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Quadrupole Mass Spectrometric Analytical Solutions for Measuring Pesticides, Terpenes, and Residual Solvents

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Abstract: Regulatory testing of cannabis products typically includes pesticide and residual solvent chemical classes. There is also an increasing need for terpene profile analysis to ensure cannabis products are being tailored to market demand. Quadrupole GC-MS is commonly used to measure residual solvents and terpenes, while triple-quadrupole GC-MS can be used to measure pesticide content. Each instrumental method offers robust, sensitive analysis of target analytes. Analytical methods for measuring each of these chemical classes are presented along with example data from their respective techniques. Each technique's role in a cannabis testing lab and how they can supplement other techniques, such as LC-MS, is discussed.