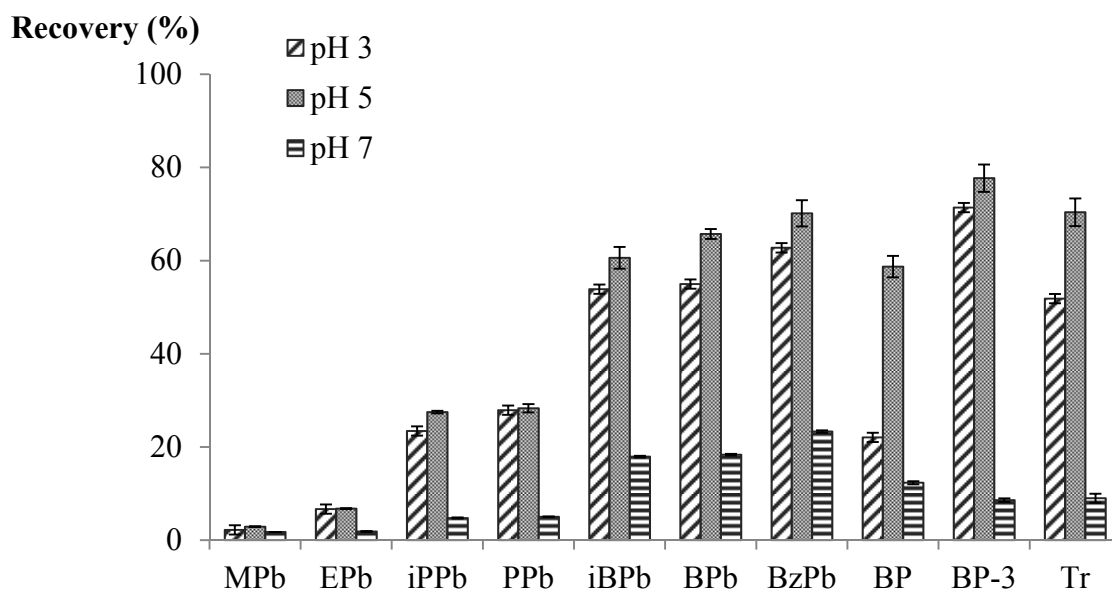


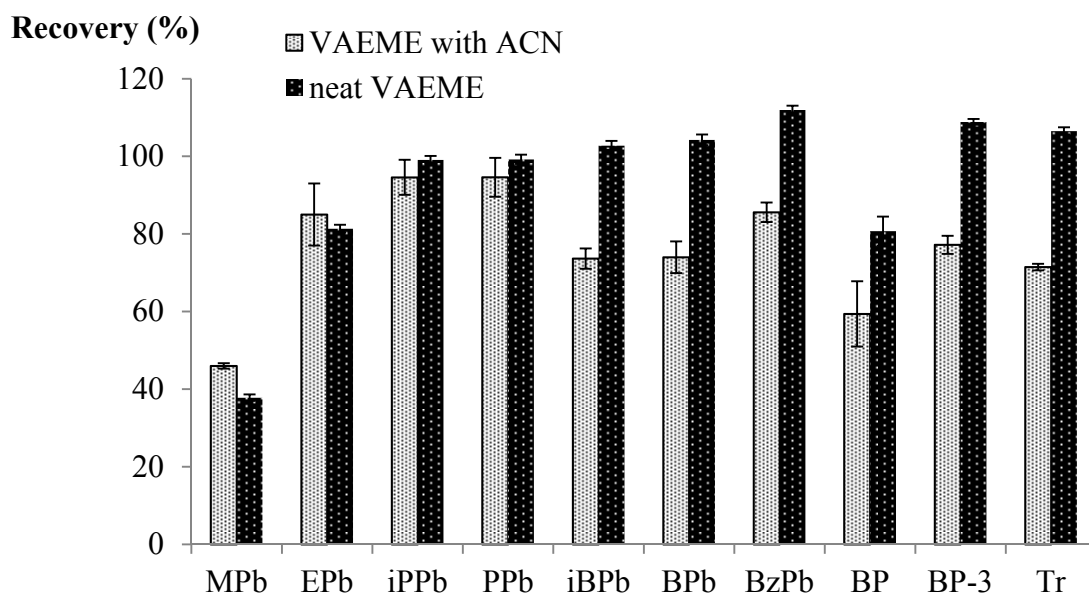
### Figure S1

Influence of the aqueous sample pH on the VAEME performance, using tetrachlorethylene as extractant solvent in this representative plot.



**Figure S2**

Influence of the utilization of acetonitrile in the VAEME performance.



**Table S1**

Several quality analytical parameters of the chromatographic method.

PCPs	(Slope $\pm$ S <sub>b</sub> <sup>a</sup> )	(Intercept $\pm$ S <sub>a</sub> <sup>b</sup> )	S <sub>y/x</sub> $\times 10^{-3}$	R <sup>2</sup>	LOD <sup>c</sup>	LOQ <sup>c</sup>	RSD <sup>d</sup> (%)		
	$\times 10^{-3}$	$\times 10^{-3}$					Spiked level: 0.1 mg·L <sup>-1</sup>	Spiked level: 1.0 mg·L <sup>-1</sup>	Spiked level: 1.7 mg·L <sup>-1</sup>
MPb	351 $\pm$ 3	-2 $\pm$ 3	4.29	0.9997	0.011	0.025	1.10	1.08	0.53
EPb	361 $\pm$ 3	-2 $\pm$ 3	4.78	0.9997	0.013	0.028	0.43	1.06	0.38
<i>i</i> PPb	324 $\pm$ 2	-1 $\pm$ 3	4.05	0.9997	0.010	0.026	1.38	1.07	0.38
PPb	352 $\pm$ 2	0.4 $\pm$ 2.5	3.69	0.9998	0.005	0.020	1.55	1.12	0.40
<i>i</i> BPb	301 $\pm$ 2	-2 $\pm$ 2	3.65	0.9997	0.023	0.061	1.69	1.31	0.48
BPb	321 $\pm$ 5	2 $\pm$ 5	7.68	0.9990	0.014	0.058	1.82	0.91	0.70
BzPb	256 $\pm$ 3	-3 $\pm$ 3	4.58	0.9994	0.029	0.073	0.91	1.18	0.70
BP	334 $\pm$ 5	-8 $\pm$ 5	8.16	0.9990	0.059	0.140	-	0.61	0.92
BP-3	165 $\pm$ 3	-4 $\pm$ 4	5.87	0.9978	0.056	0.126	-	2.31	1.59
Tr	50 $\pm$ 1	0.3 $\pm$ 1.4	2.15	0.9968	0.029	0.110	-	2.82	2.13

<sup>a</sup>Error associated to slope, for a concentration range of 0.01 to 2.00 mg·L<sup>-1</sup> (n = 7)<sup>b</sup>Error associated to intercept, for a concentration range of 0.01 to 2.00 mg·L<sup>-1</sup> (n = 7)<sup>c</sup>LOD and LOQ calculated according to the ratio S/N as 3 and 10 times, respectively<sup>d</sup>Relative standard deviation (intra-day precision, n = 6)

**Table S2**

Several quality analytical parameters of the calibrations for the overall method (VAEME-UHPLC-UV), using tetrachloroethylene as extractant solvent.

PCPs	Concentration range ( $\mu\text{g}\cdot\text{L}^{-1}$ )	(Slope $\pm$ $S_b^a$ ) $\times 10^{-3}$	(Intercept $\pm$ $S_a^b$ ) $\times 10^{-3}$	$S_{y/x} \times 10^{-3}$	$R^2$	LOQ <sup>c</sup> ( $\mu\text{g}\cdot\text{L}^{-1}$ )
MPb	4 – 834	$0.23 \pm 0.01$	$15 \pm 3$	4.17	0.9971	49.8
EPb	2 – 417	$1.07 \pm 0.02$	$14 \pm 5$	6.88	0.9985	8.10
<i>i</i> PPb	0.4 – 88	$5.7 \pm 0.1$	$3 \pm 5$	7.00	0.9990	4.87
PPb	0.4 – 83	$5.6 \pm 0.1$	$8 \pm 3$	4.97	0.9993	4.16
<i>i</i> BPb	0.2 – 44	$12.2 \pm 0.3$	$1 \pm 8$	11.0	0.9979	2.62
BPb	0.2 – 25	$12.5 \pm 0.1$	$5 \pm 2$	2.26	0.9997	2.73
BzPb	0.2 – 35	$7.8 \pm 0.1$	$18 \pm 2$	3.02	0.9993	3.53
BP	6 – 38	$19.4 \pm 0.5$	$-86 \pm 13$	12.9	0.9980	7.31
BP-3	5 – 35	$20.5 \pm 0.1$	$-35 \pm 2$	2.78	0.9999	6.61
Tr	5 – 35	$4.68 \pm 0.04$	$-10 \pm 1$	0.92	0.9998	9.99

<sup>a</sup>Error associated to slope (n = 6)

<sup>b</sup>Error associated to intercept (n = 6)

<sup>c</sup>LOQ calculated according to the ratio S/N as 10 times