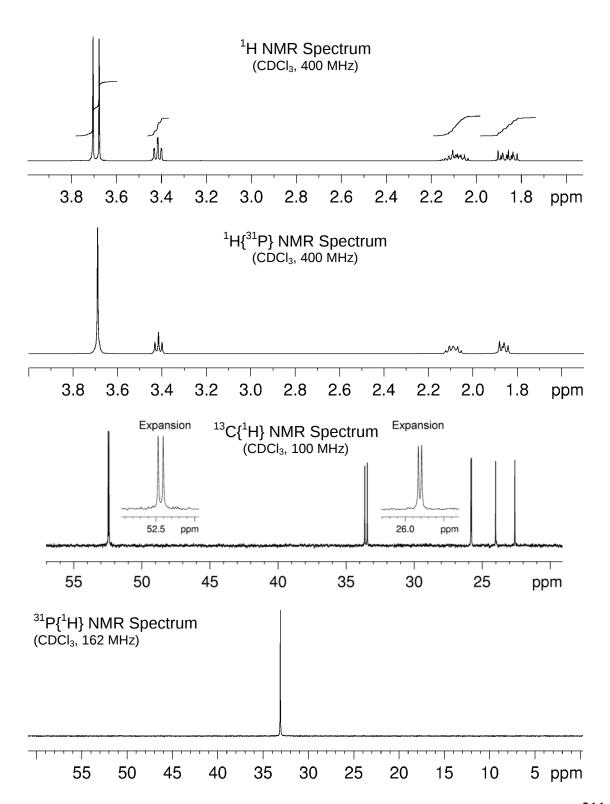
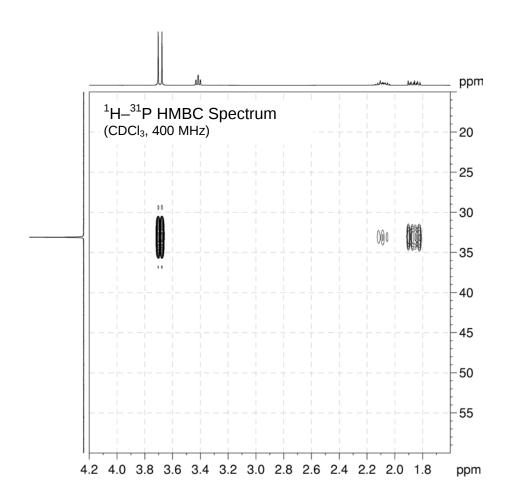
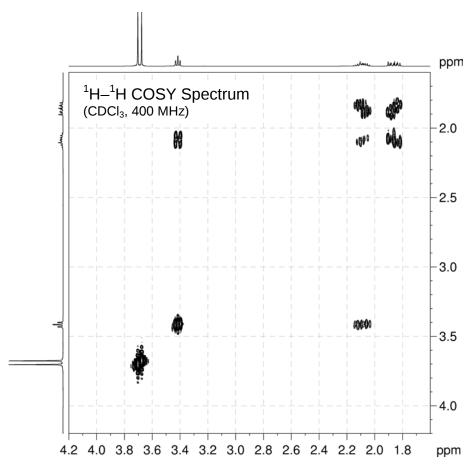
Problem 46

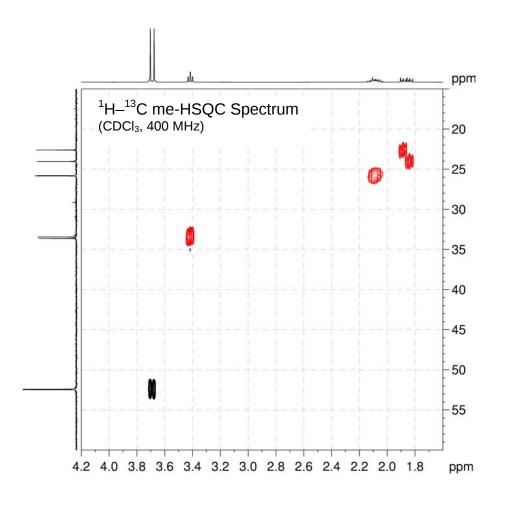
Identify the following compound. Draw a labelled structure, and use the $^{1}H^{-13}C$ me-HSQC, $^{1}H^{-1}H$ COSY and $^{1}H^{-31}P$ HMBC spectra to assign each of the ^{1}H and ^{13}C resonances to the appropriate carbons and hydrogens in the structure.

Molecular Formula: C₅H₁₂BrO₃P IR: 3464, 2955, 1232, 1031 cm⁻¹









Structure:			

Proton	Chemical Shift (ppm)	Carbon	Chemical Shift (ppm)