Exploitation of concentration gradient in flow analysis

IL, O, P

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Joanna Kozak1, Marcin Wieczorek1, Paweł Kościelniak1,2

1Department of Analytical Chemistry, Faculty of Chemistry, Jagiellonian University,

Krakow, Poland

2Institue of Forensic Research, Krakow, Poland

Flow techniques offer unique possibilities of exploiting of an analyte concentration gradient generated during transport of a sample to a detector.

Analyte concentration gradient generated when the sample stream or the sample zone is introduced into a flow system consists of an infinite number of fluid elements containing different concentration ratios of the sample and carrier components. …

References

[1] B.Q. Yuan, H.W. Du, T.Y. You, Talanta 79 (2009) 730.

[2] Z. Fang, Flow Injection Atomic Absorption Spectrometry, Wiley, Chichester, 1995.

[3] F.A. Iñón, M.B. Tudino, Theoretical Aspects of Flow Analysis in: M. Trojanowicz (ed.), Advances in Flow Analysis, WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim 2008.

Acknowledgement

The work was the result of the research project No. ….. financed by ….