

Supplementary material of the manuscript “**Chemical characteristics and causes of airborne particulate pollution in warm seasons in Wuhan, central China**”

Table S1 Speciation of SVOCs and the corresponding precursors

Precursors	Oxidation products
Benzene	BZBIPEROOH, BZEMUCOOH, NPHENOOH
Toluene	C6H5CH2OOH, CRESOOH, NCRESOOH, TLBIPEROOH, TLEMUCOOH, C615CO2OOH
<i>m</i> -Xylene	MXYL00H, MXYBPEROOH; MXYMUCOOH
<i>o</i> -Xylene	OXYL00H, OXYBPEROOH; OXYMUCOOH
<i>p</i> -Xylene	PXYL00H, PXYBPEROOH; PXYMUCOOH
Ethylbenzene	C6H5C2OOH, C6H5C2OOH, EBENZOLOOH, NEBNZOLOOH, EBZBPEROOH, EBZMUCOOH
1,3,5-Trimethylbenzene	TMBOOH, TM135BPOOH, NTM135LOOH, TM135OLOOH, TM135MUOOH
1,2,3-Trimethylbenzene	TM123BOOH, TM123BPOOH, NTM123LOOH, TM123OLOOH, TM123MUOOH
1,2,4-Trimethylbenzene	TM124BOOH, TM124BPOOH, NTM124LOOH, TM124OLOOH, TM124MUOOH
Isoprene	NISOP00H, ISOPAOOH, ISOPBOOH, ISOPCOOH, ISOPDOOH
2-Methyl Pentane	M2PEAOOH, M2PEBOOH, M2PECOOH, M2PEDOOH
3-Methyl Pentane	M3PEAOOH, M3PEBOOH, M3PECOOH
<i>n</i> -Hexane	HEXAOOH, HEXBOOH, HEXCOOH
<i>n</i> -Heptane	HEPTOOH
<i>n</i> -Octane	OCTOOH
<i>n</i> -Nonane	NONOOH
<i>n</i> -Decane	DECOOH
<i>n</i> -Undecane	UDECOOH

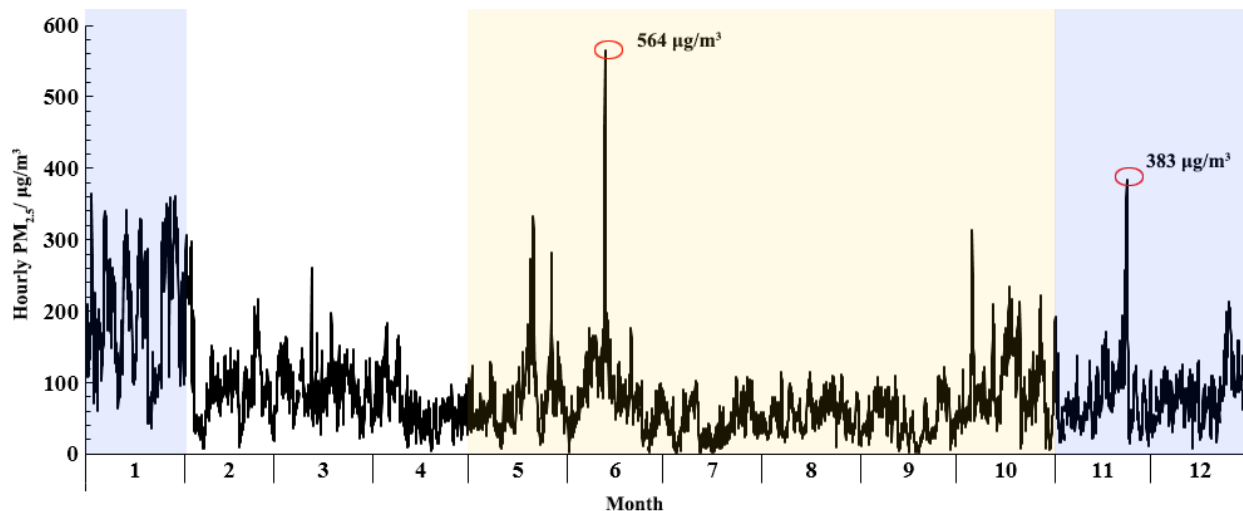


Figure S1 Hourly PM<sub>2.5</sub> in Wuhan in 2014. The yellow and blue highlighted areas represent the warm seasons and winter, respectively.

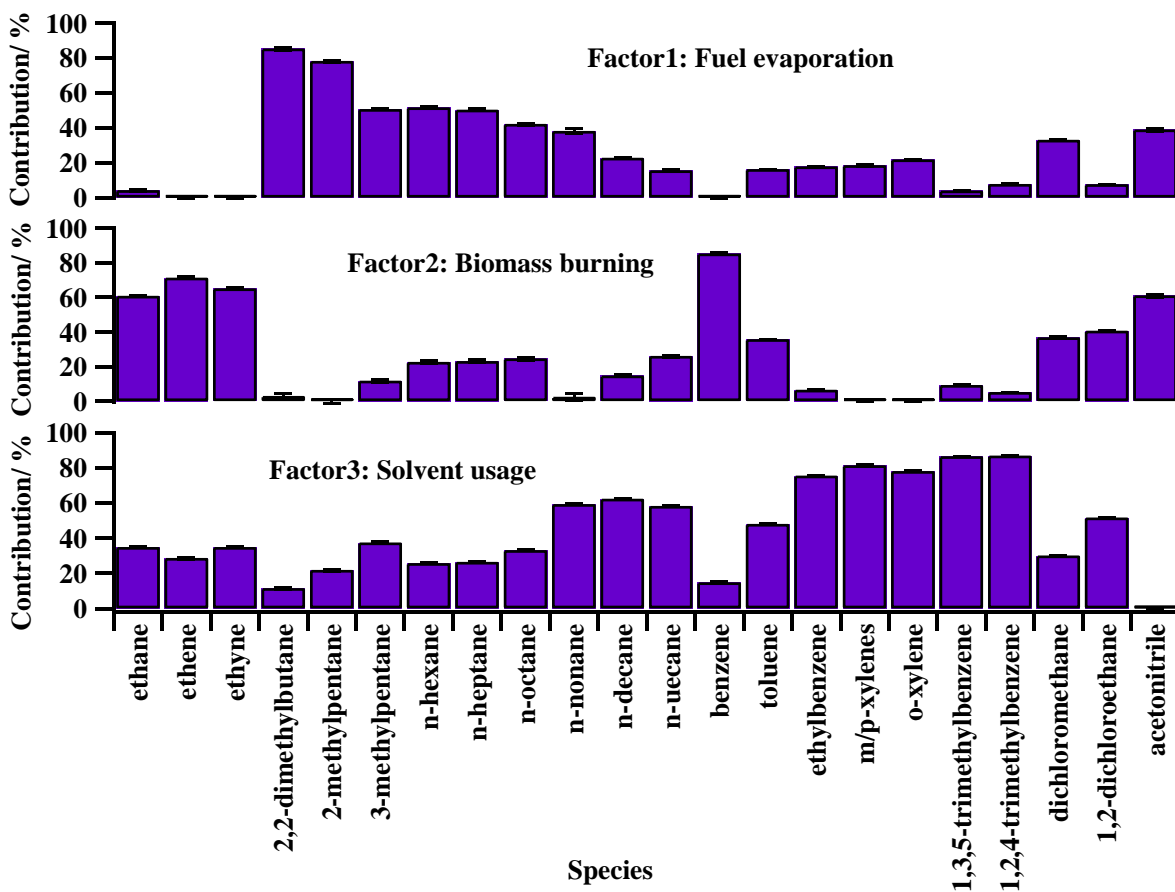


Figure S2 Source profiles of VOCs during PM<sub>2.5</sub> episodes in autumn