

Supplementary Information

Versatile method for addressing the issue of methanol in distilled spirits using a compact near-infrared spectrometer

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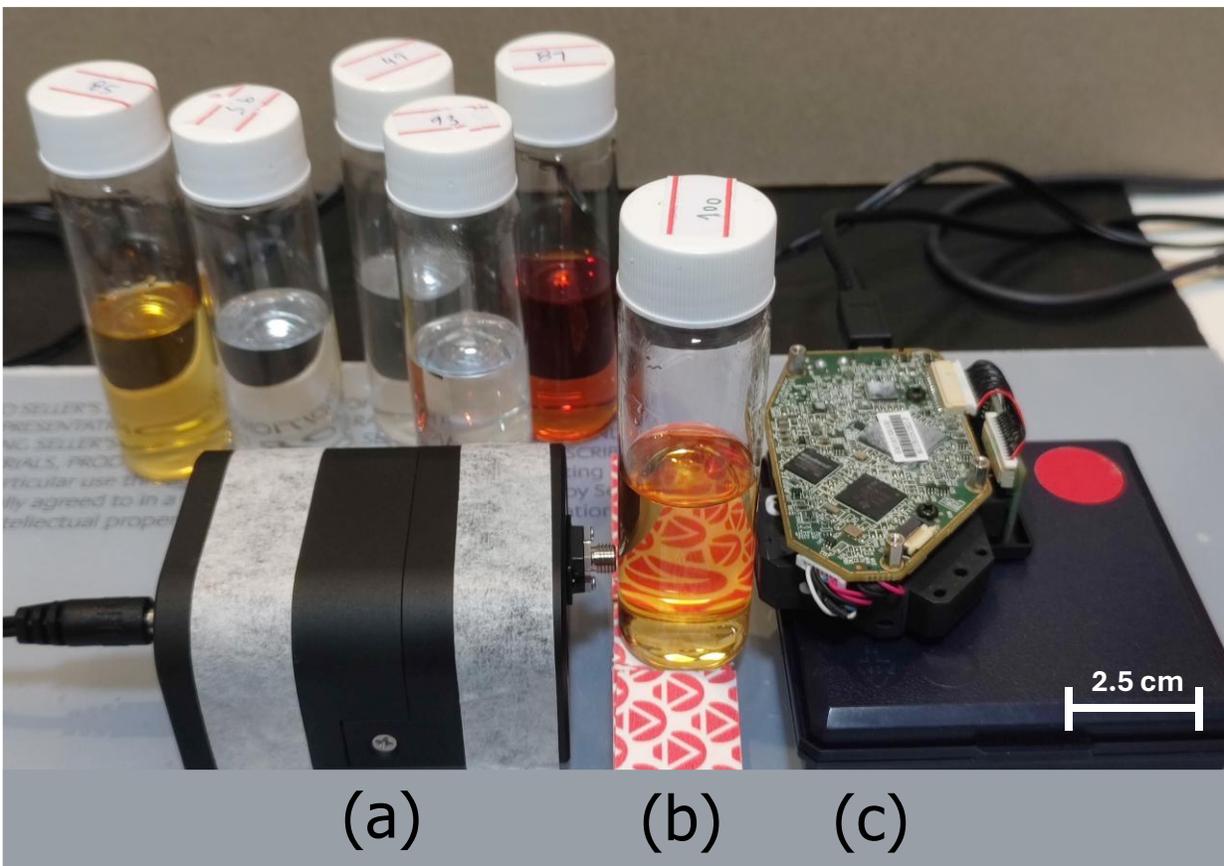


Figure S1. Picture of the compact NIR spectral setup for transmittance measurements. (a) radiation source; (b) sample vial; (c) compact NIR spectrophotometer.

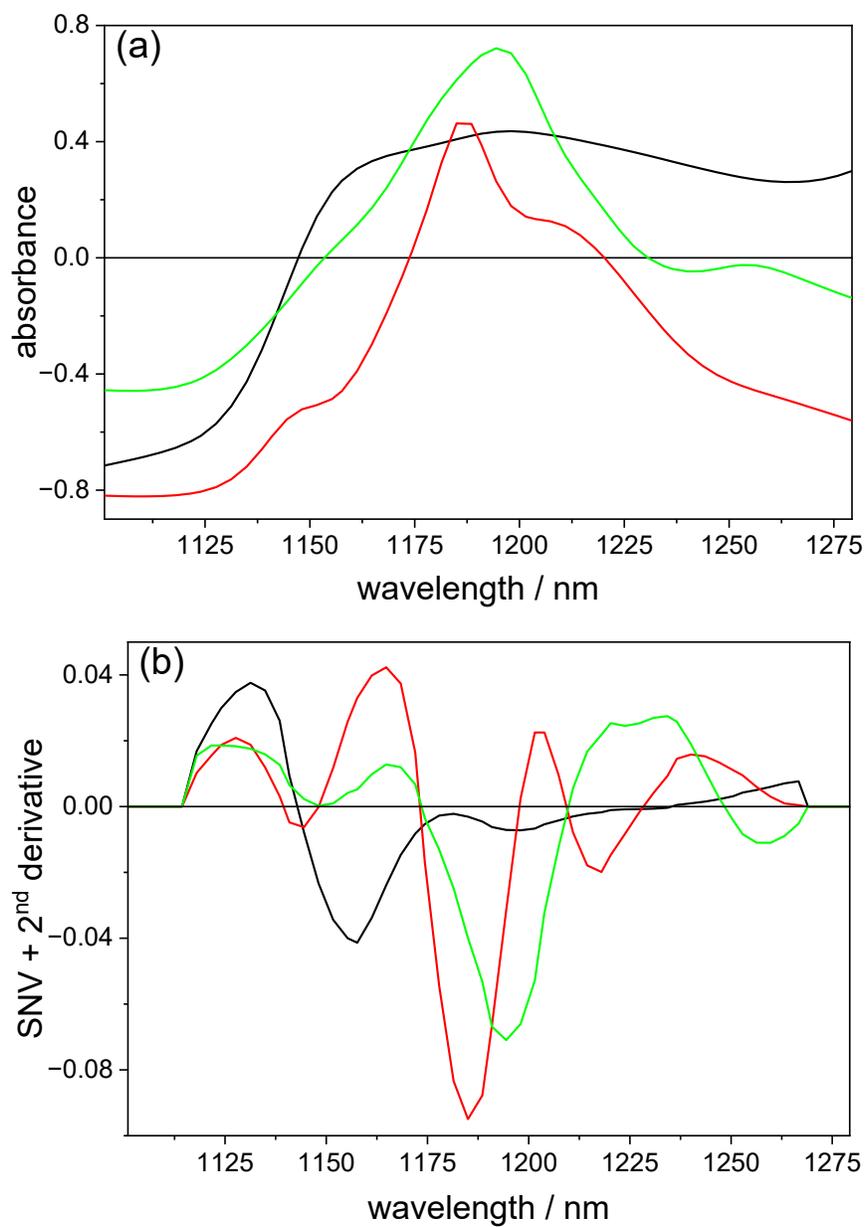


Figure S2. 3rd overtone absorption spectra of water (black), ethanol (red), and methanol (green). (a) original spectra; (b) spectra transformed by SNV followed by 2nd derivative.

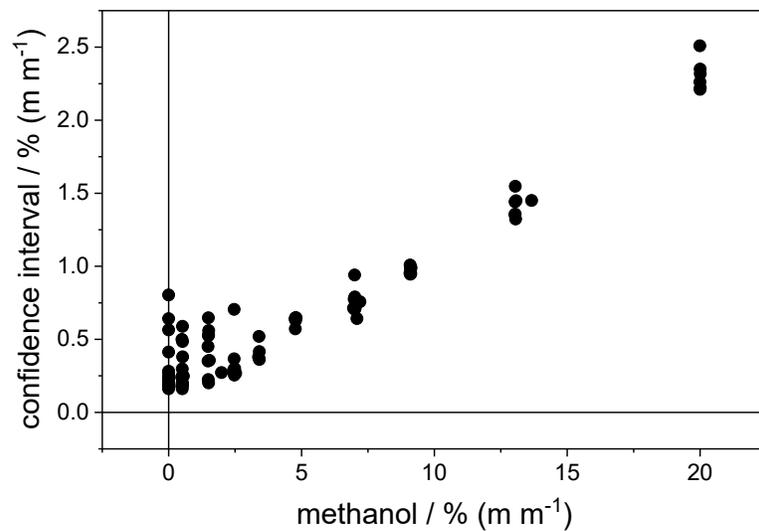


Figure S3. Confidence limits (deviation) at 95% probability for the methanol content determined by the PLS model constructed using mixtures of water/ethanol/methanol.

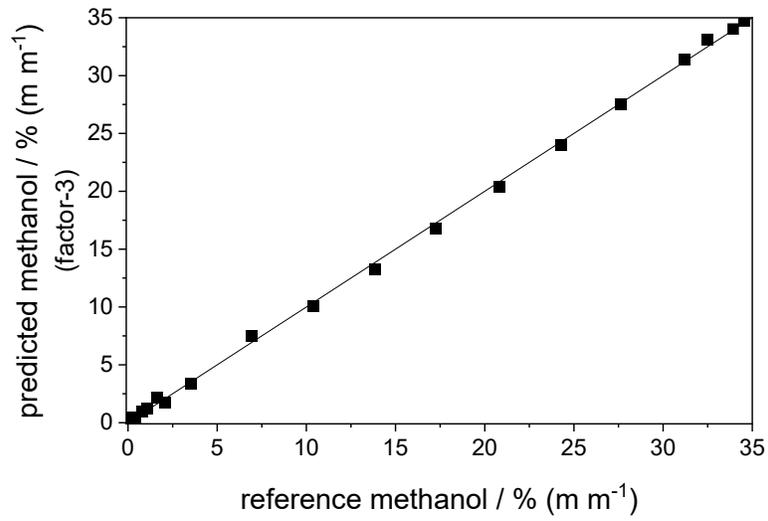


Figure S4. Cross-validation results for the prediction of methanol content using the PLS model constructed using mixtures water/ethanol/methanol.