**laser ionization**

*in mass spectrometry*

Occurs when a sample is irradiated with a laser beam. In the irradiation of gaseous samples, ionization occurs *via* a single- or multi-photon process. In the case of solid samples, ionization occurs *via* a thermal process.

**Source:**
PAC, 1991, 63, 1541 (*Recommendations for nomenclature and symbolism for mass spectrometry (including an appendix of terms used in vacuum technology)*. *Recommendations 1991*) on page 1548
Orange Book, p. 204