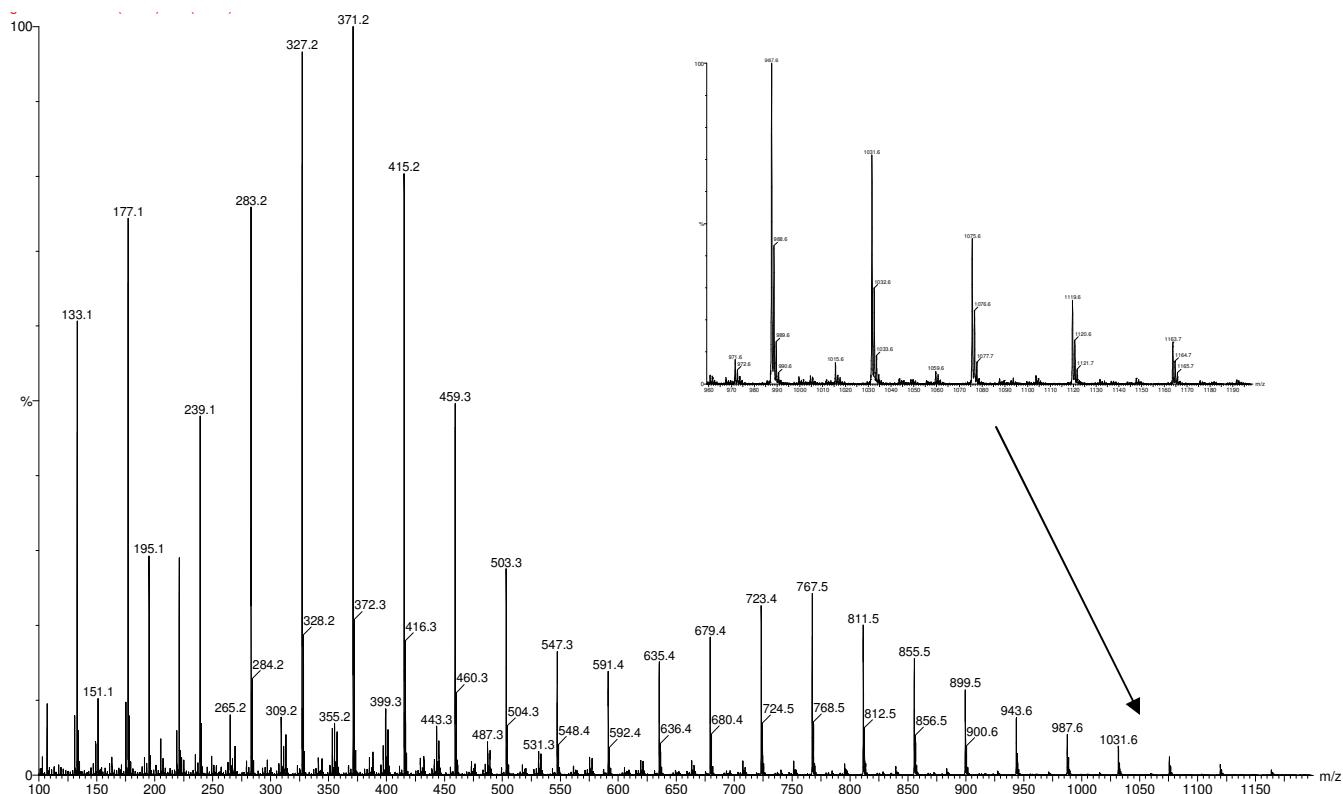
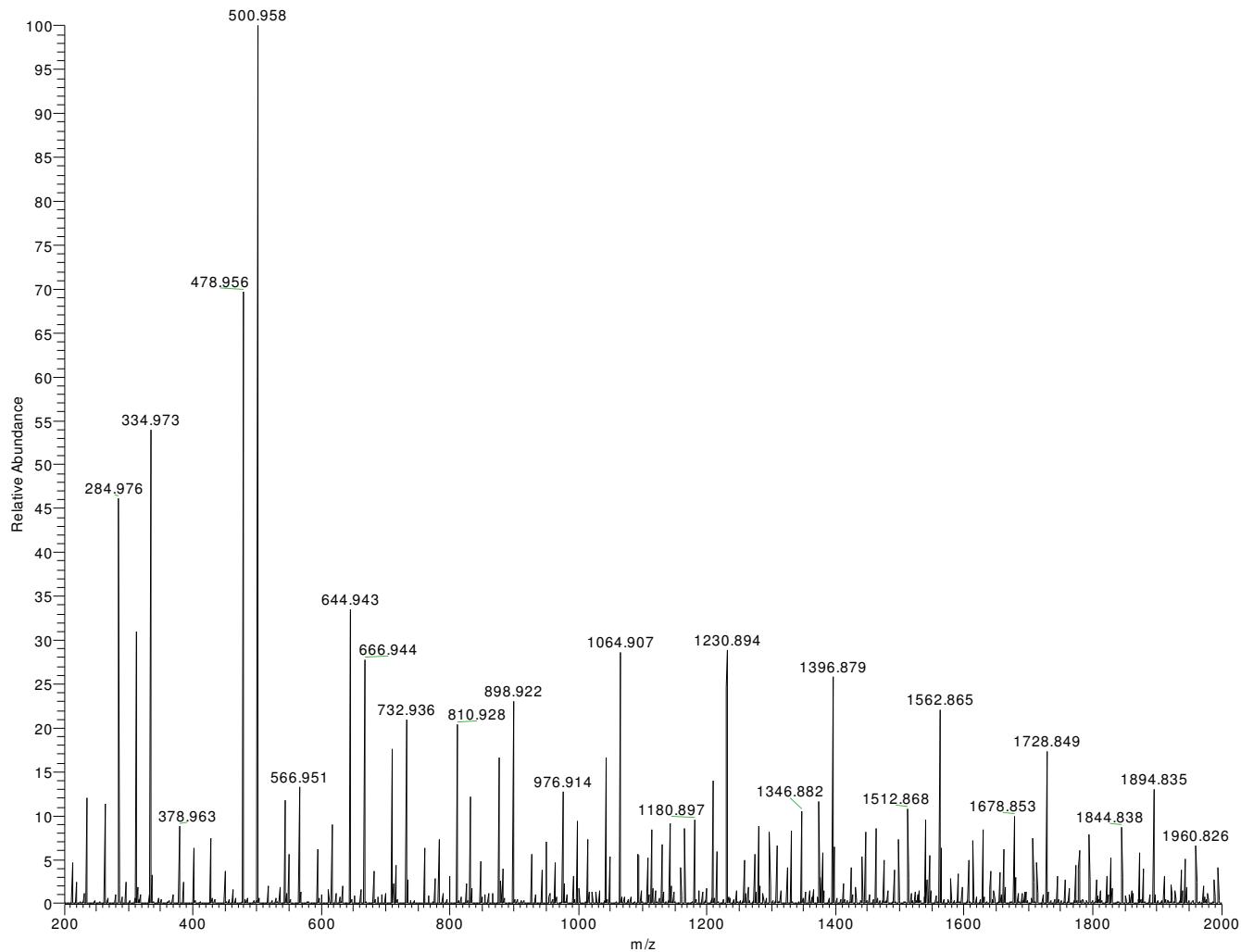


Instrument Calibration using ASAP

The calibration of high resolution mass spectrometers and time of flight instruments are required on a daily basis to maintain the high mass accuracy needed for sample analysis. The ASAP probe has been found to be a useful tool for the rapid verification of or calibration of these types of instruments. Below are calibration spectra of a two mixtures 1) a three average molecular weight PEG's 300, 600, and 1000 in methanol and 2) a Ultramark 3200 solution in acetonitrile. The concentration of the solutions were at the 1000ppm level. In each case 1 microliter of solution was analyzed to produce the spectra. The PEG calibration was preformed on a Waters QTOF 1. A Thermo Fischer Orbitrap was used for the Ultramark calibration.



PEG Spectrum Generated on Waters QTOF 1



Ultramark 3200 spectrum on Thermo Fischer Orbitrap