Electronic Supplementary Material (ESI) for Dalton Transactions
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The Open-Chain Triphosphanes $RMe_2SiCH_2P(PR'_2)_2$ (R = Me, Ph; R'= $SiMe_3$, Cy, Ph).

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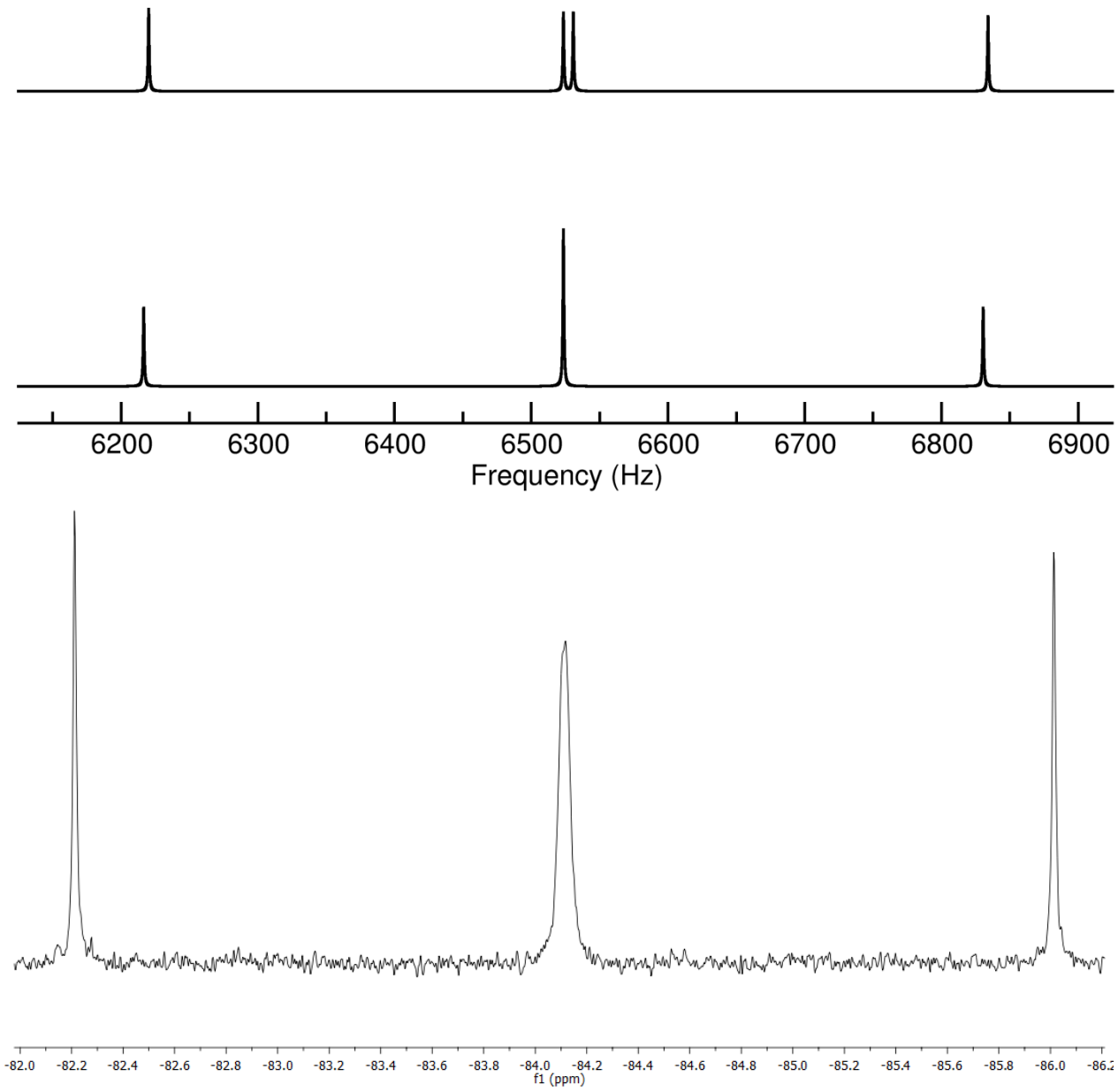
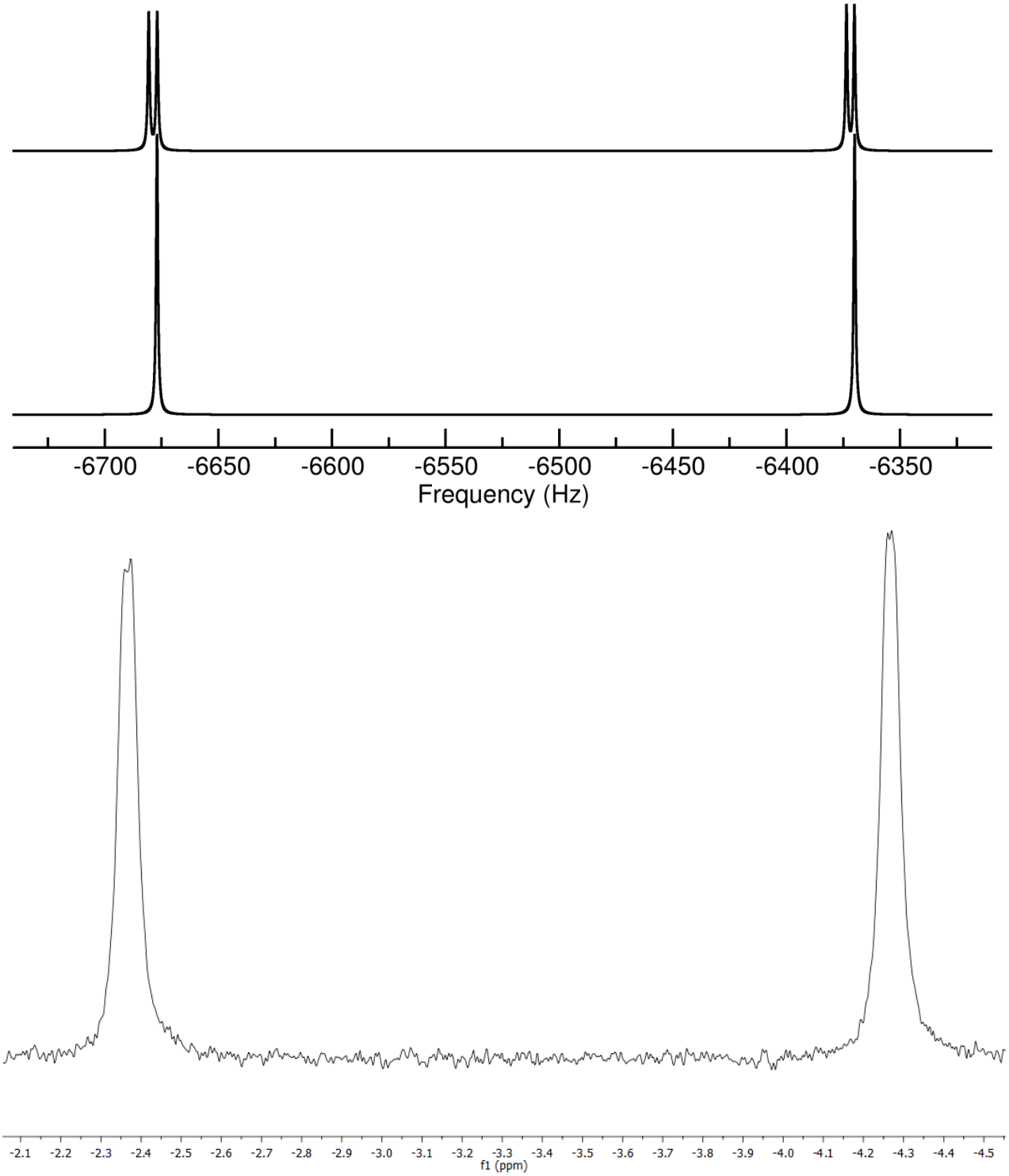
Supplementary Information

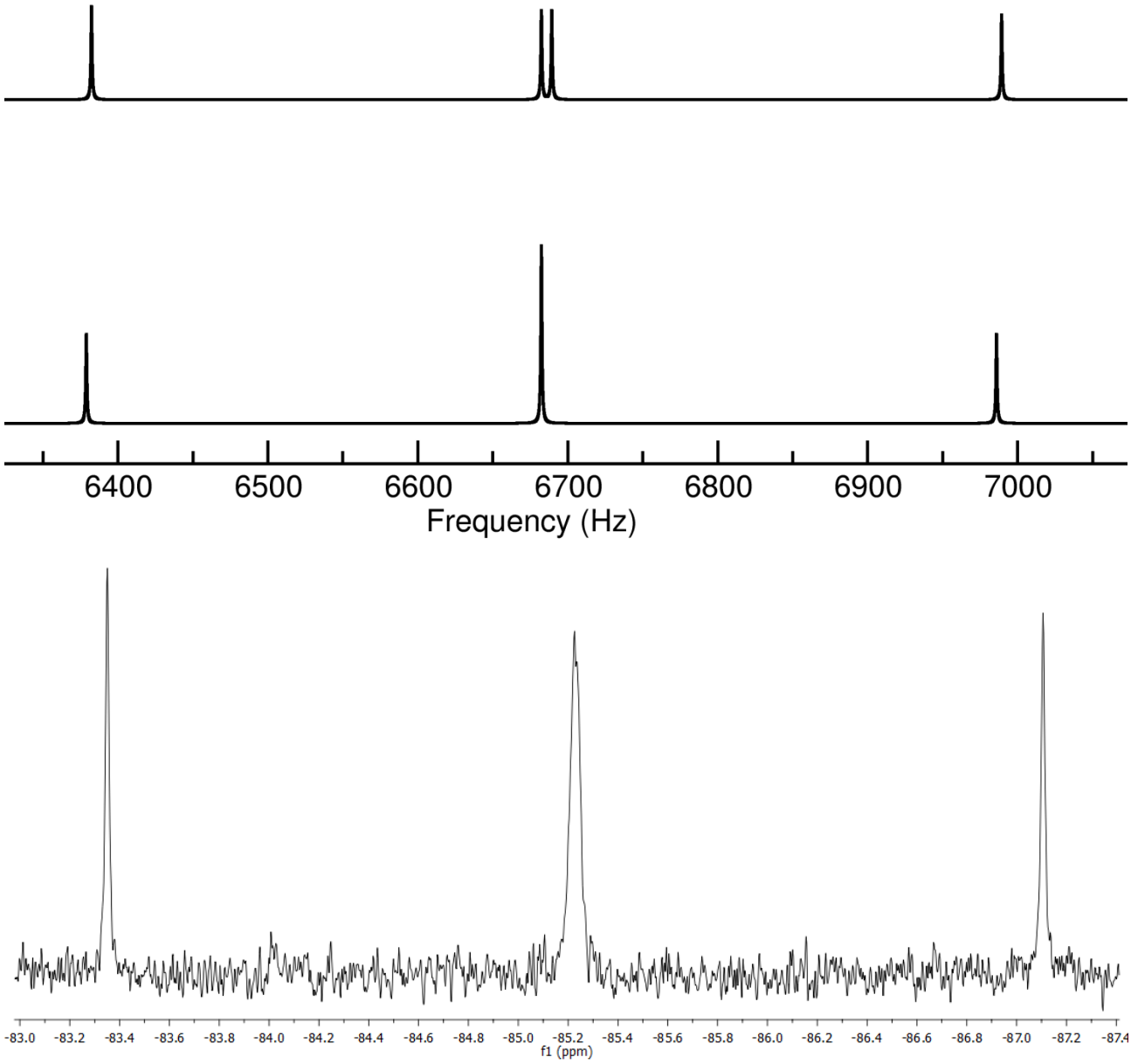
The resolution of experimental spectra for the cyclohexyl systems is compromised by broadening observed for some of the transitions, specifically the middle resonances of the A spin component, however, the application of mild resolution enhancement facilitates measurement of the appropriate datum in each case.



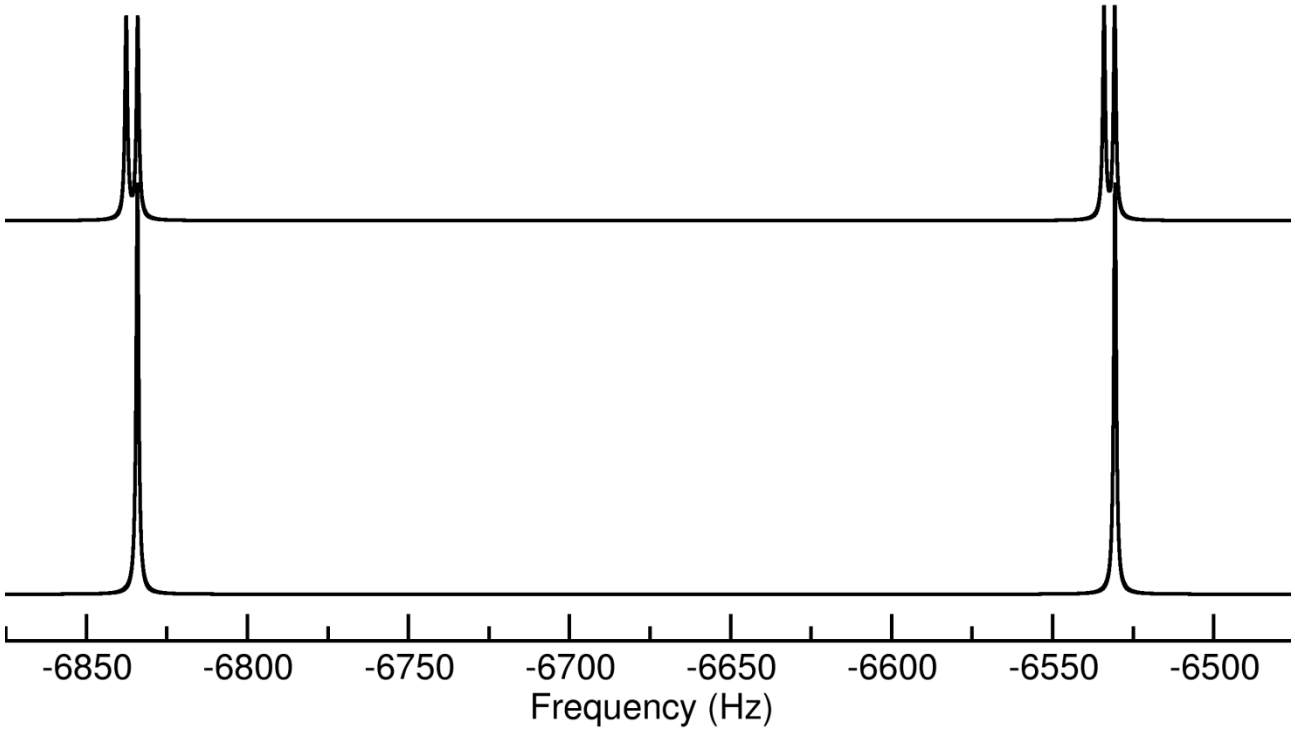
Compound **4** simulation (top) and spectrum (bottom) for A spin.

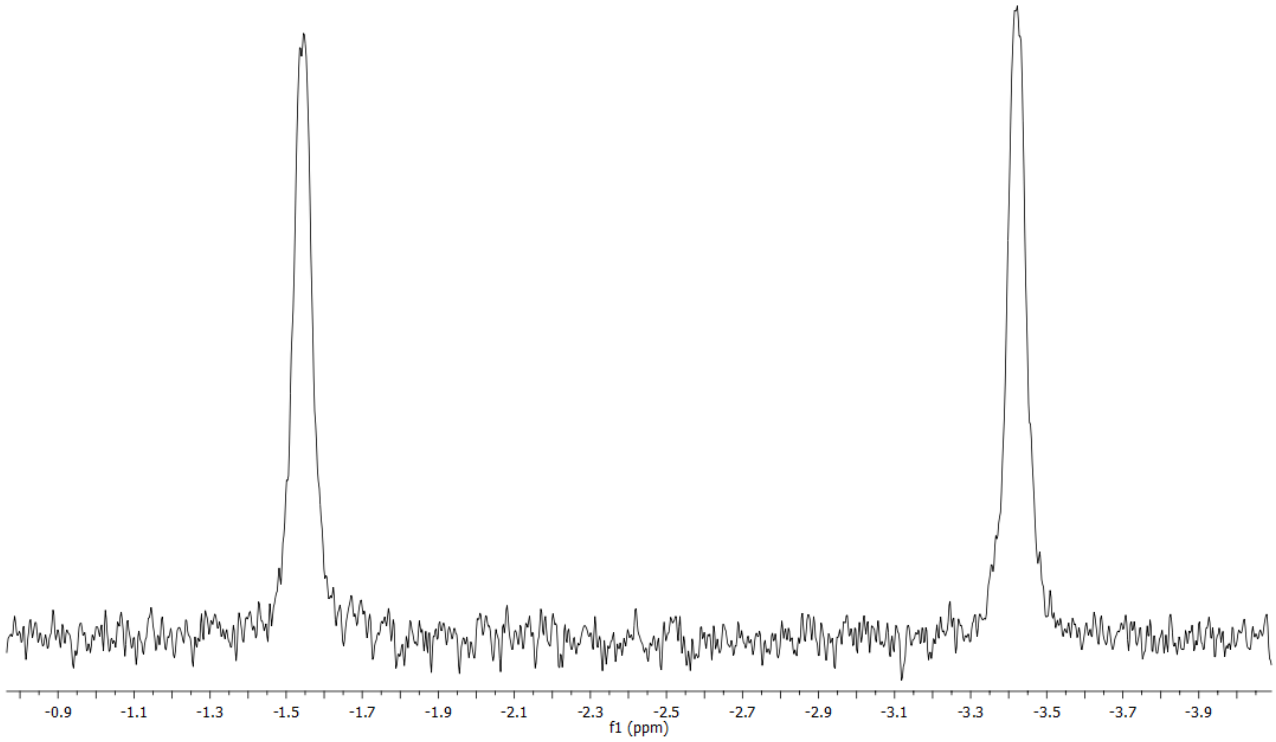


Compound **4** simulation (top) and spectrum (bottom) for M spins.



Compound **6** simulation (top) and spectrum (bottom) for A spin.





Compound **6**simulation (top) and spectrum (bottom) for M spins.

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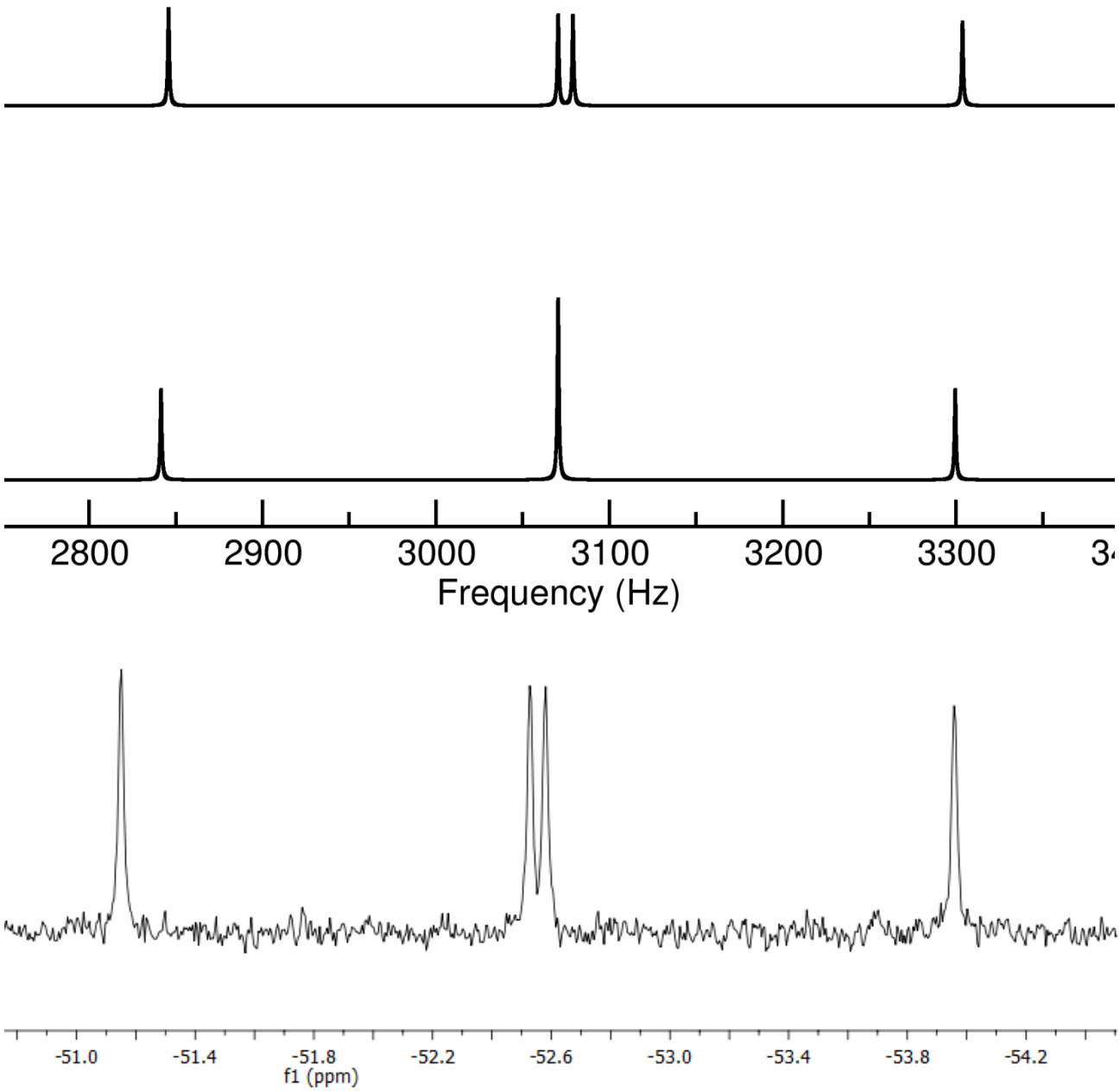
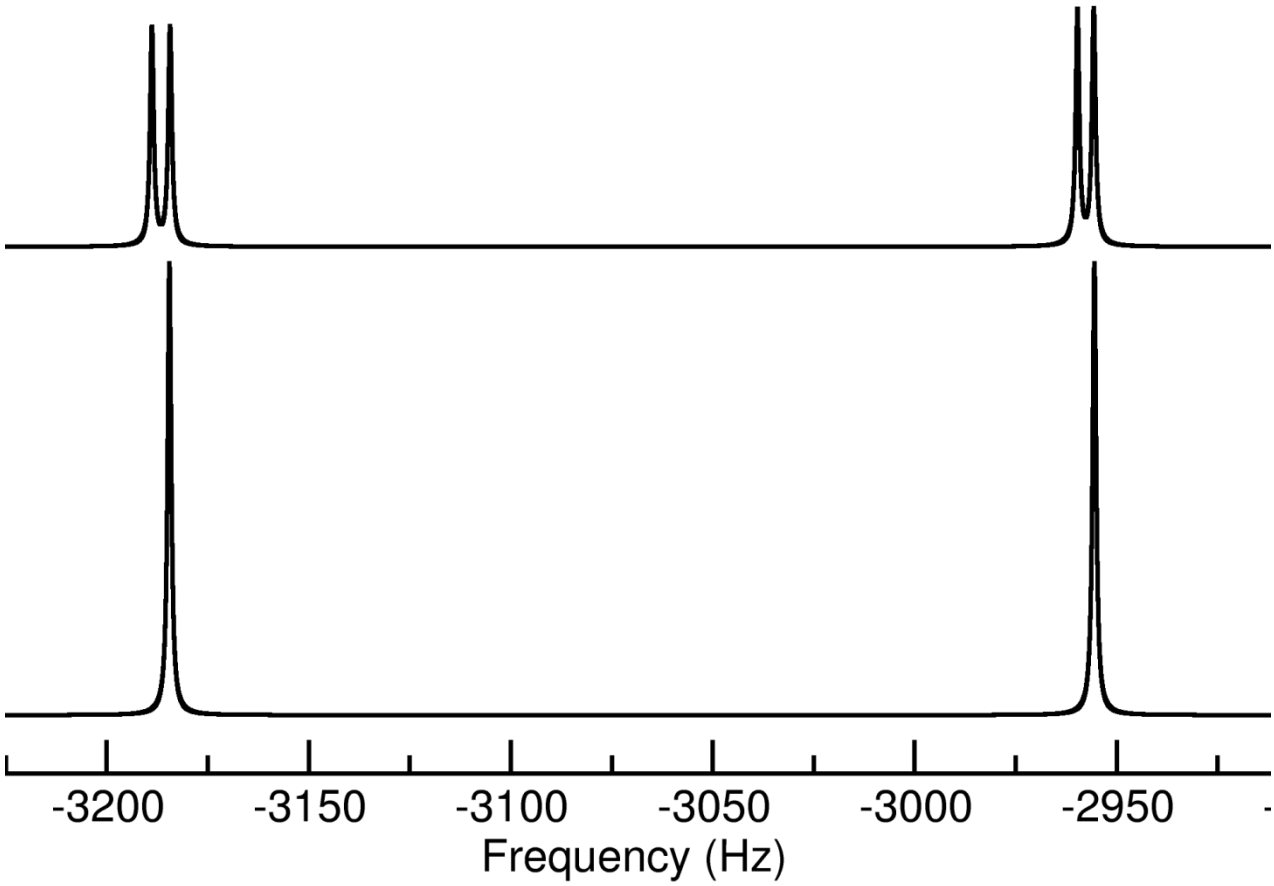
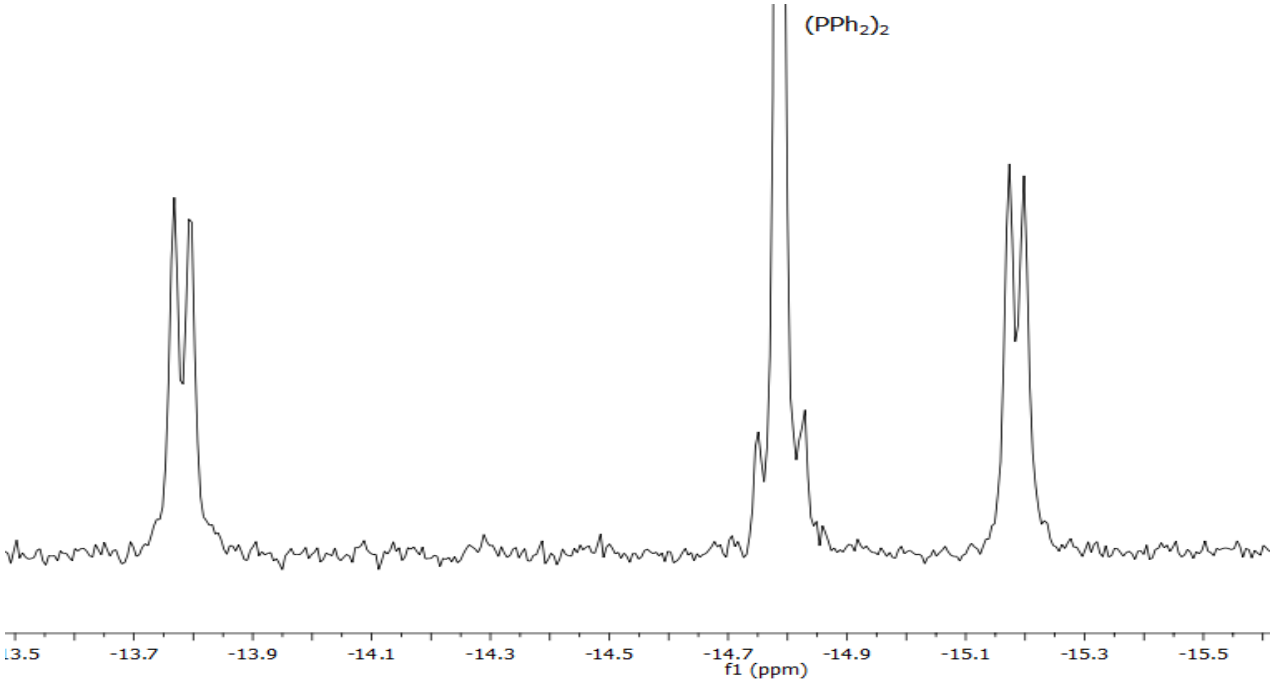
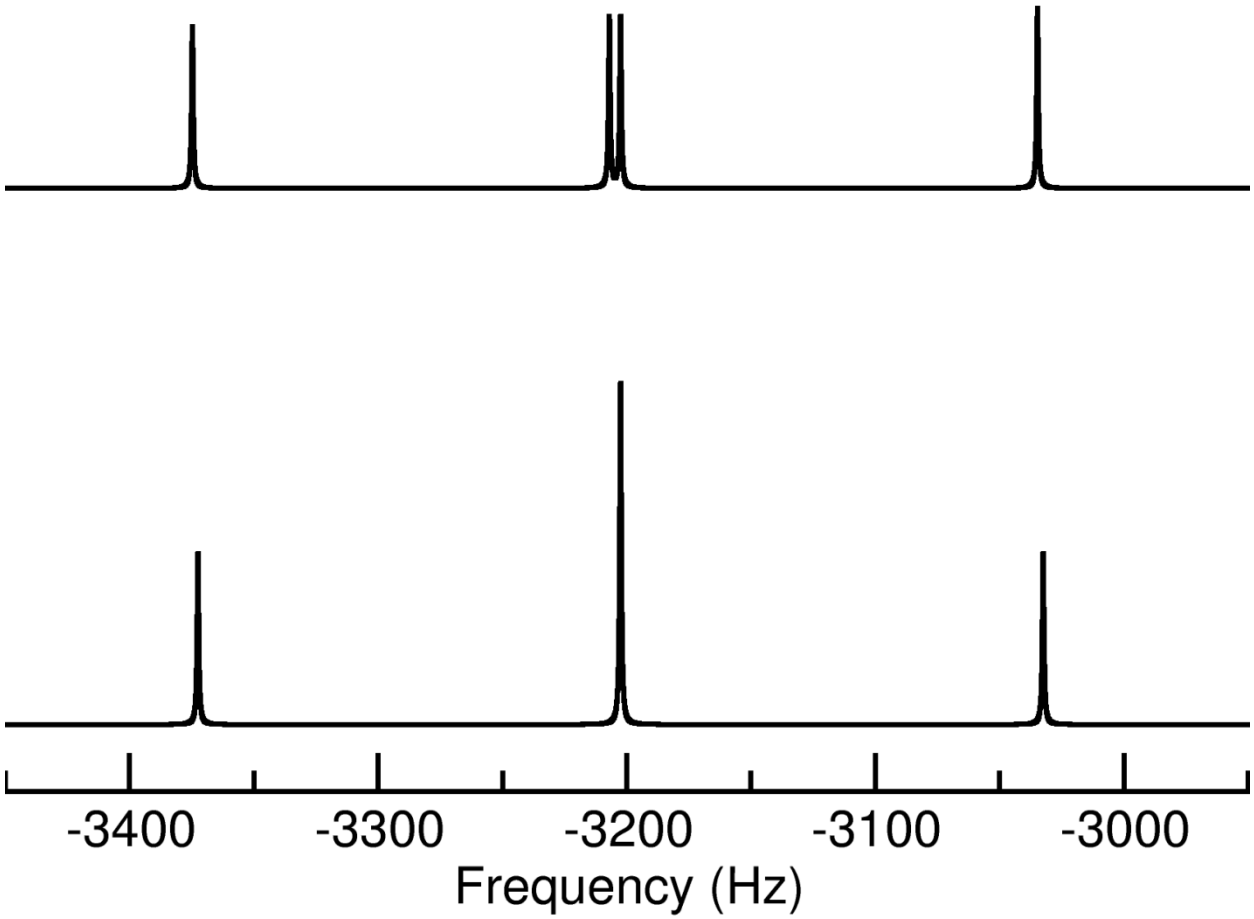


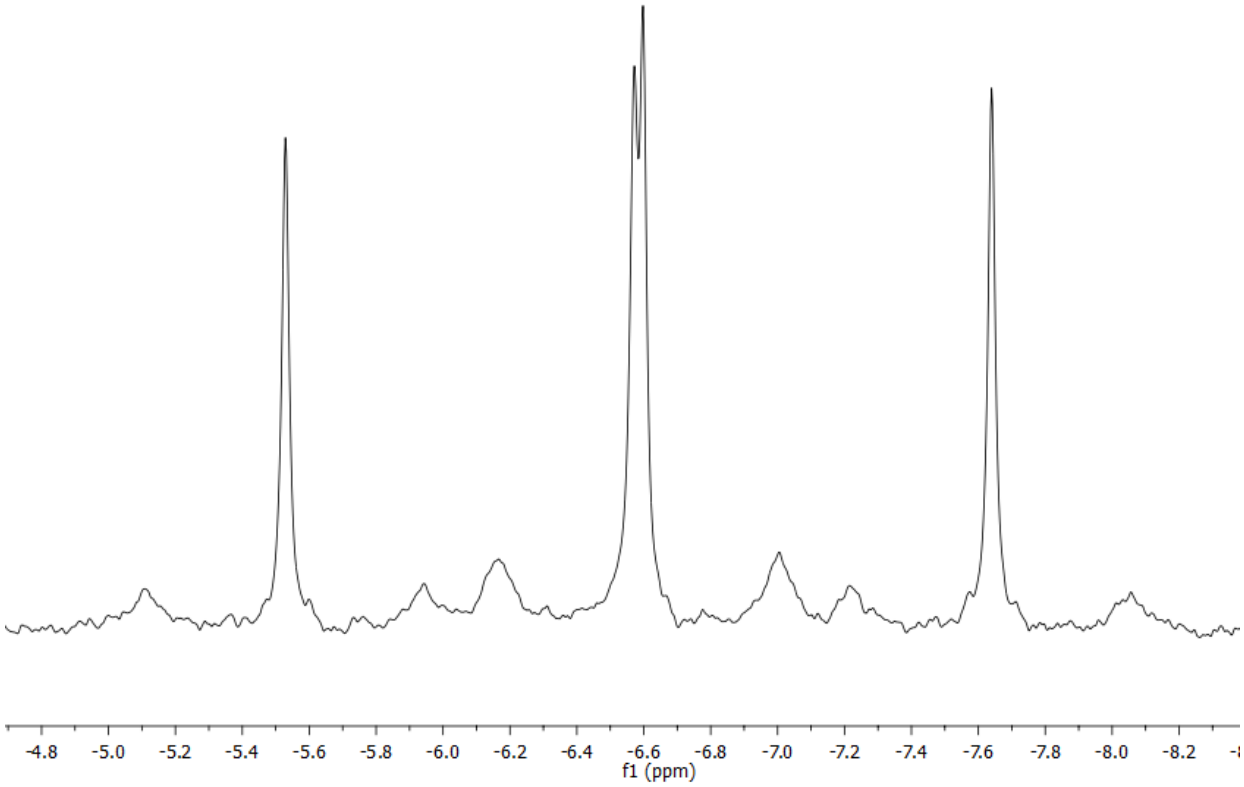
Compound **7** simulation (top) and spectrum (bottom) for A spin.



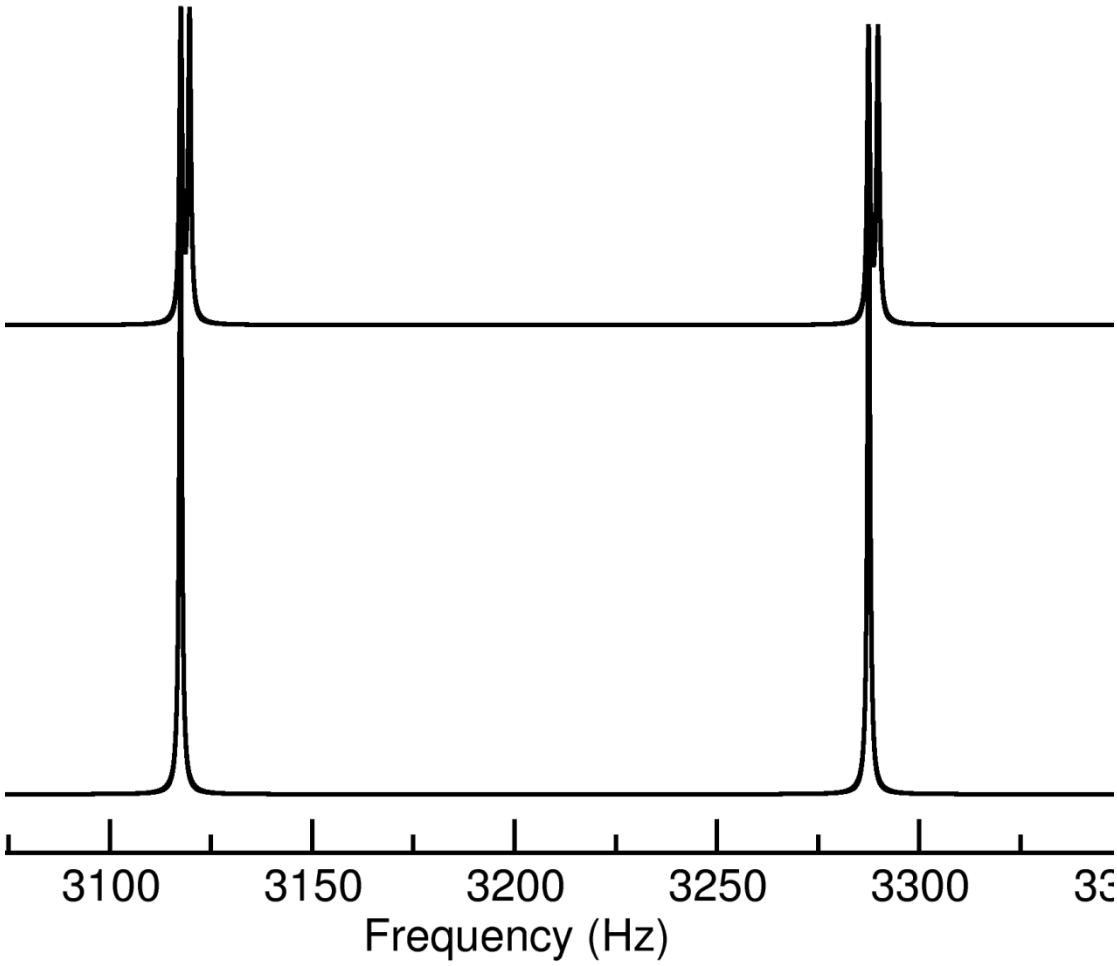


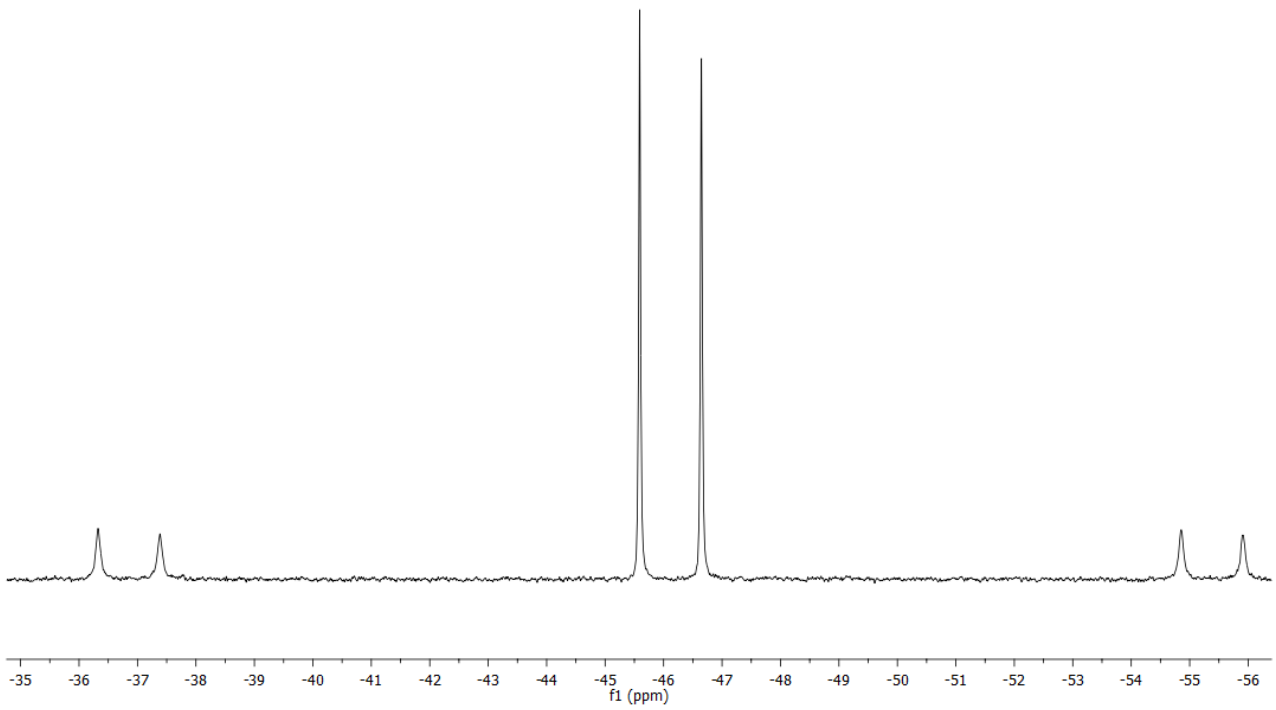
Compound **7** simulation (top) and spectrum (bottom) for M spins.



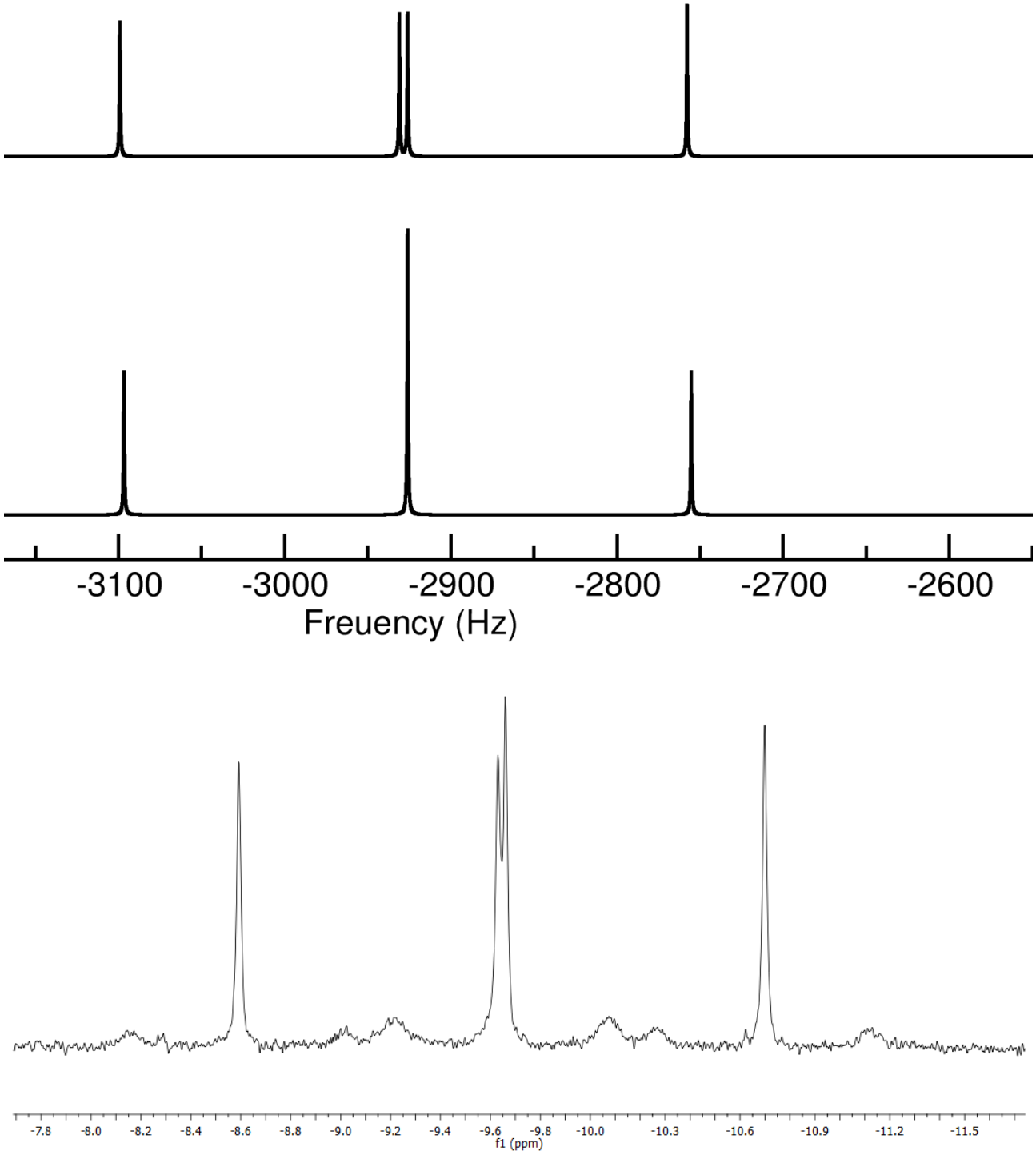


Compound **8** simulation (top) and spectrum (bottom) for A spins.

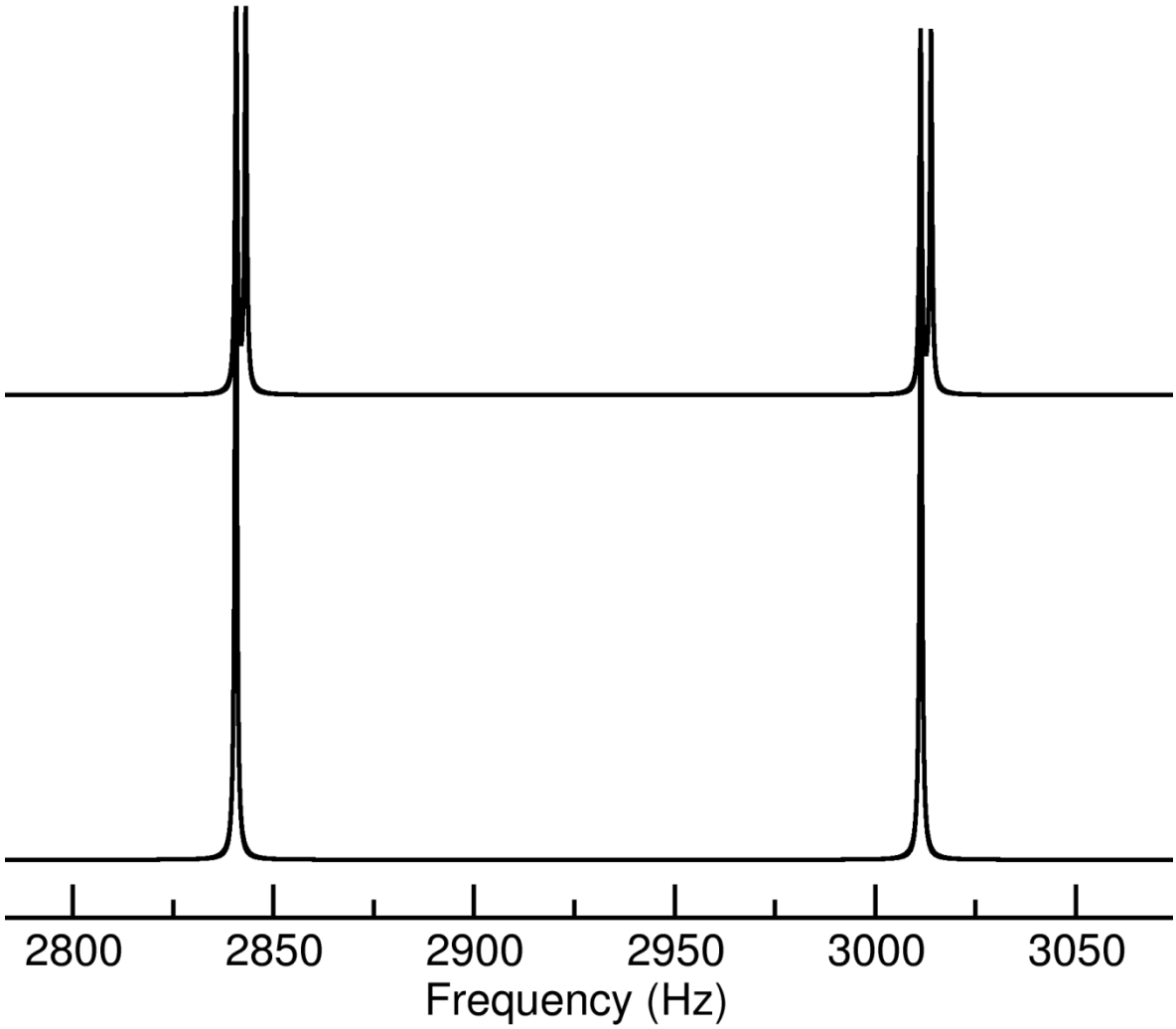


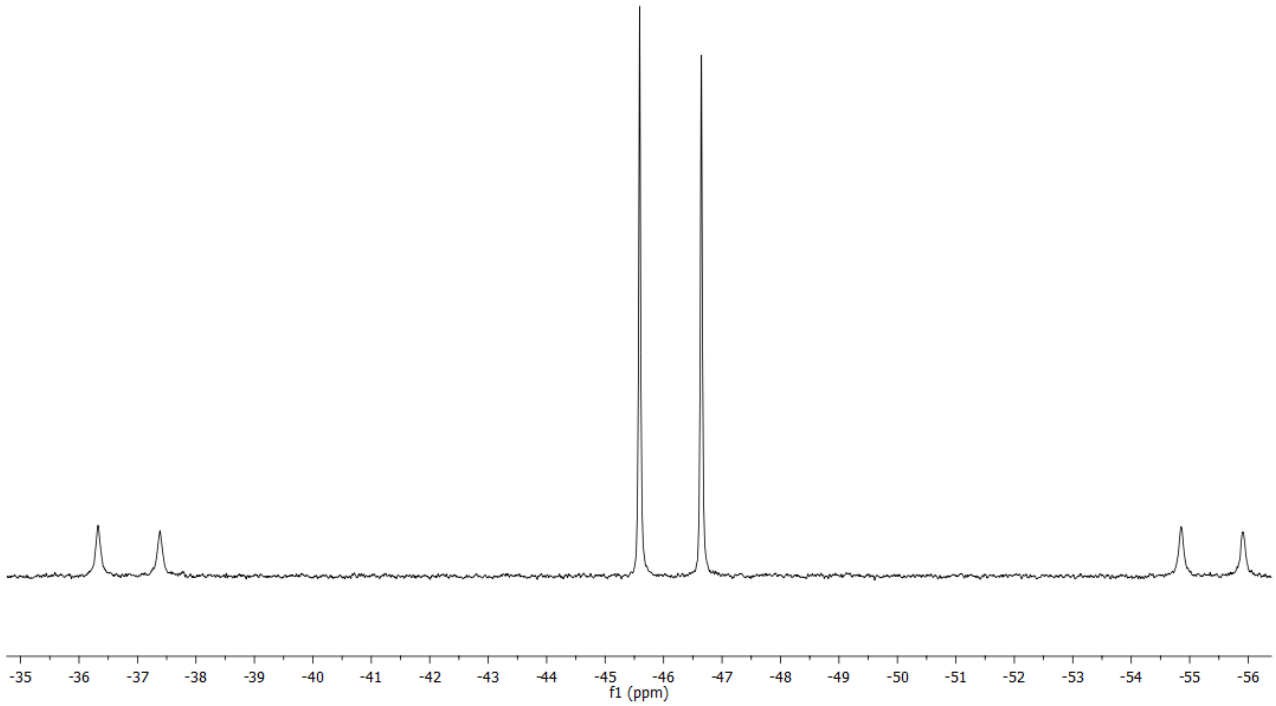


Compound **8** simulation (top) and spectrum (bottom) for M spins.

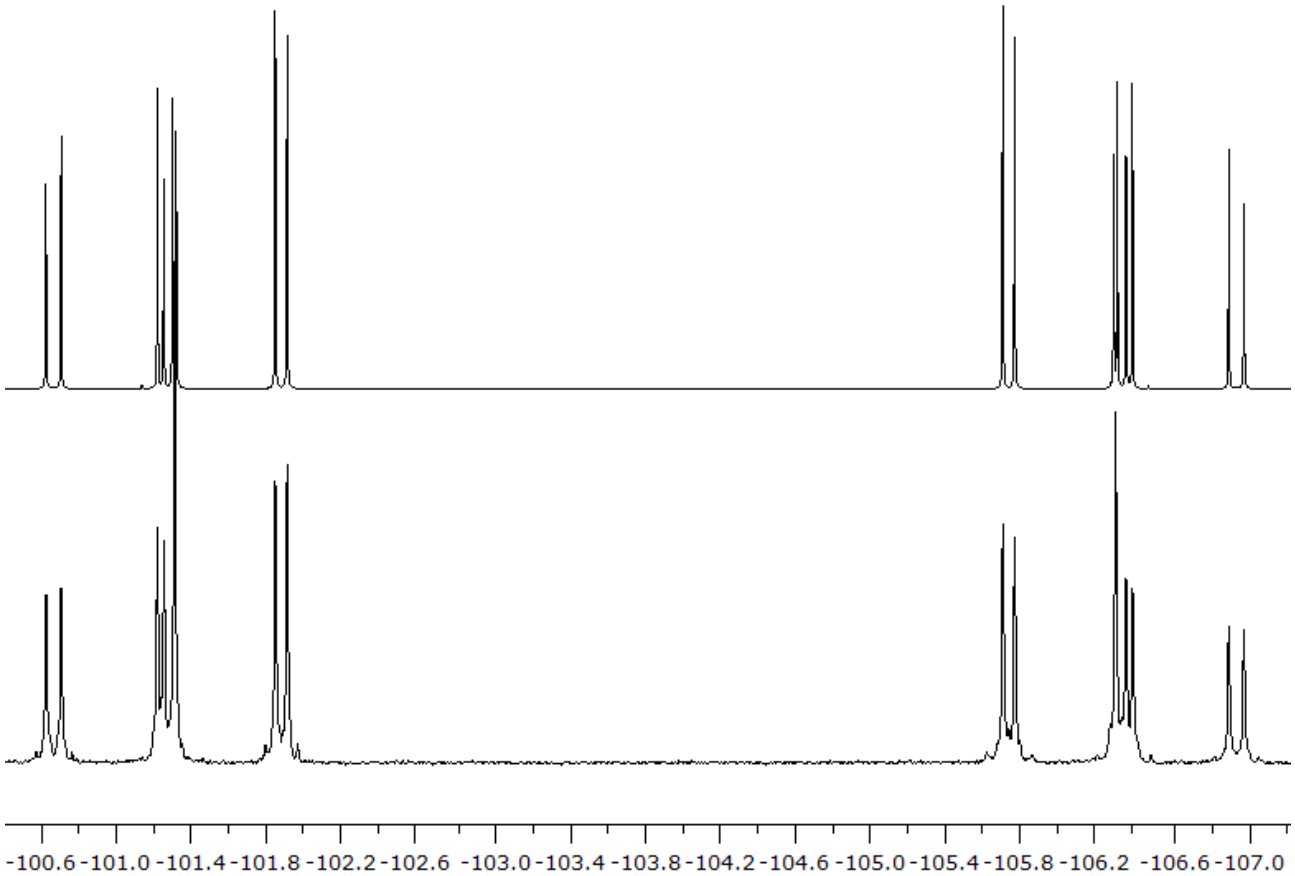


Compound **9** simulation (top) and spectrum (bottom) for A spin.

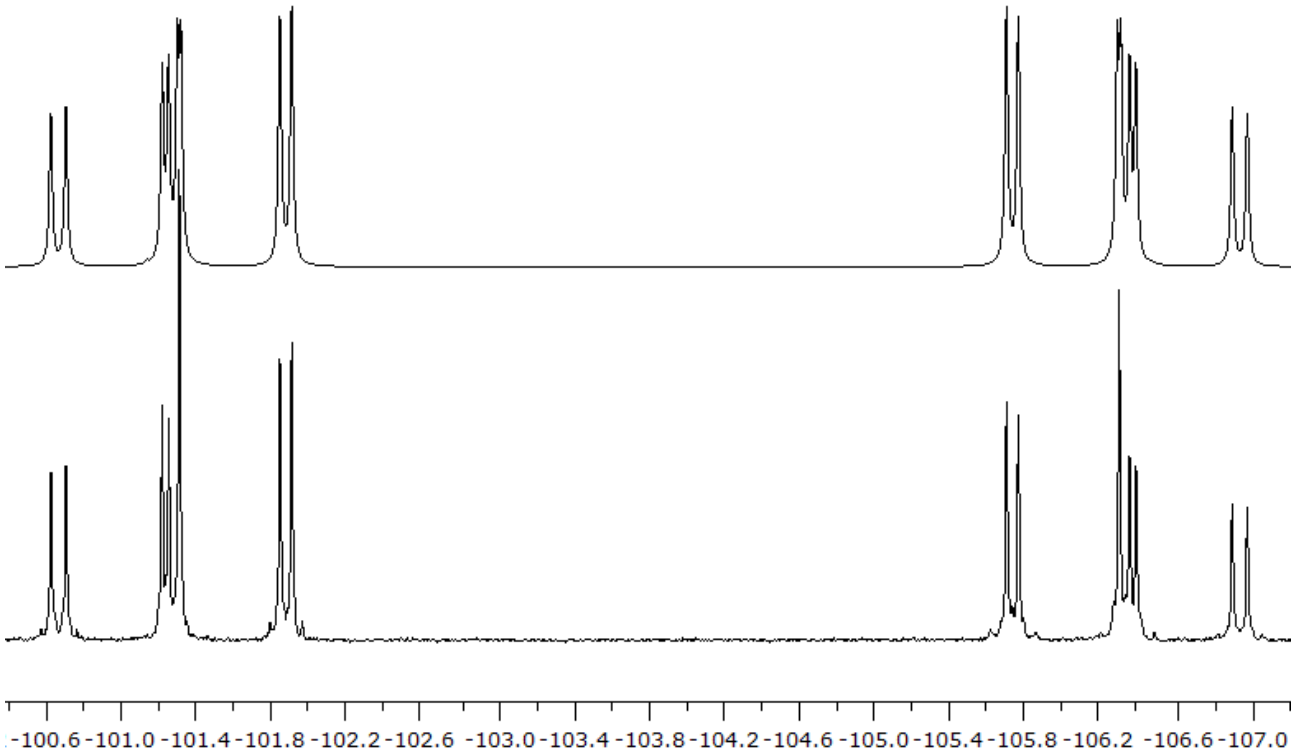




Compound **9** simulation (top) and spectrum (bottom) for M spins.



Compound **10**, $^{31}P\{^{1}H\}$ NMR spectrum (bottom) and simulated for AA'BB' spin system (top) showing all transitions (line broadeding = 0.5 Hz). Scale in PPM



Compound **10**, $^{31}P\{^{1}H\}$ NMR spectrum (bottom) and simulated for AA'BB' spin system (top) using universal line broadening of 3 Hz. Scale in PPM