



*Supplementary material*

# **Contamination, sources and health risks associated with soil PAHs in rebuilt land from a Coking Plant, Beijing, China**

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**Table S1.** Selective ions, Linear equations and Peak time of 16 PAHs.

<b>Compound</b>	<b>Selective Ions (m/z)</b>	<b>Standard Curve Equation</b>	<b>Linear Coefficient</b>	<b>Peak Time (min)</b>
Naphthalene (Nap)	102,128	$y = 0.0075x + 0.86$	0.9992	6.8–7.2
Acenaphthylene (Acy)	76,126,152	$y = 0.0068x - 4.12$	0.9972	12.4–12.8
Acenaphthene (Ace)	76,126,153	$y = 0.0046x - 3.66$	0.9964	13.2–13.6
Fluorene (Fl)	82,139,166	$y = 0.0041x - 3.72$	0.9982	15.8–16.2
Phenaathrene (Phe)	89,152,178	$y = 0.0084x - 0.97$	0.9987	20.6–21.0
Anthracene (Ant)	89,152,178	$y = 0.0083x + 1.39$	0.9921	21.0–21.2
Fluoranthene (Flu)	101,174,202	$y = 0.0064x - 0.23$	0.9906	27.2–27.8
Pyrene (Pyr)	101,174,202	$y = 0.0088x - 1.84$	0.9924	28.4–29.0
Benzop[a]anthracene (BaA)	114,200,228	$y = 0.0032x - 2.48$	0.9997	35.4–35.9
Chrysene (Chr)	113,200,228	$y = 0.0072x - 2.75$	0.9966	35.9–36.2
Ben[b]fluoranthene (BbF)	126,224,252	$y = 0.0056x - 0.25$	0.9917	41.4–41.7
Ben[k]fluoranthene (BkF)	126,224,252	$y = 0.0067x - 0.34$	0.9905	41.7–42.0
Benzo[a]pyrene (BaP)	126,224,252	$y = 0.0059x - 0.25$	0.9993	42.8–43.4
Indeno[1,2,3-cd]pyrene (InP)	138,276	$y = 0.0045x - 0.21$	0.9967	48.0–48.3
Dibenzo[a,h]anthracene (DBA)	139,278	$y = 0.0025x - 0.06$	0.9951	48.3–48.8
Benzo[g,h,i]perylene (BP)	138,276	$y = 0.0042x - 0.19$	0.9946	49.0–49.6