Electronic Supplementary Information (ESI)

Photoinduced chemiluminescence determination of carbamate pesticides

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Table S1 Intra- and inter-day precision of the proposed HPLC-PICL method with SPE (500 mL). Each concentration was tested by triplicate with standard samples.

Pest.	Concentration, ng mL^{-1}	Intra-day precision, %RSD (n=3)	Inter-day precision, %RSD (n=5)
MET	**0.5**	**2.9**	**5.3**
	1.0	**1.1**	**3.0**
	2.0	**2.3**	**2.6**
BUT	**0.5**	**3.2**	**7.8**
	1.0	**2.7**	**5.0**
	2.0	**2.5**	**4.1**
ALD	**0.5**	**4.4**	**7.9**
	1.0	**3.9**	**4.9**
	2.0	**2.5**	**3.4**
TPM	**1.0**	**7.5**	**12.3**
	2.0	**5.8**	**7.2**
	3.0	**5.9**	**7.3**
TDC	**0.5**	**3.4**	**6.2**
	1.0	**2.7**	**3.0**
	2.0	**2.1**	**2.6**
TFN	**0.5**	**3.4**	**5.5**
	1.0	**2.4**	**3.2**
	2.0	**1.9**	**2.8**
ETH	**1.0**	**7.4**	**8.7**
	2.0	**6.3**	**7.6**
	3.0	**6.0**	**6.6**
MER	**1.0**	**7.5**	**8.4**
	2.0	**5.3**	**6.6**
	3.0	**6.1**	**6.4**

Table S2 Mean recovery (%) and relative standard deviation (%) (in brackets) for the six samples tested. Each result is the average of five concentrations (0.4, 0.8, 1.2, 1.6 and 2.0 ng mL^{-1} or 1.0, 1.5, 2.0, 2.5 and 3.0 ng mL^{-1} for MER, TPM and ETH) prepared by duplicate.

Pesticide	River 1	River 2	Dam	Well	Spring	Irrigation
MET	95.2 (7.3)	104.3 (4.7)	98.8 (2.6)	109.8 (5.6)	103.9 (8.0)	99.5 (4.1)
BUT	93.8 (1.9)	94.4 (7.0)	97.4 (5.5)	100.4 (7.9)	97.5 (7.4)	99.0 (2.1)
ALD	98.5 (2.2)	95.2 (3.4)	98.2 (5.6)	102.4 (3.4)	97.1 (6.5)	97.3 (4.6)
TPM	62.0 (17)	71.4 (3.8)	73.4 (6.9)	61.8 (6.6)	60.0 (16)	74.7 (4.3)
TDC	98.0 (5.2)	101.9 (1.9)	96.1 (4.1)	95.9 (2.8)	95.3 (2.6)	99.2 (4.2)
TFN	99.5 (3.3)	94.4 (4.5)	96.6 (2.5)	96.9 (4.5)	92.7 (5.9)	96.4 (3.3)
ETH	97.4 (6.7)	87.6 (3.5)	98.6 (8.2)	89.1 (7.3)	91.0 (10)	87.2 (7.8)
MER	102.2 (7.8)	92.7 (7.5)	97.0 (3.6)	97.1 (7.4)	97.4 (9.8)	96.8 (5.5)