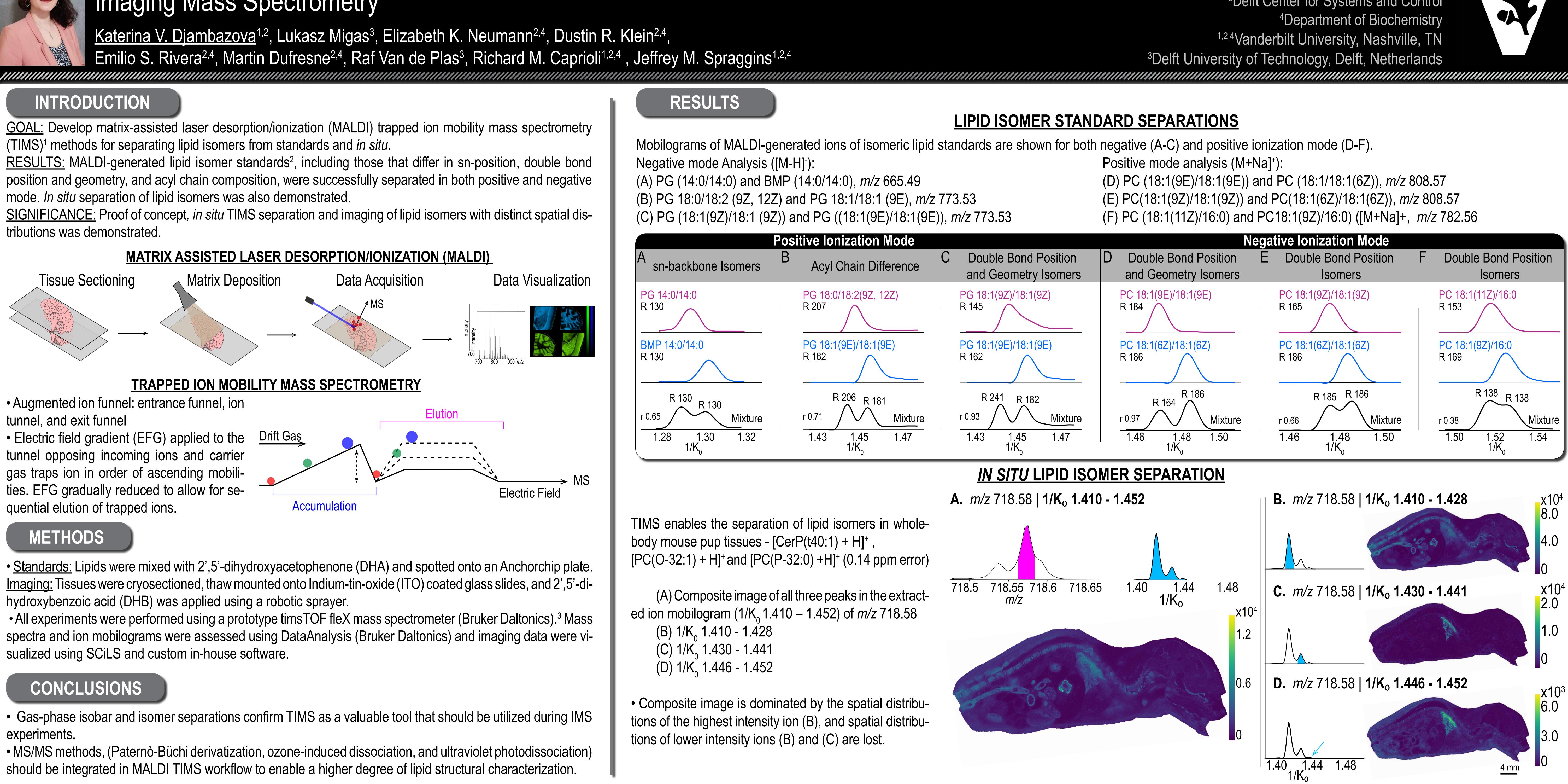


# Advanced Methods for Differentiating Lipid Isomers in Tissue using Trapped Ion Mobility Imaging Mass Spectrometry

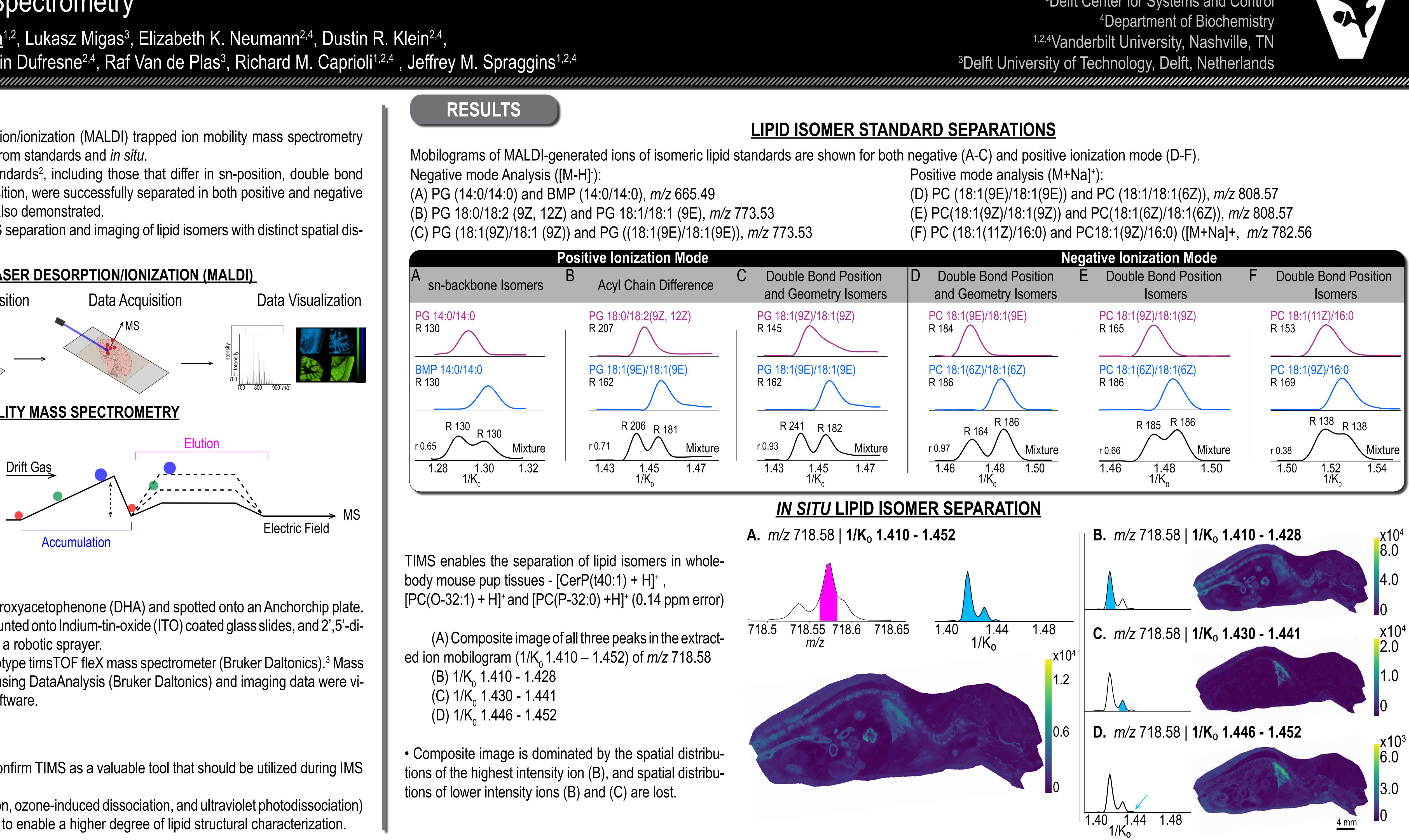
mode. In situ separation of lipid isomers was also demonstrated.

tributions was demonstrated.



tunnel, and exit funnel

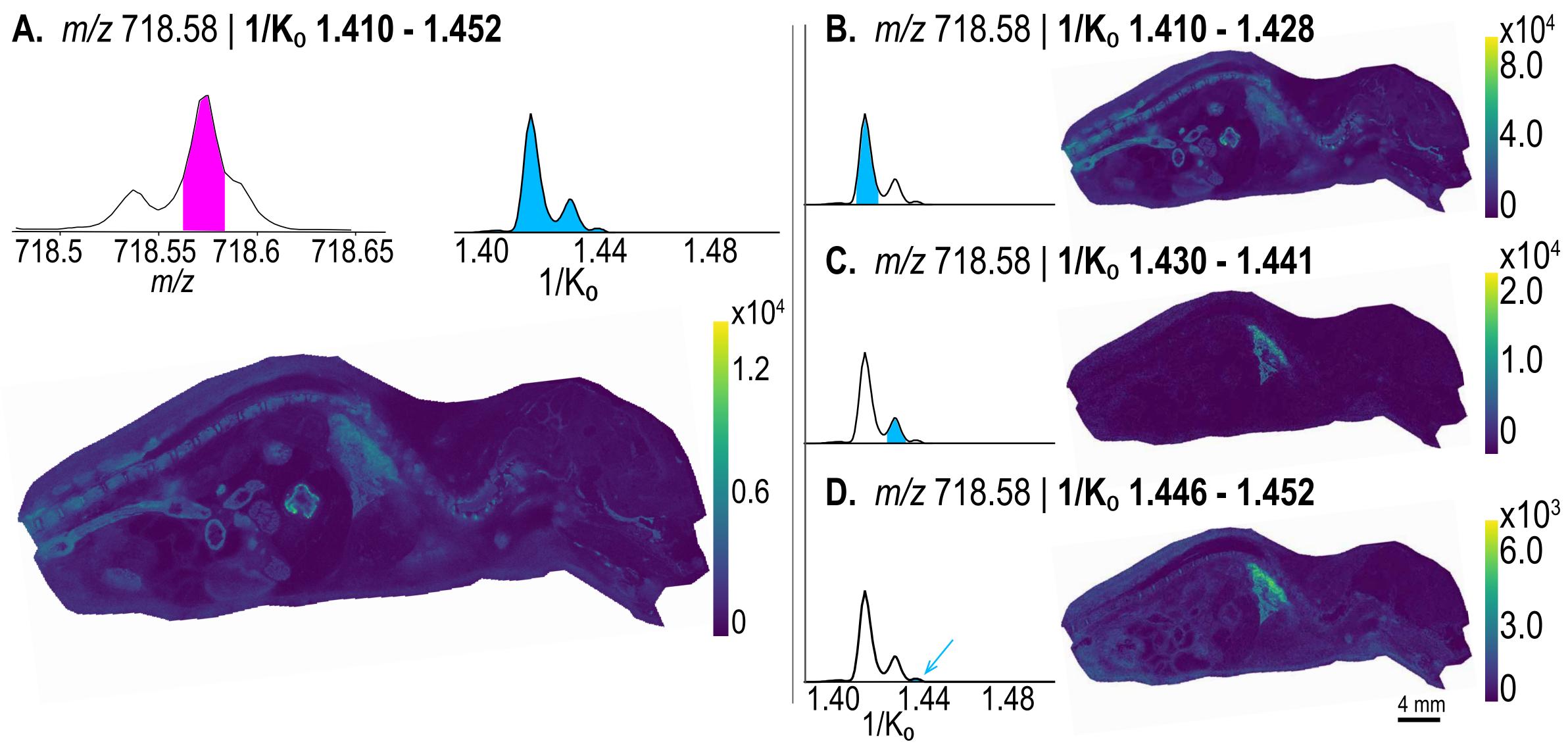
tunnel opposing incoming ions and carrier gas traps ion in order of ascending mobilities. EFG gradually reduced to allow for sequential elution of trapped ions.



hydroxybenzoic acid (DHB) was applied using a robotic sprayer.

sualized using SCiLS and custom in-house software.

- experiments.



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Fernandez-Lima F., et. al. International Journal of Ion Mobility Spectrometry, 2011, 14 (2-3)
Fouque K. J. D., et. al., Analytical Chemistry. 2019, 91 (8) 5021-5027
Spraggins, J. M., et. al., Analytical Chemistry. 2019, 91 (22) 14552-14560