

Supplementary Information

Multiresidue Determination and Uncertainty Analysis of Pesticides in Soil by Ultrafast Liquid Chromatography Coupled to Mass Spectrometry

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Table S1. Identification parameters of targeted pesticides obtained by UFLC/ESI-MS. Retention time (t_R), target ion (TI) and qualifiers (Q1 and Q2)

Compound	t_R / min	TI, m/z	Q1, m/z	Q2, m/z
Positive ionization mode				
Acephate	2.625	184	202	389
Azoxystrobin	6.531	404	405	372
Benalaxyl	7.655	326	327	
Carbendazim	3.257	192	234	
Carbofuran	4.886	222	280	
Difenocolazole	7.756	408	406	
Dimethoate	3.419	230	232	171
Tiabendazole	3.479	202	203	
Dimetomorph	6.093	390	388	
Famoxadone	6.861	369	313	
Imazalil	5.395	297	299	
Indoxacarb	8.459	528	550	
Metalaxyl	5.329	280	281	
Methomyl	2.995	163	180	
Methoxyfenozide	6.956	369	313	
Monocrotophos	2.864	241	224	242
Pyrimethanil	6.153	200	201	
Tebuconazole	6.914	308	310	
Thiocyclam	2.540	182	183	
Propanil	4.210	218	220	
Oxamyl	2.889	237	238	
Thiodicarb	4.697	355	357	
Atrazine	5.249	216	218	
Pirimicarb	5.064	239	240	
Spinosad	6.712	747	748	733
Diazinon	8.095	305	306	
TPP	7.879	344	327	
Negative ionization mode				
Imidacloprid	3.405	256	297	254
Hexaconazole	7.100	358	360	
Cymoxanil	3.848	197	233	
Chlorfenapyr	7.813	349	347	

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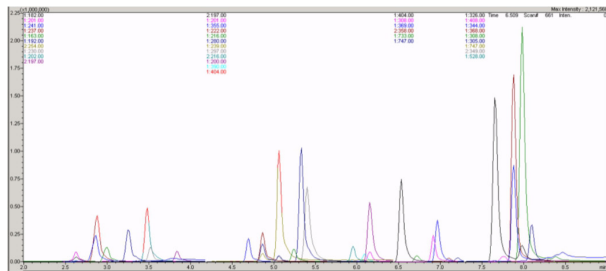


Figure S1. Chromatograms of target ions of pesticides analyzed by UFLC-MS at the concentration corresponding to LOQ.



Figure S3. Chromatograms of target ions in real sample (week 4). Signal in ca. 3.25 min is carbendazim.



Figure S2. Chromatograms of target ions in blank samples (with addition of TPP).

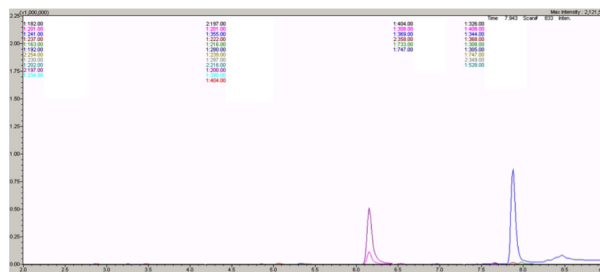


Figure S4. Chromatograms of target ions in real sample (week 1). Signal in ca. 6.15 min is pyrimethanil.