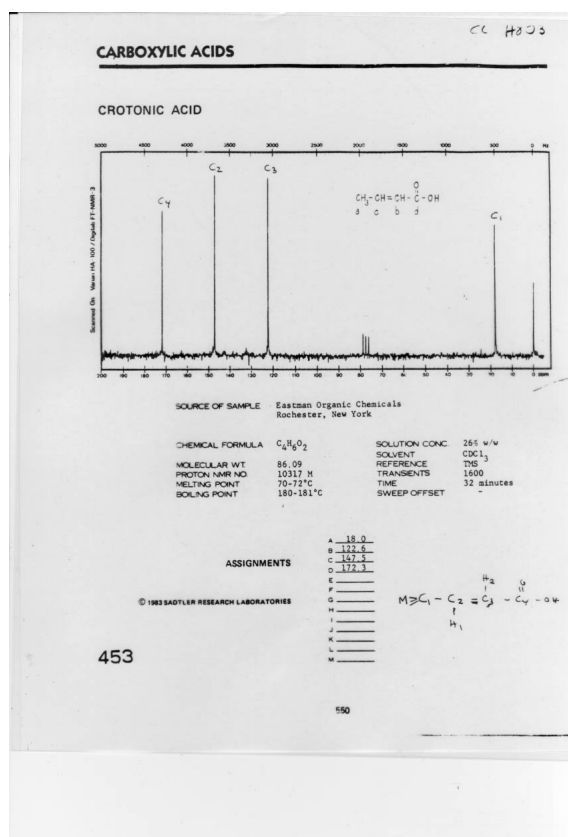


# The choice of molecule

- Large chemical shift
- Large J coupling
- Large decoherence time



Rudy Martinez, Stable Isotope Lab, Los Alamos



	M	H <sub>1</sub>	H <sub>2</sub>	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>
M	-969.4						
H <sub>1</sub>	6.9	-3560.3					
H <sub>2</sub>	-1.7	15.5	-2938.2				
C <sub>1</sub>	127.5	3.8	6.2	-2327.0			
C <sub>2</sub>	-7.1	156.0	-0.7	41.6	-18599.2		
C <sub>3</sub>	6.6	-1.8	162.9	1.6	69.7	-15412.8	
C <sub>4</sub>	-0.9	6.5	3.3	7.1	1.4	72.4	-21685.1