SUPPLEMENTARY MATERIAL

MOLECULARLY IMPRINTED POLYMER – COATED PAPER AS SUBSTRATE FOR HIGH SENSITIBILITY ANALYSIS USING PAPER SPRAY MASS SPECTROMETRY: QUANTIFICATION OF METABOLITES IN URINE.

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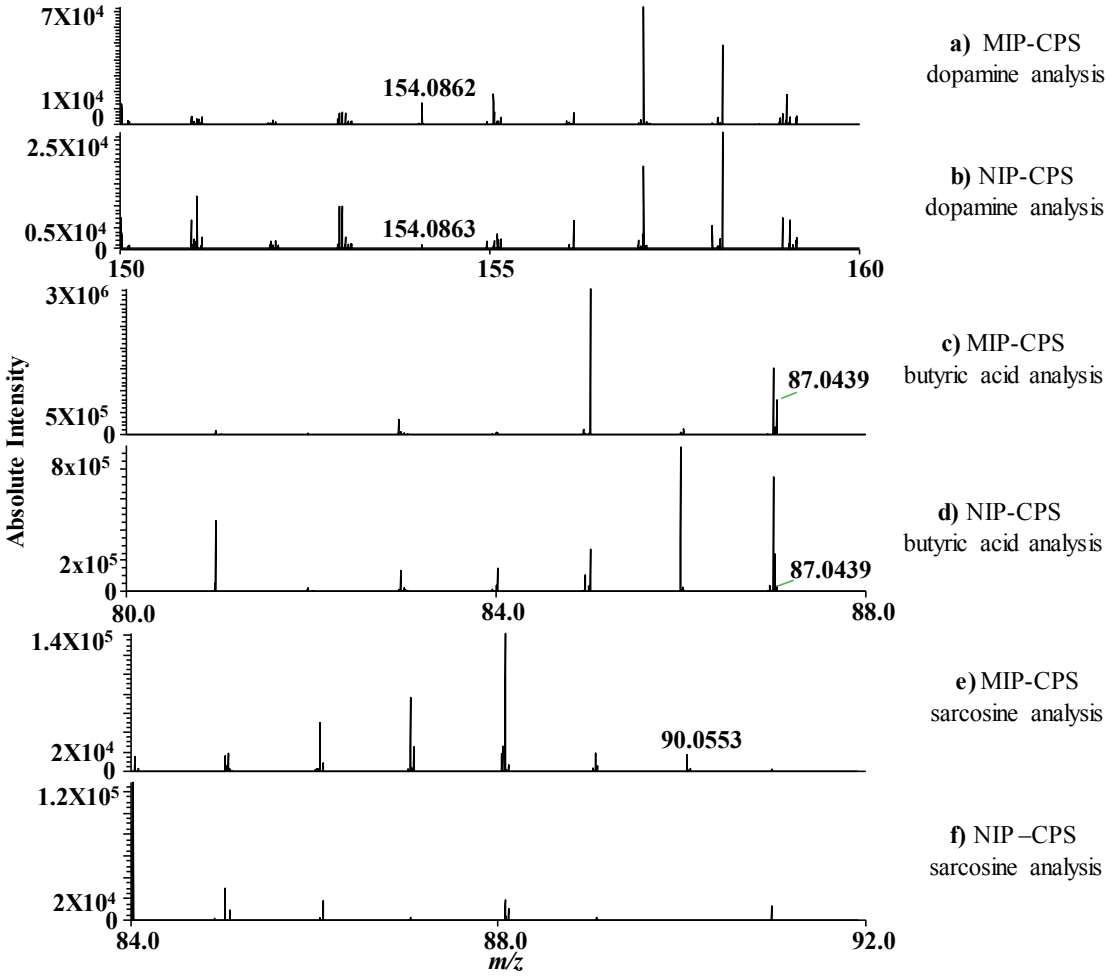
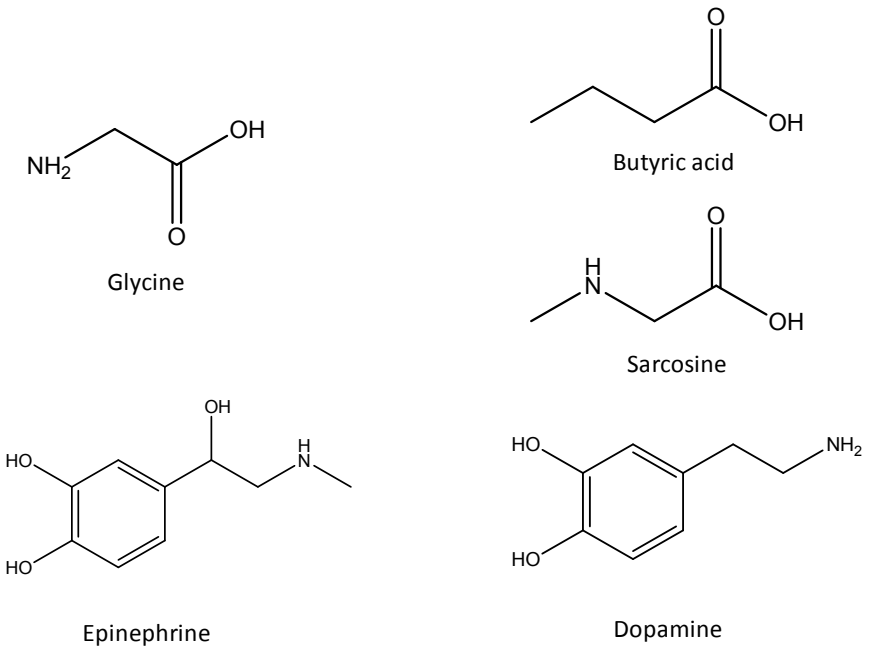


Fig. S-1. PSI(+) mass spectra for dopamine (1000 µg L^{-1}) from artificial urine using **(a)** MIP-CPS and **(b)** NIP-CPS. PSI(-) mass spectra for butyric acid (100 µg L^{-1}) from artificial urine using **(c)** MIP-CPS and **(d)** NIP-CPS. PSI(+) mass spectra for sarcosine (100 µg L^{-1}) from artificial urine using **(c)** MIP-CPS and **(d)** NIP-CPS. Dopamine was detected as $[M+H]^+$ of *m/z* 154 butyric acid as $[M-H]^-$ of *m/z* 87 and sarcosine as $[M+H]^+$ of *m/z* 90.



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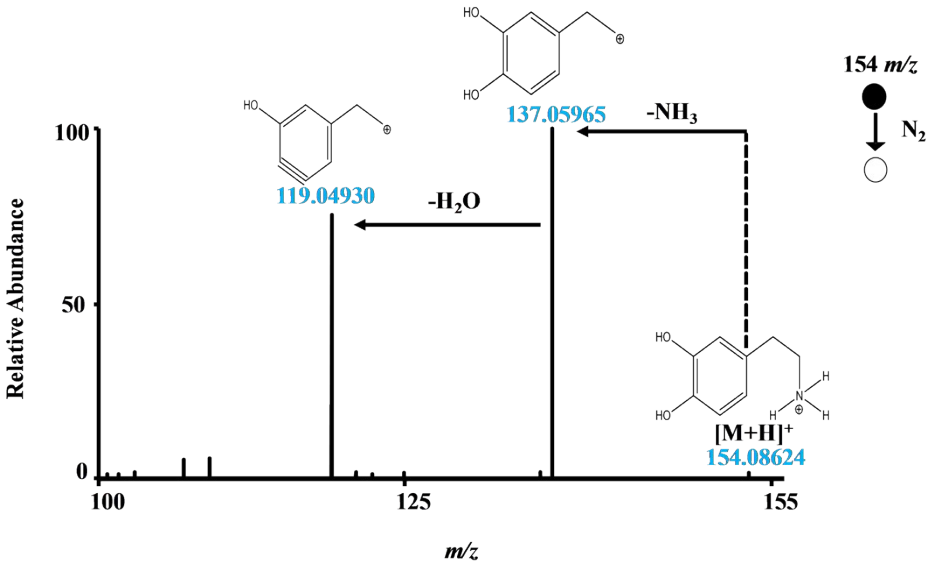
23 **Fig. S-2.** Molecular structure of templates (Glycine and Epinephrine) and target analytes
24 (Butyric acid, sarcosine and dopamine).



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26 **Fig. S-3.** PS (+) MS/MS for DA at 1000 µg L^{-1} from artificial urine using MIP-CPS.

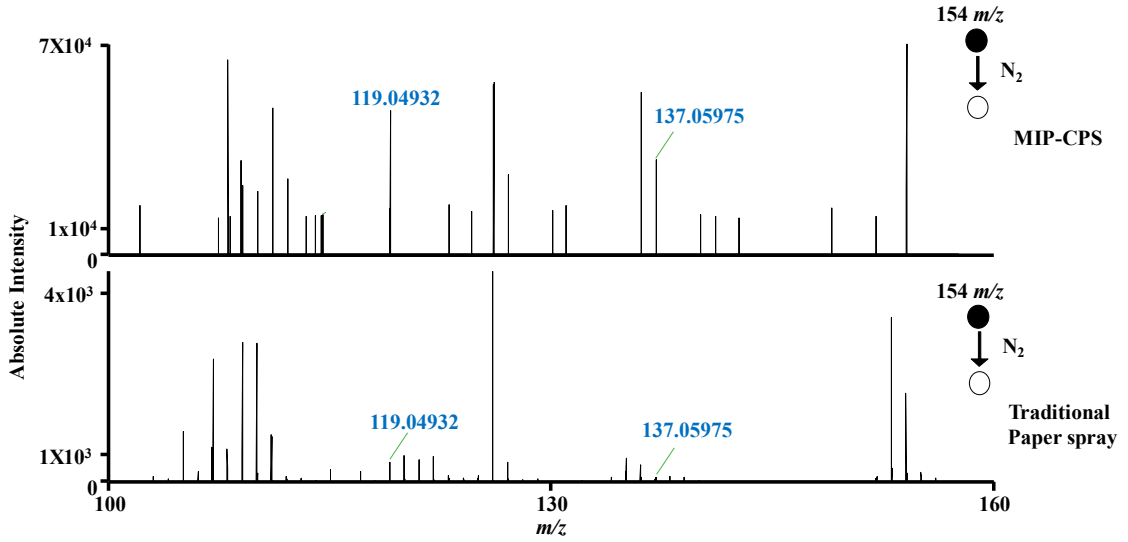

Fig. S-4. PS (+) MS/MS for DA from artificial urine using MIP-CPS and traditional paper spray.