PoloPlus output for acute toxicity bioassay in Kleckner et al. 2022

See Bioassay_data_github.csv for data used in the analysis.

Coumaphos: Round 6

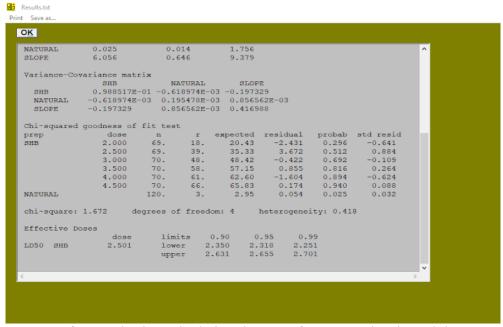


Figure 1. Output from PoloPlus calculating the LC₅₀ for coumaphos in $\mu g/\mu l$. LC₅₀ was later converted to $\mu g/g$.

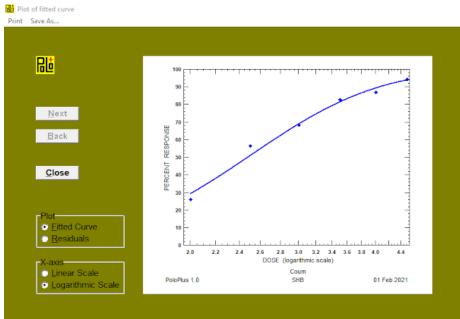


Figure 2. Graph of dose-response curve generated by PoloPlus for coumaphos. The x-axis represents the log-dose ($\mu g/g$) and the y-axis represents the response, or mortality, at 72 hours post compound administration.

Acetamiprid: Round 2

3HB	4.325	0.5	63	7.679				
NATURAL	0.111	0.0	42	2.640				
BLOPE	3.126	0.443		7.061	7.061			
Variance-Cov	ariance matr	ix						
	SHB	N.A	TURAL	SLOP	Е			
SHB	0.317231	231 0.208		0.2421	60			
NATURAL	0.208956E-	02 0.176059E-02		2 0.3477	0.347707E-02			
SLOPE	0.242160	0.34	17707E-0	0.1960	27			
Chi-squared	goodness of	fit test	:					
prep	dose	n	r e	expected	residual	probab	std resid	
знв	0.025	50.	13.	16.53	-3.531	0.331	-1.062	
	0.050	50.	38.	32.29	5.707	0.646	1.688	
	0.100	50.	43.	44.87	-1.874	0.897	-0.874	
	0.200	50.	49.	49.28	-0.281	0.986	-0.333	
	0.400			49.95	0.046	0.999	0.214	
NATURAL		50.	6.	5.54	0.462	0.111	0.208	
chi-square:	4.9390 d	egrees o	of freed	om: 3	heterogen	eity: 1.6	463	
						-		
Effective Do	ses dose	1 2 2		.90 0	.95 0.5			
LD50 SHB	0.041			026 0.		,,		
DJO SNB	0.041	uppe			062			
		uppe	0.0	0.	062			

Figure 3. Output from PoloPlus calculating the LC₅₀ for acetamiprid in $\mu g/\mu l$. LC₅₀ was later converted to $\mu g/g$.

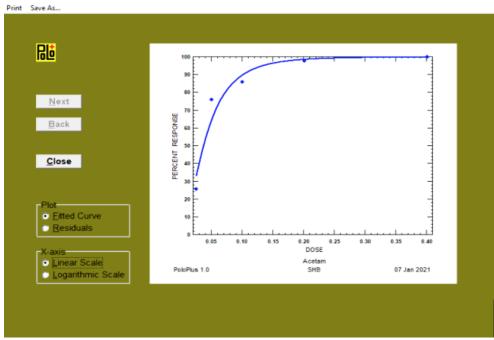


Figure 4. Graph of dose-response curve generated by PoloPlus for acetamiprid. The x-axis represents the log-dose ($\mu g/g$) and the y-axis represents the response, or mortality, at 72 hours post compound administration.

Fipronil: Round 5

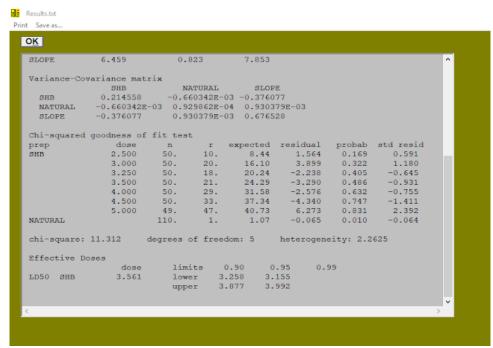


Figure 5. Output from PoloPlus calculating the LC₅₀ for fipronil in $\mu g/\mu l$. LC₅₀ was later converted to $\mu g/g$.

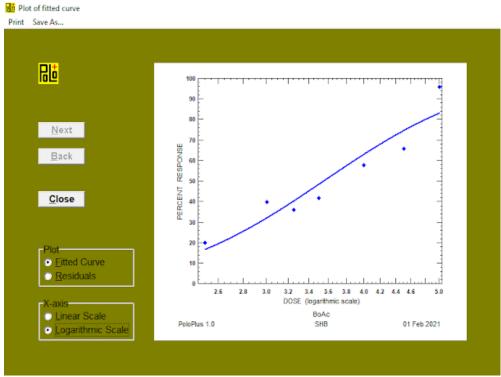


Figure 6. Graph of dose-response curve generated by PoloPlus for fipronil. The x-axis represents the log-dose (μ g/g) and the y-axis represents the response, or mortality, at 72 hours post compound administration.