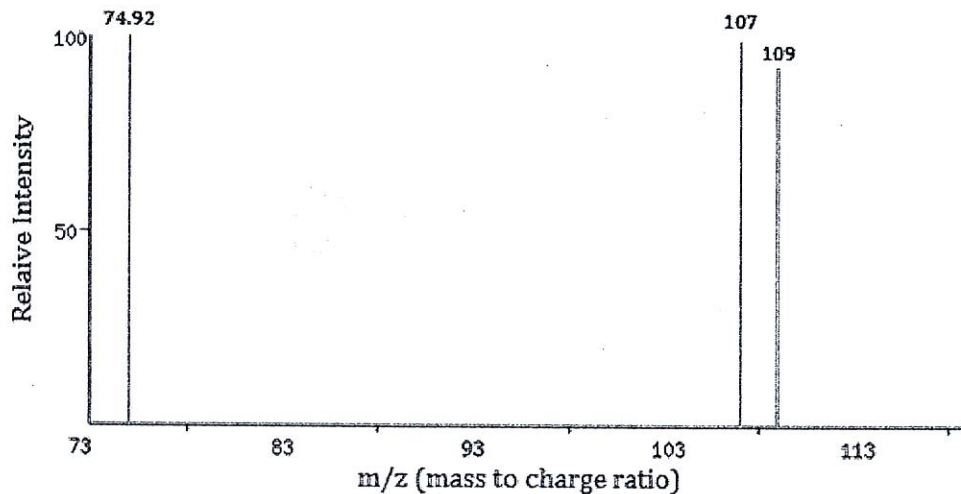


CW/HW

A). The mass spectrum below represents a mixture of elements. What elements are present? Justify your answer. (Check your answer using the websites listed above.)



Mass Spectrometry

and  
p70-77

# 12, 15, 26,  
32, 34, 38, 44,  
48, 50, 60, 66,  
68, 70, 100

B) The mass spectrum of strontium gives four peaks. Use the data below to answer the following questions:

m/z	84	86	87	88
Relative intensity	0.68	11.94	8.48	100.00

a) Sketch the mass spectrum that would be obtained from naturally occurring strontium.

b) Label each peak on the mass spectrum with the appropriate nuclide symbols.

c) Calculate the average atomic mass of strontium in the sample rounded to two decimal places.