	CHEM 258 – Spring	Name
<u>Initita</u>	Unknown A - Preliminary Report (5 pts) l Observations Physical State:	Unk Number
	Color:	
	Odor:	
	Melting Point (if solid):	
	Boiling Point (if liquid):	
	Beilstein Test:	
	Ignition Test:	

IR spectrum analysis.

List all major absorptions and the structures they infer. (attach spectrum to report). If you report a 'probable' for a given structure then please list the reference absorption from your spectra.

Possible Structure	Reference Absorption(s)	probable	unlikely	indeterminate
	in cm ⁻¹			
Carbonyl				
(C=O)				
Hydroxyl				
(O-H)				
Carbon-oxygen				
(C-O)				
Aromatic ring/double bond				
(C=C)				
Aromatic/vinyl				
(C-H)				
Aliphatic				
(C-H)				
Aldehyde				
(C-H)				
Amine				
(N-H)				
Misc structures				
(nitro etc)				

<u>General conclusions from preliminary report</u>
What functionalities may be present? What functional groups appear to be absent?