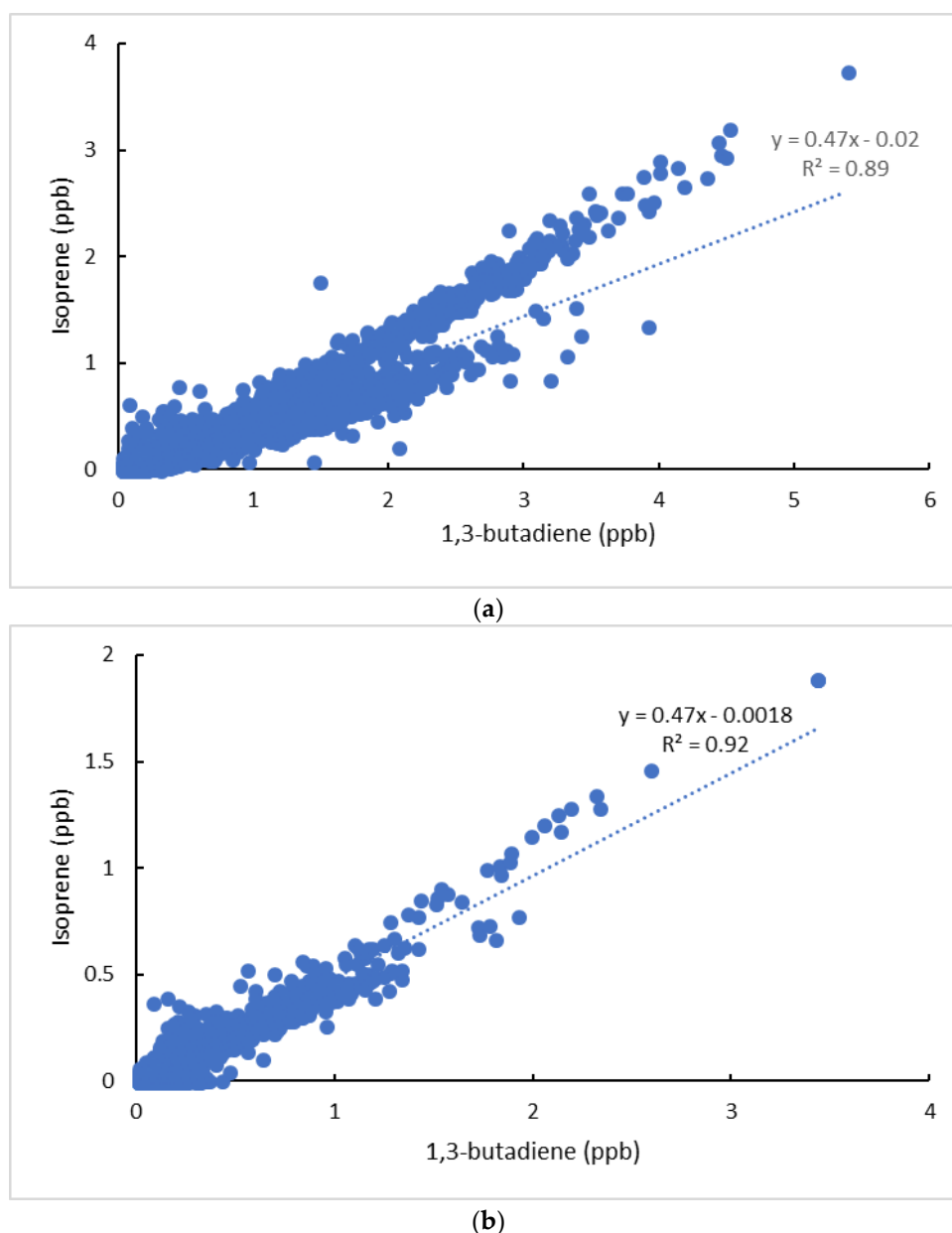


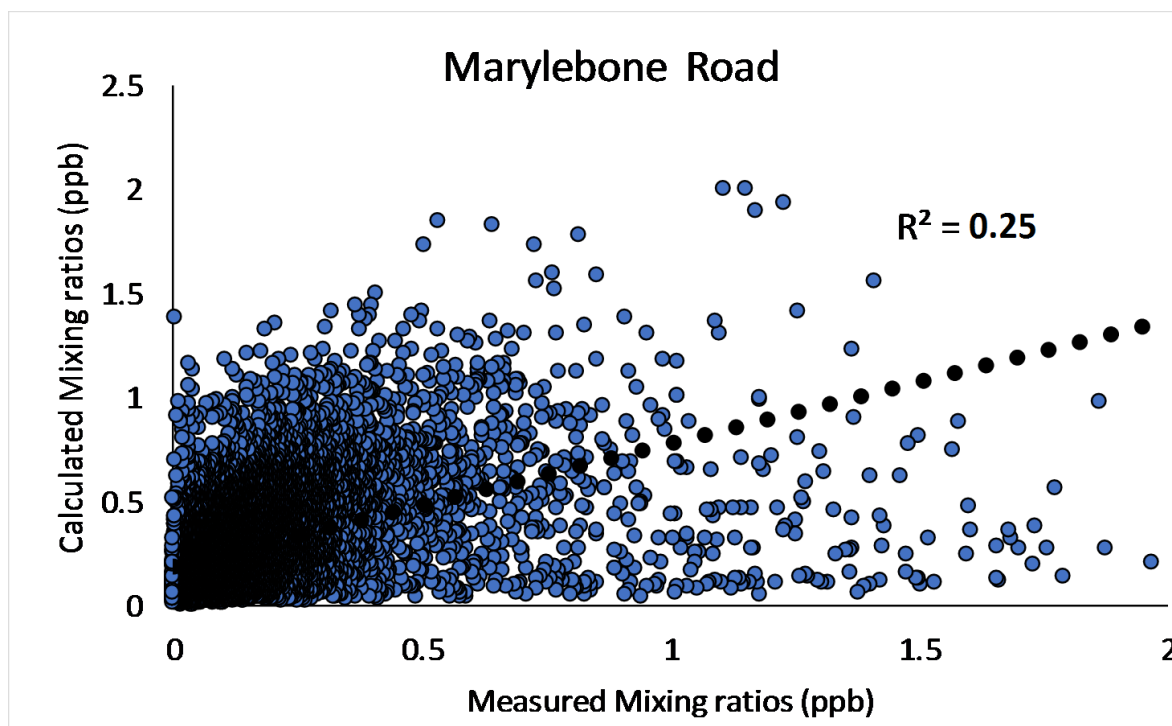
Supplementary Material:

## A Two-Decade Anthropogenic and Biogenic Isoprene Emissions Study in a London Urban Background and a London Urban Traffic Site

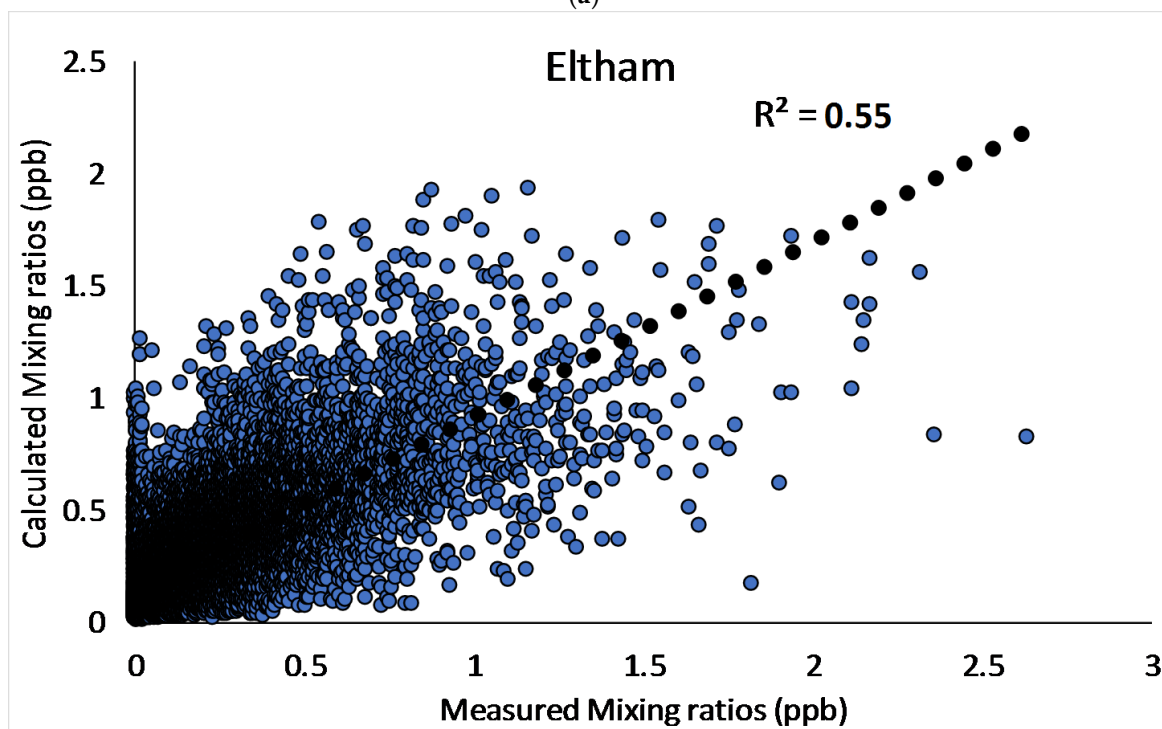
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**Figure S1.** The correlation plots between isoprene and 1,3-butadiene during winter months of the time period 1997–2017, (a) Marylebone Road, (b) Eltham.



(a)



(b)

**Figure S2.** The relationship between calculated and measured biogenic isoprene mixing ratios (a) Marylebone Road, (b) Eltham.

**Table S1.** Cobb-Douglas model analysis results for a series of heatwave periods.

<b>Time Series</b>	<b>lnA</b>	<b><math>\alpha</math></b>	<b><math>\beta</math></b>	<b><math>\Upsilon</math></b>	<b><math>r^2</math></b>
18–24 June 2005 (Eltham)	-1.12 (p = 0.01)	1.88 (p < 0.0001)	0.21 (p < 0.0001)	0.03 (p = 0.04)	0.75
13–17 July 2005 (Eltham)	-3.53 (p = 0.001)	2.43 (p < 0.0001)	0.23 (p < 0.0001)	0.06 (p = 0.05)	0.80
8–12 June 2006 (Eltham)	-4.71 (p < 0.0001)	2.12 (p < 0.0001)	0.10 (p = 0.002)	0.05 (p = 0.01)	0.78
30 June–4 July 2006 (Eltham)	-2.2 (p < 0.0001)	1.91 (p < 0.0001)	0.21 (p < 0.0001)	0.06 (p = 0.01)	0.92
16–21 July 2006 (Eltham)	-1.63 (p = 0.0006)	1.54 (p < 0.0001)	0.31 (p < 0.0001)	0.06 (p = 0.03)	0.89
24–25 July 2012 (Eltham)	-1.5 (p = 0.001)	1.37 (p < 0.0001)	0.33 (p = 0.0006)	0.05 (p = 0.01)	0.84
13–23 July 2013 (Eltham)	-5.5 (p < 0.0001)	3.26 (p < 0.0001)	0.24 (p < 0.0001)	0.05 (p = 0.04)	0.86
6–12 August 2003 (Marylebone Road)	-4.9 (p < 0.0001)	2.82 (p < 0.0001)	0.27 (p < 0.0001)	0.11 (p = 0.01)	0.82