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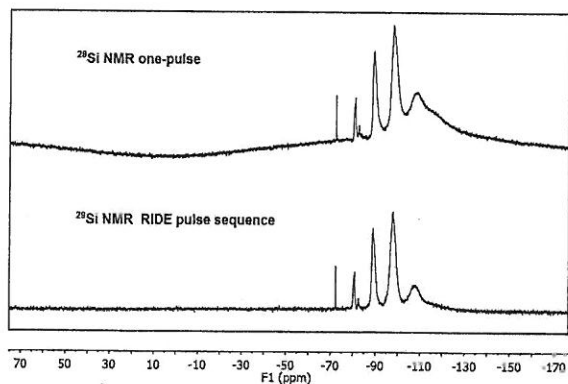
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RIDE (ON VARIAN) OR HOW TO IMPROVE BASELINE IN ^{29}Si NMR SPECTRA OF WATER GLASSES

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It is shown by experiments that replacing one-pulse sequence by RIDE (Ring Down Elimination) [1,2] pulse sequence dramatically improves the baseline of ^{29}Si NMR spectra and eliminates the signal from some probes.



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References

- 1 P. S. Belton, I. J. Cox, R. K. Harris, *J. Chem. Soc. Faraday Trans. 2* **1985**; *81*, 63-75.
- 2 W. Kozmiński, K. Jackowski, *Magn. Reson. Chem.* **2000**; *38*, 459-463.