Electronic Supplementary Material (ESI) for Environmental Science: Processes & Impacts.
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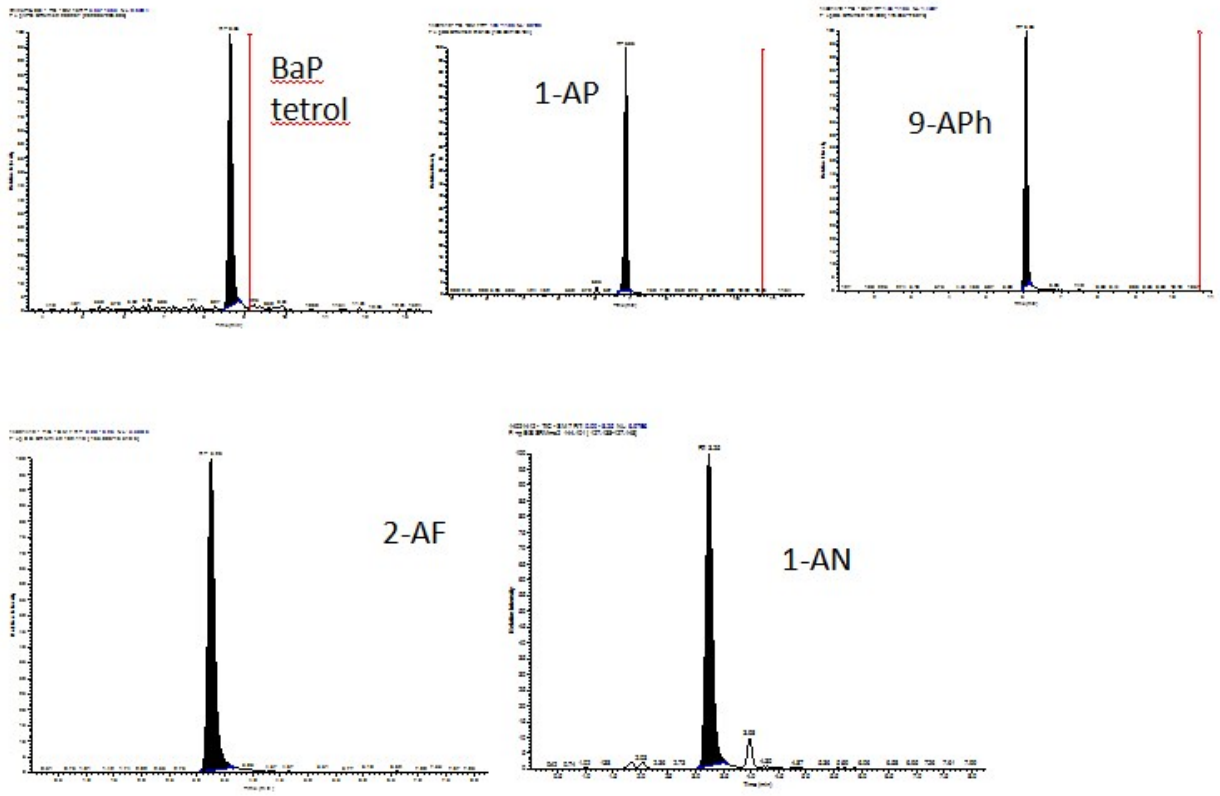
Supplemental Table 1. Analyte fragment ions Transitions Monitored for Quantitation and the collision energy optimized for each analyte.

Analytes	Parent Mass (Q1)	Product Mass (Q3)	Collision E
1-AN	144.101	127.143	22
1-AN-d7	151.094	131.131	24
2-AF	182.110	163.101	25
9-Aph	194.090	176.070	33
1-AP	218.105	189.099	48
BaP tetrol	280.267	263.000	32

Supplemental Table 2: Method Statistics for HPLC-MS-MS method

	1-Aminonaphthalene	**2-Aminofluorene**	**9-Aminophenanthrene**	**1-Aminopyrene**	**BaP-tetrol**
Recovery %	85.5	49.5	70.8	71.4	68.8
LOD (pmol/g Hb)	0.087	0.069	0.065	0.115	0.312



Supplemental Figure 1. Typical HPLC-MS/MS extracted ion chromatograms for a red blood sample. , 1-AP = 1-aminopyrene, 9-APh = 9-aminophenanthrene, 2-AF = 2-aminofluorene, 1-AN = 1-aminonaphathrene