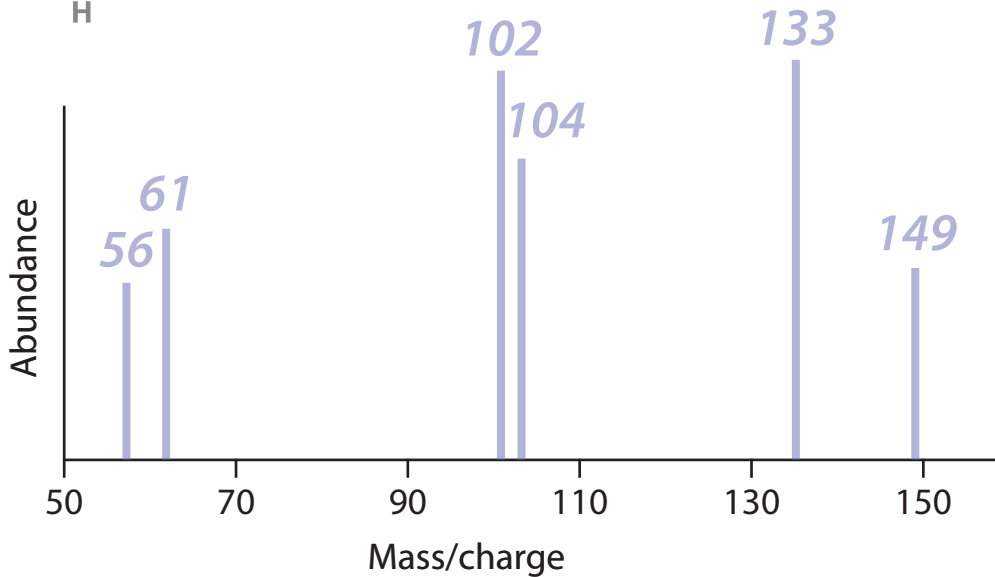
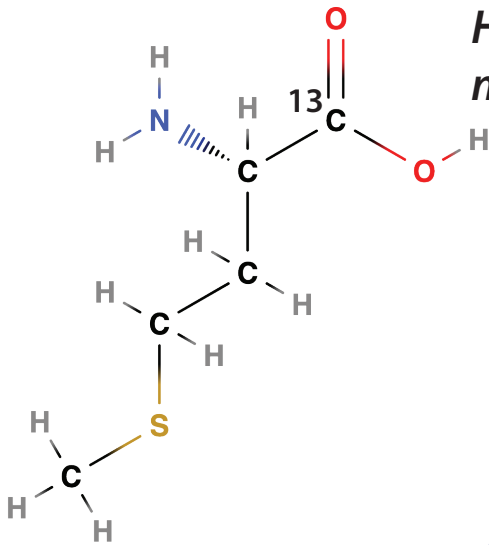
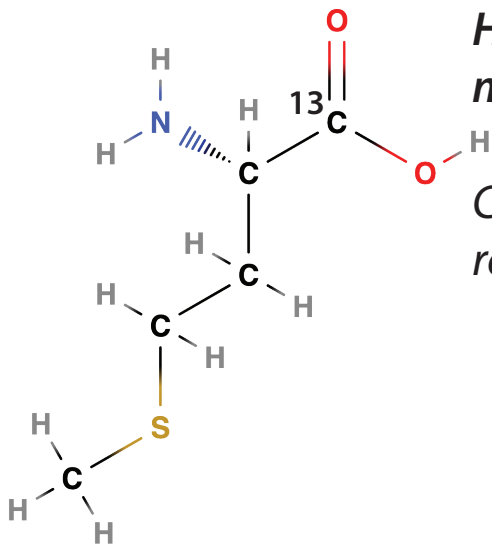


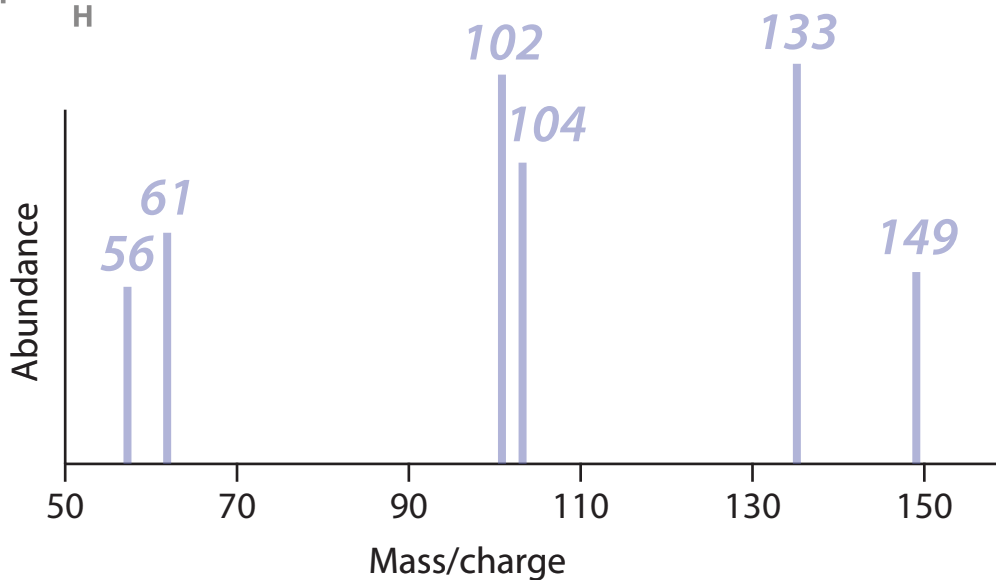
How does a ^{13}C substitution change the methionine mass spectrum ?

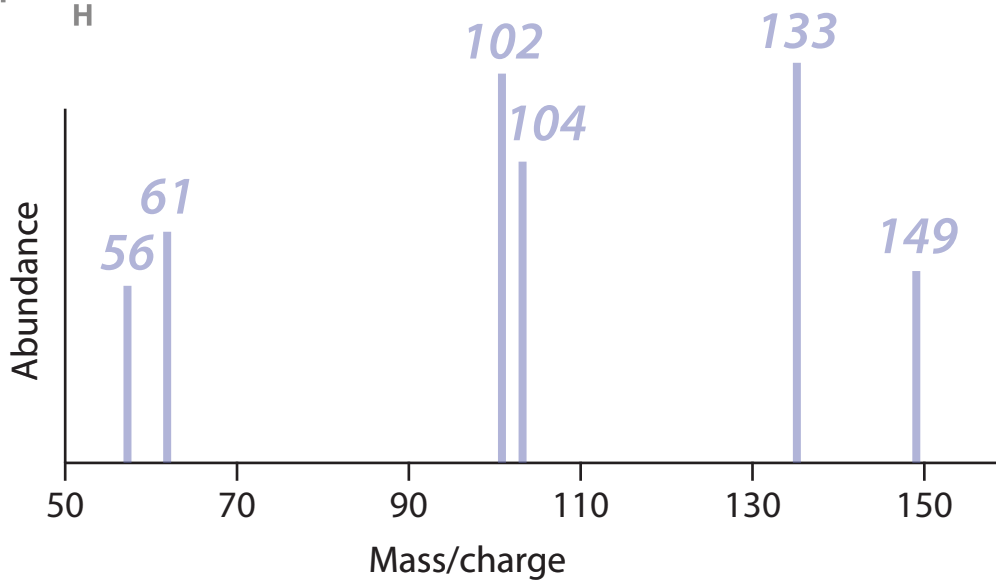
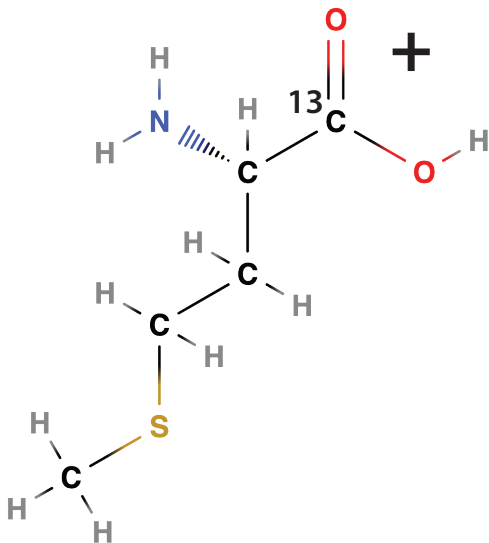


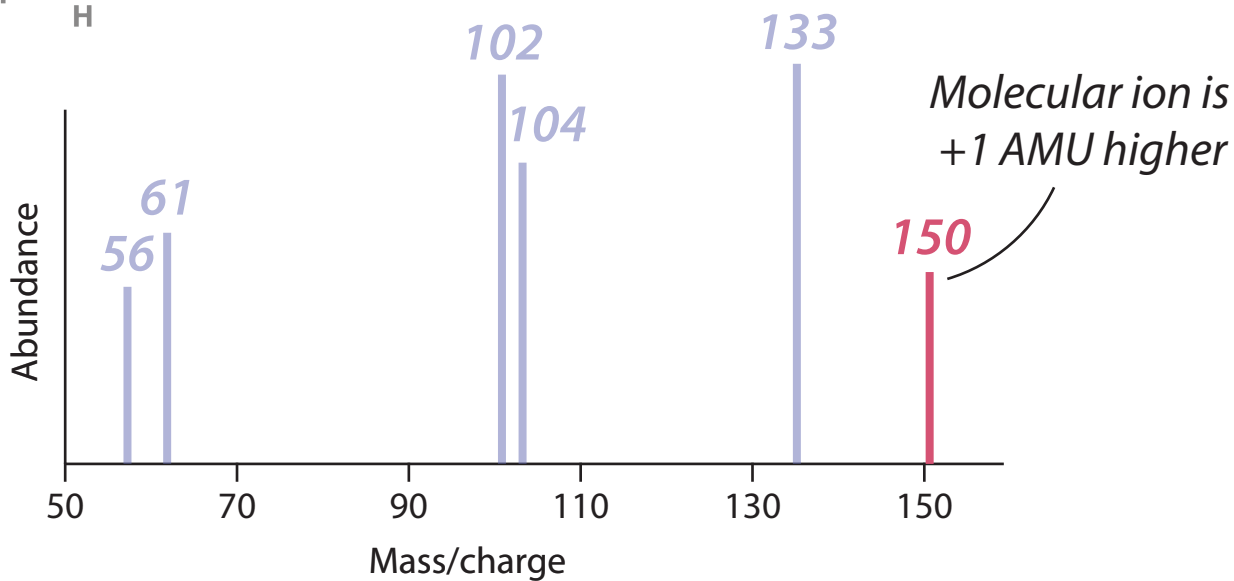
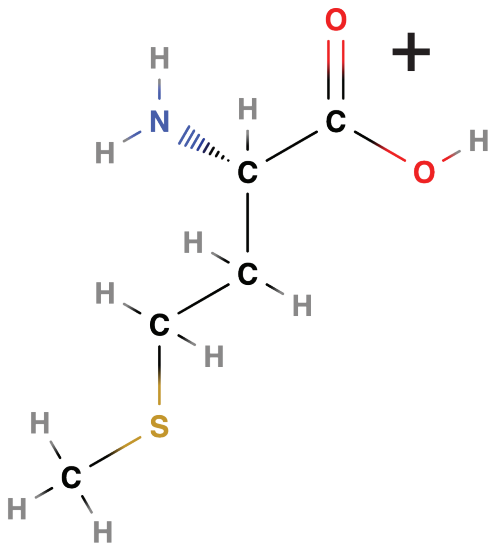


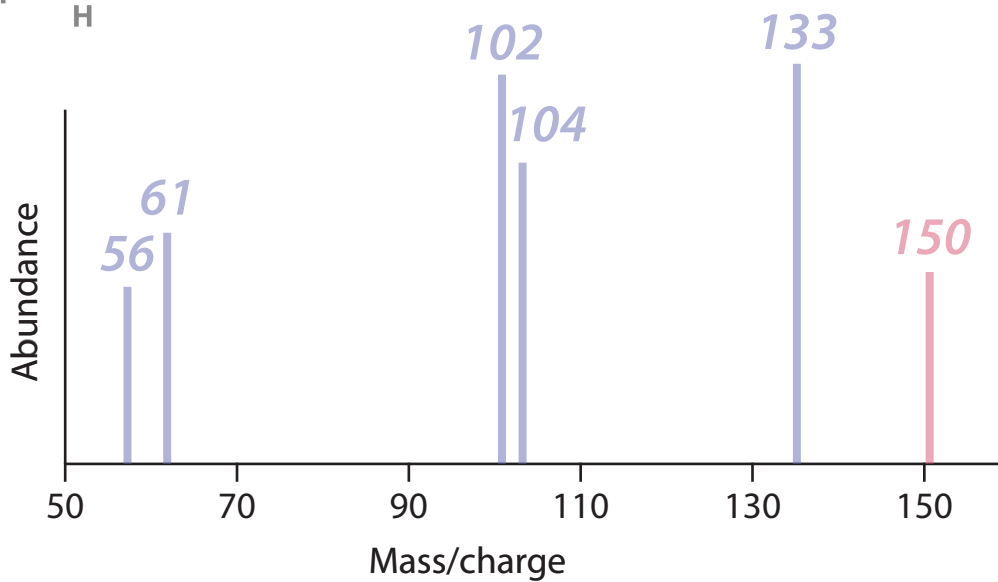
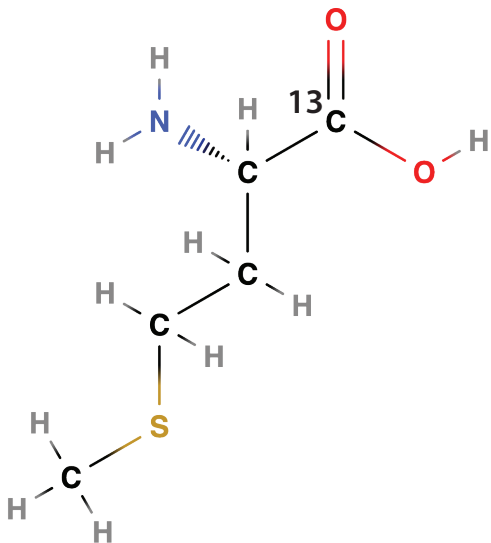
How does a ^{13}C substitution change the methionine mass spectrum?

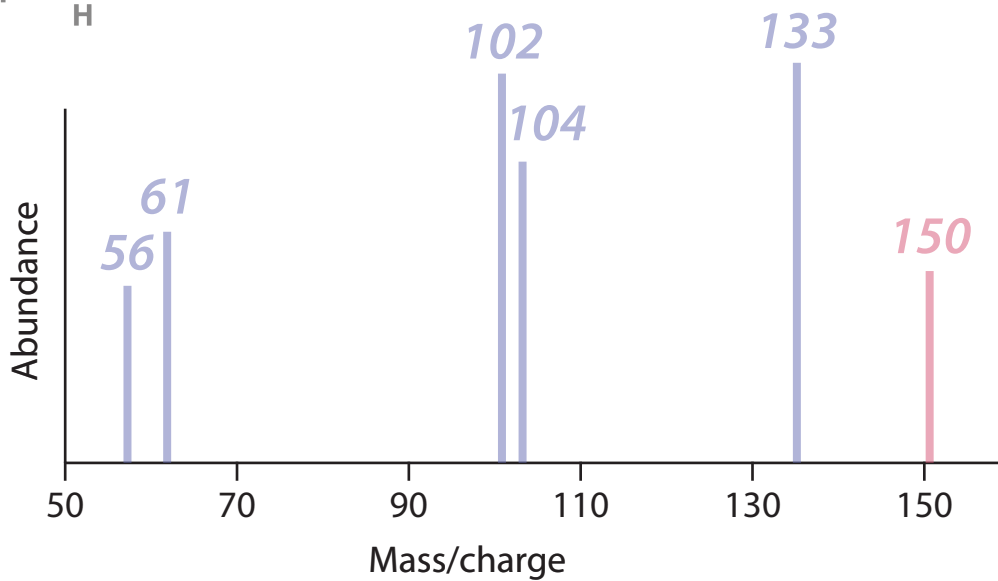
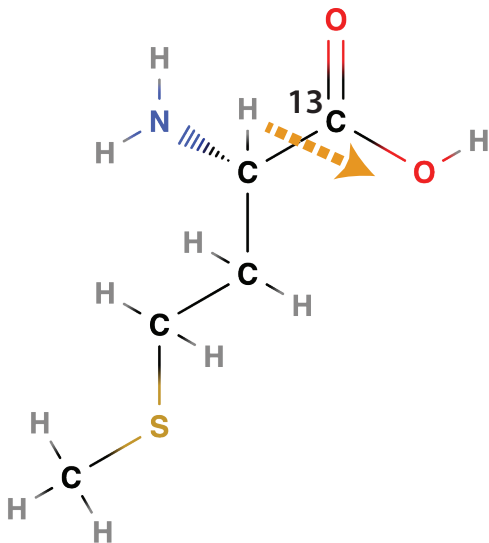
Consider the same fragmentation reactions as before...

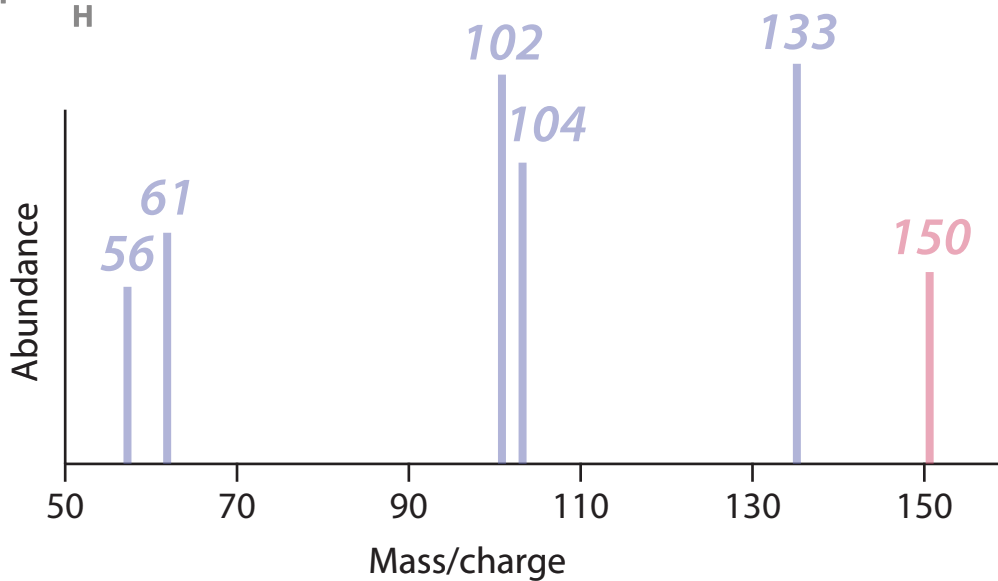
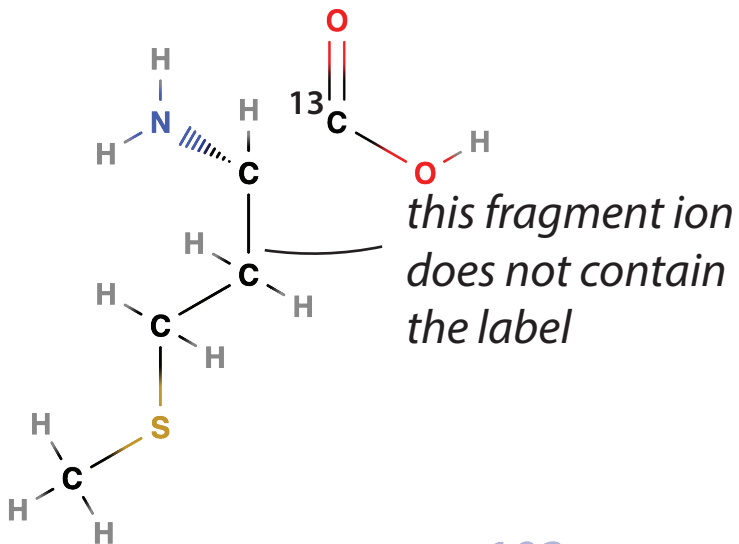


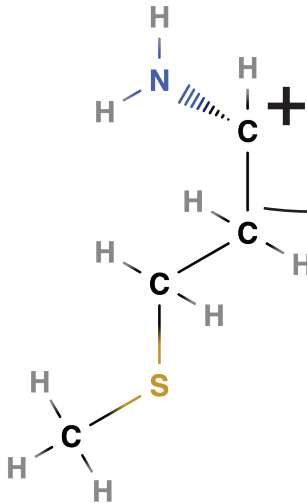




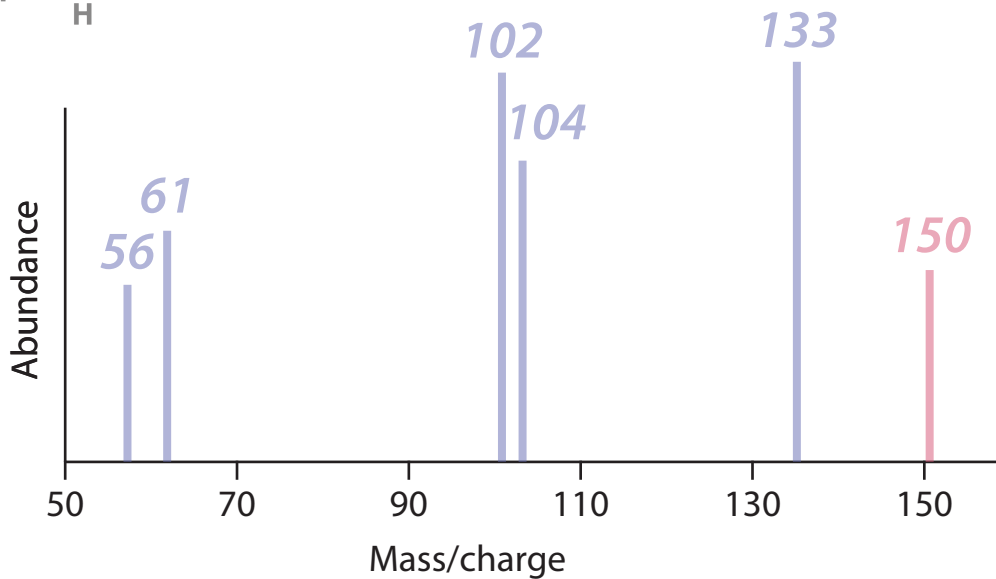


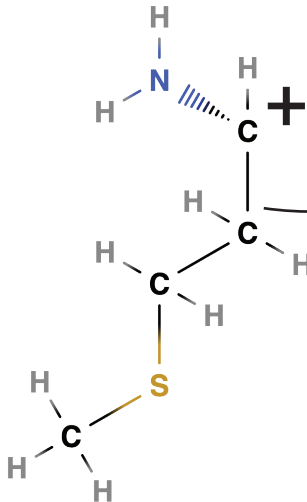






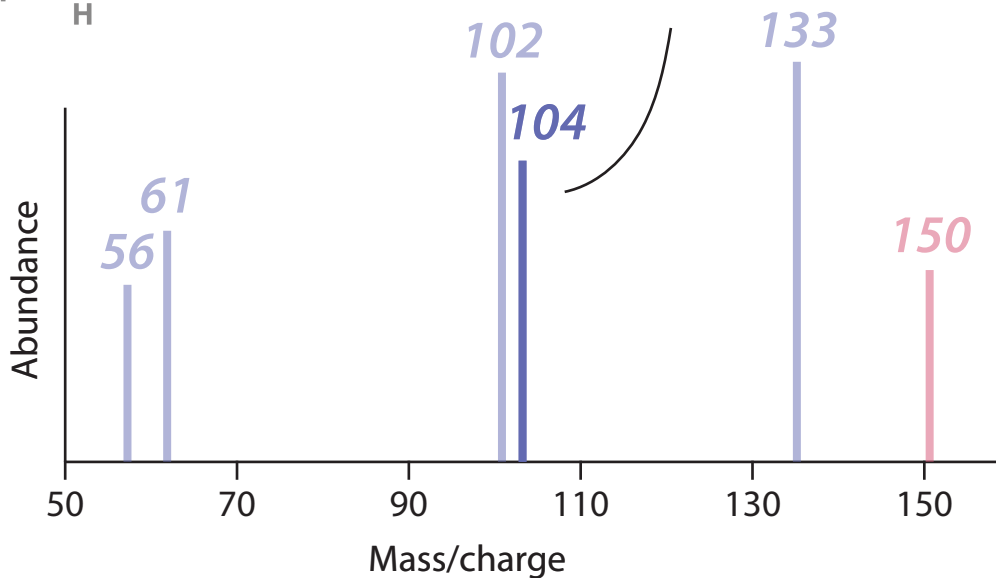
*this fragment ion
does not contain
the label*

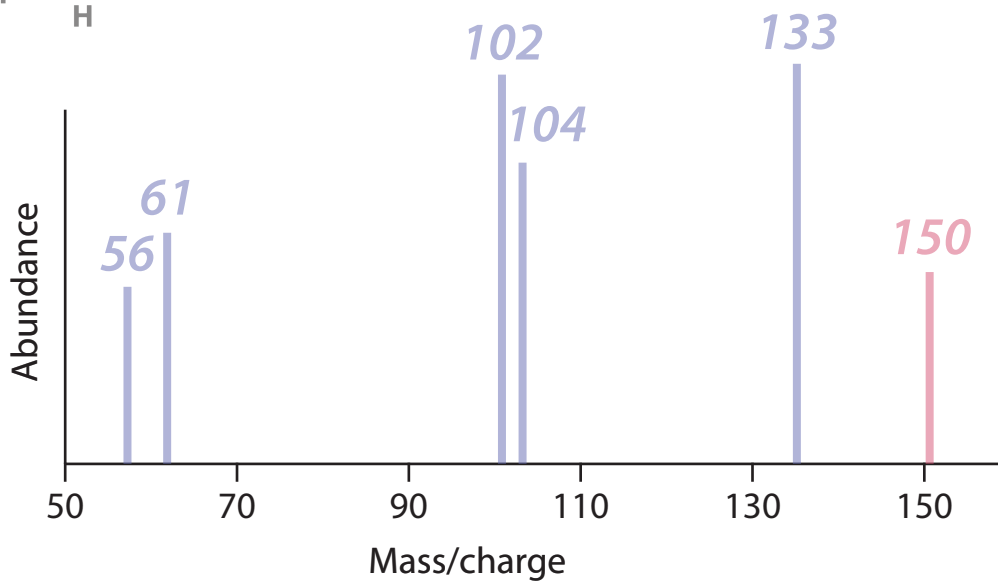
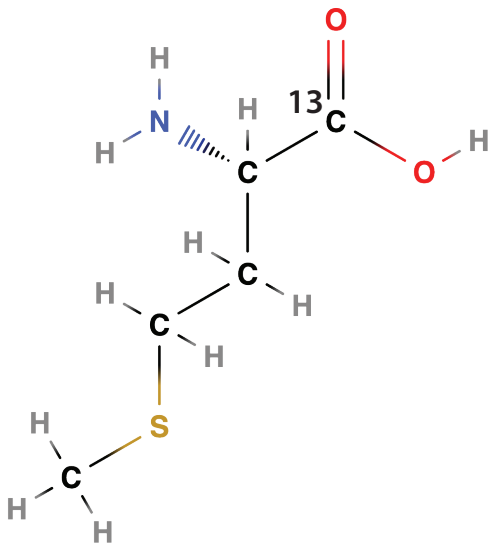


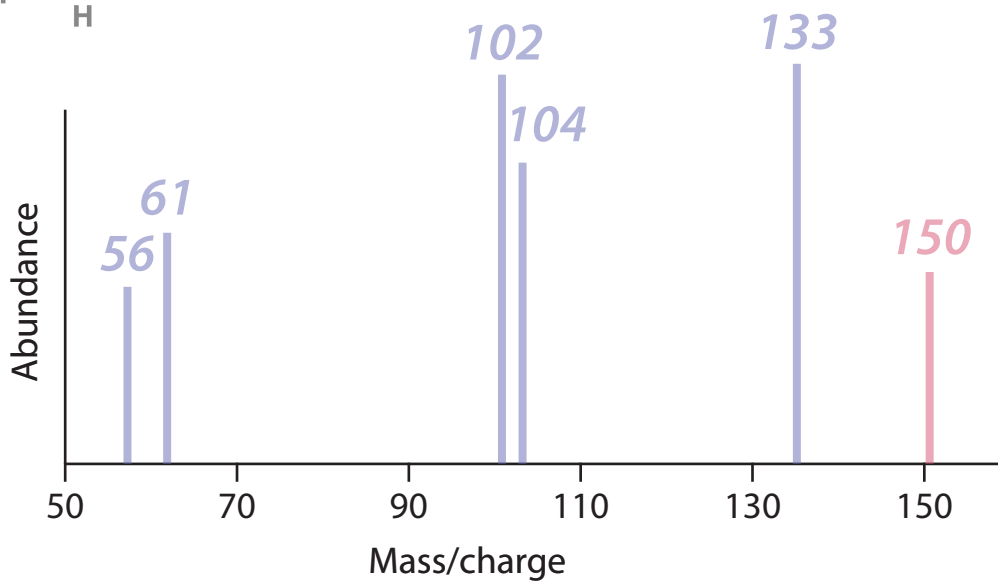
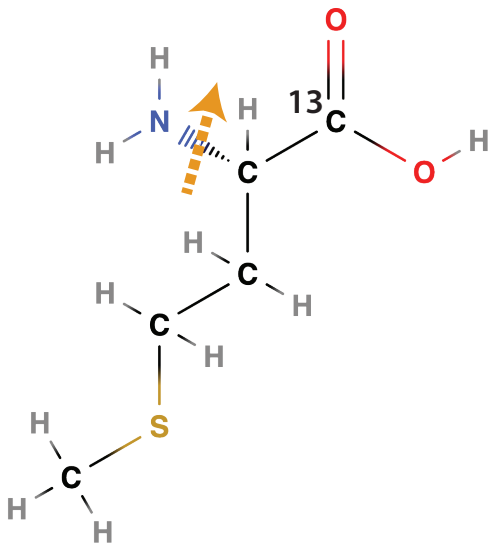


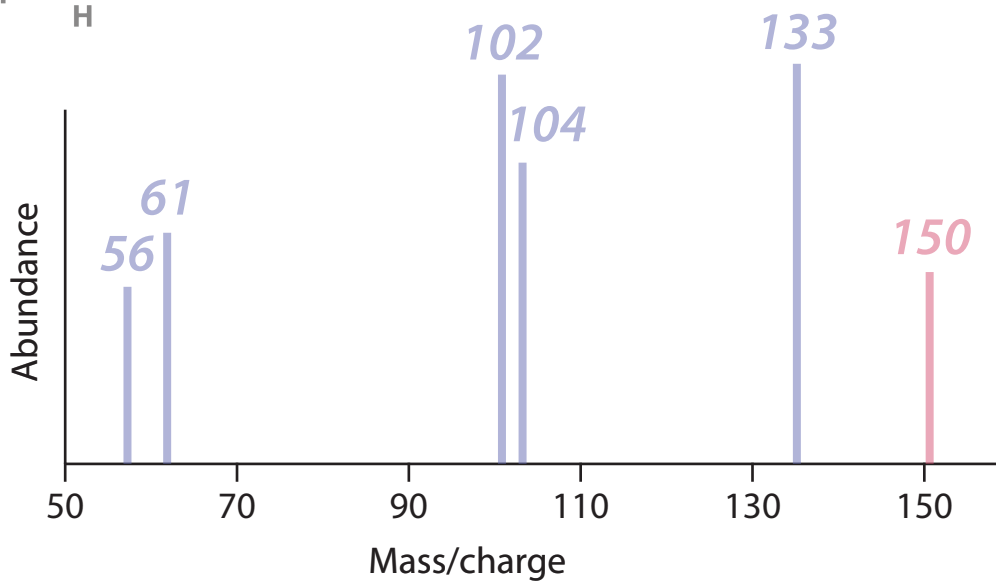
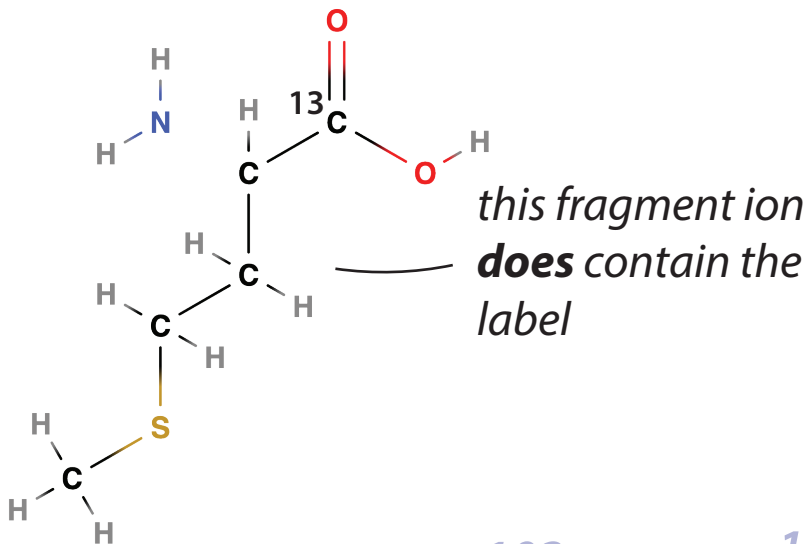
*this fragment ion
does not contain
the label*

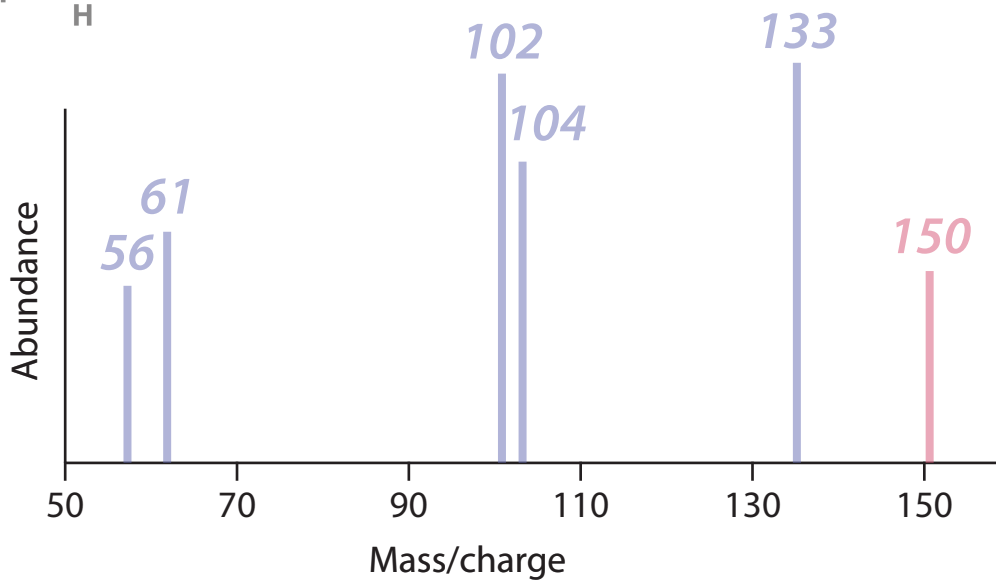
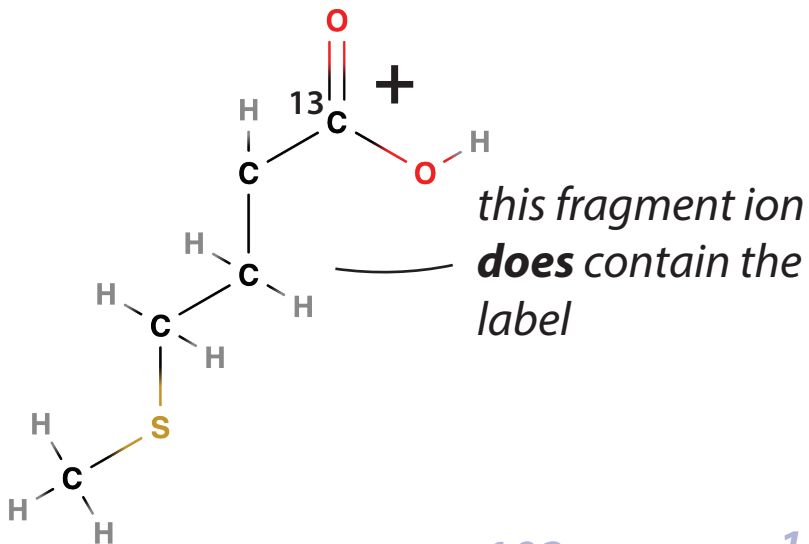
*so the mass
spectrum peak
is unchanged*

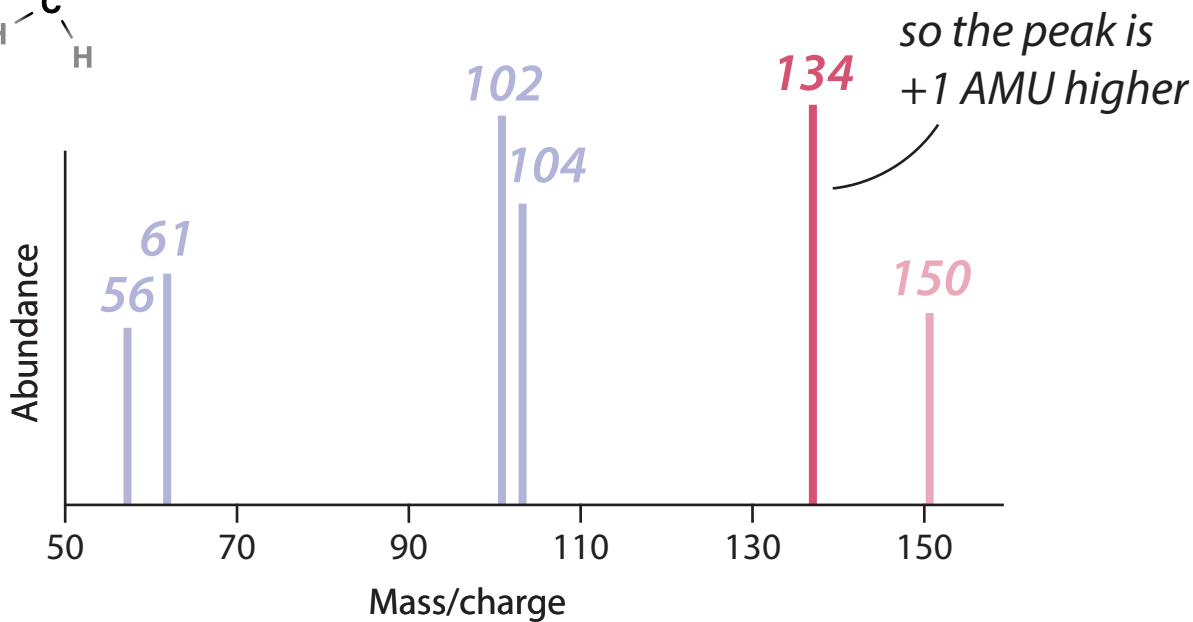
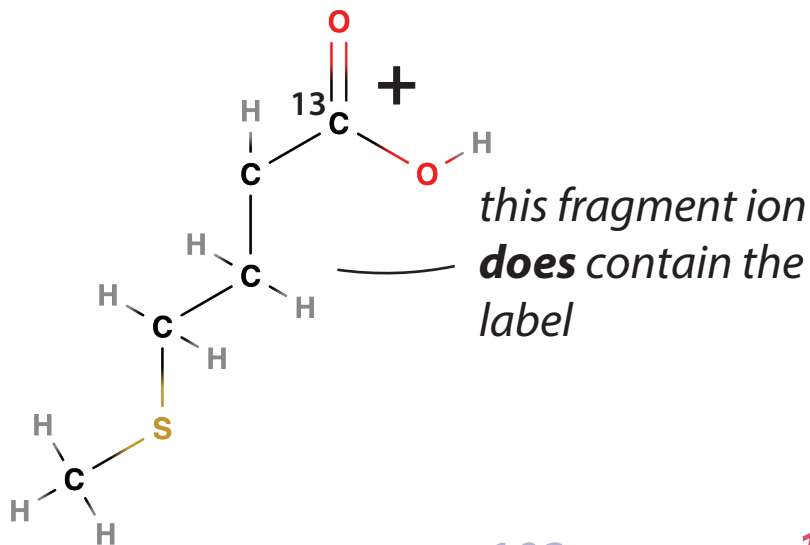


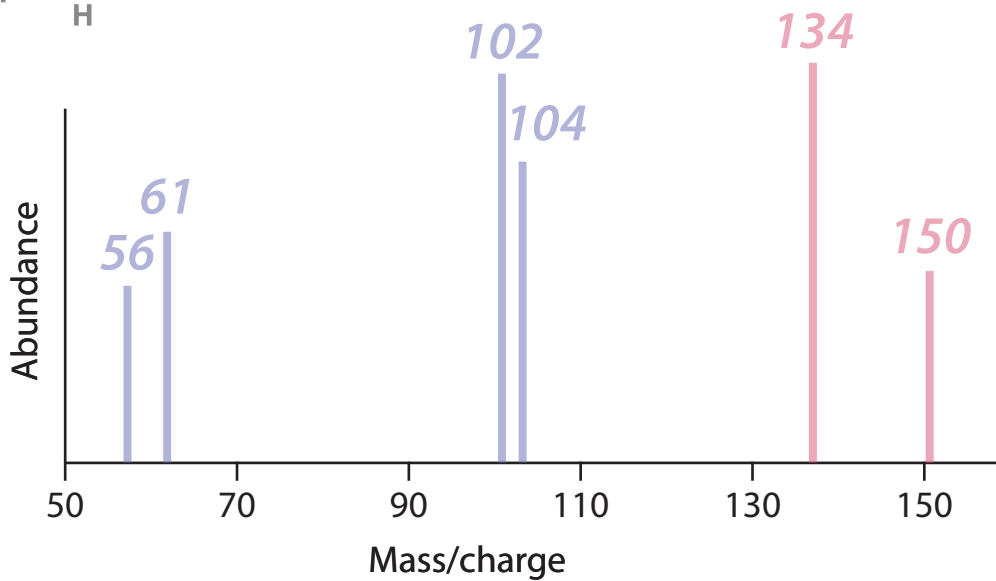
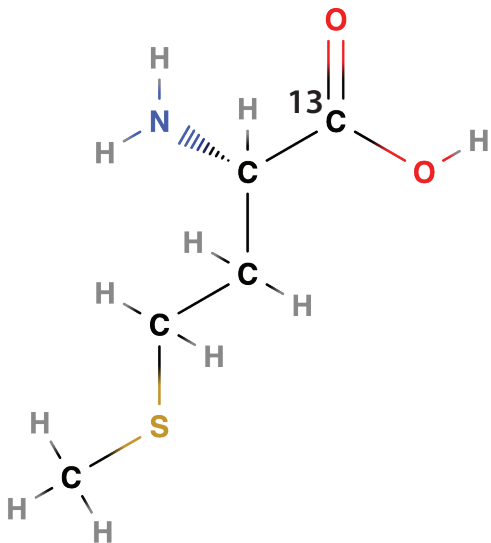


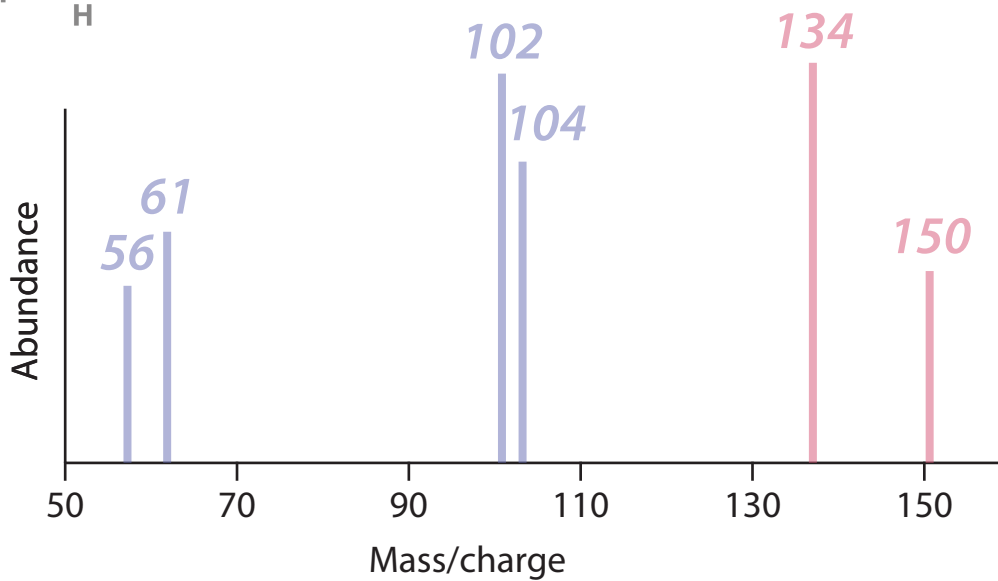
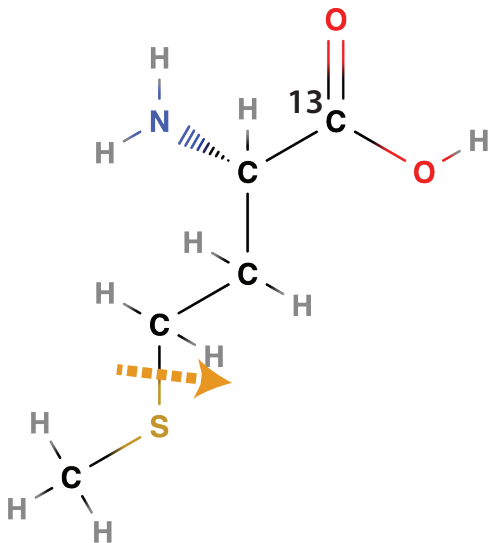


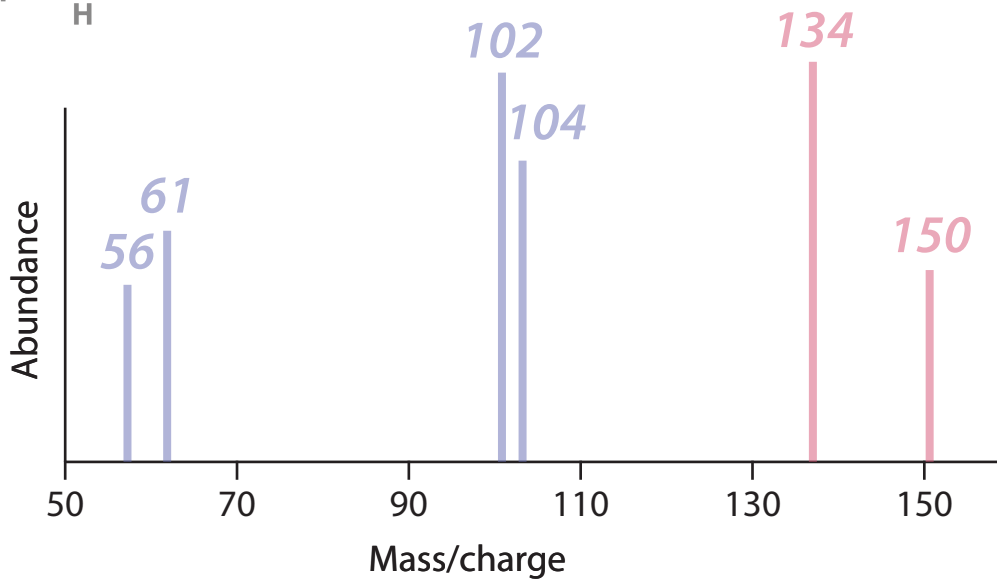
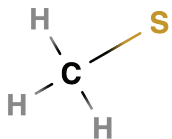
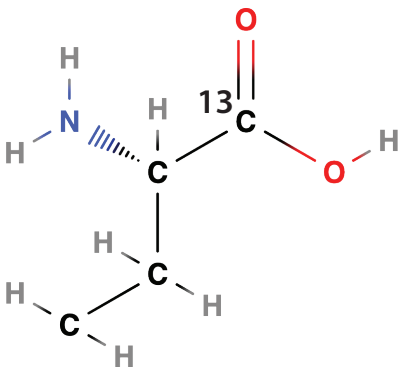


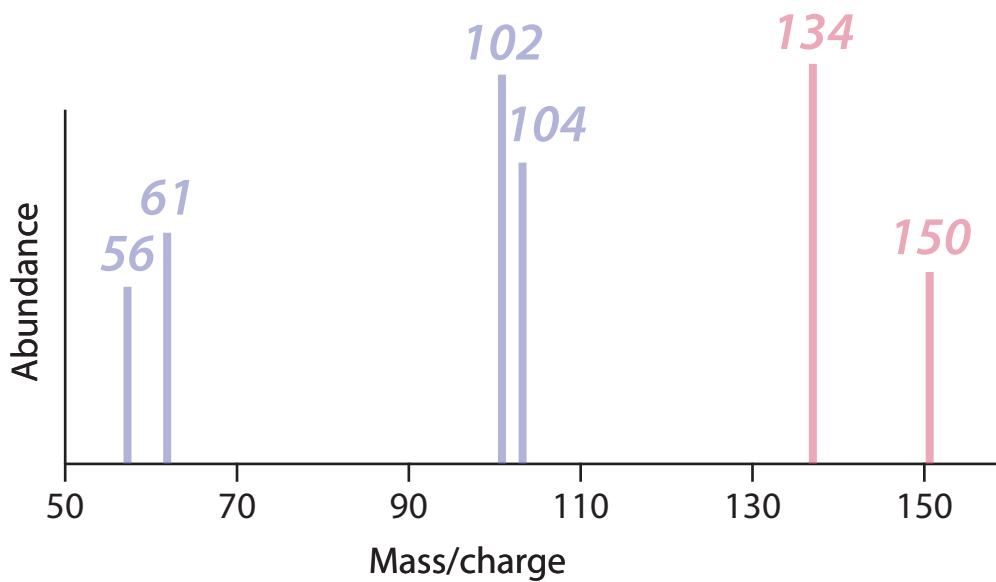
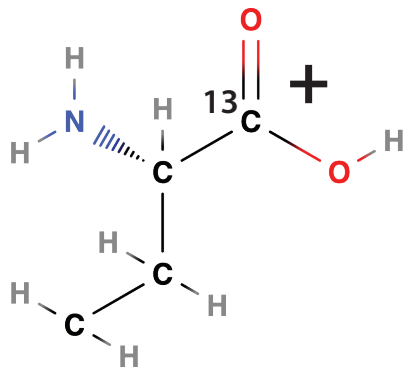


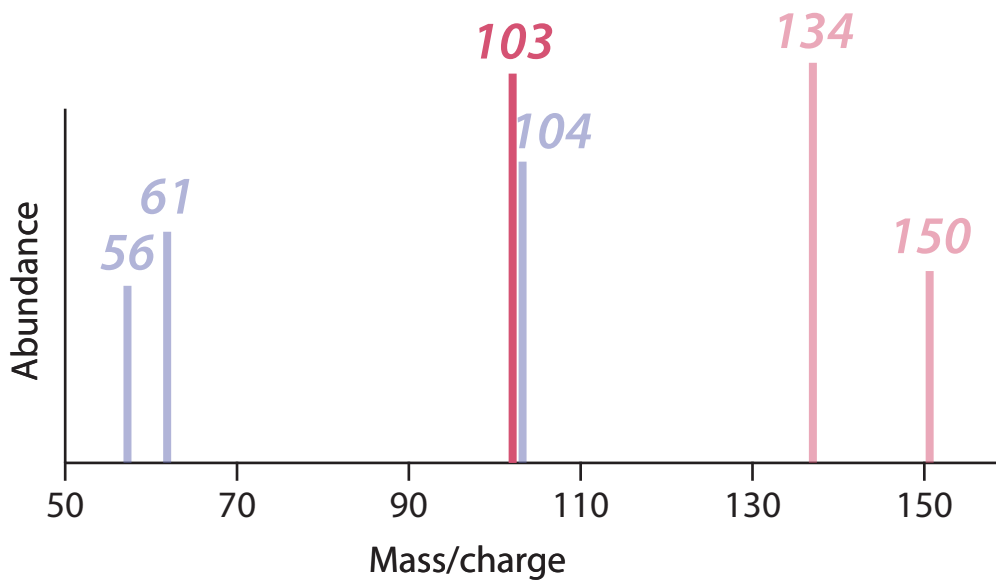
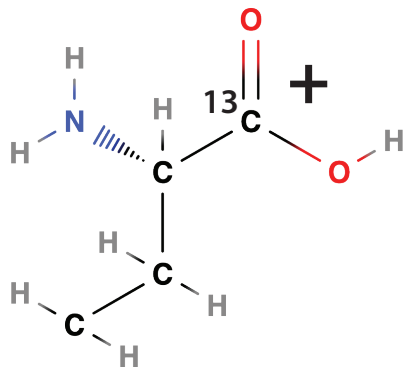


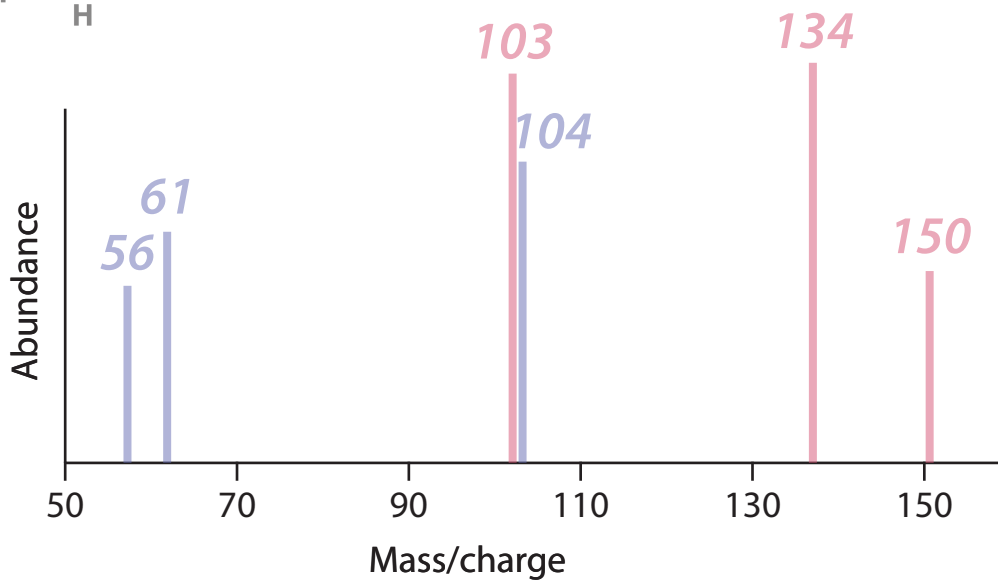
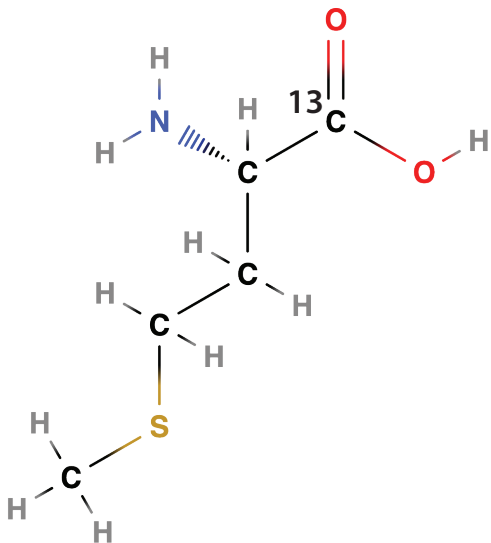


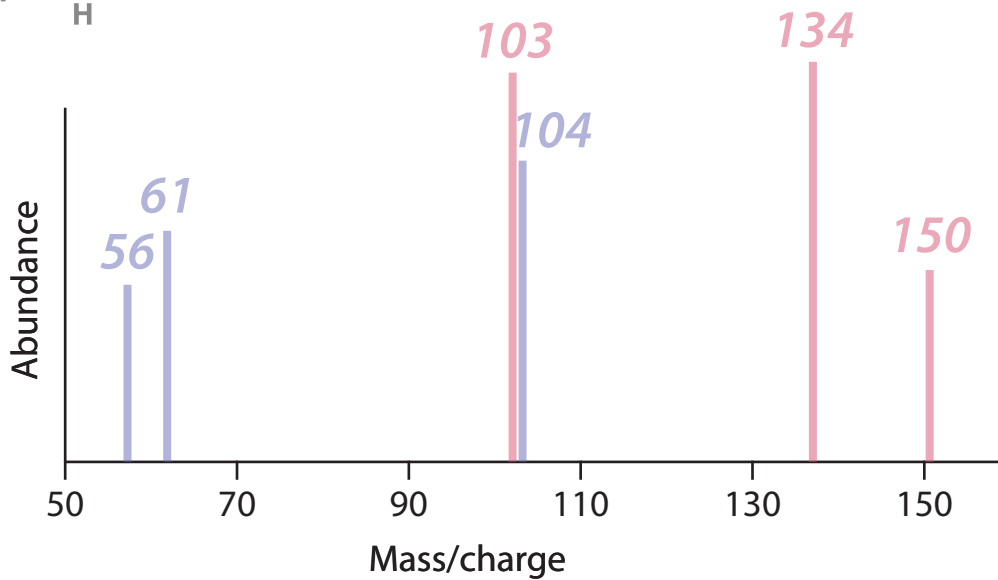
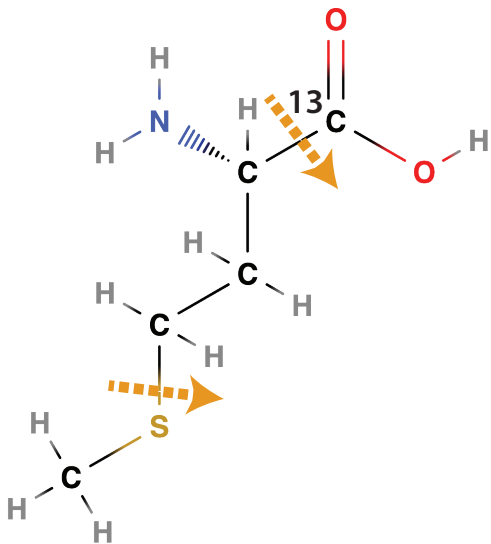


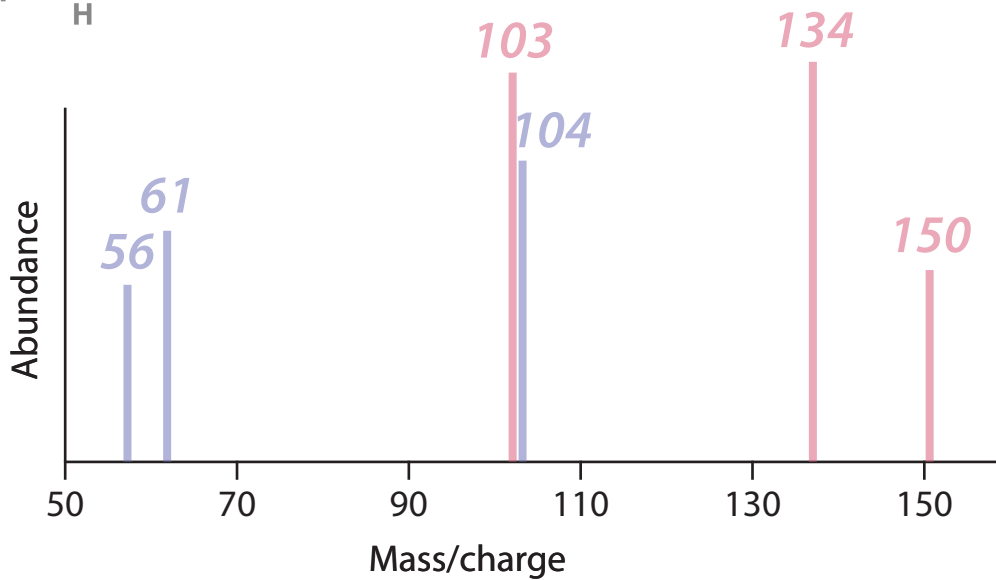
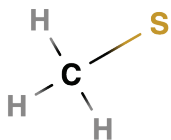
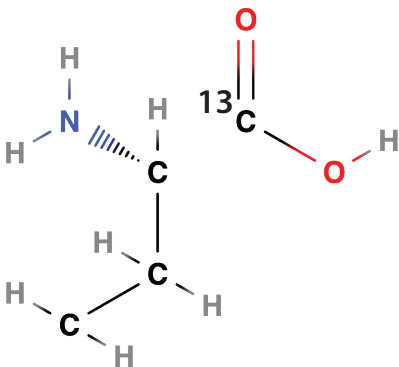


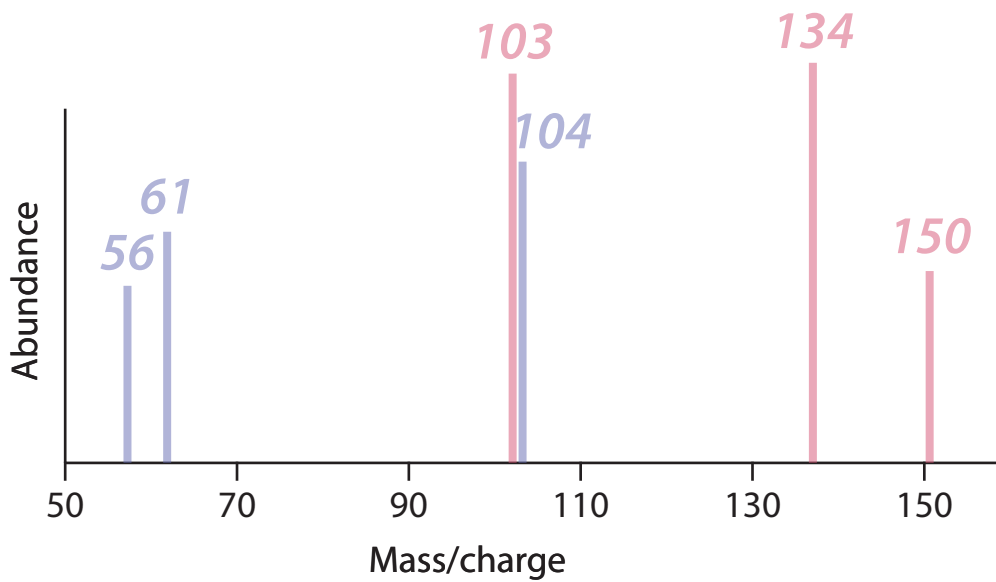
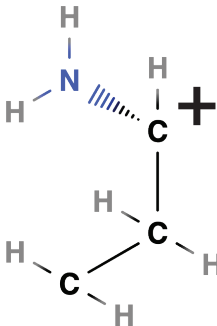


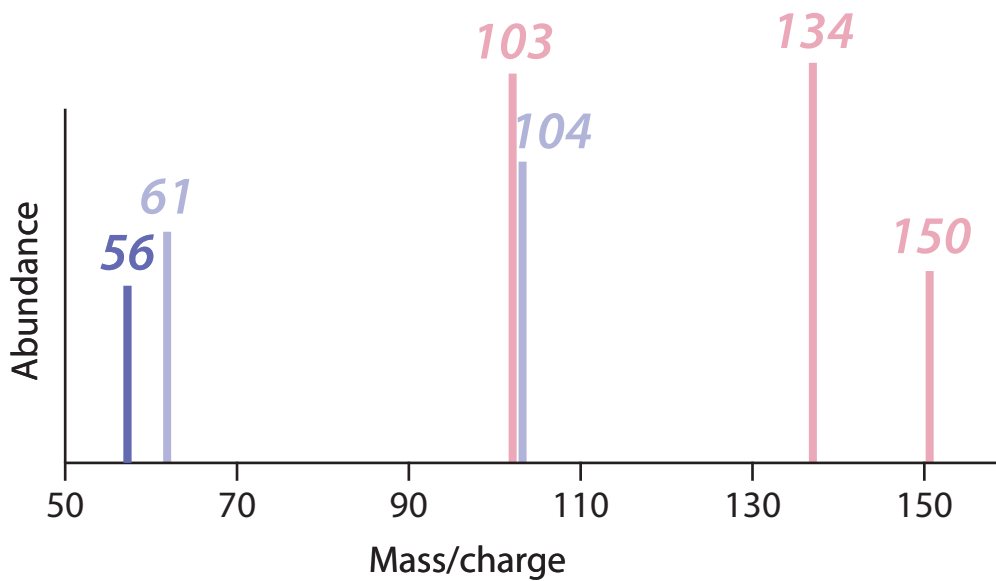
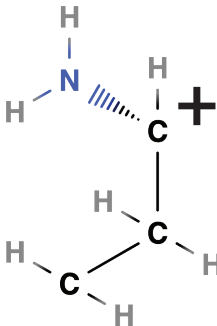


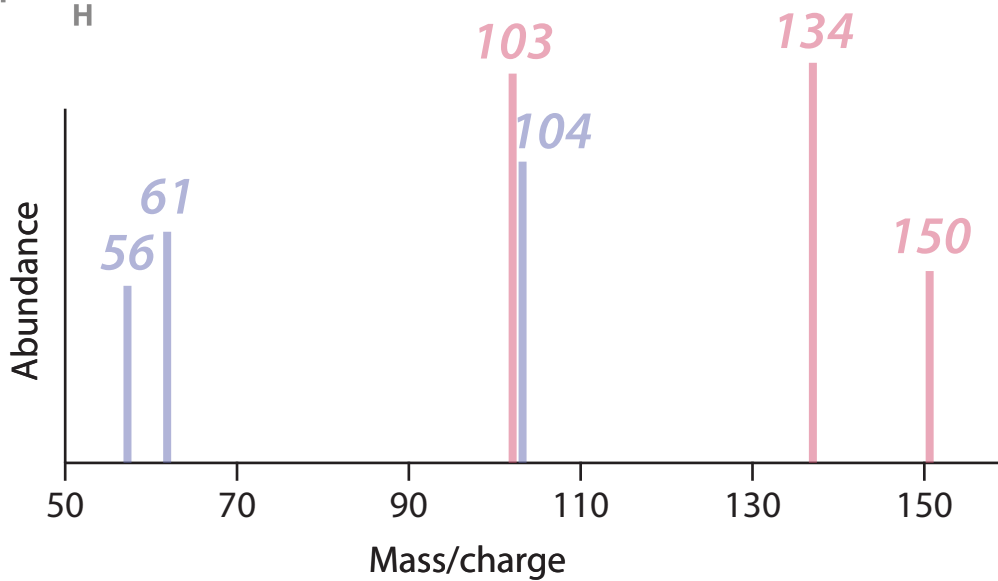
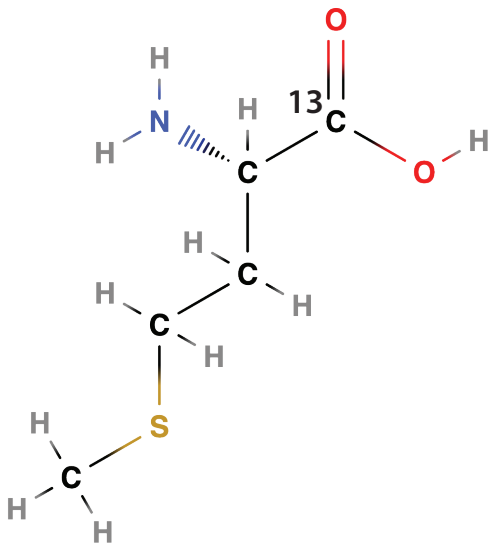


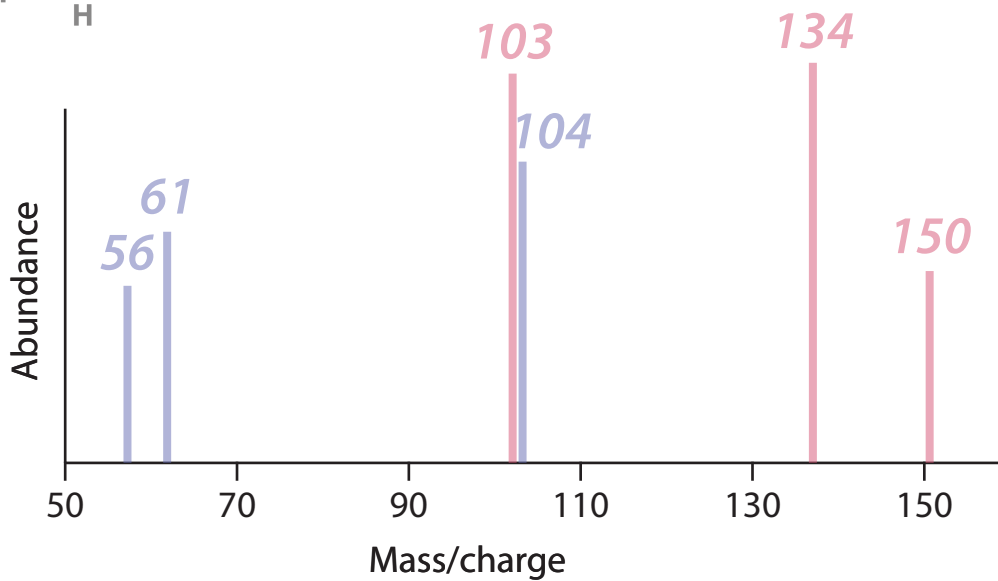
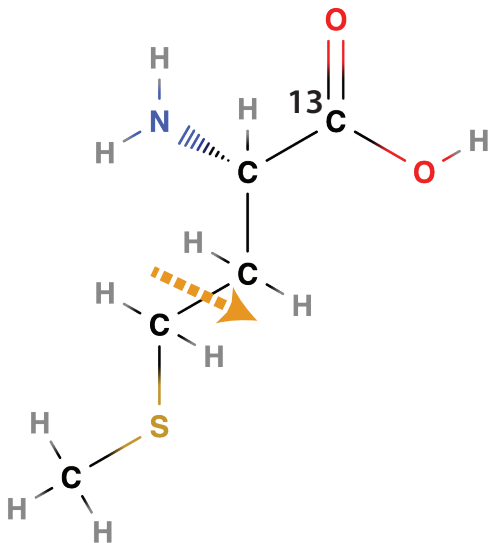


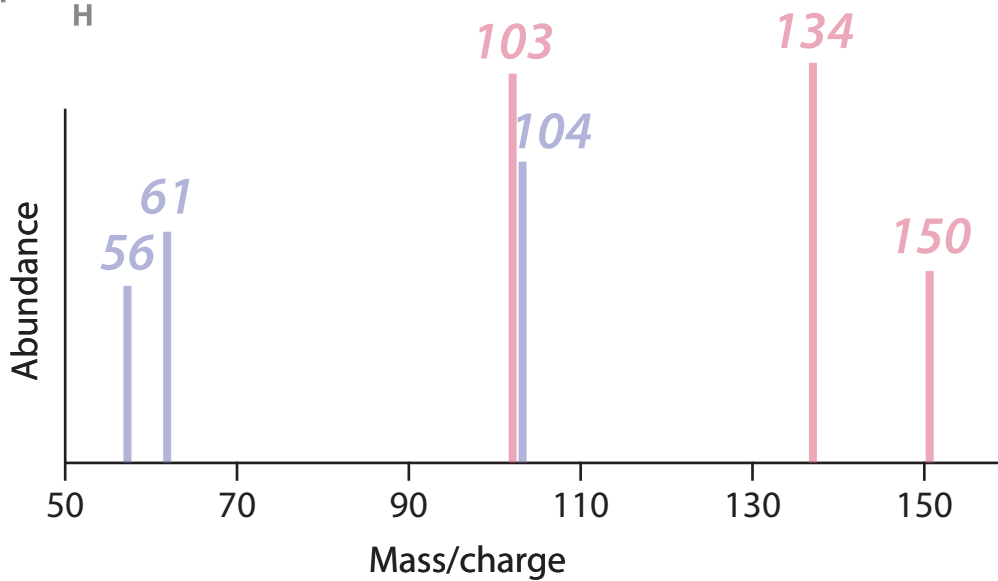
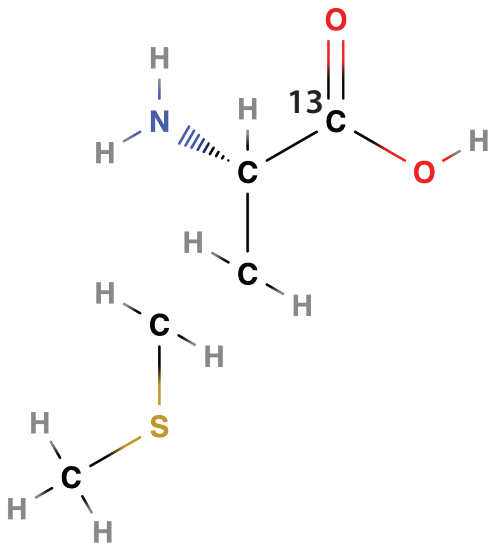


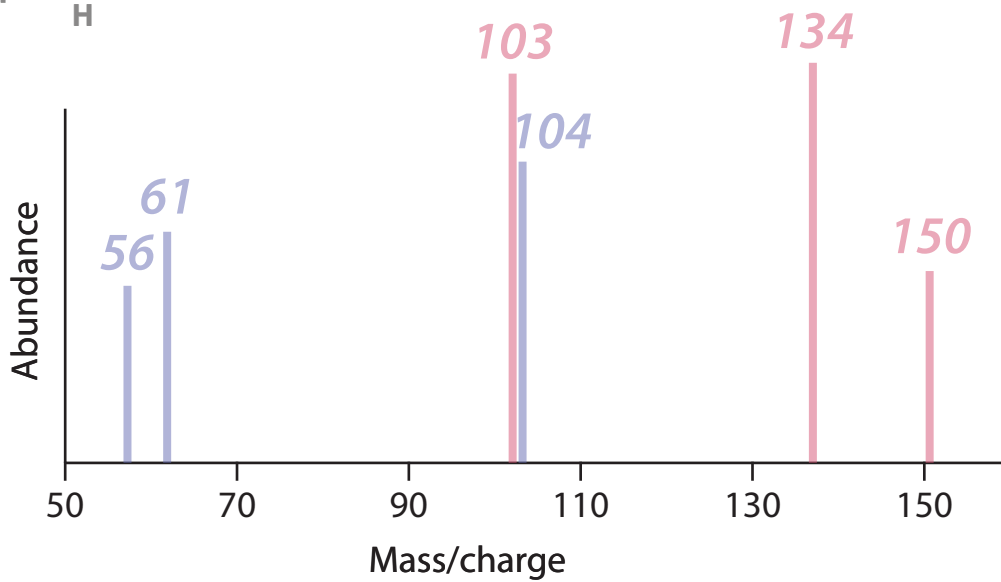
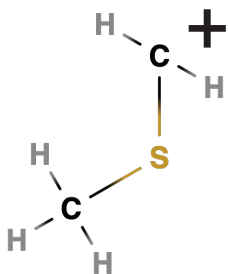


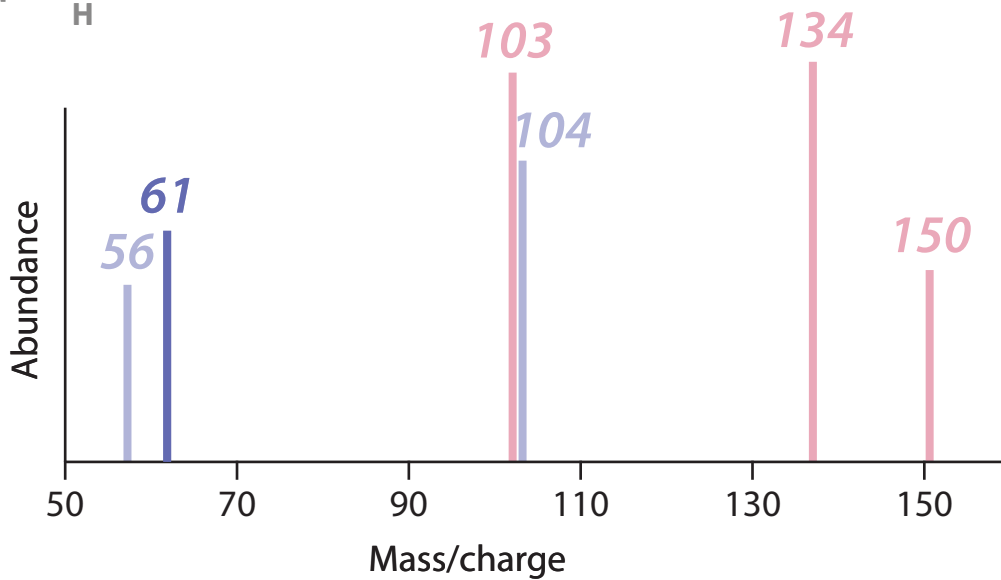
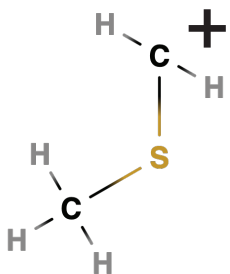


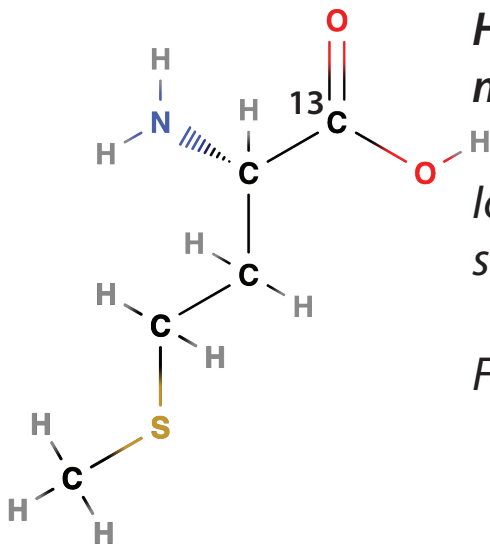












How does a ^{13}C substitution change the methionine mass spectrum?

Ion peaks that contain the substitution are shifted (red).

Fragment ions that do not are not (blue).

