Chapter 13 section 13.4 Exam

- 1. **(6 Point)** An aqueous solution is 22.0% rubidium chloride by mass. The density of the solution is 1.127 g/mL. What are the molality, the mole fraction, and the molarity of the solution?
- 2. **(6 points)** A sulfuric acid solution containing 571.6 g of H₂SO₄ per liter of solution has a density of 1.329 g/cm³. Calculate the:
 - (a) Mass percentage of this solution
 - (b) The mole fraction of this solution
 - (c) The molarity of H₂SO₄ of this solution