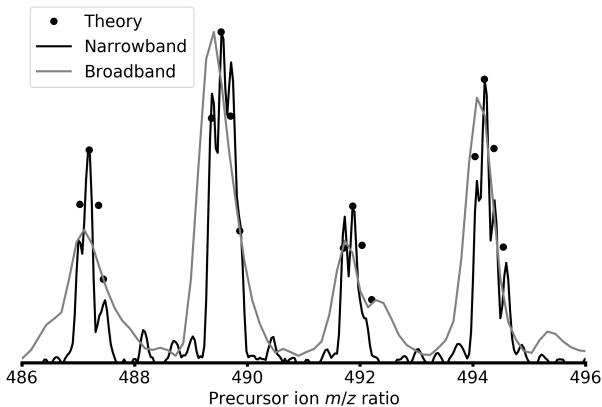


(a) Precursor ion spectrum of  $c_5$  ( $m/z$  460.2879)



(b) Precursor ion spectrum of  $z_{24}^{4+}$  ( $m/z$  682.8849)

