-$
TI-8: [YF$_3$]$_{aq}$ -> [YF$_2$]$^+$ + F$^-$
$\Delta_r A$ (kJ mol^{-1})
Y-F distance (Å)
(b)
(a)
$\Delta_r A$ (kJ mol^{-1})
F(r) (kJ Å^{-1}mol^{-1})
r (Å)