

Supplemental Table S1: The chemical composition of UFP1 and UFP2 in total PM mass

	UFP1 (Idle)		UFP2 (UDDS)	
	Value	Uncertainty	Value	Uncertainty
<i>WSOC and inorganic ions</i>	mg/g of total PM mass		mg/g of total PM mass	
WSOC	43.4	0.3	51.5	0.2
Nitrates	10.1	0.6	0.7	0.2
Sulfates	1.4	0.9	1.3	0.5
Ammonium	1.6	0.4	0.2	0.1
<i>PAHs and hopanes</i>	µg/g of total PM mass		µg/g of total PM mass	
Phenanthrene	33.14	6.80	15.10	3.17
Pyrene	35.42	7.12	70.30	14.07
Benzo(GHI)fluoranthene	3.14	0.67	29.74	5.95
Cyclopenta(cd)pyrene	6.83	1.68	26.00	5.24
Benzo(a)anthracene	4.03	1.26	22.37	4.52
Chrysene	4.63	1.05	28.58	5.72
Benzo(b)fluoranthene	1.66	1.03	19.42	3.94
Benzo(k)fluoranthene	2.76	0.60	11.70	2.35
Benzo(e)pyrene	3.25	0.98	24.31	4.89
Benzo(a)pyrene	3.95	0.93	17.11	3.44
Indeno(1,2,3-cd)pyrene	1.63	0.58	4.34	0.93
Benzo(GHI)perylene	2.20	0.74	18.28	3.67
17B(H)-21A(H)-30-Norhopane	12.49	2.50	20.68	4.14
17A(H)-21B(H)-Hopane	9.28	1.87	7.62	1.53
<i>Metals and trace elements</i>	ng/g of total PM mass		ng/g of total PM mass	
Na	49648.0	1320.2	40325.3	2626.9
Mg	10566.1	595.7	13533.8	664.9
Al	1613.6	70.8	353.5	383.2
P	574452.4	2824.0	258247.4	3681.9
S	211640.4	2169.3	326607.0	3751.0
K	23582.8	204.6	17607.8	749.6
Ca	233281.8	3024.3	987416.5	9763.1
Fe	474.2	948.2	2976.1	2107.1
V	76.1	11.0	30.4	9.5
Cr	124.4	14.7	307.3	39.9
Mn	1008.9	36.9	451.6	57.4
Co	13.4	1.3	18.2	4.9
Ni	537.9	54.7	2182.0	78.5
Cu	71.9	17.2	13.6	31.7
Zn	558221.3	12684.6	280343.4	3514.2
As	111.4	23.9	31.3	31.4
Zr	191.3	21.1	281.7	5.9
Nb	1.3	0.5	20.9	3.1
Mo	139.1	33.2	718.1	77.5
Pd	15.3	1.8	7.9	3.0
Ag	22.6	4.9	69.1	6.8
Cd	53.8	7.5	3.1	2.0
Cs	137.8	5.5	0.5	0.1
Ba	747.9	36.1	752.6	64.4
La	3.2	0.1	2.5	0.4
Ce	3.9	0.7	2.7	0.9
Nd	1.5	1.0	0.8	0.9
Pt	1.3	1.1	2.1	2.4
Pb	786.1	21.1	22.5	6.0