

Names: _____
Chem 227 / Dr. Rusay

Sec. _____

MS: Mass Spectrometry

Refer to: <http://chemconnections.llnl.gov/Organic/Chem227/lehman-13.html>

D) Using the infrared and weight percent data identify which unknowns contain a carbonyl group and which unknowns are respectively an alcohol or an ether. NOTE: not all compounds have a molecular ion.

A	
B	
C	
D	
E	
F	
G	
H	

II. Compare mass spectrograms of the alcohol and the ether. Write the structures of the key ion fragments with their respective m/z values that confirm your assignment.

alcohol::

ether:

III. Analyze the mass spectrogram of the ketone. Draw a possible structure for the complete compound and show the fragments with their respective m/z values that support your structure.