CHEM HELP ASAP

Organic Chemistry Problem Set

Distinguishing Isomers based on ¹H NMR Spectra

Instructions: Each question below shows a ¹H NMR spectrum with four structural isomers. For each question, determine which compound matches the ¹H NMR spectrum shown. Briefly explain the reasons for your selection. Use the ideas of the number of signals, chemical shift, multiplicity, and integration in your reasoning. Spectra for these questions were generated by https://www.nmrdb.org/.

Suggested playlist

https://www.youtube.com/watch?v=g9aFR3slyQM&list=PLIzSRqjN72jfdP6_XzJ6lRS2yXsGNk_hZ (NMR spectroscopy)

YouTube video of answered questions:

https://youtu.be/HnjLsFKrrvc

Questions:







