

Figure captions:

Figure S1. Chromatogram of standard mixture of 6 phthalates obtained by method 1; BBP, butyl benzyl phthalate; DBP, di-n-butyl phthalate; DNOP, di-n-octyl phthalate; DEHP, di-2-ethylhexyl phthalate; DINP, diisononyl phthalate; DIDP, diisodecyl phthalate.

Figure S2. Chromatogram of standard mixture of 7 phthalates obtained by method 2; DBP, di-n-butyl phthalate; DIBP, diisobutyl phthalate; BBP, butyl benzyl phthalate; DNOP, di-n-octyl phthalate; DEHP, di-2-ethylhexyl phthalate; DINP, diisononyl phthalate; DIDP, diisodecyl phthalate.

Figure S3. Chromatogram of the blank sample, with labelled regions where phthalates are expected (used for LOD determination), obtained by method 1.

Figure S4. Chromatogram of the blank sample, with labelled regions where phthalates are expected (used for LOD determination), obtained by method 2.

Figure S5. Chromatogram of the sample from proficiency testing during 2021 obtained by method 1 (PT LGC 2021).

Figure S6. Chromatogram of the sample from proficiency testing during 2021 obtained by method 2 (PT LGC 2021).

Figure S7. Chromatogram of the sample from proficiency testing during 2016 obtained by method 1, diluted (PT CHECK 2016).

Figure S8. Chromatogram of the sample from proficiency testing during 2017 obtained by method 1, diluted (PT CHECK 2017).

Figure S9a. Chromatogram of the toy sample A that contains DBP, DEHP and DINP obtained by method 1.

Figure S9b. Chromatogram of the toy sample A that contains DBP, DEHP and DINP obtained by method 2.

Figure S10. Chromatogram of the toy sample B that contains DBP and DEHP obtained by method 1.

Figure S11. Chromatogram of the toy sample C that contains DBP, DEHP and trace of DIBP, obtained by method 2.