

Table S1. The derivative fluorescence Intensity (a.u.) of 300 ng/spot Phen at different distance between optical and root surface.

Mangrove plant	Distance (mm)					
	1	2	3	4	5	6
<i>Ko</i>	21824.4	24958.5	26531.4	29280.2	27325.5	10138.8
<i>Bg</i>	22145.8	26337.4	28551.9	28034.7	26338.9	8937.4
<i>Ac</i>	39133.2	42568.1	45431.8	44883.6	41198.5	13587.9

Table S2. Physicochemical properties of selected PAHs.

PAHs	MW (g/mol) ^a	Log K_{ow} ^b	S_w (mg/L) ^c	Vapor Pressure (Pa)
Phen	178.2	4.46	1.18	6.8×10^{-4}
Fla	202.3	5.20	0.26	$10^{-6} - 10^{-4}$

^a 'MW' represents molecular weight of PAHs; ^b ' K_{ow} ' represents the octanol-water partition coefficients; ^c ' S_w ' represents solubility of PAHs in water.

Table captions

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