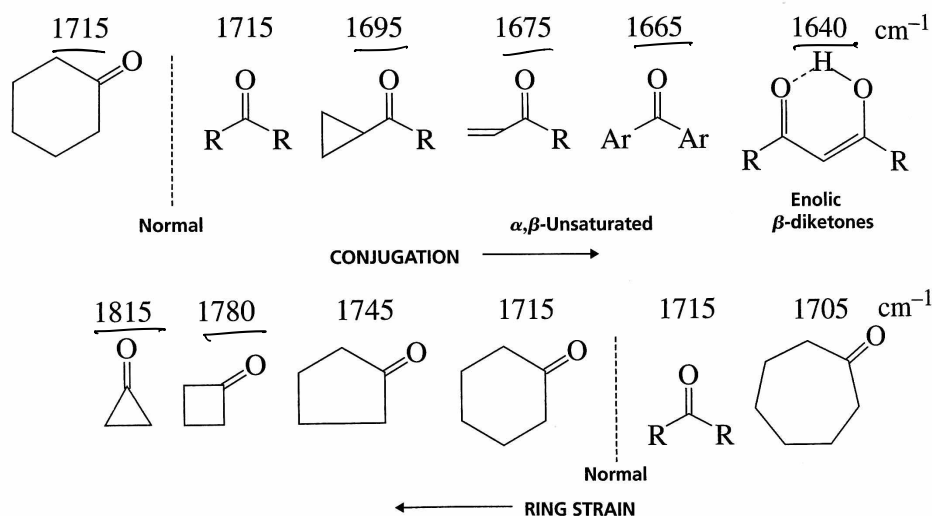
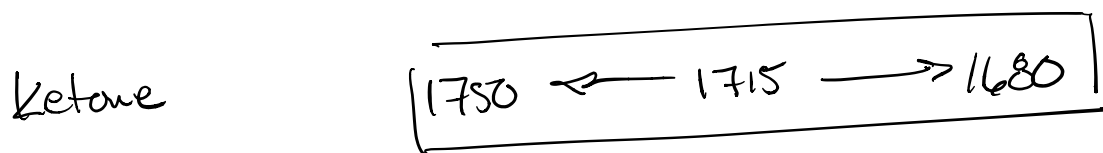
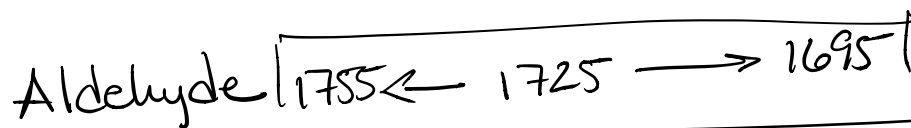
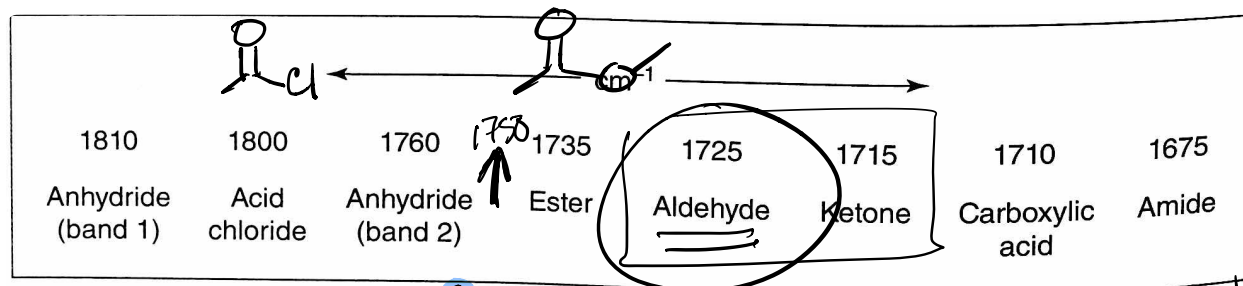
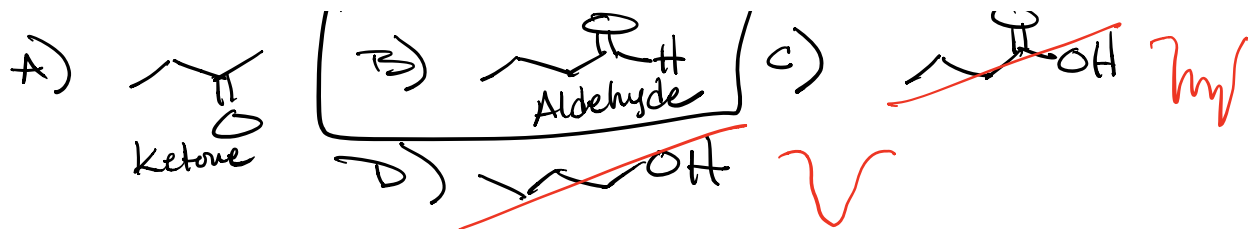
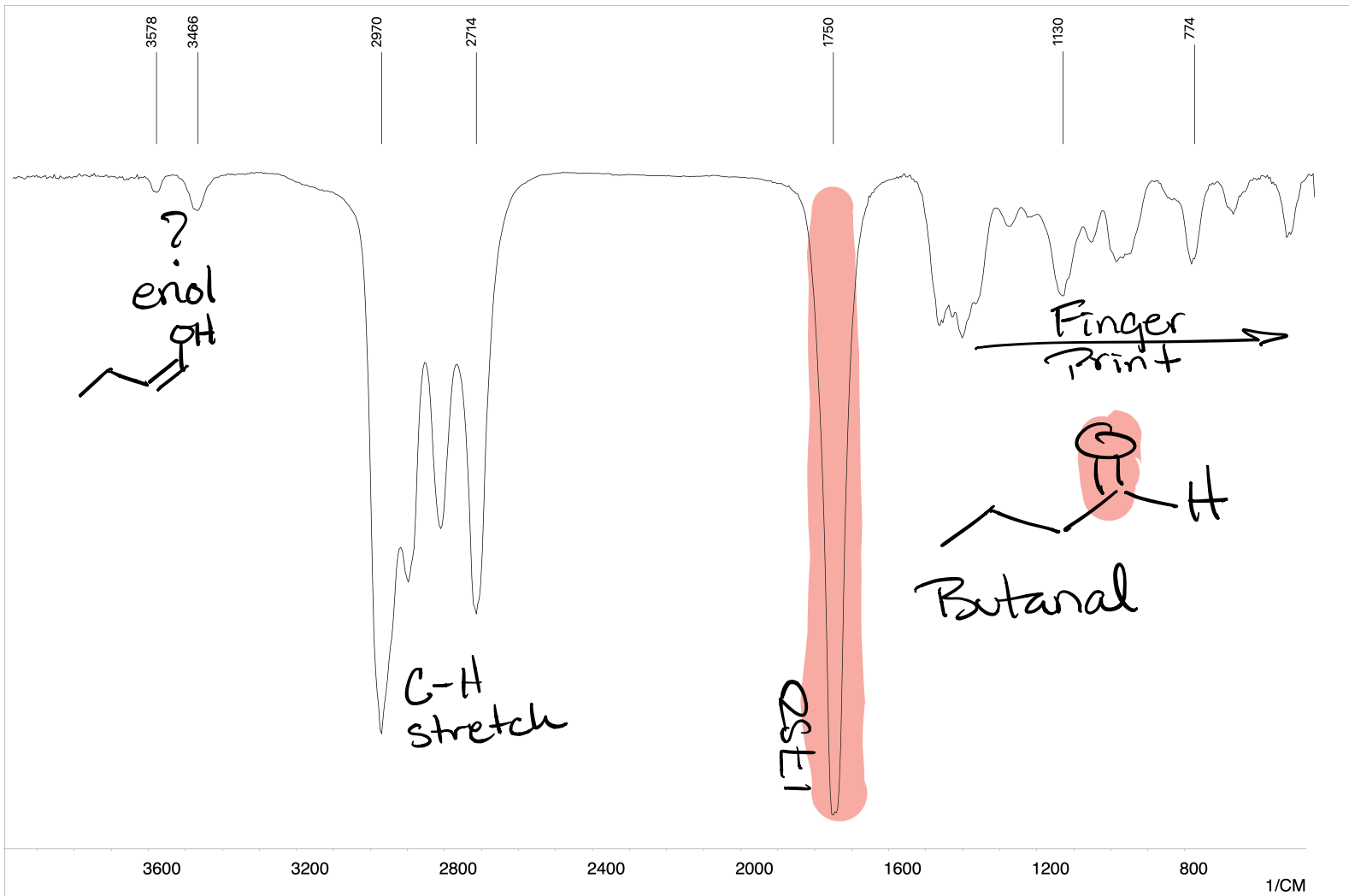


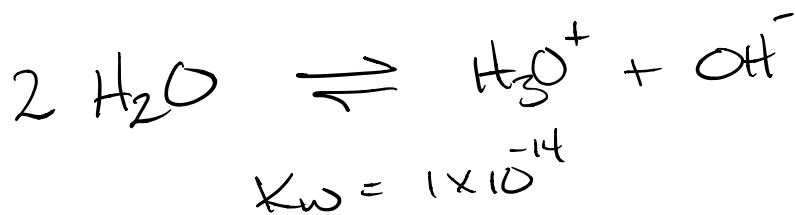
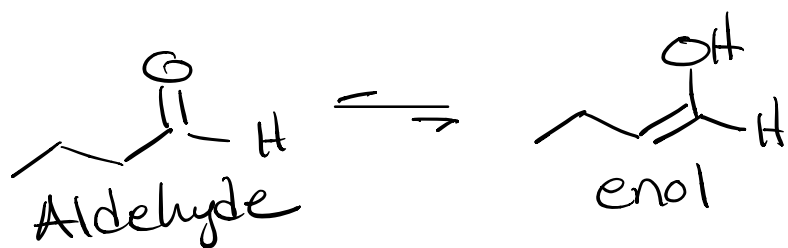
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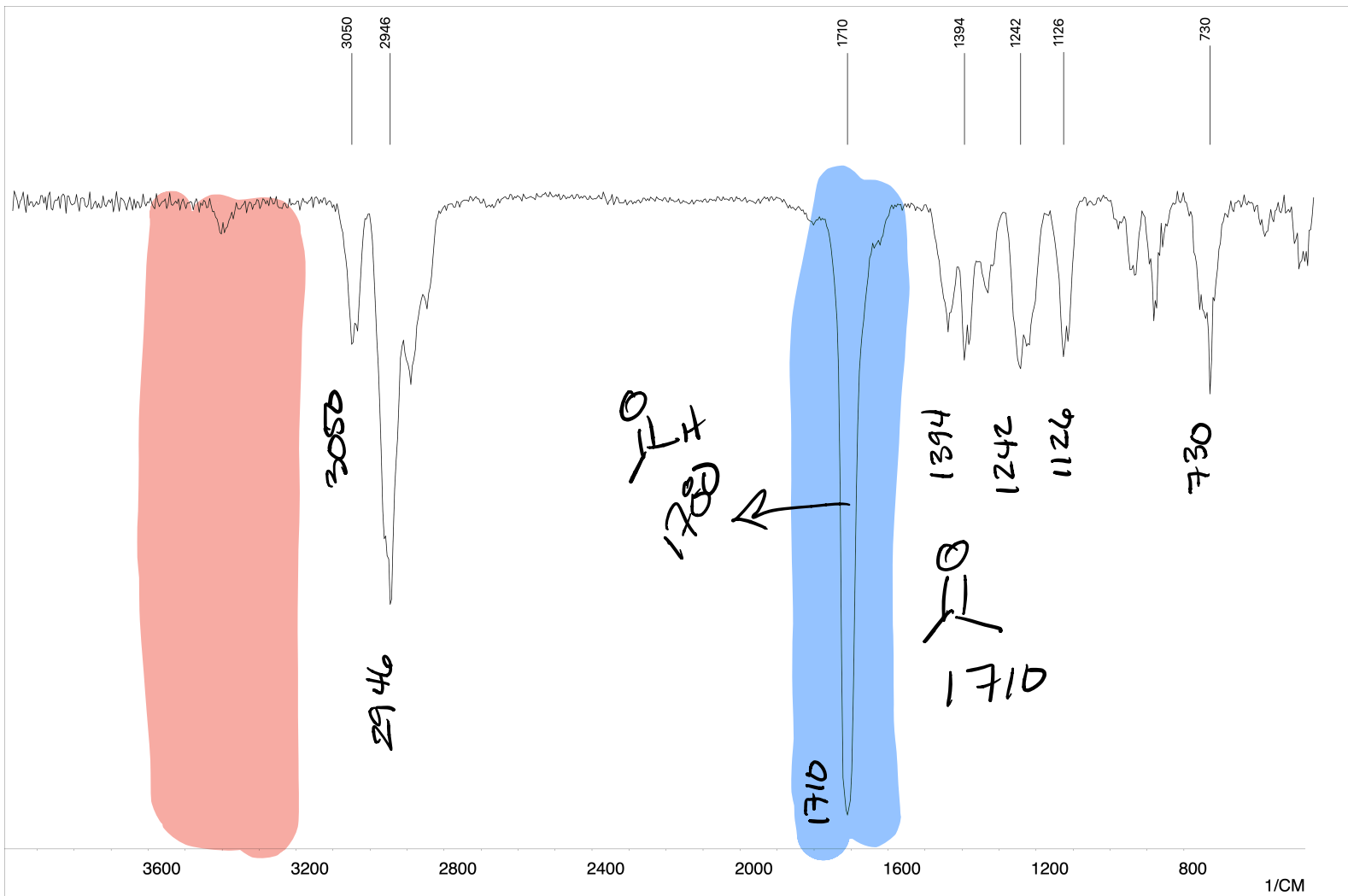
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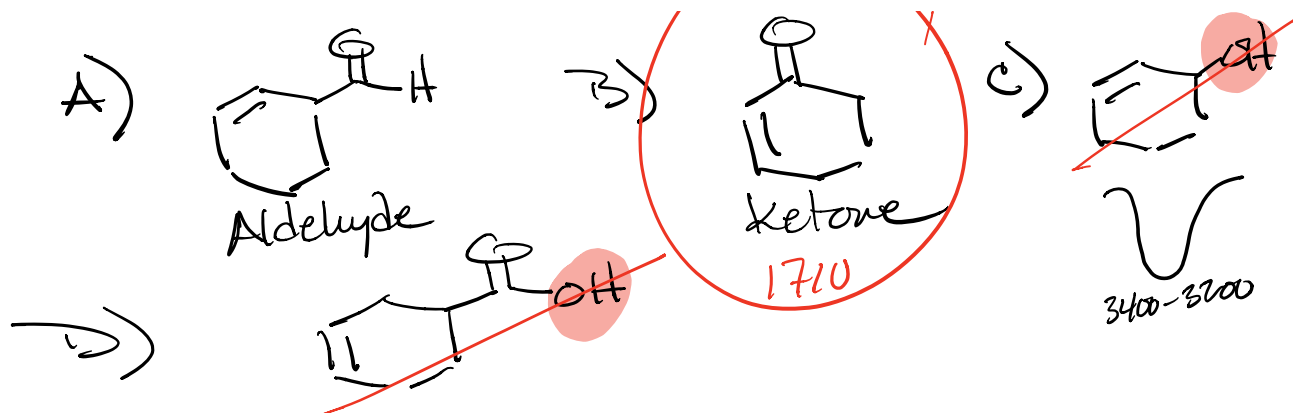
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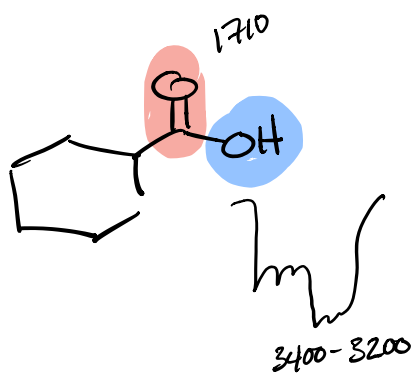


Printed: Wednesday, April 15, 2020 12:21:24 AM

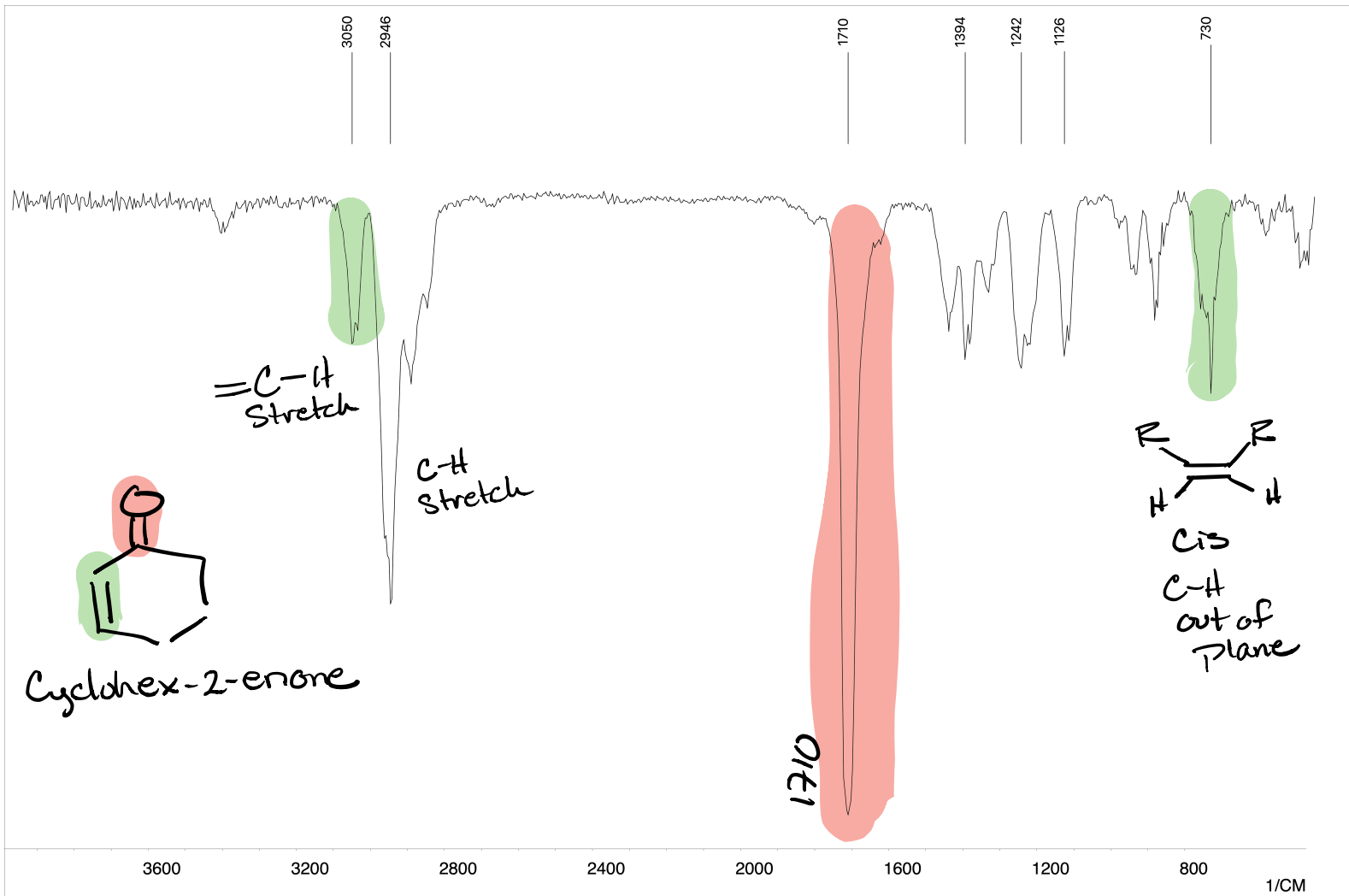
Printed: Wednesday, April 15, 2020 12:21:24 AM 2-Cyclohexen-1-one[INFRARED SPECTRUM]



cm ⁻¹							
1810	1800	1760	1735	1725	1715	1710	1675
Anhydride (band 1)	Acid chloride	Anhydride (band 2)	Ester	Aldehyde	Ketone	Carboxylic acid	Amide

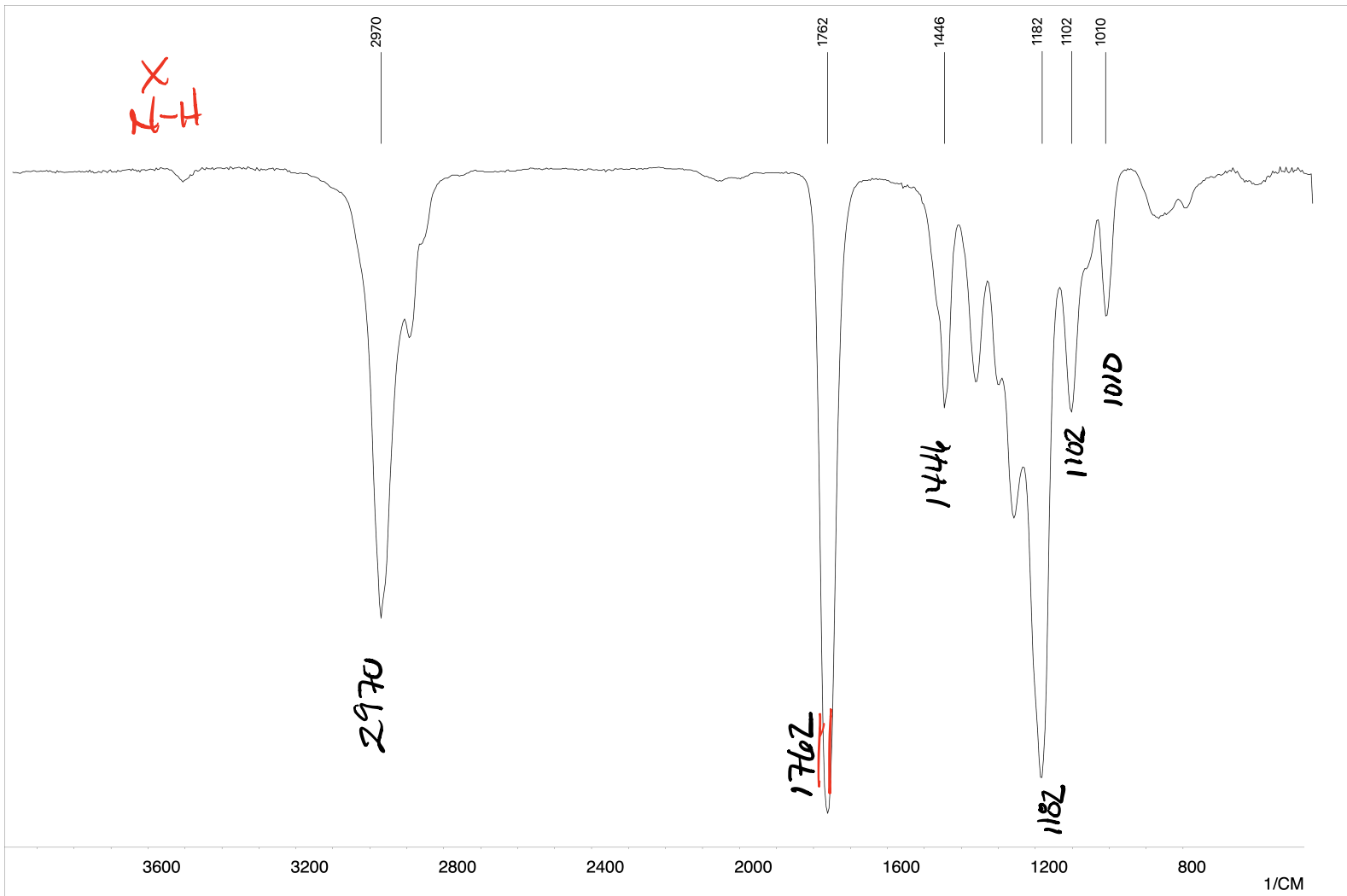


1710



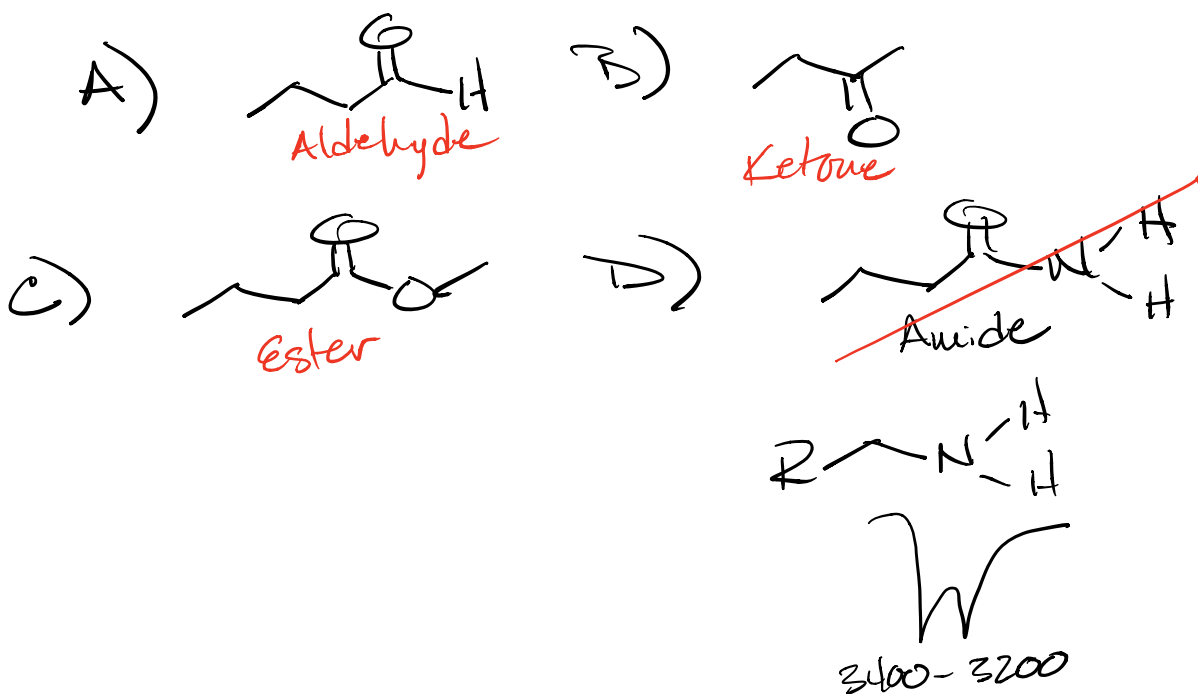
Printed: Wednesday, April 15, 2020 12:21:24 AM

Printed: Wednesday, April 15, 2020 12:21:24 AM 2-Cyclohexen-1-one[INFRARED SPECTRUM]



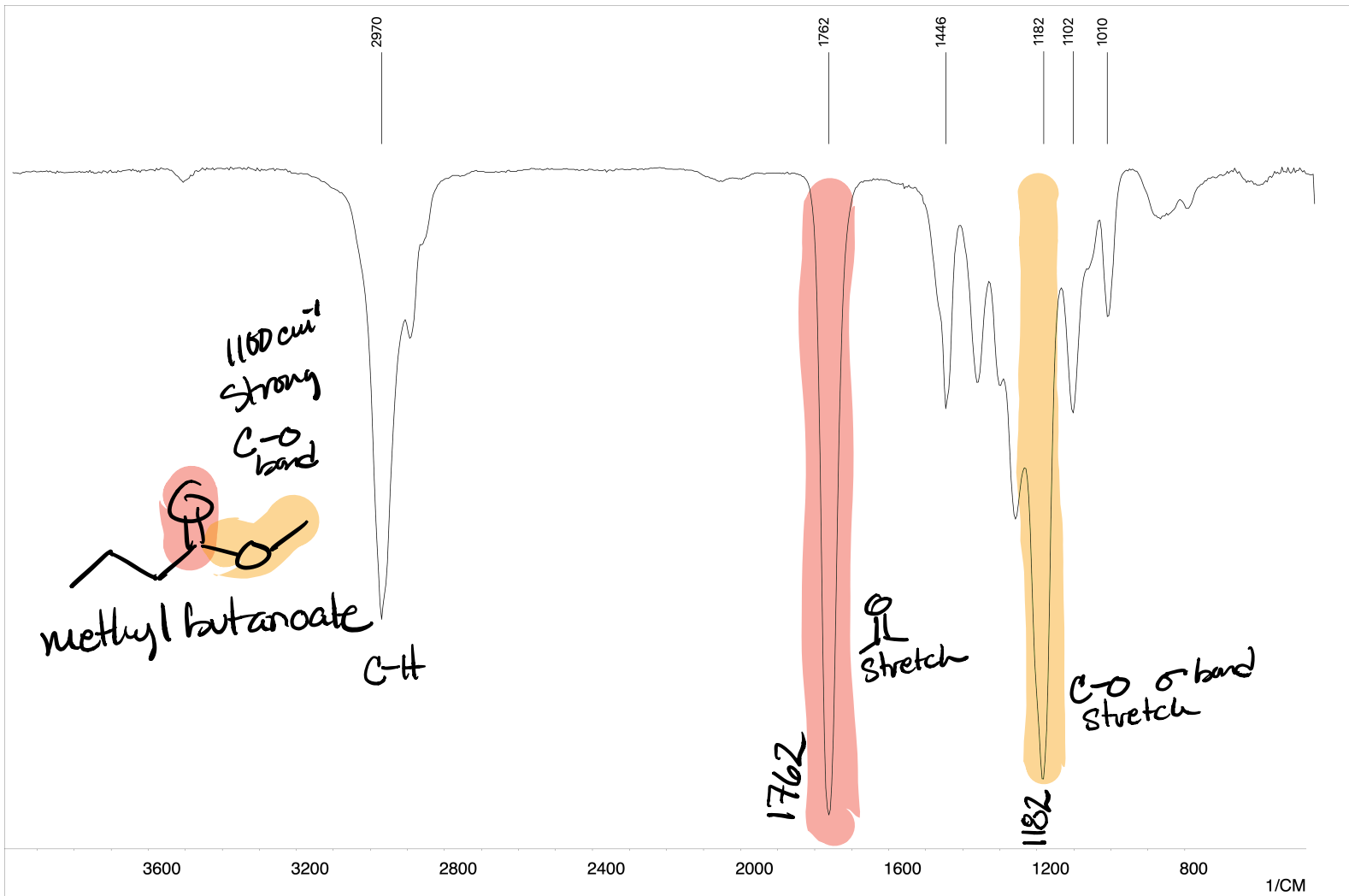
Printed: Wednesday, April 15, 2020 9:47:27 AM

Printed: Wednesday, April 15, 2020 9:47:27 AM Butanoic acid, methyl ester [INFRARED SPECTRUM]



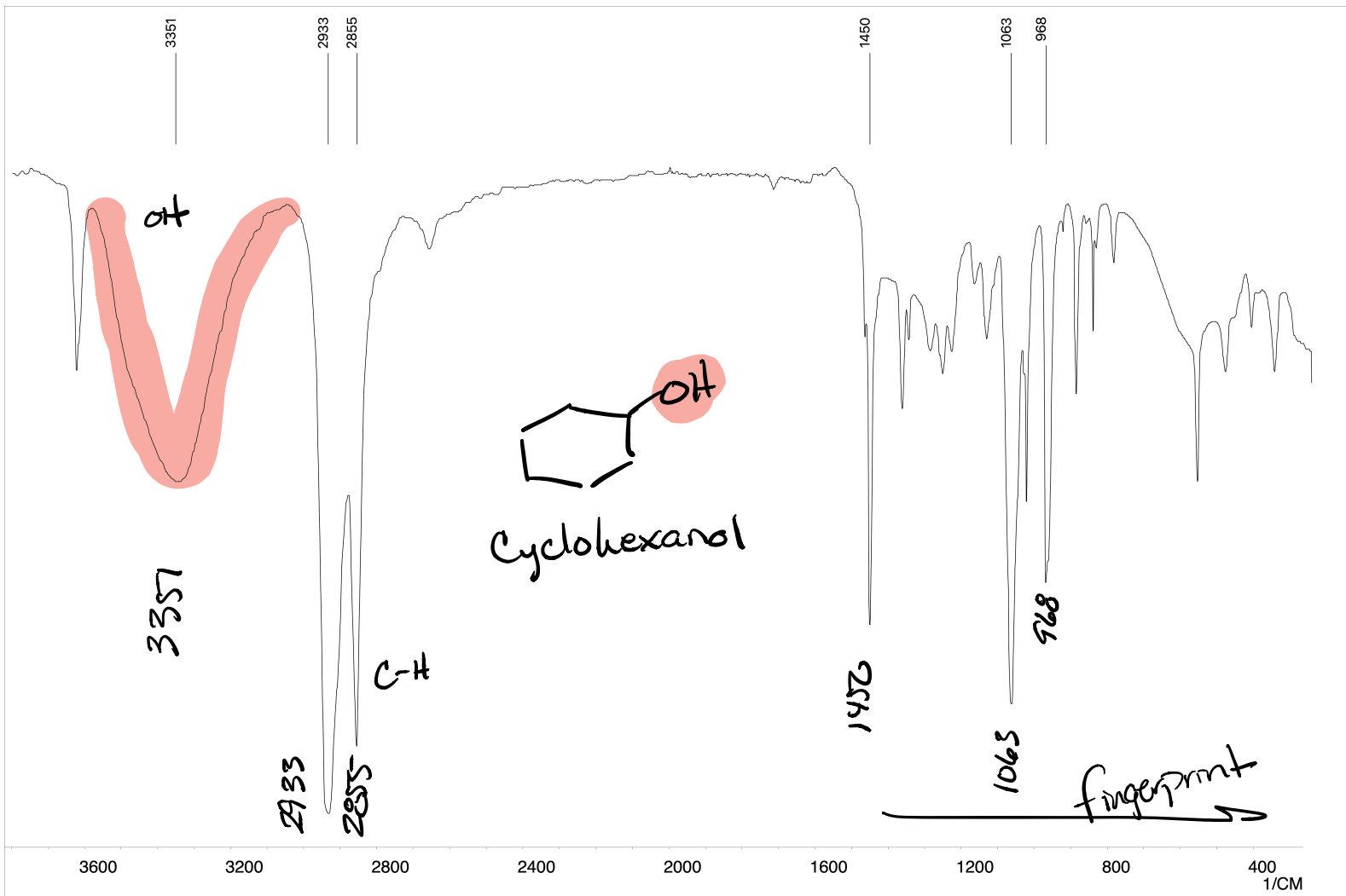
← cm ⁻¹ →							
1810	1800	1760	1735	1725	1715	1710	1675
Anhydride (band 1)	Acid chloride	Anhydride (band 2)	Ester	Aldehyde	Ketone	Carboxylic acid	Amide
			<i>C</i>	<i>A</i>	<i>B</i>		

1760



Printed: Wednesday, April 15, 2020 9:47:27 AM

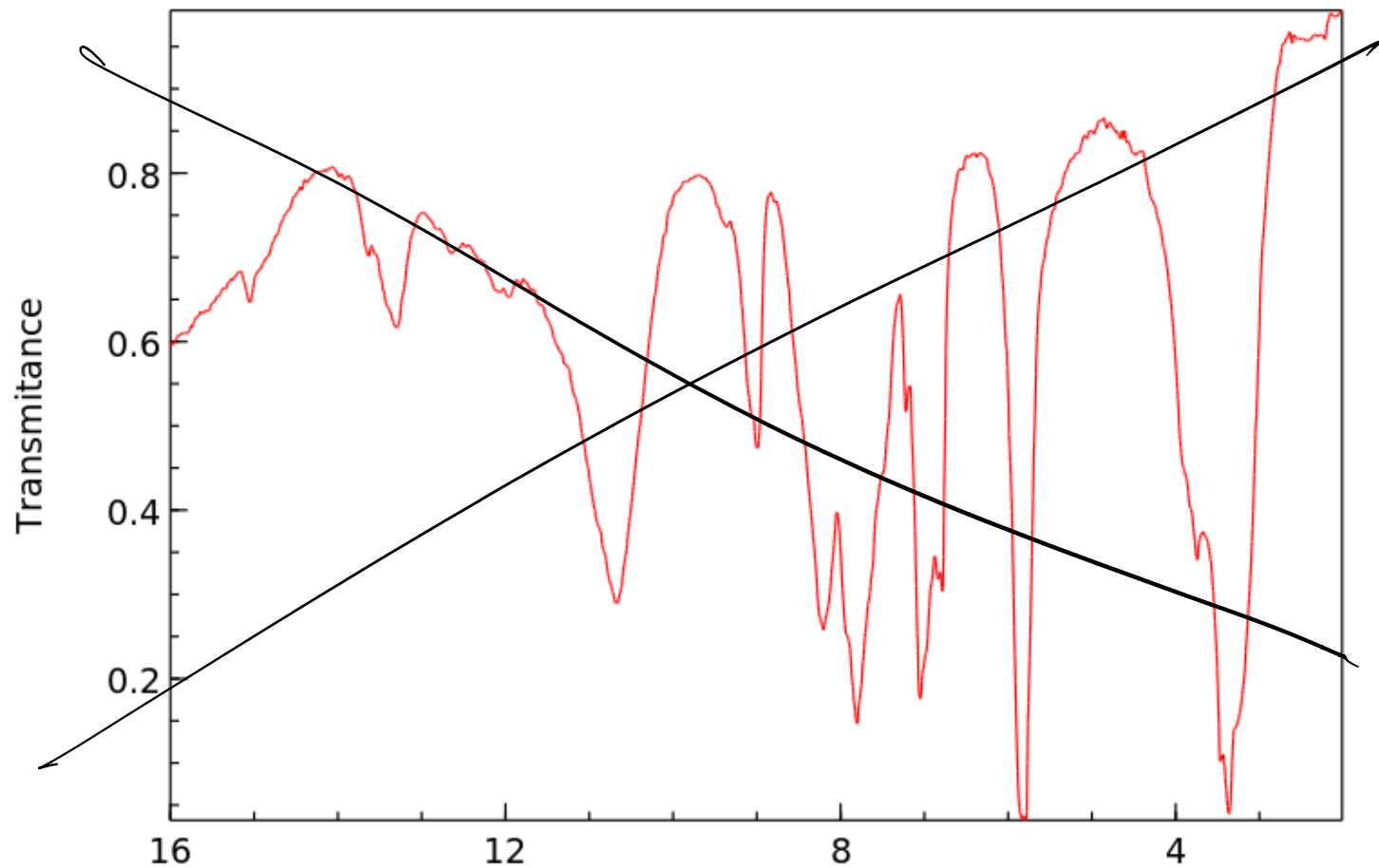
Printed: Wednesday, April 15, 2020 9:47:27 AM Butanoic acid, methyl ester[INFRARED SPECTRUM]



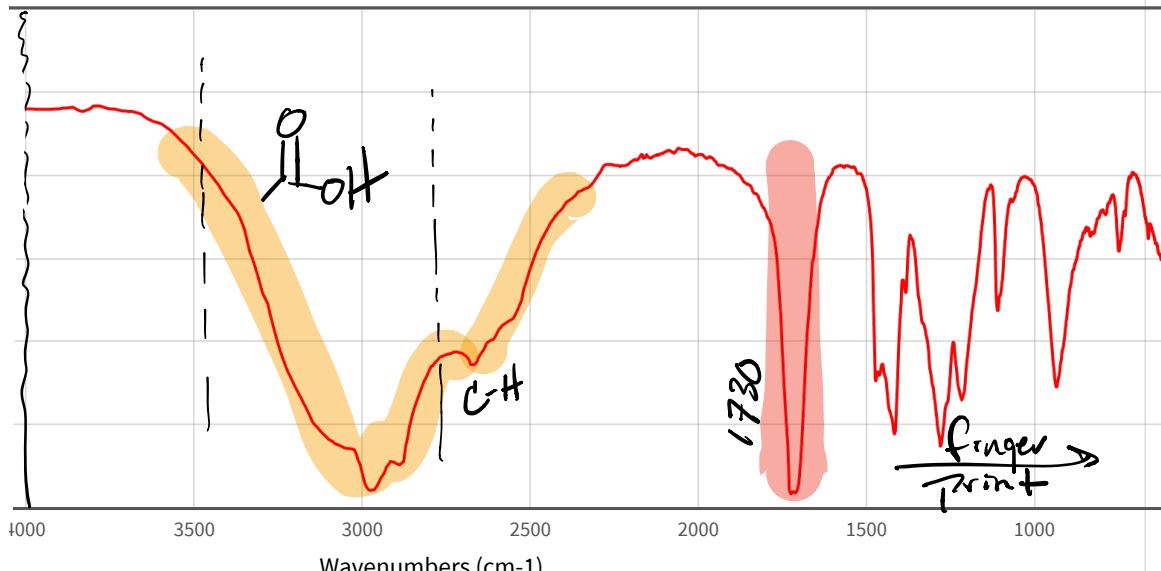
Printed: Wednesday, April 15, 2020 9:59:17 AM

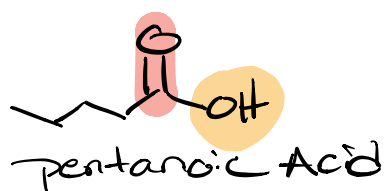
Printed: Wednesday, April 15, 2020 9:59:17 AM CYCLOHEXANOL[INFRARED SPECTRUM]

INFRARED SPECTRUM



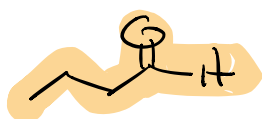
Infrared Spectrum





From Paria

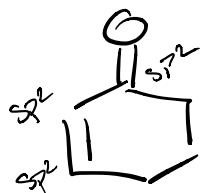
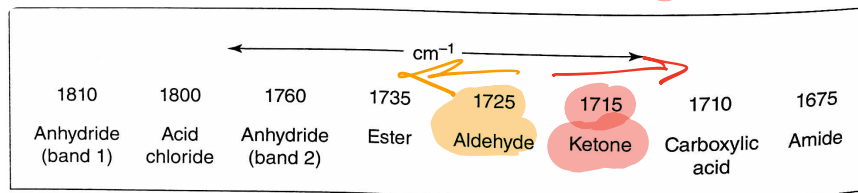
How would you distinguish between the two?



vs



type of Carbonyl

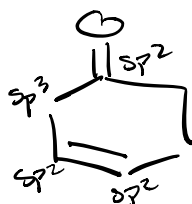


Cyclohex-2-en-1-one

Conjugated
all sp^2

1715 $\xrightarrow{-30\text{cm}^{-1}}$
Conjugation

1685



Cyclohex-3-en-1-one

not Conjugated

1715

