Report - Identification of an Organic Compound

Unknown No								
1.	1. Physical examination:							
a)	Physical state:	b) Color:	c) Odor:					
d)) Ignition test:							
2.	2. Physical constants (as appropriate):							
a)) mp	b) bp	c) n _D					
3.	3. Elements present (other than C, H, O)							
C	Cl Br I N S							
4. Solubility characteristics:								
	Conclusions:							
5.	i. IR spectrum (attach a properly labeled copy of the spectrum to the report):							
	a) Position and intensity (weak, medium, strong) of the principal peaks. Differentiate between peaks found in the diagnostic region and fingerprint region.							

b)	Assignment of IR peaks to possible functional groups:				
6	Classification tests:				
0.					
7.	Elemental analysis (perce	nt composition):			
8.	Empirical formula:				
	Proton NMR spectrum: Chemical shift (ppm) signment	Relative area	Multiplicity	Possible	

	C-13 NMR spectrum: Chemical shift (ppm) gnment	Multiplicity	Possible
11.	Derivatives, including melting poin	ts.	
12.	Conclusion as to structure:		
12	Justification for structural assignmen	ant. Under this heading, show that your na	roposed structure
is co	onsistent with the data. Report refere	ent. Under this heading, show that your prence values for relevant physical propertion pearance of the NMR spectra, and correlated to the NMR spectra.	es to compare

functional groups with peaks in the IR spectrum.