SERIES OF ARTICLES

of the thesis for the degree of Doctor of Philosophy (PhD) on educational program «8D05301 – Chemistry»

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Thesis topic: Development of analytical methods for determination of transformation products of unsymmetrical dimethylhydrazine in air

1. Bukenov, B., Baimatova, N., & Kenessov, B. (2022). Quantification of transformation products of rocket fuel unsymmetrical dimethylhydrazine in air using solid-phase microextraction. *Journal of Separation Science*, *45*(2), 614–622. https://doi.org/10.1002/jssc.202100684

2. Bukenov, B., Karimkyzy, N., Smail, A., Kurmanbayeva, T., & Kenessov, B. (2025). On-Site Quantification of Transformation Products of Rocket Fuel Unsymmetrical Dimethylhydrazine in Air Using Solid-Phase Microextraction. *Journal of Separation Science*, *48*(3). https://doi.org/10.1002/jssc.70113

3. Bukenov, B., Kenessov, B., Baimatova, N., Ul'yanovskii, N. V., Popov, M. S., & Kosyakov, D. S. (2025). Quantification of rocket fuel transformation products in air using sorbent tubes sampling and thermal desorption GC − high-resolution mass spectrometry (Orbitrap). *Microchemical Journal*, *209*, 112879. https://doi.org/10.1016/j.microc.2025.112879