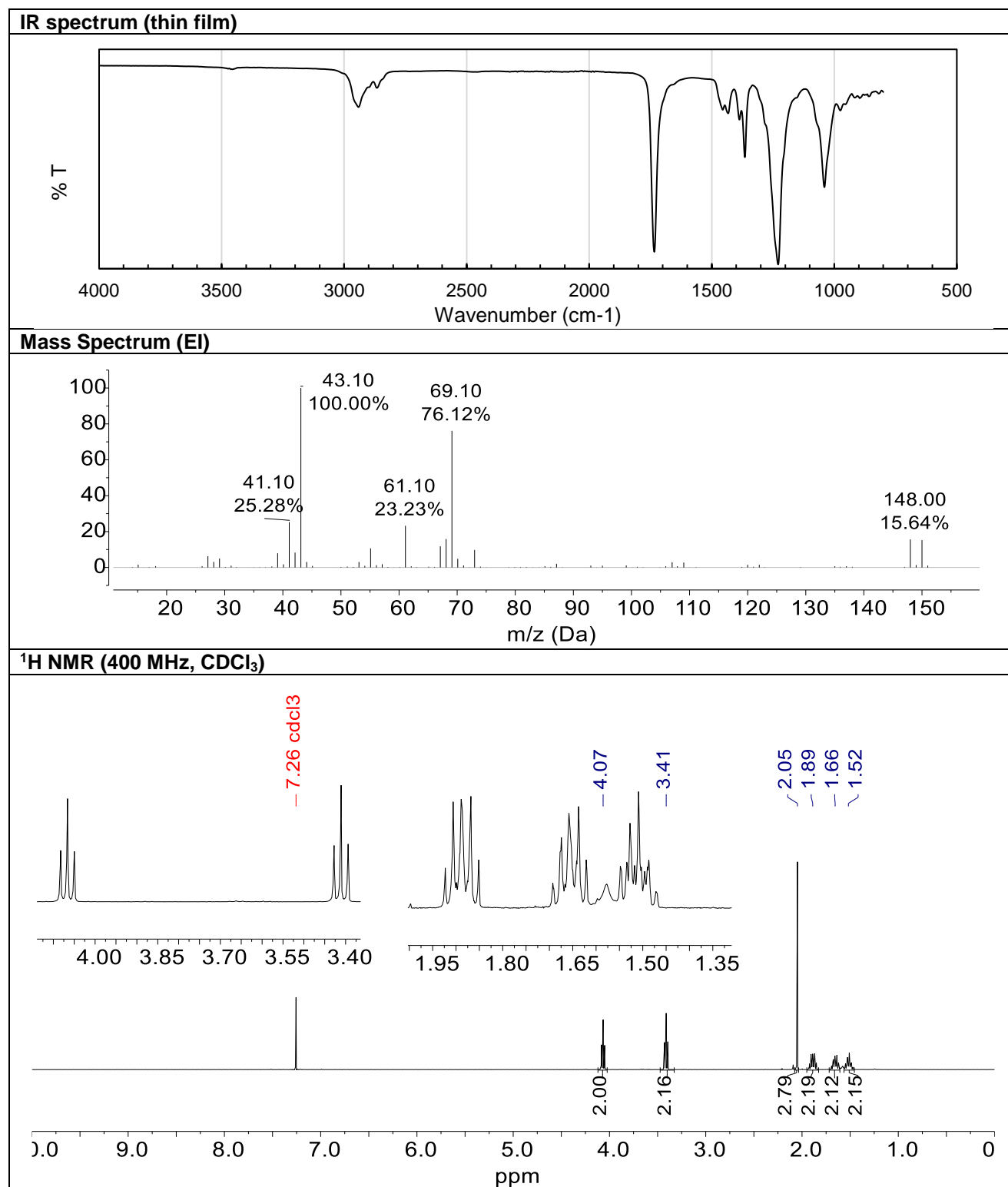
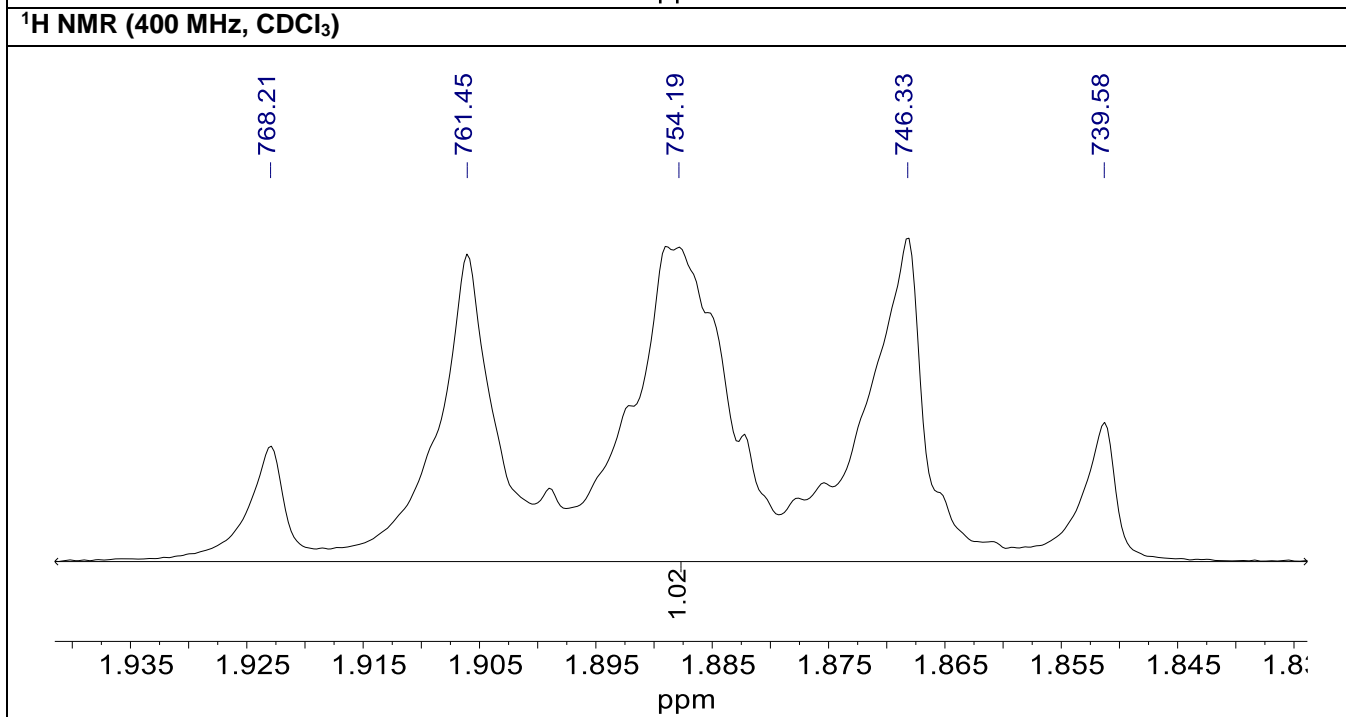
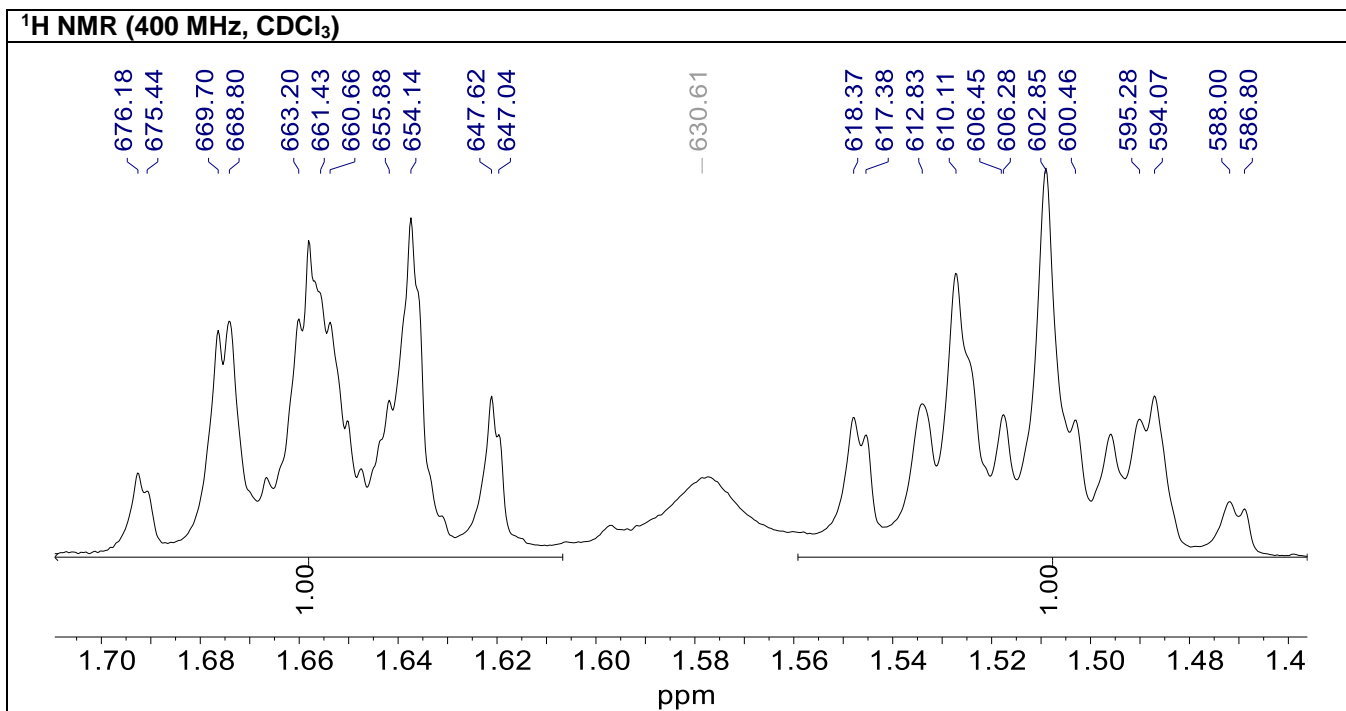
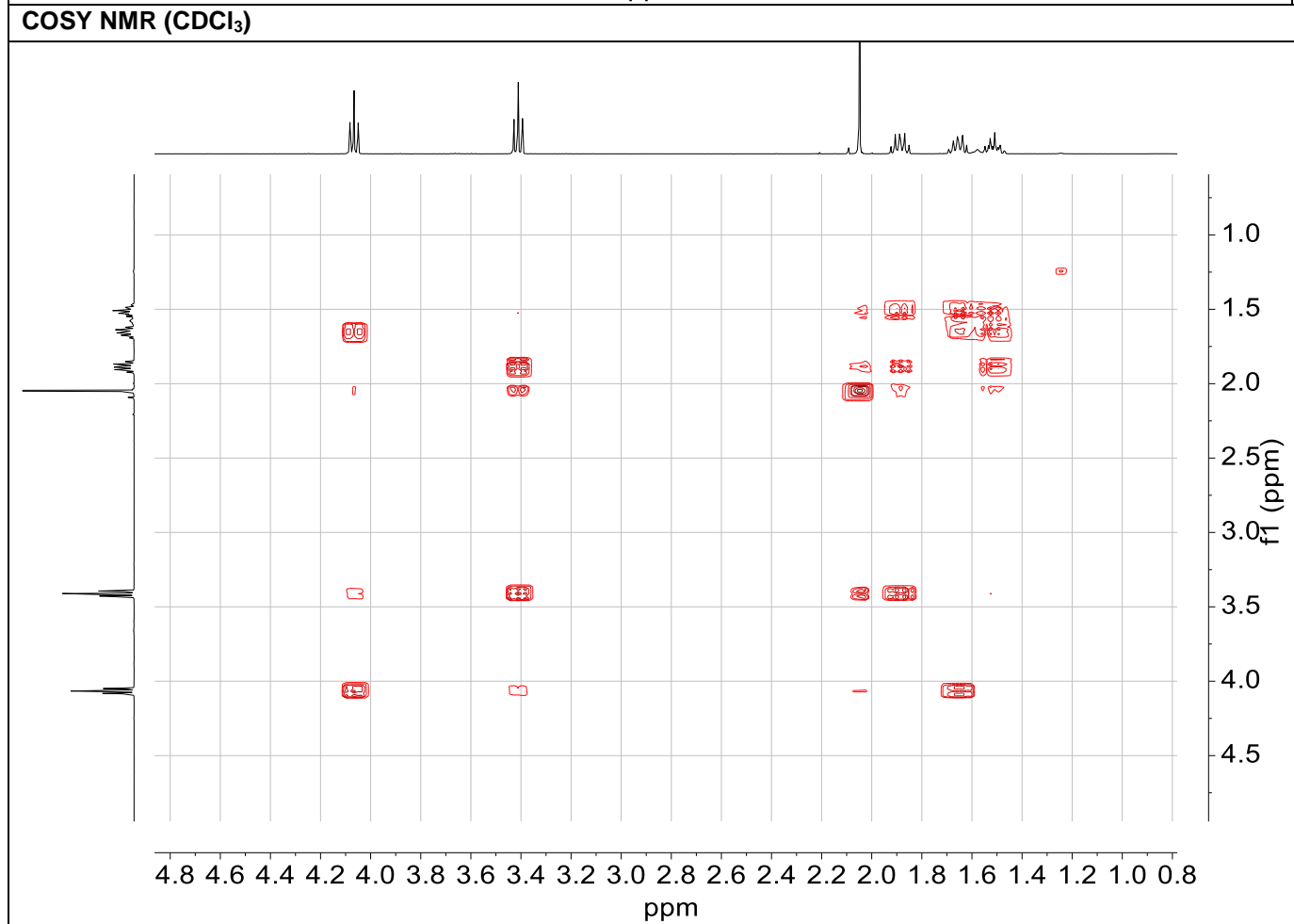
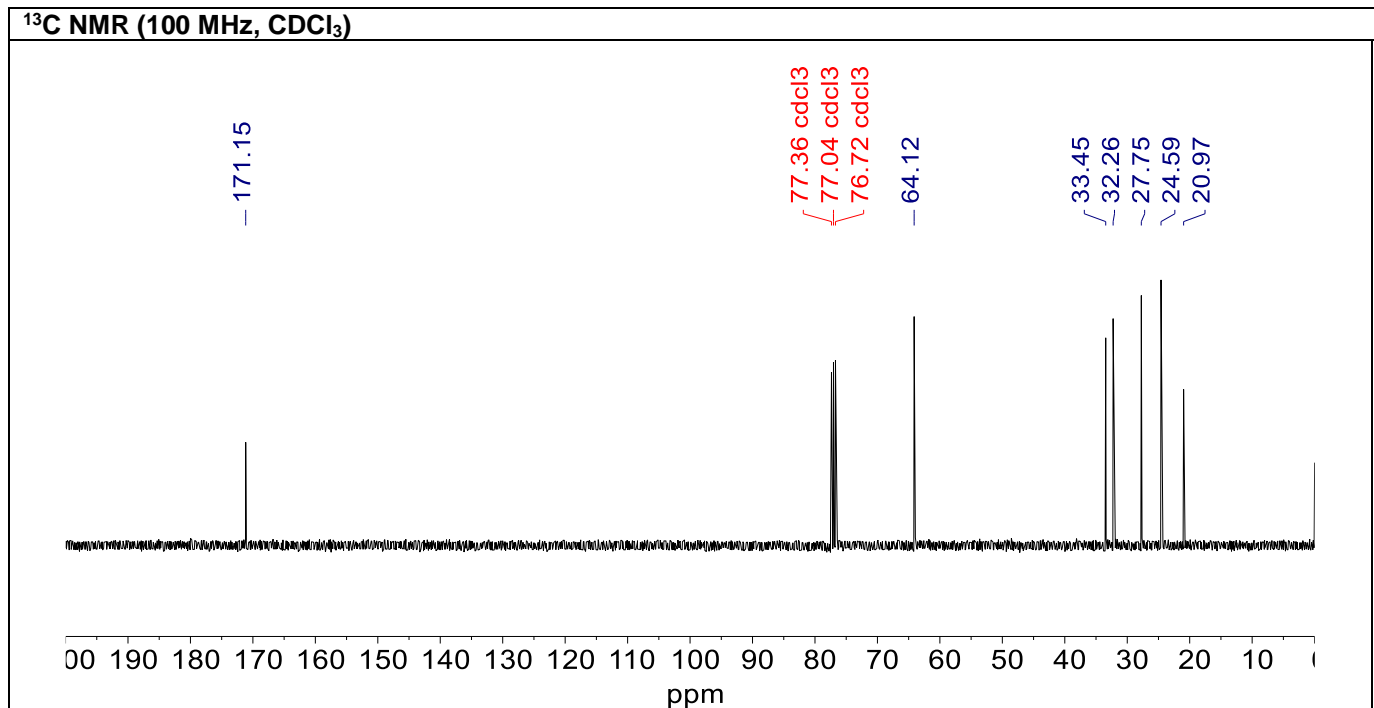


**Spectral Data for 5-bromopentyl acetate ( $C_7H_{13}BrO_2$ )**





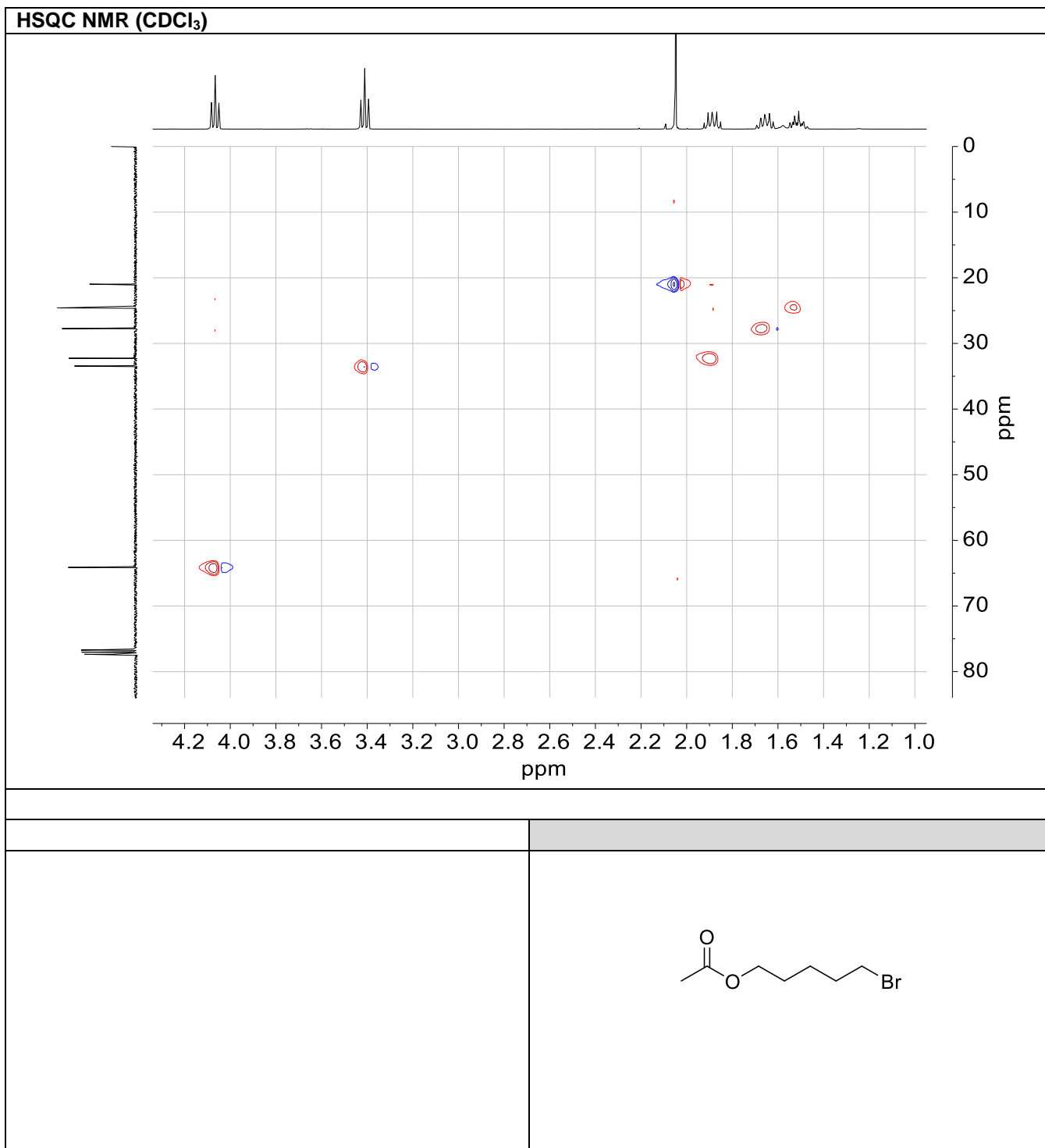


Table 1:  $^1\text{H}$  NMR data (400 MHz) for 5-bromopentyl acetate in  $\text{CDCl}_3$ 

Peaks	Chemical Shift $\delta$ (ppm)	Multiplicity	J values (in Hz)	Integrals	Labeled ChemDraw Structure
a	1.46 – 1.56	m	--	2H	
b	1.61 – 1.70	m	--	2H	
c	1.85 – 1.93	m	--	2H	
d	2.05	s	--	3H	
e	3.41	t	6.6	2H	
f	4.07	t	6.5	2H	

Table 2:  $^{13}\text{C}$  NMR data (100 MHz) for 5-bromopentyl acetate in  $\text{CDCl}_3$ 

Peaks	Chemical Shift $\delta$ (ppm)	Labeled ChemDraw Structure
A	21.0	
B	24.6	
C	27.8	
D	32.3	
E	33.5	
F	64.1	
G	171.2	

Table 3: Prominent peaks in IR (neat)

Peaks	Wavenumber ( $\text{cm}^{-1}$ )
C=O stretch	1740
Aliphatic C-H stretch	> 3000
C-O Stretch	1230

Table 4: Mass Spectrum data

Distinct Peaks	m/z value	Possible Fragment
Molecular Ion ( $\text{M}^+$ )	148.0	
Base Peak ( $\text{M} - 105$ )	43.1	
M - 79	69.1	$\text{C}_5\text{H}_9^+$