Supporting Information

Pure Shift Approach for Fast and Accurate
Extraction of Heteronuclear Couplings

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S1: (a) $^1$H NMR of 2-Fluroacetanilide in CDCl$_3$; (b) Pure shift NMR spectrum of the same molecule depicting only $^nJ_{HF}$ couplings.

S2: (a) $^1$H NMR of 2-fluoropyridine in CDCl$_3$; (b) Pure shift NMR spectrum showing only $^nJ_{HF}$ couplings.

S3: 2,3-difluoro nitrophenol (e) $^1$H NMR data in CDCl$_3$. (a) $^1$H NMR of 1; (b) Pure shift NMR spectrum showing only $^nJ_{HF}$ couplings.
(a) The $^1$H NMR spectrum of 2-fluoroacetanilide in CDCl$_3$. (b) Pure shift spectrum of the same molecule depicting only $^aJ_{HF}$ couplings. The measured coupling values (doublet separations are reported in Hz) are given at the top of each chemically non-equivalent proton.
(a) The $^1$H NMR spectrum of 2-fluoropyridine in CDCl$_3$; (b) Pure shift spectrum of the same molecule depicting only $^4J_{HF}$ couplings. The measured coupling values (doublet separations in Hz) are given at the top of each chemically non-equivalent proton.
(a) The $^1$H NMR spectrum of 2,3-difluoro-nitrophenol in CDCl$_3$; (b) Pure shift spectrum of the same molecule depicting only $^4J_{HF}$ couplings. The measured coupling values (doublet separations in Hz) are given at the top of each chemically non-equivalent proton.