SUPPLEMENTARY INFORMATION

DIRECT IONIC LIQUID EXTRACTANT INJECTION FOR VOLATILE CHEMICAL ANALYSIS – A GAS CHROMATOGRAPHY SAMPLING TECHNIQUE

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Green Chemistry



Figure S1. PTV condition for alkanes and alcohols



Figure S2. Chromatogram of 100 μg/mL n-alkanes with 0.2 mL (20%) of [BMIM][TfSA].
(1): octadecane C18; (2): nonadecane C19; (3): docosane C22



Figure S3. Chromatogram of 100 μg/mL n-alcohols with 0.2 mL (20%) of [BMIM][TfSA]. (1): octanol; (2): nonanol; (3): decanol



Figure S4. PTV condition of PAHs mixture with several parameters (a - e) were analysed to obtain the acceptable condition for analysis



Figure S5. Chromatograms of PAH mixture (16 compounds) with 20% of [BMIM][TfSA] at two different vent open time for vaporisation (same T; 60 °C), (a) 3 min (b) 0.4 min



Figure S6. Schematic diagram of GC-MS with PTV injector and retention gap for preliminary study