

Table 1: Comparing the two “standard” experimental setups for fragmentation MS of small molecules: *EI mass spectra* and *tandem mass spectra*.

	EI mass spectra		tandem mass spectra
cons	only amenable to volatile/thermally stable compounds	pros	broad range of compounds
	mass of the unfragmented molecule unknown		mass of the unfragmented molecule known
	primarily low mass accuracy		often high mass accuracy
pros	fragment-rich spectra	cons	several CEs have to be applied to get fragment-rich spectra
	fragmentation processes well understood		fragmentation not completely understood
	highly reproducible		less reproducible across different instruments/instrument types