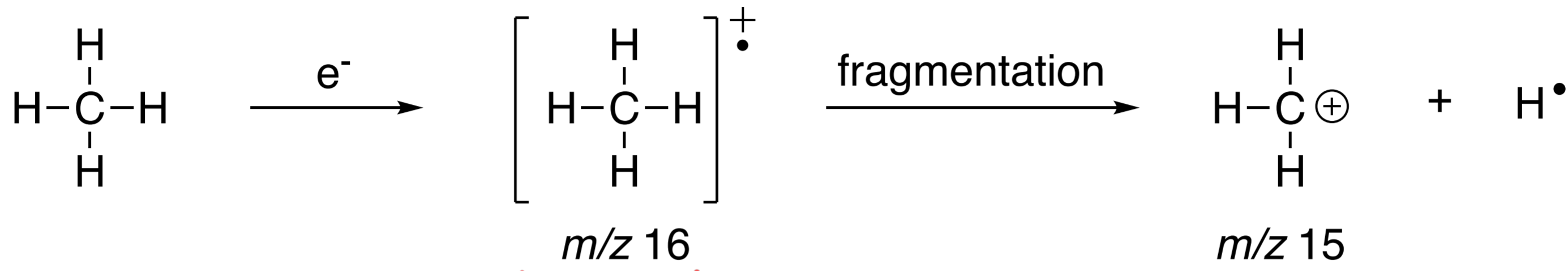


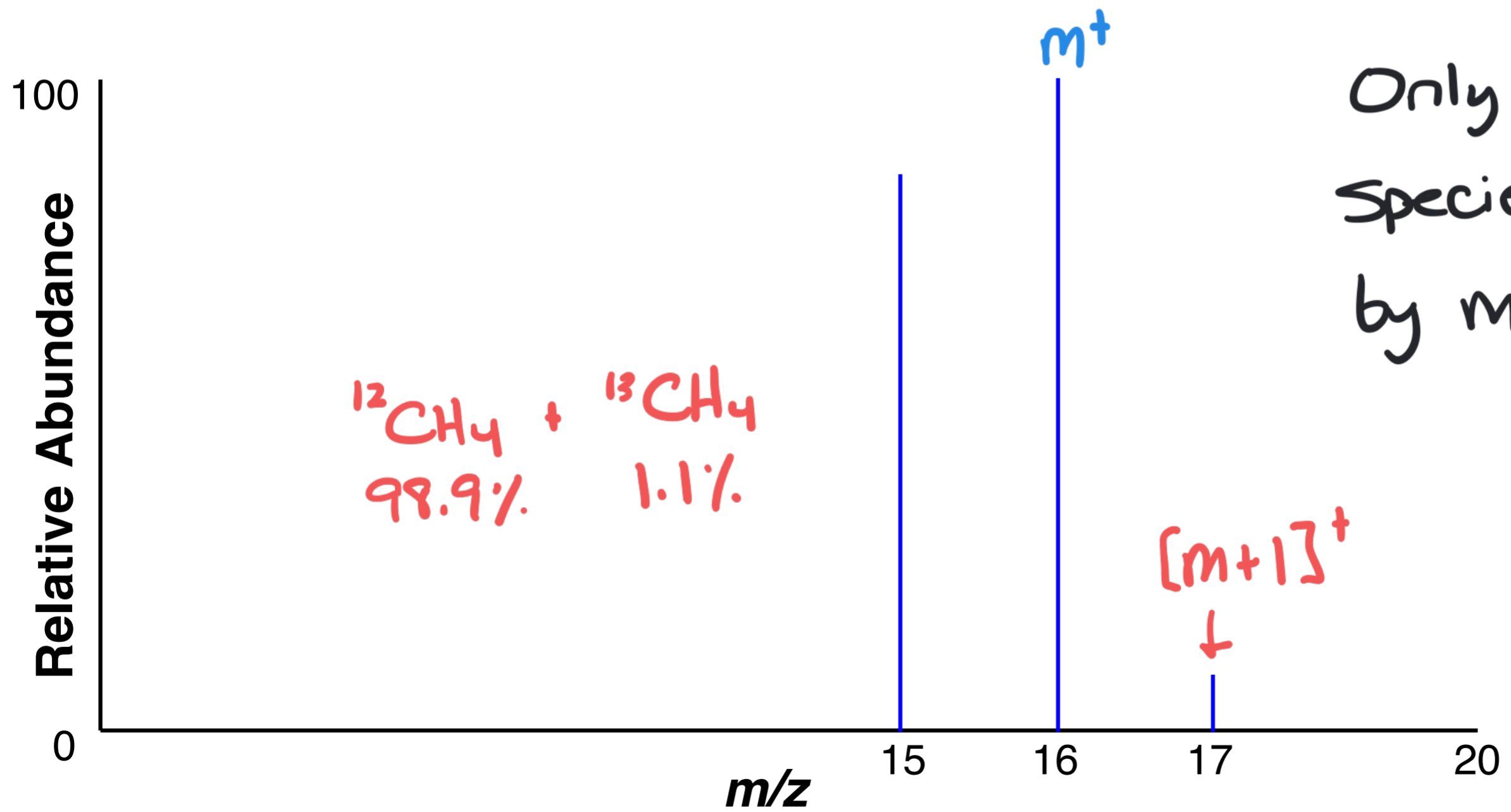
Mass Spectrometry

Mass Spectrometry is a technique used to determine the molecular weight and molecular formula of an organic compound.

Mass Spectrum of Methane



Molecular Ion m^+

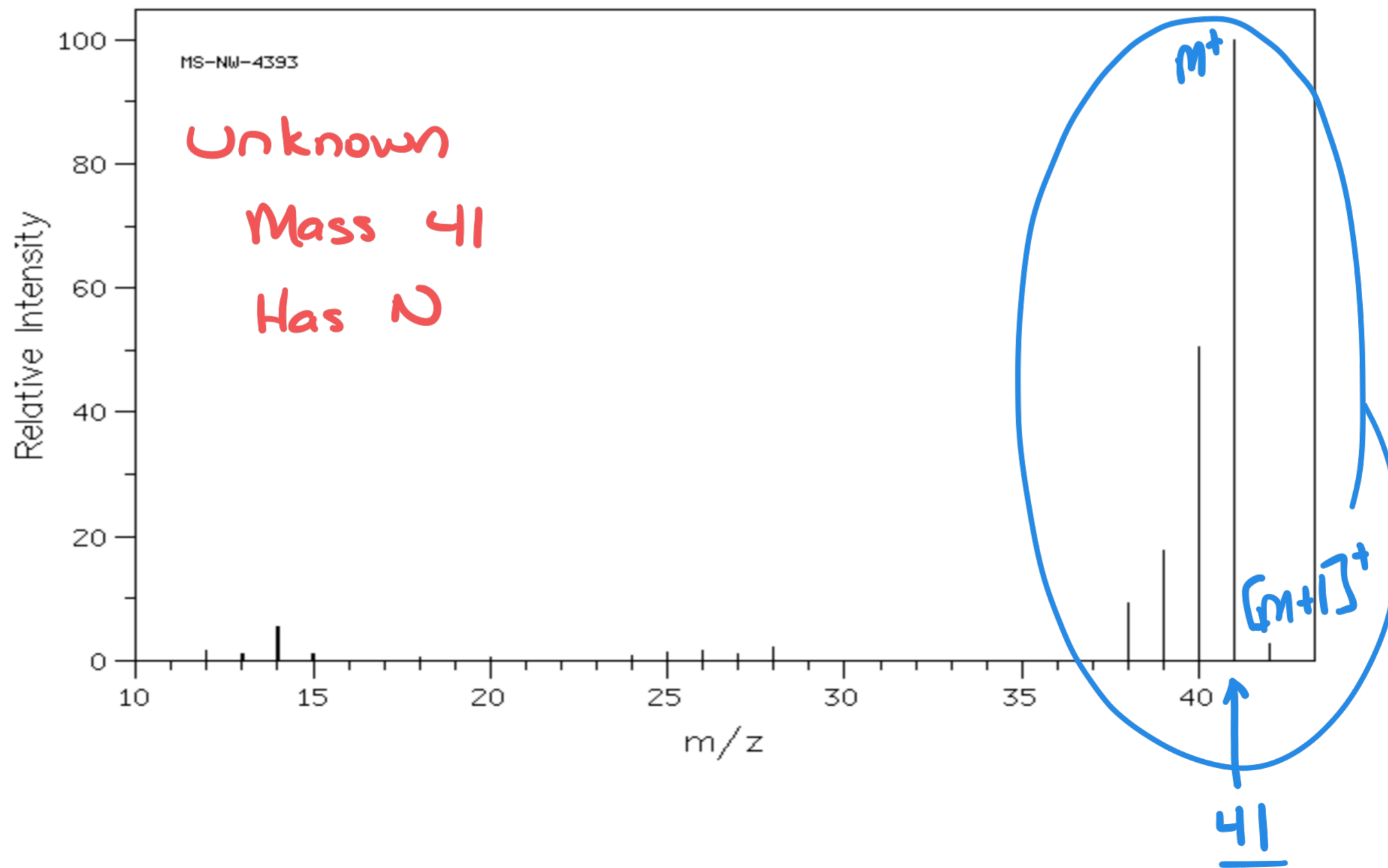


Only \oplus charged species are detected by mass spec

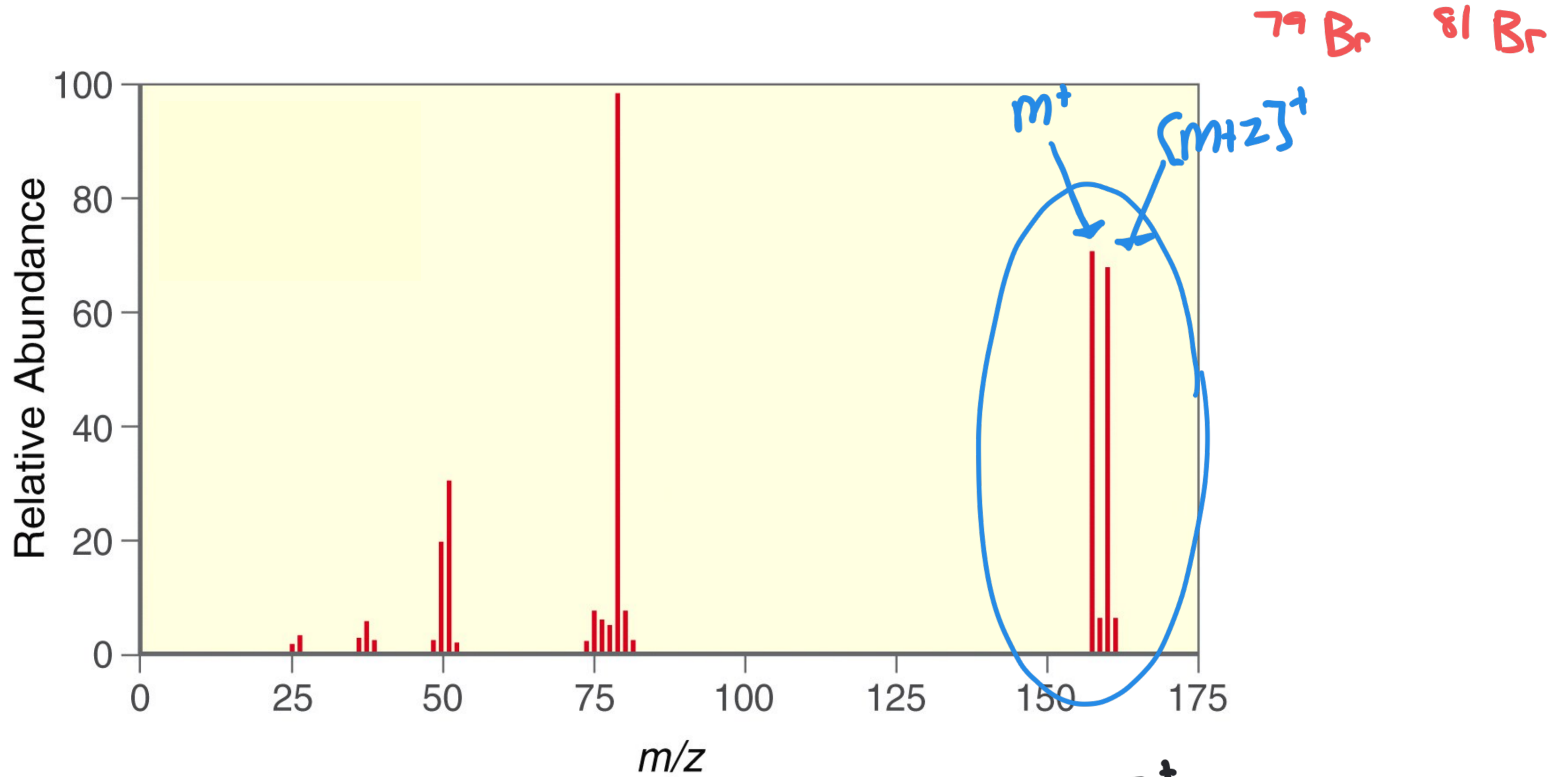
Nitrogen Rule

Odd M^+ = odd number of nitrogen

Even M^+ = no nitrogen or an even number of nitrogen



Detecting a Br



$m^+ : [M+2]^+$
1 : 1 \Rightarrow Br

Detecting a Cl

