

Q: Are the samples from the suspect's house and the crime scene made of the same substance?

C: The samples from the suspect's house and the crime scene are made of different substances.

E: The densities of the samples from each location are different. The average density of the samples from the crime scene (odd samples) is 1.39 g/cm^3 , while the samples from the suspect's house (even samples) have an average density of 1.16 g/cm^3 .

J: Density is a measure of how closely packed the particles are in a substance. Each substance has a characteristic density, so samples of the same substance will have equal densities. Density does not depend on the amount of the sample, so comparing the densities of various samples should indicate whether they are made of the same substance.

