Table S1. Multiple Reaction Monitoring (MRM) Conditions in LC-MS/MS, Retention Times, and Quality Factors for Analytical Performance of SPE and QuEChERS Methods, Including Accuracy and Precision.

Biological activity	Active ingredients	Precursor ion (m/z)	Product Ions (m/z)	Collision Energy (eV)	RT (min)	Soil				Water		
						Spiked soil concentration (µg kg $^{-1}$)	Recovery (%) ± STD	LOD (µg kg^{-1})	LOQ (µg kg^{-1})	Recovery (%) ± STD	LOD (µg L^{-1})	LOQ (µg L^{-1})
Fungicide	**Cyflufenamid**	**413.1**	**223.1**	**15**	14.43	75	74.8± 1	0.3	0.8	56 ± 2.7	0.3	1
			241.1	15								
	Cypridonil	226	93	35	3.77	75	65.2 ± 0.4	0.8	2.3	70 ± 2.7	0.3	1
			108	25								
			118	35								
	Dimethomorph	388.2	165	25	5.42	88	56.4 ± 0.8	0.4	0.9	42 ± 0.1	0.4	1.2
			301	25								
	Epoxiconazol	330.1	101	25	9.36	10	120.6 ± 13.8	0.75	2.3	73.3 ±6.6	0.3	1
			121.1	25								
	Fluopicolide	383	173	15	10.19	84	63.4 ± 1.1	0.3	0.8	48 ± 4.6	0.4	1.1
	Metalaxyl	280	192	13	3.72	10	143.8 ± 10.4	0.3	0.8	76.6 ± 1.8	0.3	1
			220	22								
	Metalaxyl- M	280.2	192.1	10	3.6	120	60.6 ± 1.3	0.5	1.2	63 ± 3.6	0.5	1.6
			220.1	10								
	Penconazole	284.1	158.9	20	10.57	10	57.1 ± 13.3	0.3	0.8	76 ± 2.7	0.3	1
			173	20								
	Tetraconazole	372.1	159	25	10.09	91	68.8 ± 1.3	0.4	0.9	52 ± 3.2	0.4	1.2
Herbicide	Flufenacet	364.1	152.1	10	11.22	148	37 ± 0.5	0.6	1.5	45 ± 2	0.7	2
			194.1	10								
	Isopropanil	310.2	208.1	20	17.41	94	55.3 ± 0.6	0.4	0.9	41 ± 4	0.4	1.3
			226.1	20								
	Linuron	249	159.9	12	7.94	10	109 ± 14.4	0.45	1.5	52.1 ± 13.3	0.3	1
			182	8								
	Metsulfuron-Methyl	382.1	167.1	10	2.85	77	34 ± 1.6	0.3	0.8	68 ± 1.7	0.3	1
	Simazine	202.2	104.1	33	2.97	10	42.9 ± 6.2	0.3	0.8	45.1 ± 10	0.3	1
			132	25								
	S-Metolachlor	284.2	252.2	10	10.54	7	77.4 ± 7.4	0.2	0.5	51 ± 6.2	0.2	0.7

	Triasulfuron	402.1	141.1 167.1	16 12	3.13	10	63 ±1.7	0.3	0.8	84.5 ± 12.9	0.3	1
	Tribenuron-Methyl	396.1	155.1	10	4.95	96	124 ± 12.1	6.3	19.2	72 ± 12.9	2.1	6.4
Inscticide	Acetamiprid	223.1	56.1 126	12 12	2.08	500	42.5 ± 5	25.05	75	106± 13	3.3	10
	Chlorantraniliprole	30	286 295.2 453	15 15 15	16.1	83	76.4 ± 2.7	0.33	0.8	68 ± 2.1	0.4	1.1
	Chlorpyrifos	352	125	15	13.94	75	76.7 ± 2	4.5	15	65 ± 3.4	1.7	5
	Chlorpyriphos Methyl	323.9	124.9 291.8	10 10	4.96	113	83.1 ± 4.2	6.8	22.7	43 ± 4.6	2.5	7.6
	Flupyradifurone	289	126.1 241.1	25 15	2.31	500	128 ± 10.1	25.1	75	108 ± 21	16.7	50
	Imidacloprid	256.1	175.1 209	25 21	2.08	96	35.7 ± 2.4	0.38	1	53.3 ±22.7	0.4	1.3
	Thiamethoxam	292.1	181.8 211.1	29 19	1.85	75	10 ± 1.7	0.45	1.5	33 ± 11.3	1.7	5