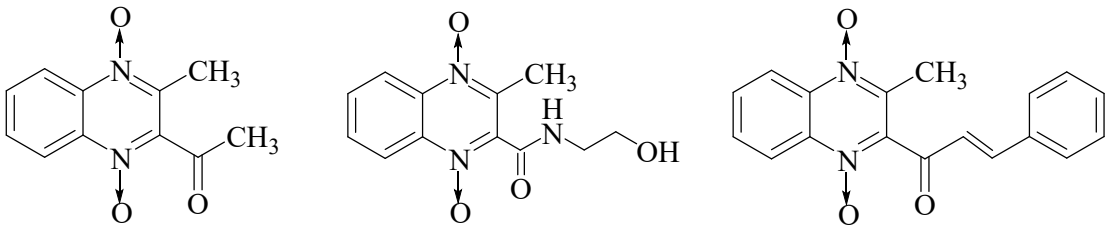


**Fig. S1** Structures of MEQ, OLA and QCT.

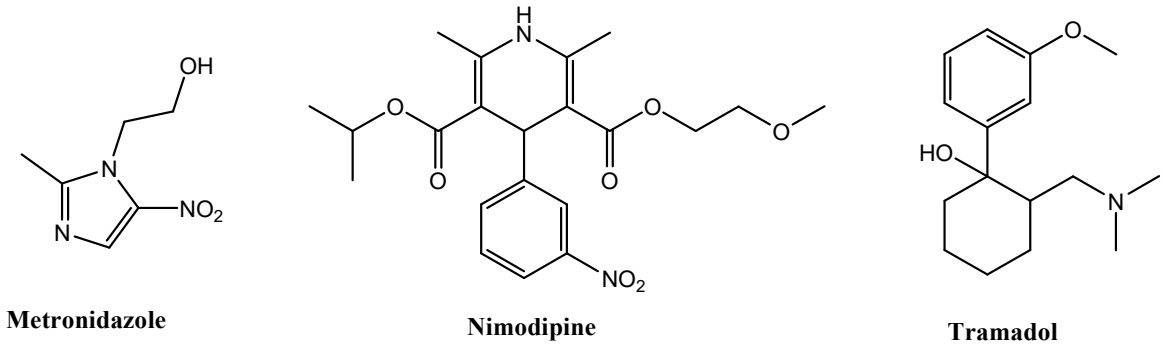


**Fig. S2** Structures of metronidazole, nimodipine and tramadol.

**Table S1** MS parameters for the QdNOs.

| Analytes | Precursor ions | Product ions | Collision energy |
|---|---|---|---|
| OLA | 264.00 | 212.00 | 22 |
| MEQ | 219.00 | 143.00 | 23 |
| QCT | 307.00 | 273.00 | 20 |

**Table S2** Scatchard equation, dissociation constant ($K_d$), correlation coefficient ($R^2$) and maximum adsorption amount（$Q_{max}$）of $Fe_3O_4$@COOH-MIPs.

| Analytes | Scatchard Equation | $R^2$ | $K_d$（μg $mL^{-1}$） | $Q_{max}$（μg $g^{-1}$） |
|---|---|---|---|---|
| MEQ | y = -0.0155x + 33.834 | 0.9747 | 64.5 | 2182.3 |
| OLA | y = -0.0982x + 61.498 | 0.9887 | 10.2 | 627.3 |
| QCT | y = -0.049x + 44.641 | 0.9144 | 20.4 | 910.7 |

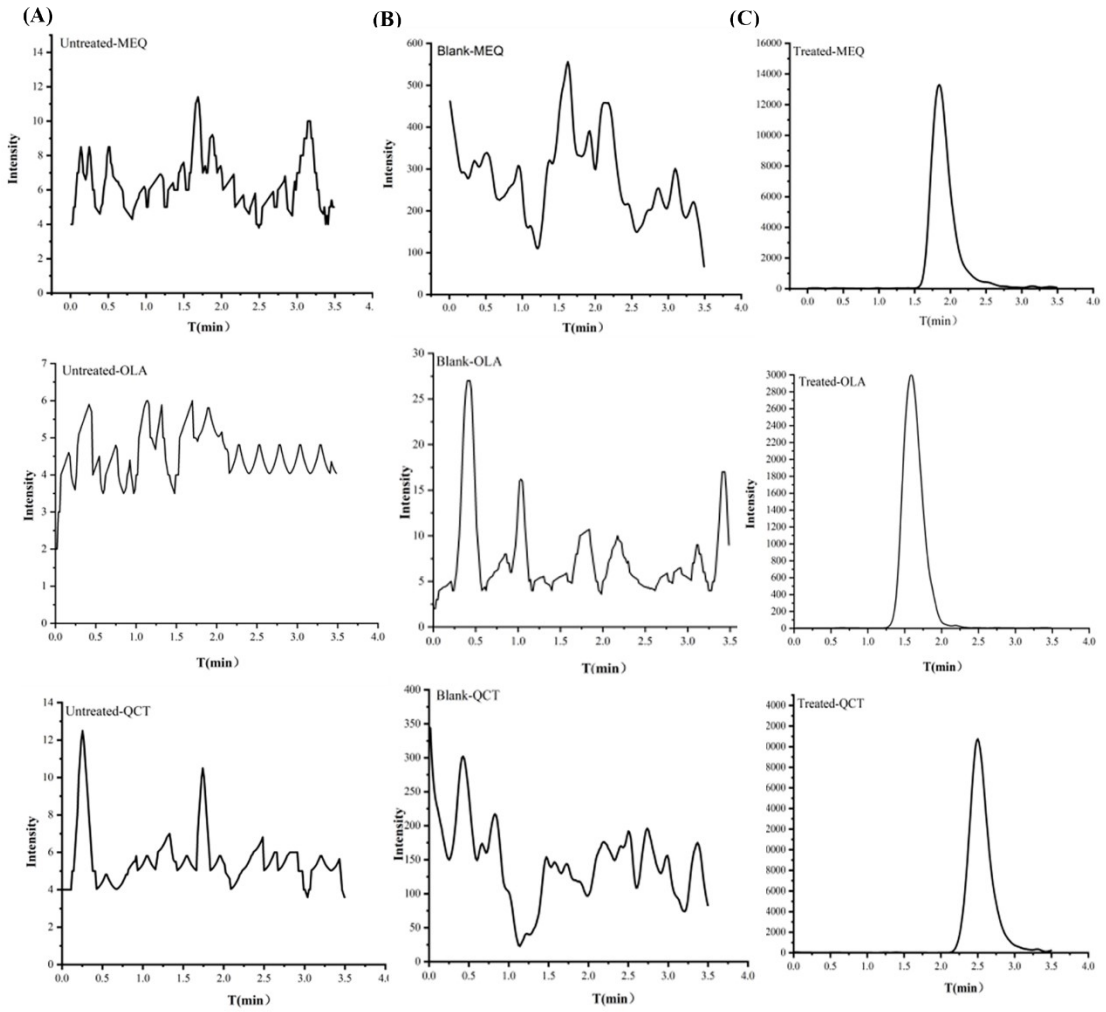


**Fig. S3** Typical chromatograms of QdNOs in Hunhe Water sample. (A) un-spiked water sample before MSPE, (B) un-spiked water sample after MSPE, and (C) spiked river sample after MSPE.