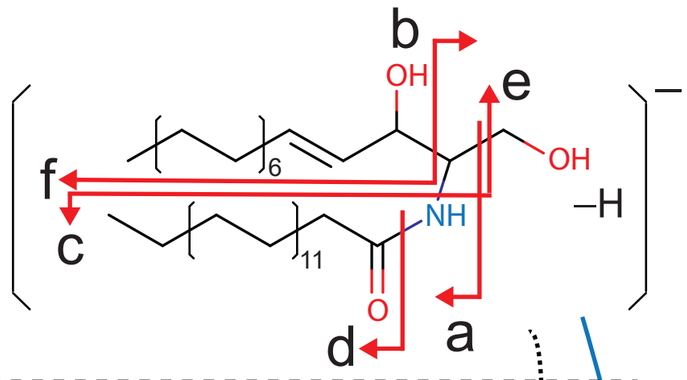
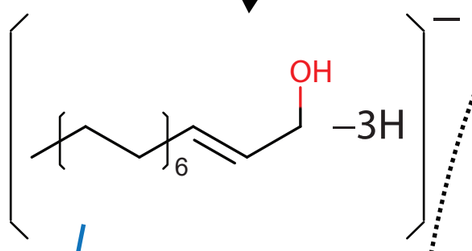
Ceramide [NS] (d18:1/26:0); $[M+CH_3COOH-H]^-$

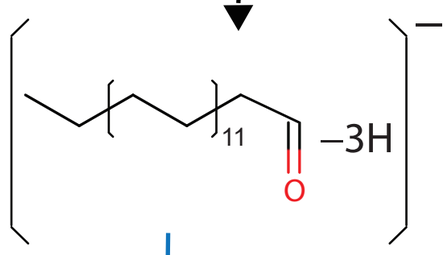


First bond cleavage

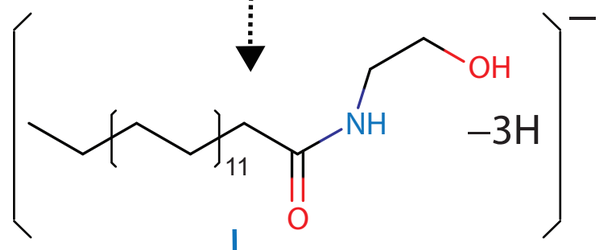
f: rule N2



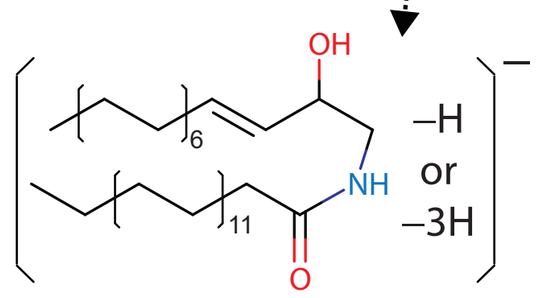
d: rule N2



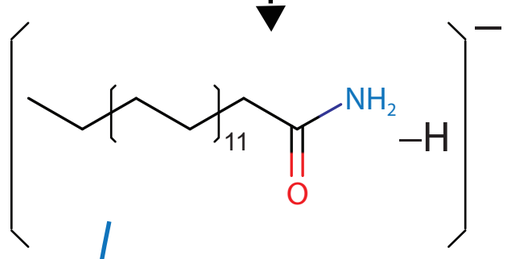
b: rule N2



a: rule N1 or N2

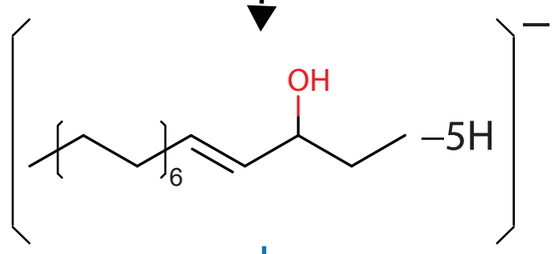


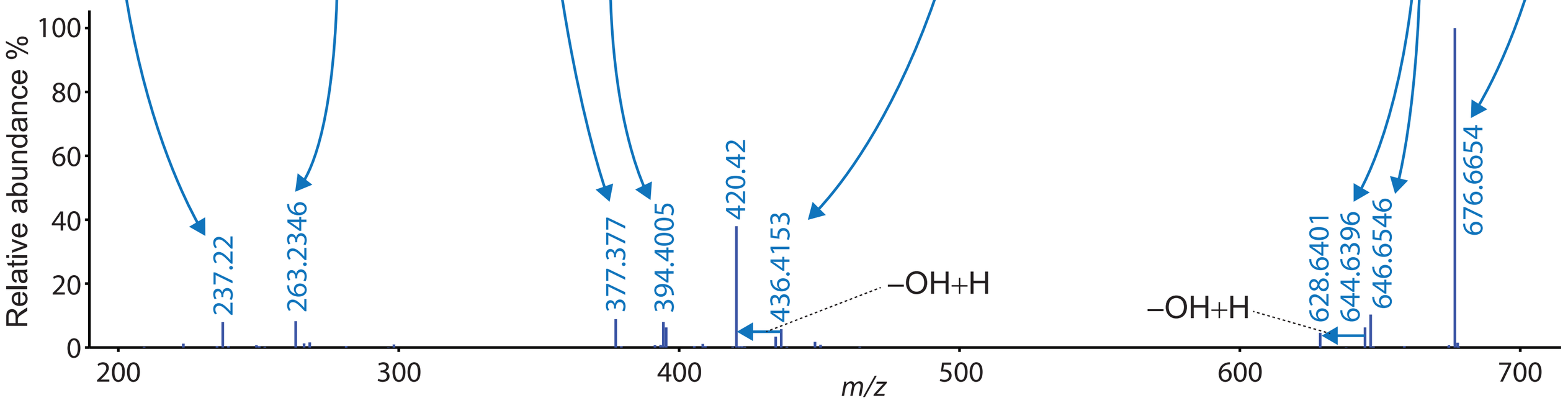
c: rule N1



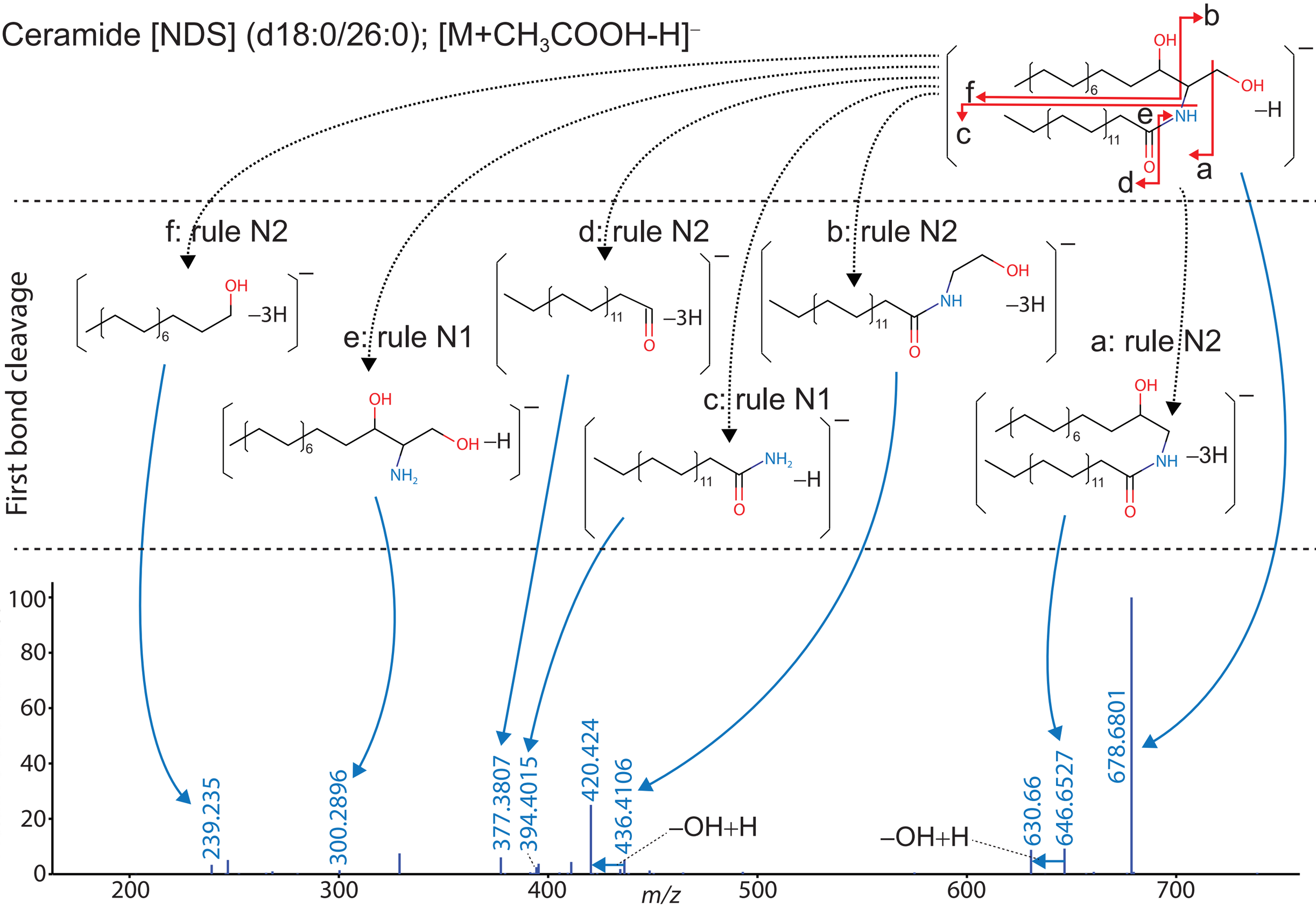
Second bond cleavage

e: rule N2 & N5

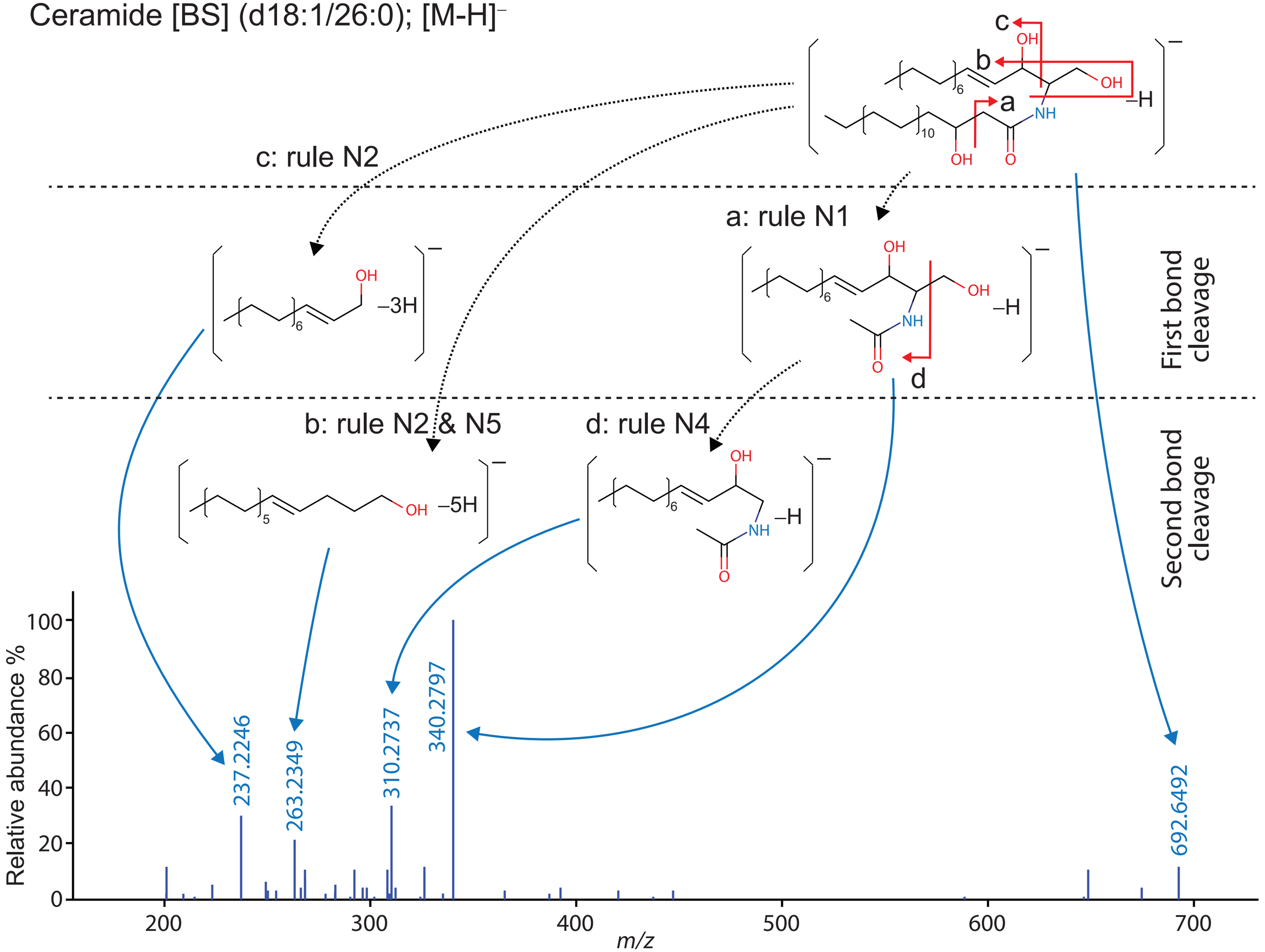




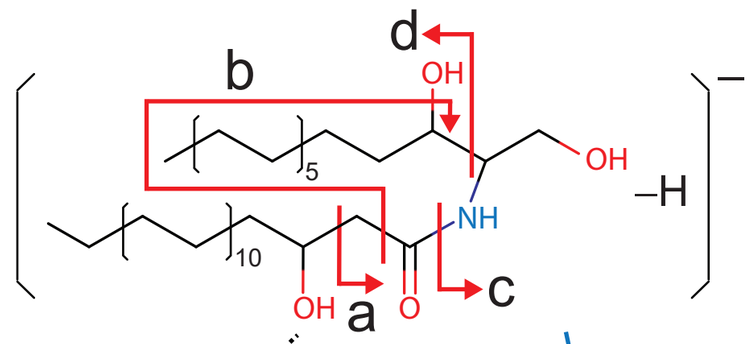
Ceramide [NDS] (d18:0/26:0); $[M+CH_3COOH-H]^-$



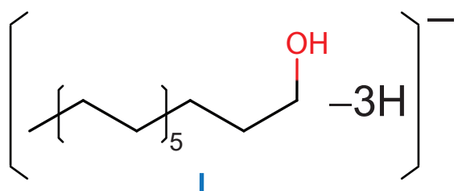
Ceramide [BS] (d18:1/26:0); $[M-H]^-$



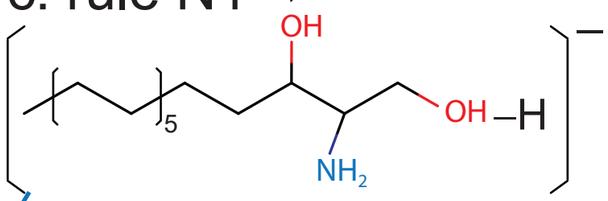
Ceramide [BDS] (d16:0/26:0); $[M+CH_3COOH-H]^-$



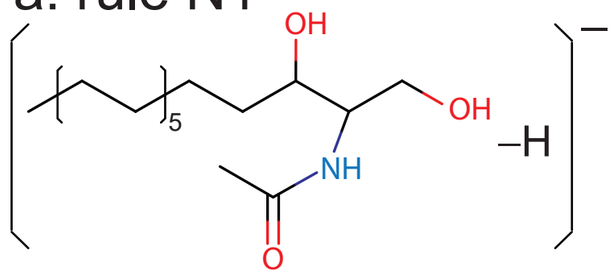
d: rule N2



c: rule N1

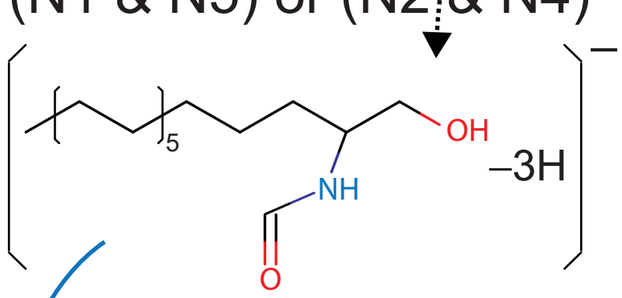


a: rule N1

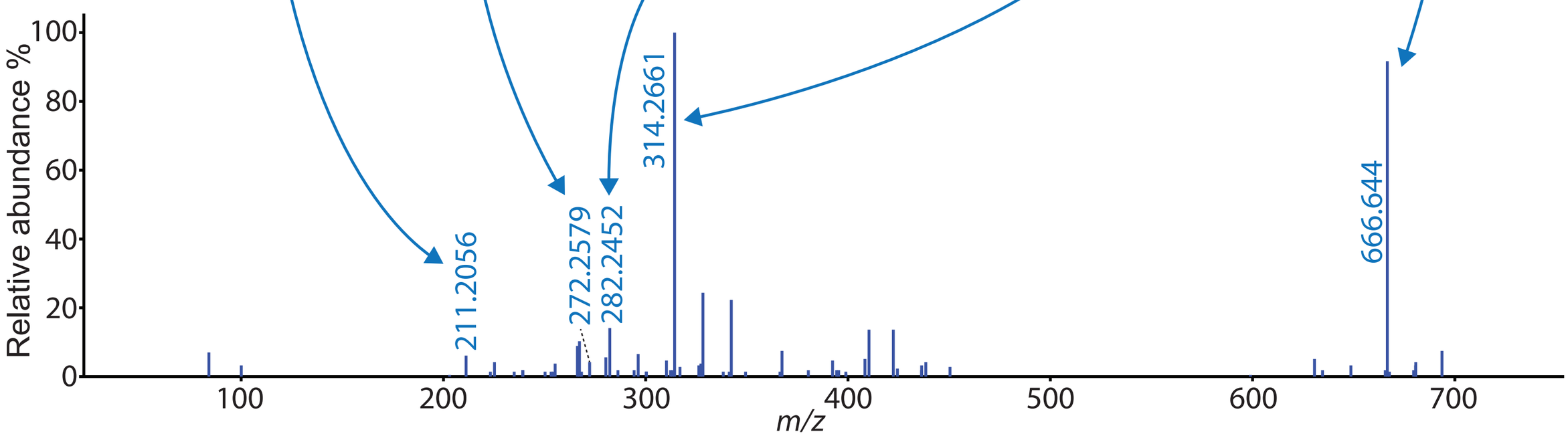


First bond cleavage

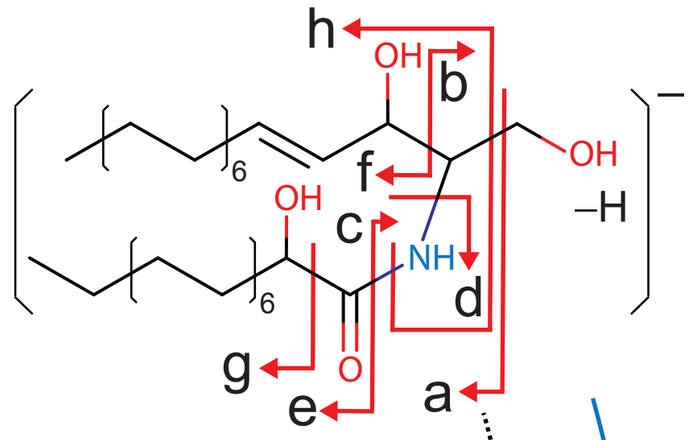
b: rule (N1 & N5) or (N2 & N4)



Second bond cleavage

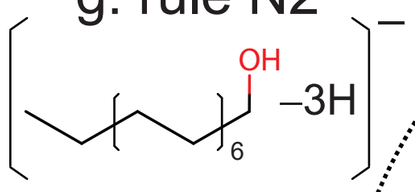


Ceramide [AS] (d18:1/16:0); $[M+CH_3COOH-H]^-$

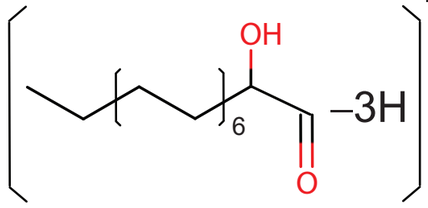


First bond cleavage

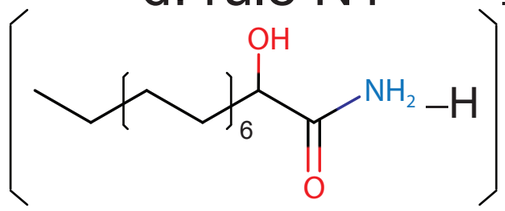
g: rule N2



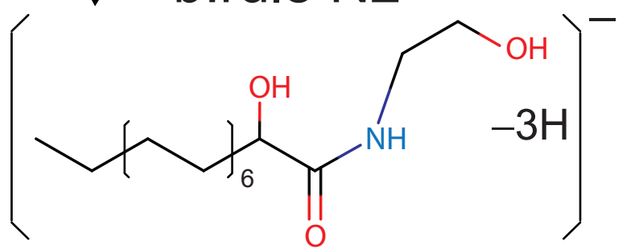
e: rule N2



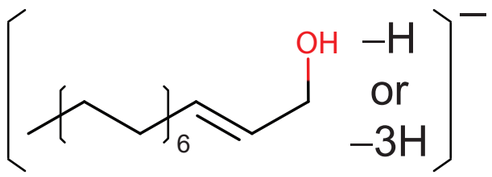
d: rule N1



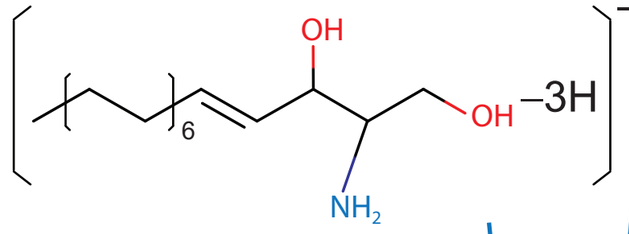
b:rule N2



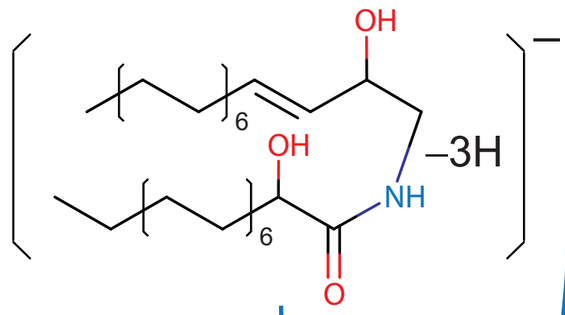
f: rule N1 or N2



c: rule N2

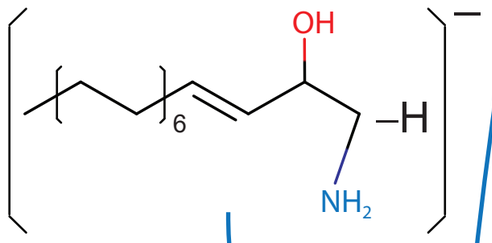


a: rule N2

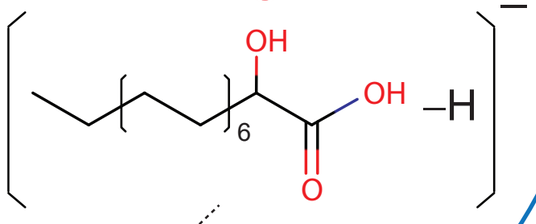


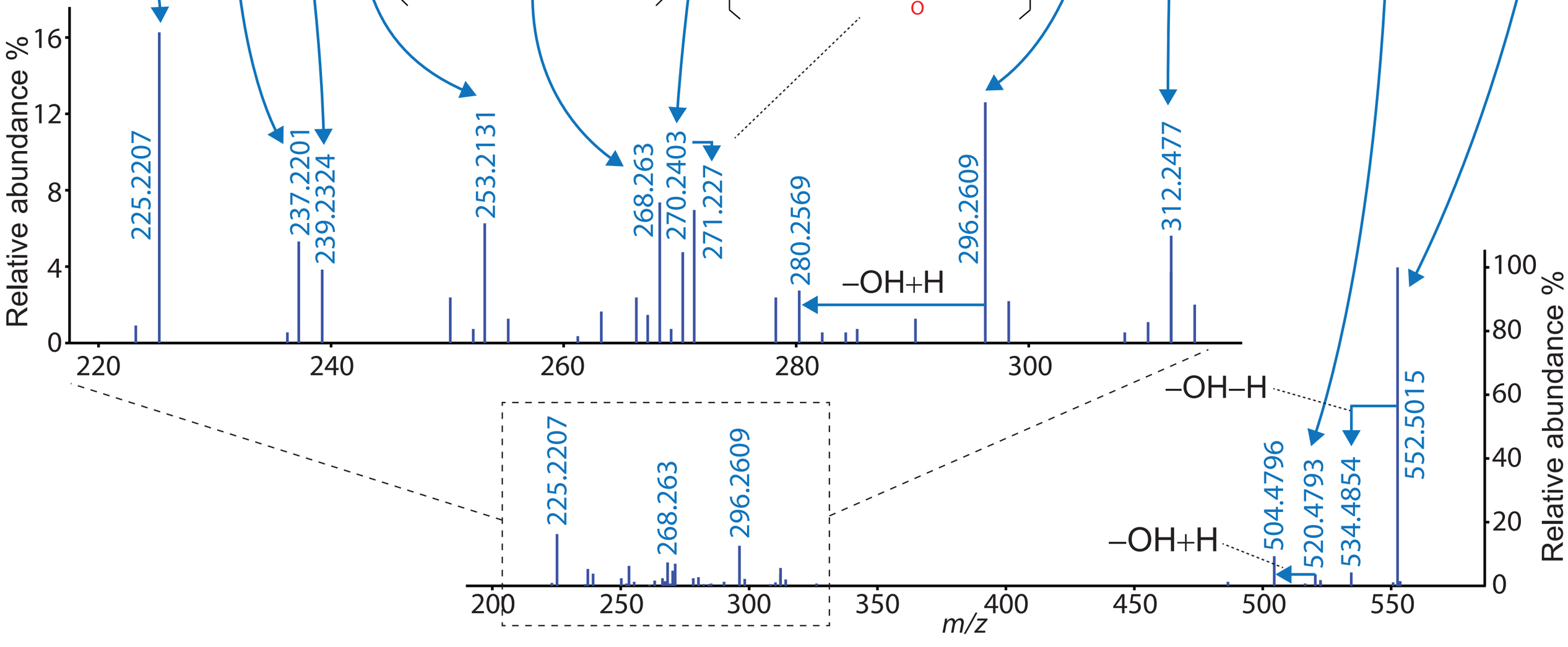
Second bond cleavage

h: rule N1 & N4

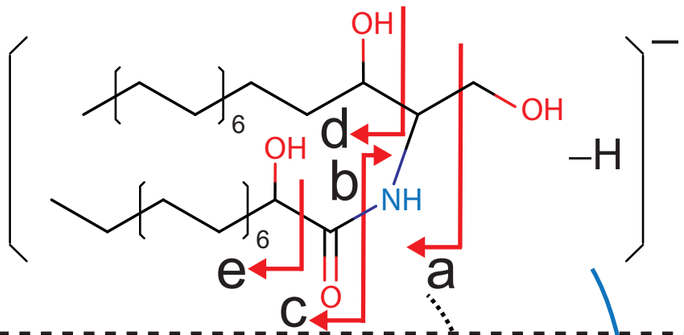


–NH+O rearrangement





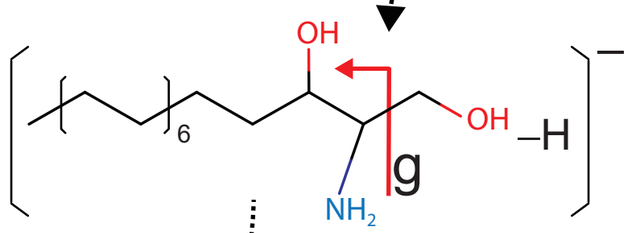
Ceramide [ADS] (d18:0/16:0); $[M+CH_3COOH-H]^-$



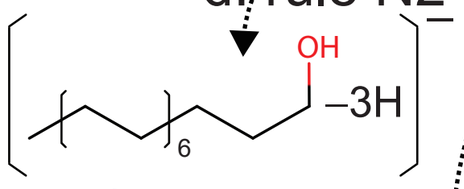
First bond cleavage

Second bond cleavage

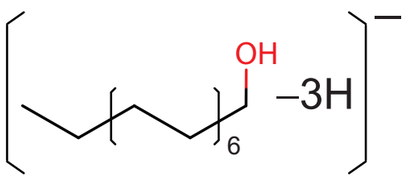
b: rule N1



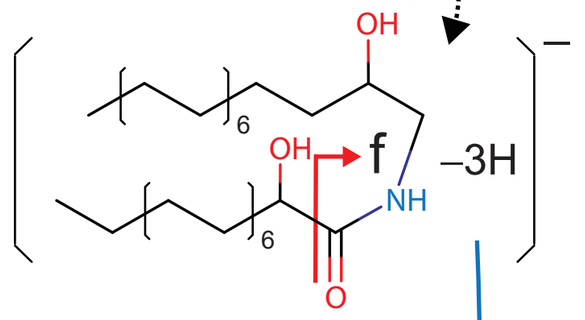
d: rule N2



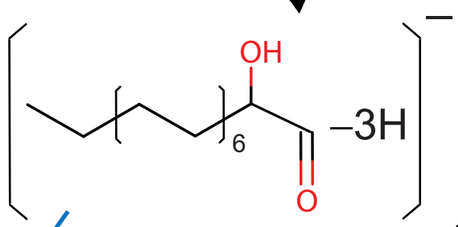
e: rule N2



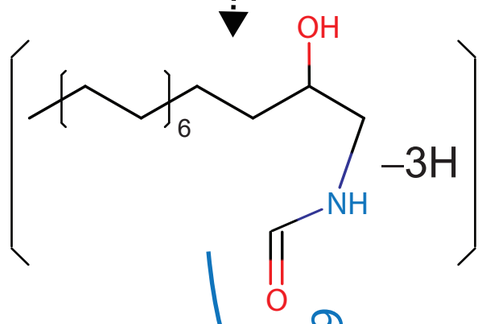
a: rule N2



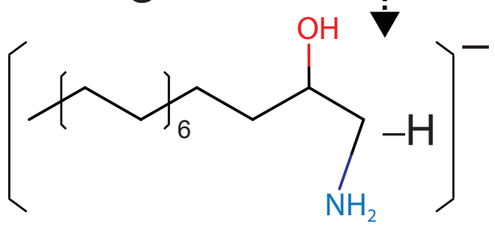
c: rule N2

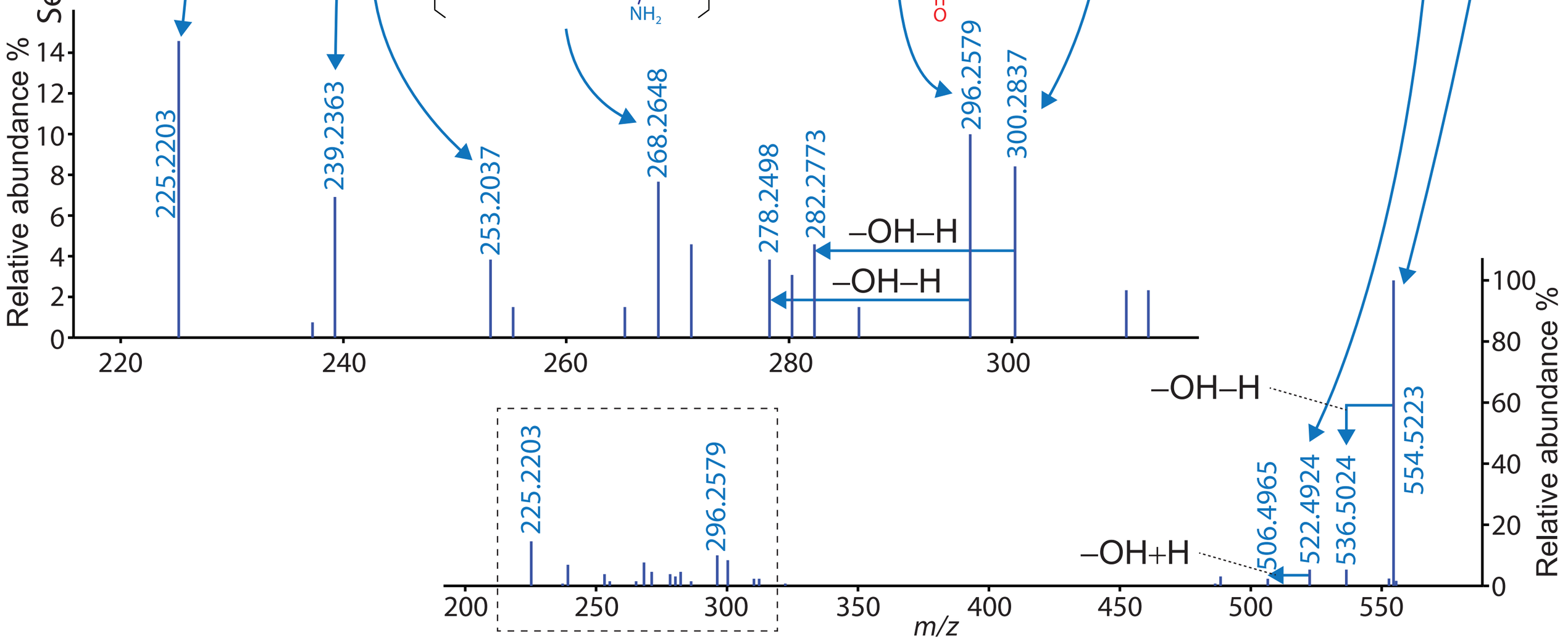


f: rule N4

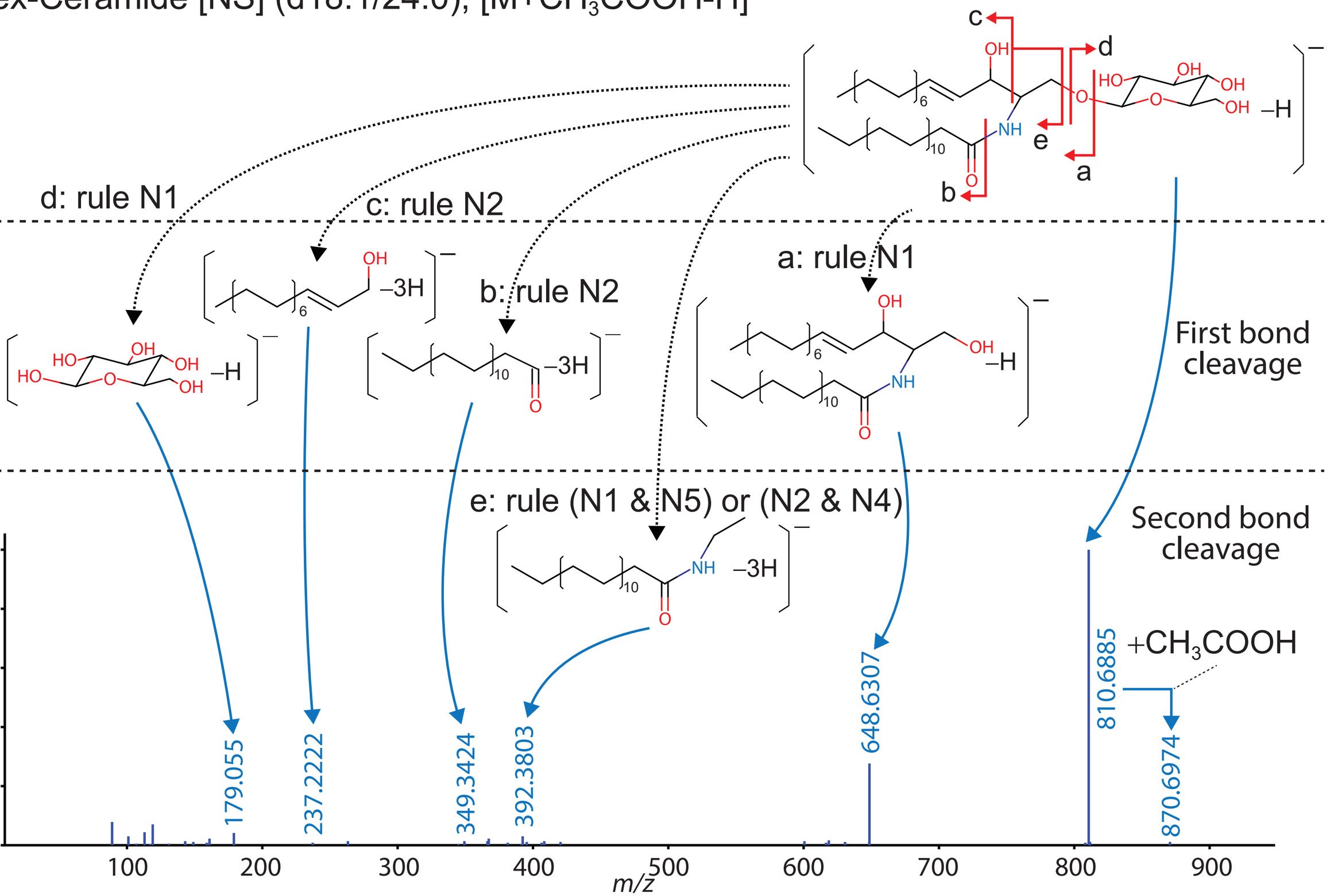


g: rule N4

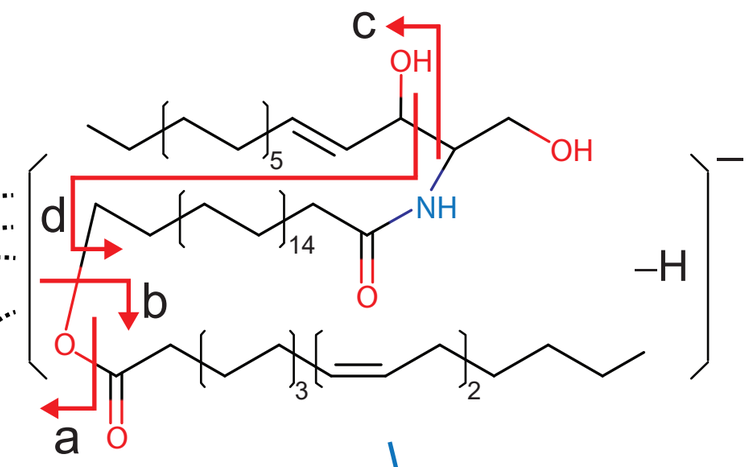




Hex-Ceramide [NS] (d18:1/24:0); $[M+CH_3COOH-H]^-$

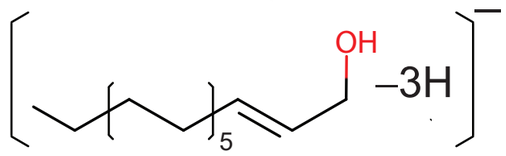


Ceramide [EOS] (d17:1/32:0-O-18:2); $[M+CH_3COOH-H]^-$

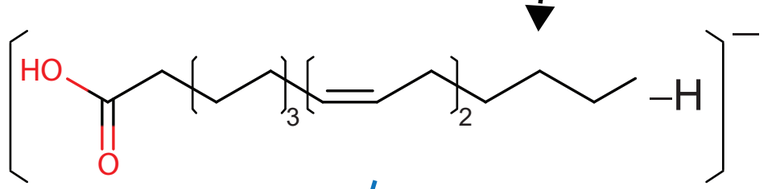


First bond cleavage

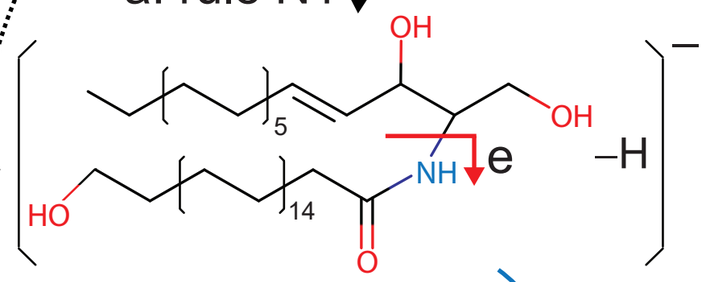
c: rule N2



b: rule N1

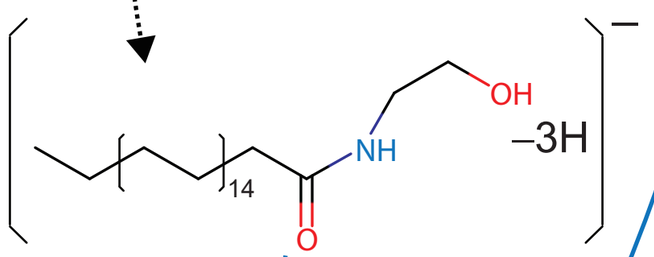


a: rule N1

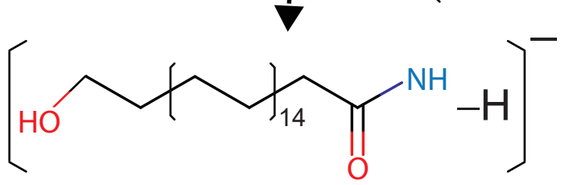


Second bond cleavage

d: rule (N1 & N5) or (N2 & N4)



e: rule N4



Ceramide [NP] (d18:0/16:0); $[M+CH_3COOH-H]^-$

b: rule N1

a: rule N1 or N2

d: rule N2 & N5

c: rule (N1 & N5) or (N2 & N4)

First bond cleavage

Second bond cleavage

–NH+O rearrangement

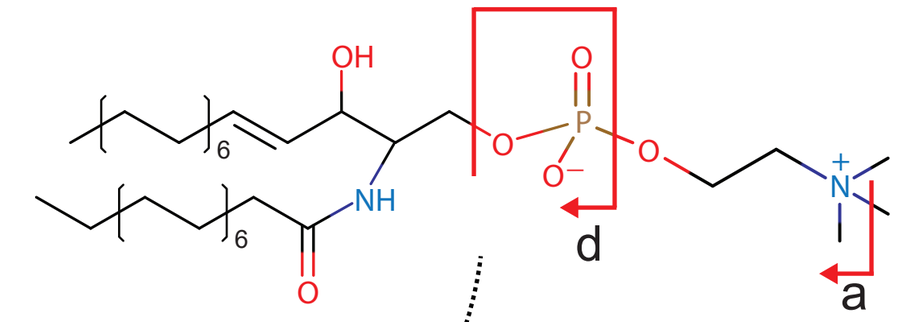
–OH–H

–OH–H×2

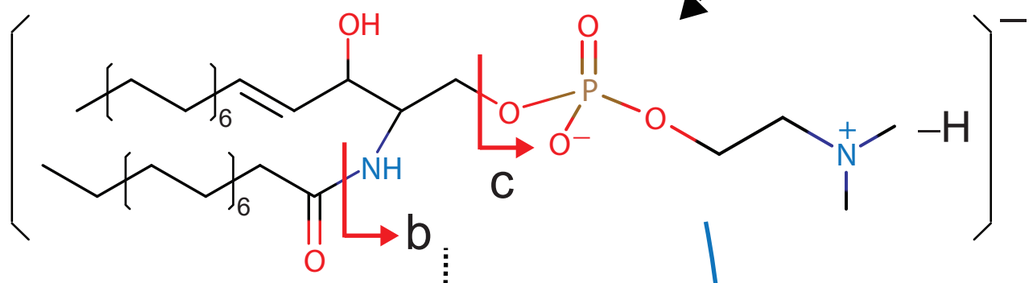
Relative abundance %

m/z

SM(d18:1/16:0); [M+CH_3COOH-H]$^-$

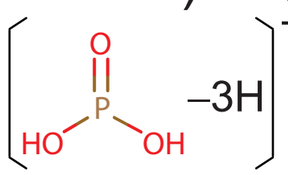


a: rule N1

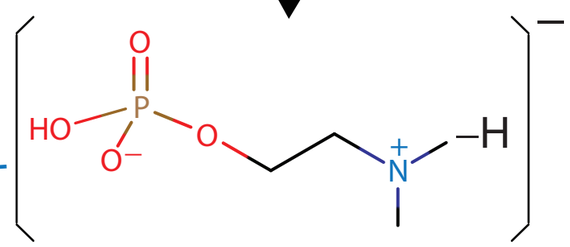


First bond cleavage

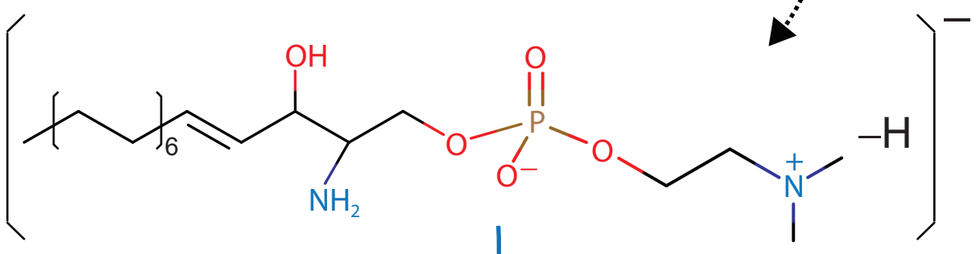
d: rule (N1 & N5) or (N2 & N4)



c: rule N4

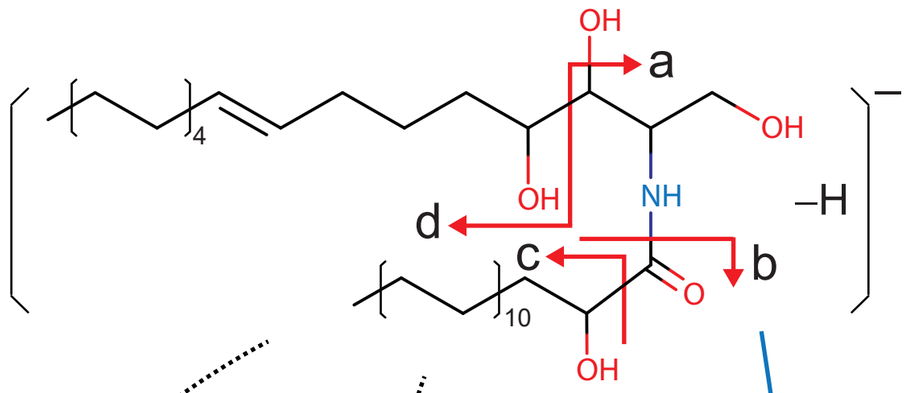


b: rule N4



Second bond cleavage

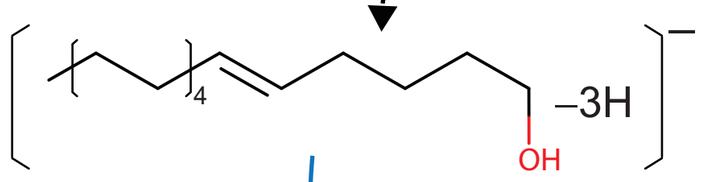
Ceramide [AP] (t18:1/24:0); [M-H]⁻



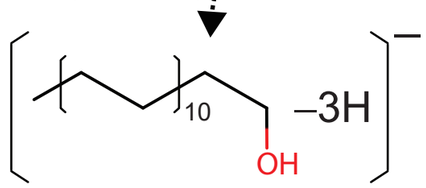
First bond cleavage

Second bond cleavage

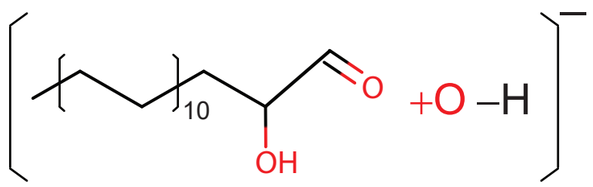
d: rule N2



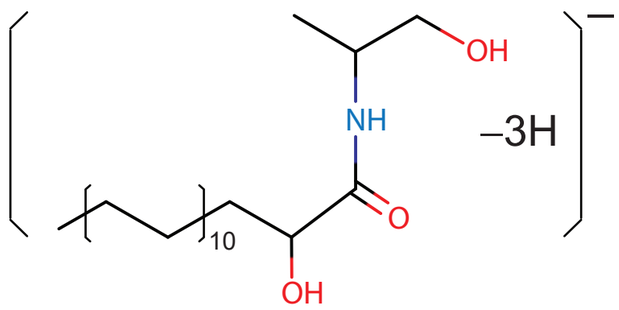
c: rule N2

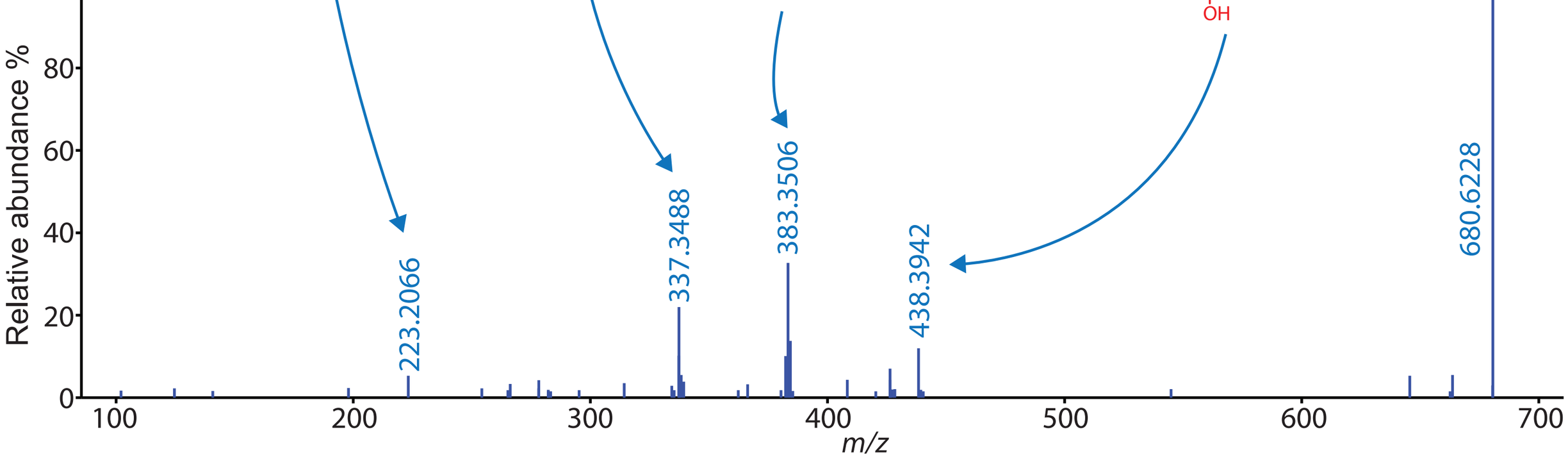


b: rearranged fragment

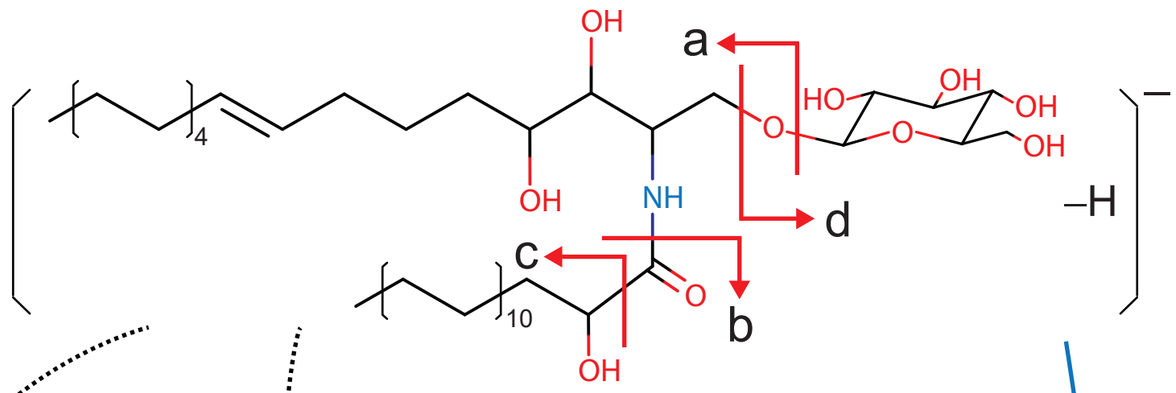


a: rule (N1 & N5) or (N2 & N4)



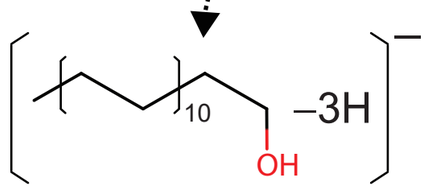


Hex-Ceramide [AP] (t18:1/24:0); [M-H]⁻

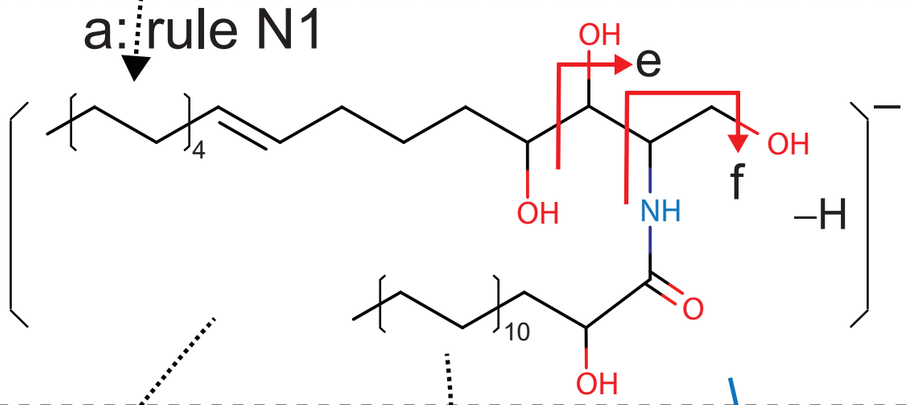


First bond cleavage

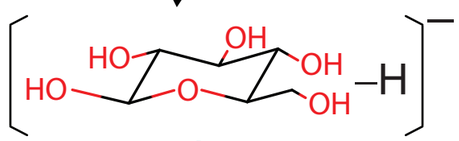
c: rule N2



a: rule N1

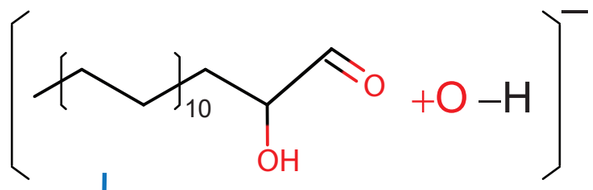


d: rule N1



b: rearranged fragment

Second bond cleavage



e: rule N4 & N5

f: rule N4 & N5