

Name: \_\_\_\_\_

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## Analytical Chemistry II – Quiz (7<sup>th</sup> May, 2020)

1) What are the ordinate (*y*-axis) and the abscissa (*x*-axis) of an ordinary mass spectrum?

The ordinate (*y*-axis) in a mass spectrum is usually the relative abundances or intensities of the ions. The abscissa (*x*-axis) is usually the mass-to-charge ratio.

2) - Describe the principle of laser ablation (LA) sample introduction system coupled with ICP-MS.

- Draw a scheme of LA-ICP-MS instrument. Label all components in the scheme.

- A pulsed laser beam is focused onto a solid.
- The high-intensity radiation vaporizes most materials.
- A flow of argon carries the vaporized sample into an ICP torch.

