

# **Liquid Chromatography and the Different Ionization Methods**

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A brief history of liquid chromatography will be given at the start of the presentation. The difference between high-performance liquid chromatography (HPLC) and ultra-performance liquid chromatography (UPLC) will then be discussed. The three different ionization modes that our machine will do will be talked about as well which include: electro-spray ionization (ESI), atmospheric pressure photo-ionization (APPI), and atmospheric pressure chemical ionization (APCI). These three ionization modes all have two different modes, positive and negative which will be discussed. Change in parameters is something that can be done in order to obtain better data. This will be discussed in brief detail.