**Electronic Supplementary Information**

**Magnetic retrieval of a switchable hydrophilicity solvent: Fast homogeneous liquid–liquid microextraction for the determination of benzophenone‐type UV filters in environmental waters**

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**Figure S1.** Effect of magnetic retrieval time. 6M HCl, 200 µL; DEHPA, 40 µL; Fe3O4 NPs, 40 mg; elution solvent and its volume, acetonitrile and 400 µL; elution time, 2 min; spike level, 125 µg L−1.

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**Figure S2.** FT-IR spectra of Fe3O4-DEHPA complex after elution of analytes with acetonitrile.

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**Figure S3.** Effect of elution time. 6M HCl, 200 µL; DEHPA, 40 µL; Fe3O4 NPs, 40 mg; magnetic retrieval time, 3 min; elution solvent and its volume, acetonitrile and 300 µL; spike level, 125 µg L−1.

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**Figure S4.** Effect of ionic strength. 6M HCl, 200 µL; DEHPA, 40 µL; Fe3O4 NPs, 40 mg; magnetic retrieval time, 3 min; elution solvent and its volume, acetonitrile and 300 µL; elution time, 3 min; spike level, 125 µg L−1.