

**Table S1.** VOC concentrations in the patients' exhaled breath and in the empty ventilator.

Compound	VOC concentrations in ppb : mean and IQR		<i>p</i> -value <sup>1</sup>
	Empty ventilator (n = 16)	Breath (n = 20)	
Isoprene	0.59 (0.57 – 0.64)	167 (123 – 271)	< 0.001
Acetone	9.8 (7.5 – 11.5)	2,242 (1,357 – 3,854)	< 0.001
Propanal	3.9 (3.0 – 4.9)	47 (33 – 67)	< 0.001
Butanal	2.8 (1.9 – 3.7)	22 (16 – 32)	< 0.001
Pentanal	1.5 (1.2 – 2.5)	21 (17 – 28)	< 0.001
Hexanal	1.7 (1.3 – 2.2)	9.5 (6.5 – 14.5)	< 0.001
Heptanal	0.9 (0.8 – 1.4)	5.3 (3.6 – 7.3)	< 0.001
Octanal	2.0 (1.6 – 2.5)	4.3 (2.8 – 6.4)	< 0.001
Nonanal	1.4 (1.2 – 1.8)	2.4 (1.8 – 3.7)	0.001
Decanal	1.3 (1.2 – 1.5)	2.6 (1.8 – 3.9)	< 0.001
Acetic acid	8.4 (7.1 – 13.9)	18 (12 – 32)	0.005
Propanoic acid	1.5 (1.1 – 1.8)	3.3 (2.8 – 8.4)	< 0.001
Butanoic acid	1.5 (1.2 – 2.8)	2.7 (2.5 – 4.0)	0.012
Pentanoic acid	0.7 (0.6 – 1.2)	1.2 (1.1 – 1.3)	0.031
Hexanoic acid	0.8 (0.7 – 1.2)	1.3 (1.1 – 2.0)	< 0.001
Phenol	0.8 (0.7 – 1.2)	1.3 (1.1 – 2.0)	0.006
Mann	1.1 (1.0 – 1.3)	1.6 (1.4 – 1.8)	< 0.001
Ethyl-phenol	0.6 (0.5 – 0.7)	0.9 (0.8 – 1.1)	0.002
Propofol	0.30 (0.27 – 0.45)	9.3 (5.8 – 16.7)	< 0.001

<sup>1</sup> Based on Mann – Whitney test for pairwise comparison