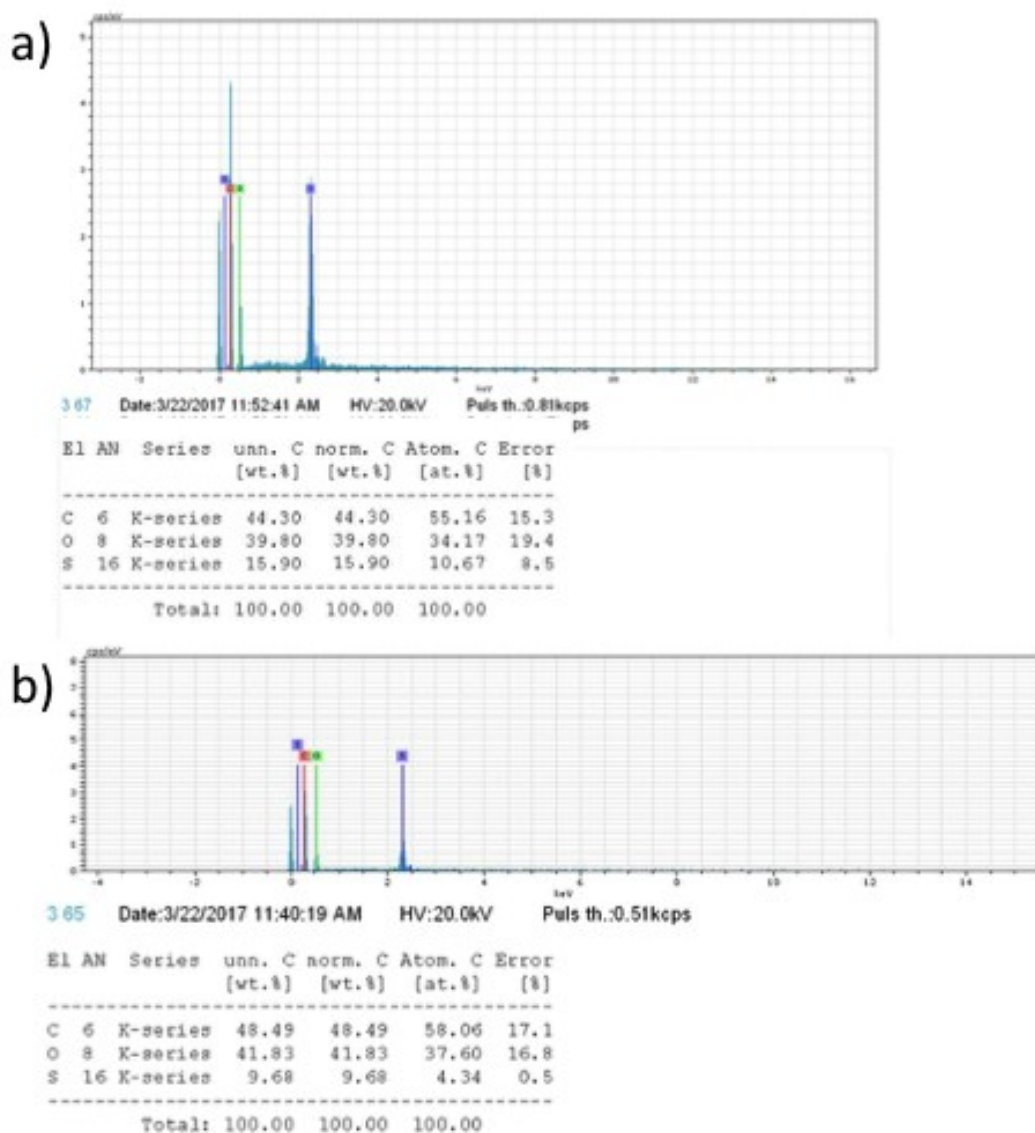


## Supporting Information

### Incorporation of Graphene Oxide on Polyethersulfone Mixed Matrix Membrane to Enhance Hemodialysis Membrane Performance

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**Figure S1.** Graph of EDX result on Figure 5 for (a) PES and (b) PES/GO.

The creatinine concentration was measured by colorimetric assay using picric acid as chromogenic agent. 2 ml mimic blood sample was mixed with 1 ml picric acid solution (26 mM) in 1 M NaOH solution and 1 ml pure water at 37 °C for 15 min. Then the UV absorbance of the complex compound reacted by creatinine and picric acid was detected using the UV-vis spectrophotometer at a wavelength of 510 nm, and the creatinine concentration in the sample was calculated according to a standard curve. At least three runs

were conducted for each sample so as to ensure reproducibility. Finally, the creatinine clearance was calculated by (5) where are the concentrations of creatinine in the mimic blood before and after membrane dialysis.