NMR Problems #2

Snyder, John K.

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Boston University
3) The following $^1$H NMR spectra display the expanded aromatic regions for the five compounds [1 - 5] shown below. Assign each spectrum to the correct compound. Each spectrum was run in CDCl$_3$, with residual CHCl$_3$ used as a reference at 7.24 ppm. (10 pts)

- Br
- CH$_2$CH$_3$
- CHO
- NO$_2$
- NH$_2$
1) Below and attached are the spectra for 1,3-dichloropropane and 3-bromo-1-chloropropane. Which is which? (Write the correct name on each spectrum). Assign each peak in the spectrum to the correct proton(s) by drawing an arrow from the protons(s) to the peak, and assign the multiplicity of each resonance by writing the correct designation above each signal. (Spectrum were run in CDCl₃).