

## Supplementary

### **Vortex-homogenized matrix solid-phase dispersion coupled with gas chromatography – electron-capture negative-ion mass spectrometry to determine halogenated phenolic compounds in seafood**

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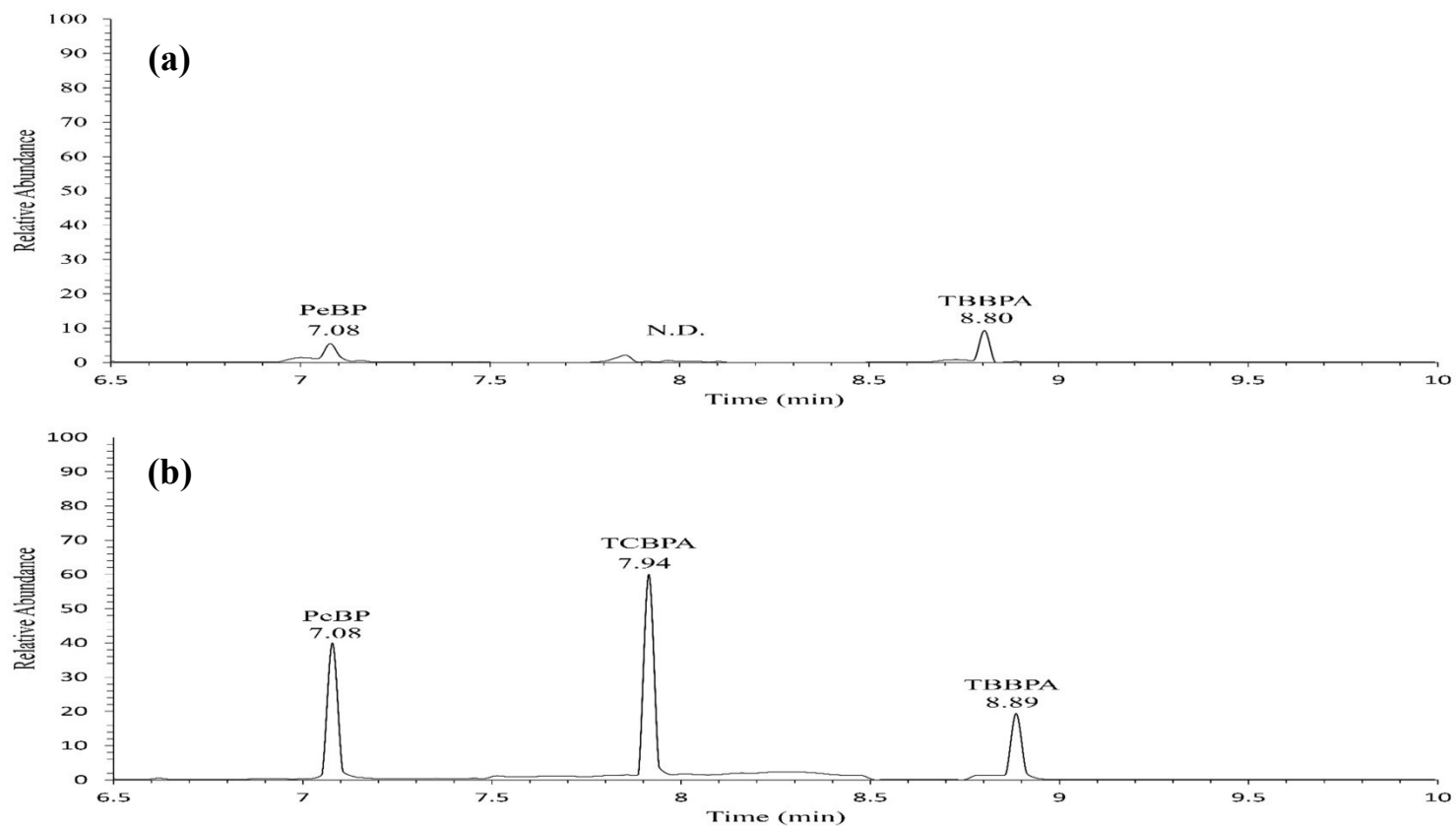
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**Table S1** Experimental results based on the Box-Behnken design for VH-MSPD and total recovery for fish samples.

<b>Run</b>	<b>Factor 1 A: Florisil (g)</b>	<b>Factor 2 B: C18 (g)</b>	<b>Factor 3 C: ACN (mL)</b>	<b>Total recovery (%)</b>
1	1	1.5	8	190
2	1.5	1	8	171
3	1	1.5	16	189
4	1	1	12	250
5	1	0.5	16	168
6	1.5	0.5	12	199
7	0.5	1	8	137
8	1	1	12	243
9	0.5	1.5	12	184
10	1.5	1.5	12	199
11	1	1	12	249
12	1.5	1	16	132
13	0.5	0.5	12	165
14	0.5	1	16	131
15	1	0.5	8	174

**Table S2.** Analysis of variance (ANOVA)

<b>Source</b>	<b>Sum of Squares</b>	<b><i>df</i></b>	<b>Mean Square</b>	<b><i>F</i> value</b>	<b><i>p</i>-value Prob &gt; <i>F</i></b>
A-Florisil	882	1	882	16.09	0.0102
B-C18	392	1	392	7.15	0.0441
C-Acetonitrile	338	1	338	6.16	0.0557
AB	90.25	1	90.25	1.65	0.2558
AC	272.25	1	272.25	4.97	0.0763
BC	6.25	1	6.25	0.11	0.7494
A <sup>2</sup>	8880.314	1	8880.314	161.95	< 0.0001
B <sup>2</sup>	491.8526	1	491.8526	8.97	0.0303
C <sup>2</sup>	11390.31	1	11390.31	207.73	< 0.0001



**Figure S1.** The injection-port silylation GC-ECNI-MS SIM chromatograms for (a) non-spiked and (b) spiked shrimp samples.