

SYSTEMS AND METHODS FOR MASS CALIBRATION

ABSTRACT

A method includes producing ions from one or more calibrant species and delivering the ions to a mass analyzer, and measuring a first set of mass related physical values for the ions from the one or more calibrant species. The method further includes producing ions from a sample and delivering the ions to a mass analyzer, and measuring a second mass related physical value for a first sample ion species. The first sample ion species has a mass-to-charge ratio outside of the range of the mass-to-charge ratios of the calibrant ion species. Additionally, the method includes calculating a calibration curve based on the first set of mass related physical values and second mass related physical value, and modifying at least one instrument parameter based on the calibration curve.

Figure 1