

NMR spectra studies: – NMR spectroscopy is a physicochemical analysis technique based on the interaction of externally applied radiofrequency radiation with atomic nuclei. These NMR-active nuclei behave as tiny magnets (magnetic dipoles), capable of aligning with external magnetic fields (a process called magnetization). Only atomic nuclei with $I \neq 0$ are detectable by NMR spectroscopy (NMR-active nuclei, such as ^1H , ^2H , ^{13}C and ^{15}N).