

Figure 2. The refractive and absorption index at room temperature of the binary mixtures 30, 54 and 64 wt% HNO₃/H₂O.

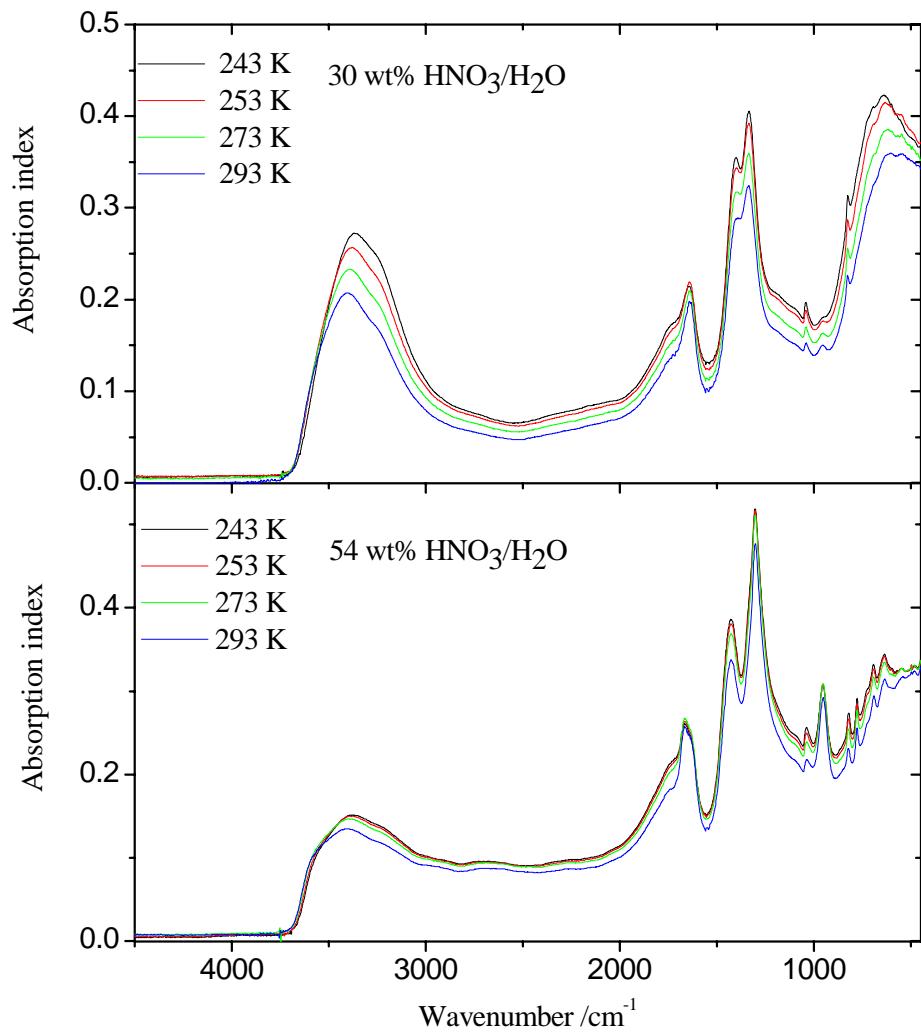


Figure 3. The variation in the absorption index of a 30 wt% and 54 wt% HNO₃/H₂O mixtures due to change in the temperature.

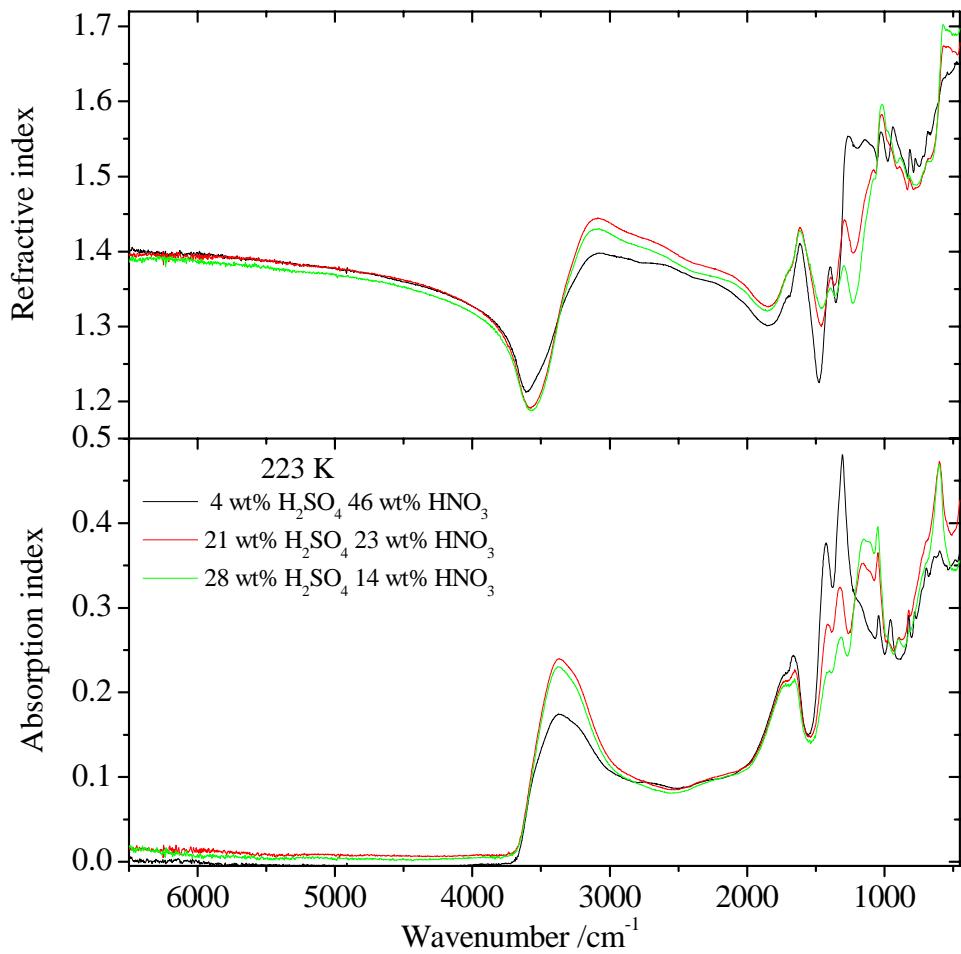


Figure 5. The refractive and absorption index at 223K of 3 ternary H₂SO₄/HNO₃/H₂O mixtures studied.

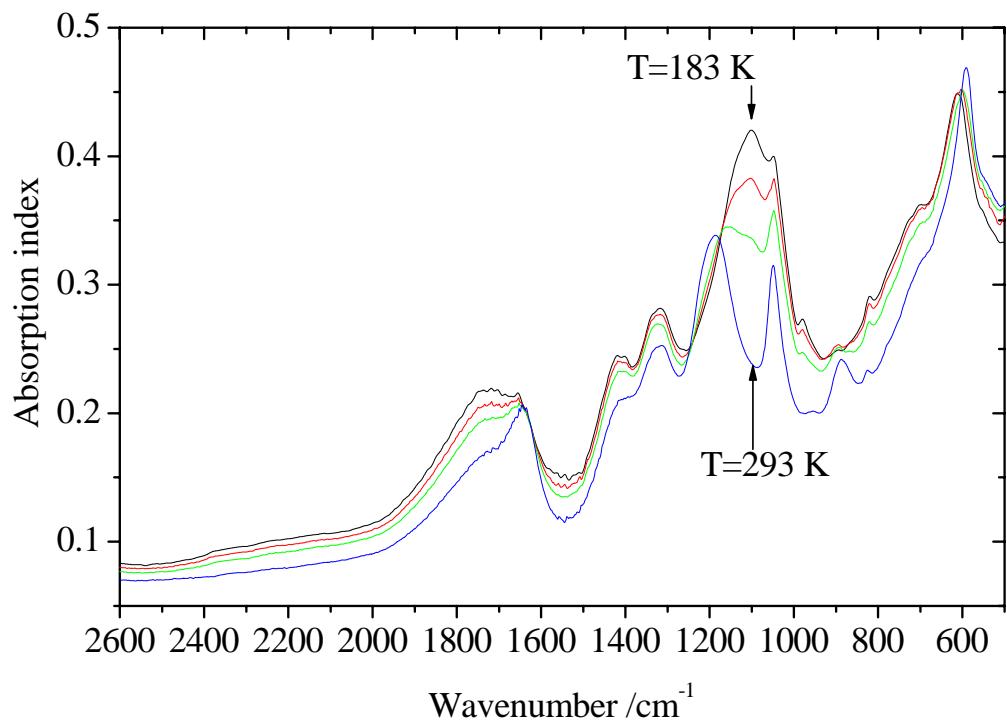


Figure 7. The absorption index of the ternary mixture 25 wt% H_2SO_4 , 17 wt% HNO_3 , 58 wt% H_2O at the temperatures 293, 223, 203, and 183 K.

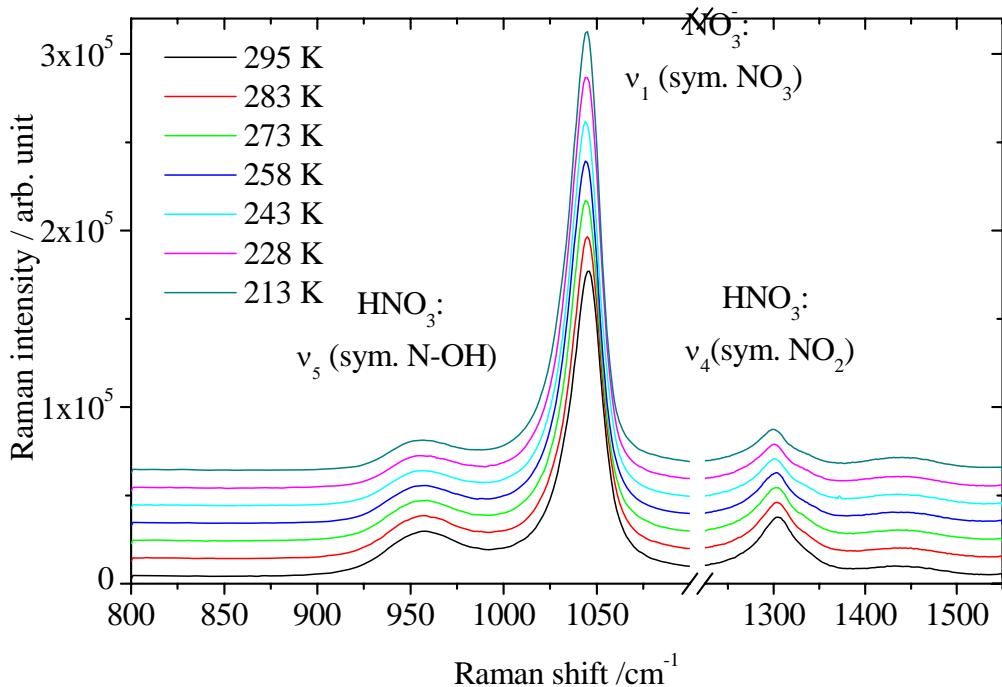


Figure 8. Raman spectra of 54 wt% $\text{HNO}_3/\text{H}_2\text{O}$ at 7 different temperatures.

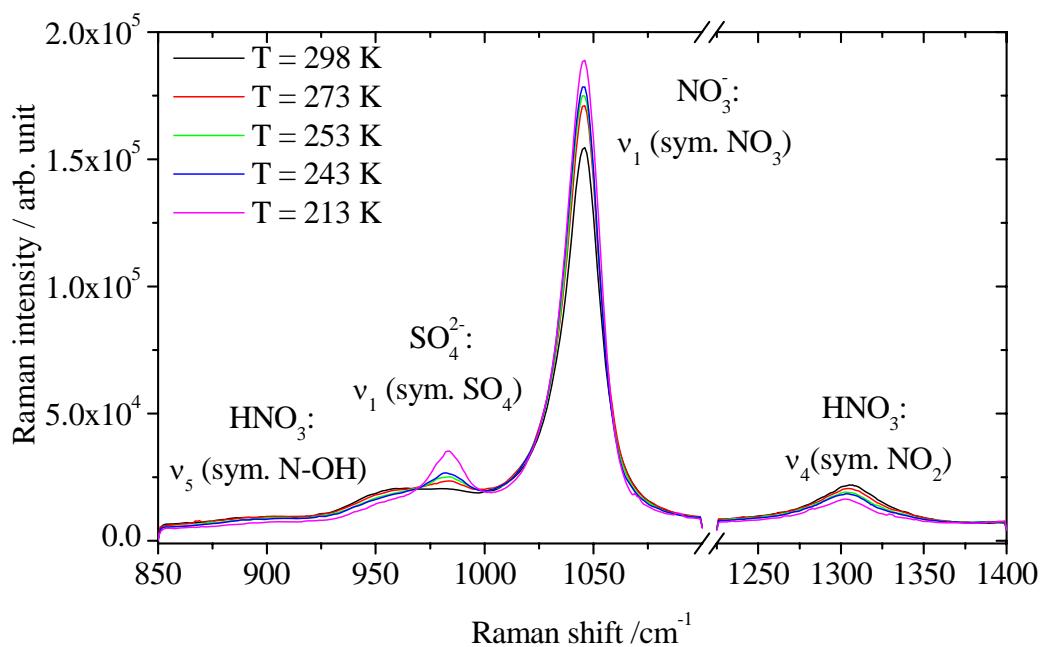


Figure 10. Raman spectra of 14 wt% H_2SO_4 46 wt% HNO_3 40 wt% H_2O at 5 different temperatures.