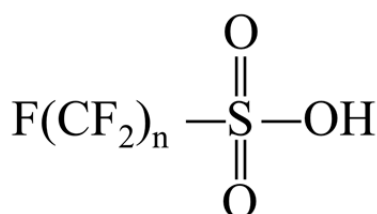
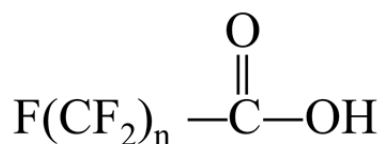


# Supporting Information

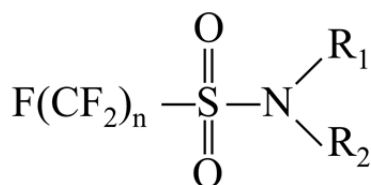
Information of targets and their abbreviations are as follows. The sodium salts of perfluorohexanesulfonate (PFHxS), perfluoroheptanesulfonate (PFHpS), perfluorooctanesulfonate (PFOS), perfluorodecanesulfonate (PFDS), perfluorooctanesulfinate (PFOSi), and perfluorooctanesulfonamide (PFOSA), perfluorooctanoic acid (PFOA), perfluorononanoic acid (PFNA) were purchased from Wellington Laboratories Inc. (Guelph, ON, Canada). Perfluoroethyl sulfonate (PFEtS) and perfluoropropyl sulfonate (PFPrS) was donated by JEMCO Inc. (Akita, Japan). Perfluorobutane sulfonate (PFBS) was from Chiron AS (Trondheim, Norway). *N*-ethyl perfluorooctane sulfonamide (*N*-EtFOSA), *N*-ethyl perfluorooctanesulfonamido acetate (*N*-EtFOSAA) were donated by the 3M Company (St. Paul, MN). Perfluorobutyric acid (PFBA) was supplied by Avocado Research Chemicals, Ltd. (Lancashire, UK). Perfluorohexanoic acid (PFHxA) was from Wako Pure Chemical Industries (Osaka, Japan). Perfluoropentanoic acid (PFPeA), perfluoroheptanoic acid (PFHpA), PFDA, perfluoroundecanoic acid (PFUnDA) and perfluorododecanoic acid (PFDoDA) were supplied by Fluorochem Ltd. (Derbyshire, UK). Perfluorotetradecanoic acid (PFTeDA), perfluorohexadecanoic acid (PFHxDA) and perfluorooctadecanoic acid (PFOcDA) were supplied by SynQuest Lab Inc. (Alachua, FL). Perfluoropropionic acid (PFPrA) was purchased from Daikin Industries Ltd (Osaka, Japan).



**PFSAs:** Perfluoroalkane sulfonic acids  
e.g. PFOS (n=8), PFHxS (n=6)



**PFCAs:** Perfluoroalkyl carboxylic acids  
e.g. PFOA (n=8), PFHxA (n=6)



**FOSA:** Perfluoroalkyl sulfonamides

Figure 1 chemical structure of four groups target PFASs

**Table S1. Limit of quantification (LOQ) of each meeting room samples ( $\mu\text{g m}^{-3}$ )**

	MR1	MR2	MR3	MR4	MR5	MR6	MR7	MR8	MR9	MR10	MAX	MIN
PFBS(C4)	0.10	0.06	0.02	0.02	0.02	0.02	0.01	0.01	0.06	0.06	<b>0.10</b>	<b>0.01</b>
PFHxS(C6)	0.10	0.06	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	<b>0.10</b>	<b>0.01</b>
PFOS(C8)	0.10	0.06	0.09	0.09	0.10	0.10	0.07	0.07	0.01	0.01	<b>0.10</b>	<b>0.01</b>
PFDS(C10)	0.10	0.06	0.09	0.09	0.10	0.10	0.07	0.07	0.01	0.01	<b>0.10</b>	<b>0.01</b>
FOSA	0.10	0.06	0.02	0.02	0.02	0.02	0.01	0.01	0.06	0.06	<b>0.10</b>	<b>0.01</b>
N-EtFOSA	0.10	0.06	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	<b>0.10</b>	<b>0.01</b>
N-EtFOSAA	0.10	0.06	0.09	0.09	0.10	0.10	0.07	0.07	0.01	0.01	<b>0.10</b>	<b>0.01</b>
PFBA(C4)	0.48	0.32	0.02	0.02	0.02	0.02	0.01	0.01	0.32	0.32	<b>0.48</b>	<b>0.01</b>
PFPeA(C5)	0.48	0.32	0.02	0.02	0.02	0.02	0.01	0.01	0.06	0.06	<b>0.48</b>	<b>0.01</b>
PFHxA(C6)	0.10	0.06	0.09	0.09	0.10	0.10	0.07	0.07	0.01	0.01	<b>0.10</b>	<b>0.01</b>
PFHpA(C7)	0.10	0.06	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	<b>0.10</b>	<b>0.01</b>
PFOA(C8)	0.02	0.01	0.09	0.09	0.10	0.10	0.07	0.07	0.01	0.01	<b>0.10</b>	<b>0.01</b>
PFNA(C9)	0.10	0.06	0.09	0.09	0.10	0.10	0.07	0.07	0.01	0.01	<b>0.10</b>	<b>0.01</b>
PFDA(C10)	0.02	0.01	0.09	0.09	0.10	0.10	0.07	0.07	0.06	0.06	<b>0.10</b>	<b>0.01</b>
PFUnDA(C11)	0.10	0.06	0.09	0.09	0.10	0.10	0.07	0.07	0.06	0.06	<b>0.10</b>	<b>0.06</b>
PFDoDA(C12)	0.02	0.01	0.09	0.09	0.10	0.10	0.07	0.07	0.01	0.01	<b>0.10</b>	<b>0.01</b>
PFTTrDA(C13)	0.02	0.01	0.09	0.09	0.10	0.10	0.07	0.07	0.01	0.01	<b>0.10</b>	<b>0.01</b>
PFTeDA(C14)	0.10	0.06	0.09	0.09	0.10	0.10	0.07	0.07	0.01	0.01	<b>0.10</b>	<b>0.01</b>
PFHxDA(C16)	0.10	0.06	0.09	0.09	0.10	0.10	0.07	0.07	0.01	0.01	<b>0.10</b>	<b>0.01</b>
PFOcDA(C18)	0.10	0.06	0.09	0.09	0.10	0.10	0.07	0.07	0.01	0.01	<b>0.10</b>	<b>0.01</b>

**Table S2. Limit of quantification (LOQ) of each roadside samples ( $\mu\text{g m}^{-3}$ )**

	RS1	RS2	RS3	RS4	RS5	RS6	RS7	RS8	RS9	RS10	<b>Max</b>	<b>Min</b>
PFBS(C4)	0.04	0.03	0.03	0.03	0.03	0.03	0.16	0.17	0.09	0.09	<b>0.17</b>	<b>0.03</b>
PFHxS(C6)	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	<b>0.04</b>	<b>0.02</b>
PFOS(C8)	0.18	0.17	0.16	0.15	0.15	0.15	0.03	0.03	0.02	0.02	<b>0.18</b>	<b>0.02</b>
PFDS(C10)	0.18	0.17	0.16	0.15	0.15	0.15	0.03	0.03	0.02	0.02	<b>0.18</b>	<b>0.02</b>
FOSA	0.04	0.03	0.03	0.03	0.03	0.03	0.16	0.17	0.09	0.09	<b>0.17</b>	<b>0.03</b>
N-EtFOSA	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	<b>0.04</b>	<b>0.02</b>
N-EtFOSAA	0.18	0.17	0.16	0.15	0.15	0.15	0.03	0.03	0.02	0.02	<b>0.18</b>	<b>0.02</b>
PFBA(C4)	0.03	0.03	0.03	0.03	0.03	0.03	0.81	0.84	0.46	0.46	<b>0.84</b>	<b>0.03</b>
PFPeA(C5)	0.03	0.03	0.03	0.03	0.03	0.03	0.16	0.17	0.09	0.09	<b>0.17</b>	<b>0.03</b>
PFHxA(C6)	0.18	0.17	0.16	0.15	0.15	0.15	0.03	0.03	0.02	0.02	<b>0.18</b>	<b>0.02</b>
PFHpA(C7)	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	<b>0.04</b>	<b>0.02</b>
PFOA(C8)	0.18	0.17	0.16	0.15	0.15	0.15	0.03	0.03	0.02	0.02	<b>0.18</b>	<b>0.02</b>
PFNA(C9)	0.18	0.17	0.16	0.15	0.15	0.15	0.03	0.03	0.02	0.02	<b>0.18</b>	<b>0.02</b>
PFDA(C10)	0.18	0.17	0.16	0.15	0.15	0.15	0.16	0.17	0.09	0.09	<b>0.18</b>	<b>0.09</b>
PFUnDA(C11)	0.18	0.17	0.16	0.15	0.15	0.15	0.16	0.17	0.09	0.09	<b>0.18</b>	<b>0.09</b>
PFDoDA(C12)	0.18	0.17	0.16	0.15	0.15	0.15	0.03	0.03	0.02	0.02	<b>0.18</b>	<b>0.02</b>
PFTTrDA(C13)	0.18	0.17	0.16	0.15	0.15	0.15	0.03	0.03	0.02	0.02	<b>0.18</b>	<b>0.02</b>
PFTeDA(C14)	0.18	0.17	0.16	0.15	0.15	0.15	0.03	0.03	0.02	0.02	<b>0.18</b>	<b>0.02</b>
PFHxDA(C16)	0.18	0.17	0.16	0.15	0.15	0.15	0.03	0.03	0.02	0.02	<b>0.18</b>	<b>0.02</b>
PFOcDA(C18)	0.18	0.17	0.16	0.15	0.15	0.15	0.03	0.03	0.02	0.02	<b>0.18</b>	<b>0.02</b>

**Table S3. Concentration of PFASs ( $\mu\text{g m}^{-3}$ ) in air samples with total particles collected from meeting room and roadside environment. Average value and standard deviation were calculated using meeting room samples and roadside samples separately.**

Sample ID	PFBS	PFHxS	PFOS	PFDS	FOSA	N-EtFOSA	N-EtFOSAA	PFBA	PFPeA	PFHxA	PFHpA	PFOA	PFNA	PFDA	PFUnDA	PFDoDA	PFTTrDA	PFTeDA	PFHxDA	PFOcDA
MR1	0.0	0.1	0.3	0.2	7.5	4.0	7.8	0.0	0.0	1.5	0.5	1.5	4.4	0.1	1.1	0.2	0.3	0.0	0.0	0.0
MR2	0.0	0.2	0.7	0.0	4.5	2.7	4.9	0.7	0.4	1.4	0.5	1.4	2.8	0.2	0.7	0.3	0.4	0.1	0.0	0.0
MR3	0.0	0.2	0.7	0.0	6.1	2.9	4.1	0.6	0.8	1.8	0.4	2.3	3.4	0.4	0.6	0.0	0.0	0.1	0.0	0.0
MR4	0.0	0.2	0.8	0.0	6.0	2.8	3.9	1.2	0.9	1.8	0.5	2.1	3.6	0.5	0.7	0.0	0.0	0.1	0.0	0.0
MR5	0.0	0.1	0.9	0.0	7.3	3.8	3.7	0.8	0.4	2.5	0.5	1.8	2.9	0.4	0.8	0.0	0.0	0.0	0.0	0.0
MR6	0.0	0.1	0.9	0.0	6.4	3.8	3.2	0.0	0.8	2.8	0.5	1.9	2.9	0.6	0.5	0.0	0.0	0.0	0.0	0.0
MR7	0.0	0.5	0.8	0.0	6.8	3.0	6.6	2.0	2.2	3.8	1.8	2.6	5.8	0.8	1.3	0.6	0.4	0.4	0.1	0.1
MR8	0.0	0.5	0.8	0.0	6.6	2.9	7.5	1.5	2.2	4.2	2.2	3.2	8.7	0.9	1.3	0.5	0.6	0.3	0.2	0.3
MR9	0.0	0.2	0.6	0.1	3.7	1.9	2.9	0.0	1.5	3.3	1.3	1.7	3.5	0.8	1.2	0.7	0.7	0.7	0.5	0.4
MR10	0.0	0.1	0.7	0.1	3.7	1.8	2.6	0.0	1.2	3.1	1.1	1.6	3.1	0.8	1.1	0.6	0.7	0.0	0.5	0.3
Ave	0.0	0.2	0.7	0.0	5.9	3.0	4.7	0.7	1.0	2.6	0.9	2.0	4.1	0.5	0.9	0.3	0.3	0.2	0.1	0.1
SD	0.0	0.1	0.2	0.1	1.4	0.8	1.9	0.7	0.8	1.0	0.6	0.5	1.8	0.3	0.3	0.3	0.3	0.2	0.2	0.2
RS1	n.d.	n.d.	0.6	n.d.	1.5	0.4	1.1	0.9	0.6	8.6	4.7	2.7	2.0	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
RS2	n.d.	n.d.	0.6	n.d.	0.9	0.3	1.7	1.4	1.1	9.0	4.7	3.0	3.2	0.3	0.2	n.d.	n.d.	n.d.	n.d.	n.d.
RS3	n.d.	n.d.	0.2	n.d.	0.8	0.3	1.3	6.3	4.2	7.1	7.1	5.1	3.4	0.7	0.4	0.0	n.d.	n.d.	n.d.	n.d.
RS4	n.d.	n.d.	0.2	n.d.	0.7	0.3	1.8	3.9	3.6	7.6	7.8	5.4	4.1	1.0	0.4	0.3	n.d.	n.d.	n.d.	n.d.
RS6	n.d.	1.1	0.4	n.d.	0.6	0.2	2.9	n.d.	1.1	3.6	1.9	3.3	5.8	0.6	0.6	0.2	0.2	n.d.	n.d.	n.d.
RS7	n.d.	0.1	0.1	n.d.	n.d.	0.6	0.1	n.d.	1.1	15.2	1.9	1.3	1.3	n.d.	n.d.	0.1	0.2	n.d.	0.0	0.1
RS8	n.d.	0.1	0.1	n.d.	n.d.	0.6	0.1	n.d.	0.7	14.1	2.1	1.2	1.2	n.d.	n.d.	0.1	0.1	0.1	0.1	0.1
RS9	n.d.	n.d.	n.d.	n.d.	0.1	0.2	n.d.	n.d.	1.6	2.8	3.3	2.2	1.7	0.3	0.6	0.4	0.4	0.3	0.1	0.0
RS10	n.d.	n.d.	n.d.	n.d.	0.2	0.2	n.d.	n.d.	1.1	1.8	2.0	1.7	1.0	0.1	0.1	0.3	0.3	n.d.	0.1	0.1
Ave	0.0	0.1	0.2	0.0	0.5	0.3	0.9	1.2	1.5	7.0	3.6	2.6	2.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0
SD	-	2.6	1.1	-	1.1	0.6	1.1	1.7	0.9	0.7	0.7	0.7	0.7	1.2	1.1	1.0	1.3	2.5	1.4	1.3

n.d.: <LOQ

- : invalid value

**Table S4. Particle concentration ( $\mu\text{g m}^{-3}$ ) of air samples collected from meeting room and roadside samples. Average value and relative standard deviation were calculated using meeting room samples and roadside samples separately.**

$\mu\text{g/m}^3$	<0.5	0.5-1	1-2.5	2.5-10	>10	TSP	PM <sub>10</sub>	PM <sub>2.5</sub>
MR3	7.6	7.3	7.3	6.5	6.5	0.0	0.0	0.0
MR4	7.5	6.4	6.0	7.5	5.9	0.0	0.0	0.0
MR5	9.7	9.0	8.1	7.3	7.6	35.1	28.6	22.1
MR6	7.7	6.5	6.0	5.1	4.6	33.3	27.5	19.9
MR7	2.0	5.3	4.3	4.3	3.9	41.6	34.0	26.7
MR8	3.2	3.9	2.5	2.4	1.6	29.9	25.3	20.2
MR9	5.6	4.4	4.0	3.2	2.9	19.8	15.9	11.6
MR10	5.1	4.5	4.3	3.3	2.8	13.7	12.0	9.6
Ave	6.1	5.9	5.3	5.0	4.5	21.7	17.9	13.8
RSD	42%	29%	35%	40%	46%	74%	73%	74%
RS1	8.6	5.1	8.8	13.3	8.3	44.2	35.9	22.5
RS2	9.9	7.7	7.9	14.3	3.6	43.4	39.8	25.5
RS3	12.3	18.7	14.4	17.2	10.5	73.1	62.6	45.4
RS4	18.0	19.0	15.0	14.1	10.9	76.9	66.1	52.0
RS6	6.9	7.9	7.9	10.2	5.7	38.5	32.8	22.6
RS7	8.3	9.6	5.6	8.8	3.5	35.8	32.3	23.5
RS8	11.6	9.4	9.6	16.0	5.3	51.8	46.5	30.5
RS9	5.3	9.9	7.1	5.6	3.0	30.9	27.9	22.2
RS10	5.7	8.3	6.9	5.4	3.5	29.8	26.3	20.9
Ave	9.3	10.2	9.0	11.5	6.1	46.1	40.0	28.5
RSD	42%	47%	36%	36%	48%	36%	35%	39%

**Table S5. Selected PFASs concentration ( $\text{pg m}^{-3}$ ) of air samples collected from meeting room and roadside samples. Average value and relative standard deviation were calculated using meeting room samples and roadside samples separately.**

<b>FOSA</b>	<b>LOQ</b>	<b>&lt;0.5</b>	<b>0.5-1</b>	<b>1-2.5</b>	<b>2.5-10</b>	<b>&gt;10</b>
MR1	0.10	1.97	1.46	1.47	1.42	1.20
MR2	0.06	1.38	0.78	0.72	0.82	0.80
MR3	0.02	2.04	0.99	1.03	1.00	1.00
MR4	0.02	1.91	1.06	1.12	0.98	0.95
MR5	0.02	2.64	1.20	1.22	1.16	1.06
MR6	0.02	2.02	1.06	1.16	1.23	0.91
MR7	0.01	2.09	1.22	1.25	1.23	1.02
MR8	0.01	1.80	1.16	1.24	1.24	1.12
MR9	0.06	0.67	0.72	0.70	0.80	0.82
MR10	0.06	0.68	0.63	0.71	0.85	0.85
Ave	All	1.72	1.03	1.06	1.07	0.97
CV	n=10	37%	25%	25%	20%	14%
RS1	0.04	0.33	0.35	0.27	0.29	0.27
RS2	0.03	0.18	0.23	0.17	0.17	0.16
RS3	0.03	0.16	0.15	0.16	0.22	0.14
RS4	0.03	0.14	0.14	0.13	0.18	0.11
RS6	0.03	0.12	0.15	0.12	0.10	0.06
RS7	0.16	n.d.	n.d.	n.d.	n.d.	n.d.
RS8	0.17	n.d.	n.d.	n.d.	n.d.	n.d.
RS9	0.09	0.12	n.d.	n.d.	n.d.	n.d.
RS10	0.09	0.18	n.d.	n.d.	n.d.	n.d.
Ave	All	0.18	0.20	0.17	0.19	0.15
CV	n=9	40%	44%	35%	36%	52%

PFH <sub>x</sub> A	LOQ	<0.5	0.5-1	1-2.5	2.5-10	>10
MR1	0.10	0.47	0.28	n.d.	0.41	0.30
MR2	0.06	0.47	0.20	0.22	0.29	0.23
MR3	0.09	0.32	0.34	0.40	0.43	0.35
MR4	0.09	0.35	0.34	0.39	0.38	0.37
MR5	0.10	0.66	0.41	0.51	0.46	0.47
MR6	0.10	0.80	0.48	0.49	0.51	0.51
MR7	0.07	1.40	0.63	0.70	0.62	0.41
MR8	0.07	1.79	0.69	0.64	0.68	0.41
MR9	0.01	1.43	0.39	0.47	0.55	0.49
MR10	0.01	1.36	0.27	0.39	0.58	0.48
Ave	All	0.90	0.40	0.47	0.49	0.40
CV	n=10	60%	39%	30%	24%	23%
RS1	0.18	1.35	1.82	1.86	2.06	1.53
RS2	0.17	1.46	1.72	2.18	2.16	1.51
RS3	0.16	0.41	1.08	1.16	2.34	2.11
RS4	0.15	0.86	1.21	1.42	2.15	1.98
RS6	0.15	0.73	0.52	0.85	0.93	0.56
RS7	0.03	2.25	3.04	3.68	4.52	1.67
RS8	0.03	1.25	2.83	3.69	4.50	1.78
RS9	0.02	0.74	0.41	0.50	0.66	0.47
RS10	0.02	0.57	0.30	0.43	n.d.	0.51
Ave	All	1.07	1.44	1.75	2.42	1.35
CV	n=9	53%	70%	71%	59%	49%

PFH <sub>p</sub> A	LOQ	<0.5	0.5-1	1-2.5	2.5-10	>10
MR1	0.10	0.20	n.d.	0.13	0.15	n.d.
MR2	0.06	0.10	0.09	0.08	0.10	0.09
MR3	0.02	0.08	0.05	0.08	0.12	0.07
MR4	0.02	0.09	0.10	0.10	0.11	0.07
MR5	0.02	0.11	0.11	0.05	0.12	0.13
MR6	0.02	0.14	0.10	n.d.	0.11	0.11
MR7	0.01	0.78	0.23	0.26	0.24	0.24
MR8	0.01	1.09	0.30	0.29	0.26	0.25
MR9	0.01	0.45	0.16	0.22	0.24	0.23
MR10	0.01	0.00	0.11	0.26	0.23	0.20
Ave	All	0.34	0.14	0.16	0.17	0.16
CV	n=10	108%	57%	57%	39%	49%
RS1	0.04	0.37	0.41	0.52	2.77	0.59
RS2	0.03	0.39	0.42	0.58	2.59	0.68
RS3	0.03	1.25	1.22	1.43	1.66	1.59
RS4	0.03	0.91	1.62	2.00	1.63	1.63
RS6	0.03	0.66	0.15	0.37	0.46	0.28
RS7	0.03	0.63	0.40	0.32	0.32	0.26
RS8	0.03	0.57	0.46	0.40	0.34	0.29
RS9	0.02	1.07	0.41	0.57	0.79	0.49
RS10	0.02	0.62	0.28	0.46	0.17	0.49
Ave	All	0.72	0.60	0.74	1.19	0.70
CV	n=9	42%	81%	78%	84%	77%

PFOA	LOQ	<0.5	0.5-1	1-2.5	2.5-10	>10
MR1	0.02	0.52	0.14	0.30	0.33	0.25
MR2	0.01	0.42	0.21	0.24	0.32	0.18
MR3	0.09	0.31	0.37	0.76	0.39	0.42
MR4	0.09	0.32	0.33	0.54	0.45	0.47
MR5	0.10	0.55	0.23	0.27	0.44	0.35
MR6	0.10	0.58	0.28	0.25	0.45	0.36
MR7	0.07	0.75	0.36	0.50	0.65	0.33
MR8	0.07	1.04	0.47	0.59	0.68	0.37
MR9	0.01	0.46	0.20	0.31	0.39	0.34
MR10	0.01	0.31	0.15	0.34	0.42	0.35
Ave	All	0.53	0.27	0.41	0.45	0.34
CV	n=10	43%	39%	43%	27%	24%
RS1	0.18	0.58	0.47	0.45	0.81	0.44
RS2	0.17	0.63	0.63	0.49	0.82	0.43
RS3	0.16	0.84	0.59	0.98	1.53	1.20
RS4	0.15	0.81	0.71	1.22	1.42	1.29
RS6	0.15	1.19	0.61	0.48	0.68	0.36
RS7	0.03	0.31	0.28	0.25	0.27	0.18
RS8	0.03	0.24	0.28	0.23	0.22	0.20
RS9	0.02	0.64	0.39	0.44	0.44	0.32
RS10	0.02	0.50	0.27	0.35	0.21	0.32
Ave	All	0.64	0.47	0.54	0.71	0.53
CV	n=9	45%	37%	61%	70%	79%

PFNA	LOQ	<0.5	0.5-1	1-2.5	2.5-10	>10
MR1	0.10	0.71	0.59	1.12	1.24	0.72
MR2	0.06	0.61	0.31	0.58	0.87	0.40
MR3	0.09	0.42	0.52	1.20	0.67	0.61
MR4	0.09	0.45	0.51	1.15	0.85	0.65
MR5	0.10	0.42	0.37	0.74	0.83	0.55
MR6	0.10	0.60	0.42	0.66	0.72	0.53
MR7	0.07	0.81	0.56	1.77	1.64	1.05
MR8	0.07	2.52	1.28	1.92	1.80	1.14
MR9	0.01	0.76	0.39	0.67	0.99	0.68
MR10	0.01	0.48	0.31	0.67	1.00	0.67
Ave	All	0.78	0.52	1.05	1.06	0.70
CV	n=10	81%	54%	46%	36%	33%
RS1	0.18	0.52	0.31	0.46	0.46	0.27
RS2	0.17	1.06	0.64	0.57	0.62	0.34
RS3	0.16	0.68	0.34	0.84	1.15	0.40
RS4	0.15	0.78	0.32	1.02	1.32	0.61
RS6	0.15	1.89	1.09	0.76	1.14	0.95
RS7	0.03	0.45	0.33	0.20	0.22	0.11
RS8	0.03	0.30	0.28	0.23	0.21	0.13
RS9	0.02	0.66	0.27	0.31	0.28	0.15
RS10	0.02	0.39	0.19	0.24	n.d.	0.17
Ave	All	0.75	0.42	0.51	0.67	0.35
CV	n=9	65%	67%	59%	68%	80%



**Table S6. PFOA and PFNA concentration (ng g<sup>-1</sup>) of air samples collected from meeting room and roadside samples. Average value and relative standard deviation were calculated using meeting room samples and roadside samples separately.**

<b>PFOA</b>	<b>&lt;0.5</b>	<b>0.5-1</b>	<b>1-2.5</b>	<b>2.5-10</b>	<b>&gt;10</b>
MR3	40.9	51.2	104.3	60.4	64.6
MR4	45.9	51.4	88.8	59.9	80.8
MR5	55.0	24.9	32.5	59.0	45.4
MR6	97.9	44.4	43.7	92.3	81.3
MR7	352.5	64.7	110.1	145.0	79.2
MR8	340.8	128.3	243.8	300.5	239.9
MR9	81.0	46.5	78.5	119.8	118.8
MR10	61.1	33.1	78.8	126.4	122.5
Ave	134.4	55.6	97.6	120.4	104.0
CV	1.0	0.6	0.7	0.7	0.6
RS1	67.2	92.3	50.9	60.6	52.9
RS2	54.3	66.6	51.2	51.2	81.3
RS3	62.9	29.5	63.0	82.9	106.2
RS4	45.2	37.4	81.2	100.9	118.3
RS5	0.0	0.0	0.0	0.0	0.0
RS6	173.0	77.2	60.9	65.7	63.1
RS7	36.9	29.5	44.3	30.8	52.6
RS8	32.7	31.5	41.9	31.3	57.2
RS9	121.1	39.3	62.6	78.8	105.1
RS10	87.8	32.5	51.0	38.6	94.1
Ave	68.1	43.6	50.7	54.1	73.1
CV	0.7	0.6	0.4	0.6	0.5

<b>PFNA</b>	<b>&lt;0.5</b>	<b>0.5-1</b>	<b>1-2.5</b>	<b>2.5-10</b>	<b>&gt;10</b>
MR3	55.4	71.1	165.5	103.2	93.3
MR4	63.4	80.0	190.8	113.2	110.0
MR5	42.4	39.6	89.2	110.4	71.8
MR6	100.8	66.6	113.9	148.2	119.2
MR7	384.8	101.3	390.9	364.2	253.2
MR8	821.8	345.9	799.9	792.9	743.9
MR9	135.5	88.8	169.0	306.4	234.0
MR10	93.4	69.0	156.6	301.3	237.0
Ave	212.2	107.8	259.5	280.0	232.8
CV	1.3	0.9	0.9	0.8	0.9
RS1	60.2	60.7	52.5	34.7	32.6
RS2	91.6	68.4	59.7	38.5	64.4
RS3	51.0	17.0	54.4	62.2	35.1
RS4	43.4	16.9	68.0	93.5	56.5
RS6	275.6	137.8	96.9	109.5	167.1
RS7	54.1	34.9	35.4	25.1	31.6
RS8	40.6	32.2	40.4	30.5	35.1
RS9	124.7	27.3	43.6	49.2	49.1
RS10	67.7	22.3	35.7	n.d.	49.7
Ave	81.0	41.8	48.7	49.4	52.2
CV	0.9	0.9	0.5	0.7	0.8