Deuterium Exchange in Keto-Enol Tautomerization

Name_____

Major Peaks for Acetylacetone (not deuterated)

m/z	Formula	Line structure	M+1/M exper.	M+1/M theory

Theoretical: For Neat Acetylacetone (i.e. not deuterated):

Parent Peak:

Isotope	#	Abundance	M+1/M Contribution	Isotope	#	Abundance	M+2/M Contribution
^{13}C							
^{2}H							
^{17}O				^{18}O			
Total							

Base Peak:

Isotope	#	Abundance	M+1/M Contribution	Isotope	#	Abundance	M+2/M Contribution
^{13}C							
^{2}H							
^{17}O				^{18}O			
Total							

Expected Mass for McLafferty rearrangement _____ m/z