

Table S1. Chemical structures and physicochemical properties of the four pesticides.

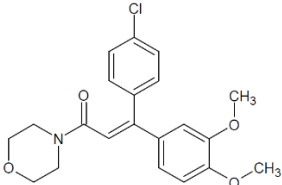
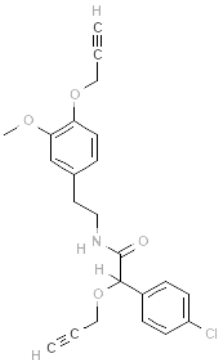
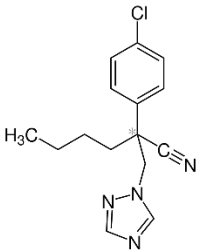
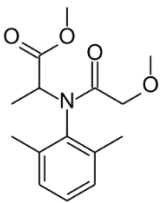
Pesticide	Chemical structure	Molecular weight	Vapor pressure (mPa)
Dimethomorph		387.9	$9.7 \times 10^{-4}$ ; (E)-isomer $1.0 \times 10^{-3}$ ; (Z)-isomer (25 °C)
Mandipropamid		411.9	$9.4 \times 10^{-4}$ (25°C)
Myclobutanil		288.8	$1.98 \times 10^{-1}$ (20°C)
Metalaxyl		279.3	0.75 (25°C)

Table S2. Greenhouse air temperature, humidity, and pesticide treatment date during cultivation of squash plants.

Date	Temperature (°C)			Average humidity (%)	Pesticide treatment and sampling date
	Minimum	Maximum	Average		
April 6, 2021	4.3	35.2	17.0	68.6	First treatment
April 7, 2021	3.9	36.2	17.6	63.0	
April 8, 2021	3.5	33.6	16.7	63.8	
April 9, 2021	2.8	37.5	15.9	65.4	
April 10, 2021	3.8	35.3	17.1	67.1	
April 11, 2021	5.0	36.5	19.0	68.4	
April 12, 2021	11.5	26.8	15.7	90.9	Second treatment
April 13, 2021	7.9	40.0	20.1	81.2	
April 14, 2021	4.1	31.4	16.1	66.0	
April 15, 2021	2.1	32.8	15.5	67.3	
April 16, 2021	6.0	27.8	13.7	88.8	
April 17, 2021	4.8	36.7	14.1	73.3	
April 18, 2021	4.7	31.2	15.6	70.2	Third treatment and 0 day sampling after 2 h
April 19, 2021	2.2	34.7	16.0	63.8	
April 20, 2021	3.8	33.8	18.1	66.0	
April 21, 2021	6.5	41.0	22.1	65.6	
April 22, 2021	14.1	38.0	22.4	63.5	
April 23, 2021	14.3	27.7	19.1	53.3	3 days sampling
April 24, 2021	10.2	36.2	20.0	69.8	
April 25, 2021	7.7	38.0	20.9	67.5	5 days sampling
April 26, 2021	6.5	33.3	19.3	64.0	
April 27, 2021	11.3	29.1	18.5	77.2	7 days sampling
April 28, 2021	11.0	27.4	18.4	76.7	
April 29, 2021	9.5	29.6	18.2	75.1	
April 30, 2021	10.7	29.8	17.5	82.6	
May 1, 2021	10.1	36.6	15.8	88.9	
May 2, 2021	7.2	32.2	17.7	71.8	

May 3, 2021	4.1	32.9	18.5	69.0	
May 4, 2021	11.2	25.8	18.2	75.2	14 days sampling

