

IMPACT OF USING TOBACCO HEATING SYSTEM (THS) ON INDOOR AIR QUALITY IN A NIGHT CLUB

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SUPPLEMENTARY MATERIAL

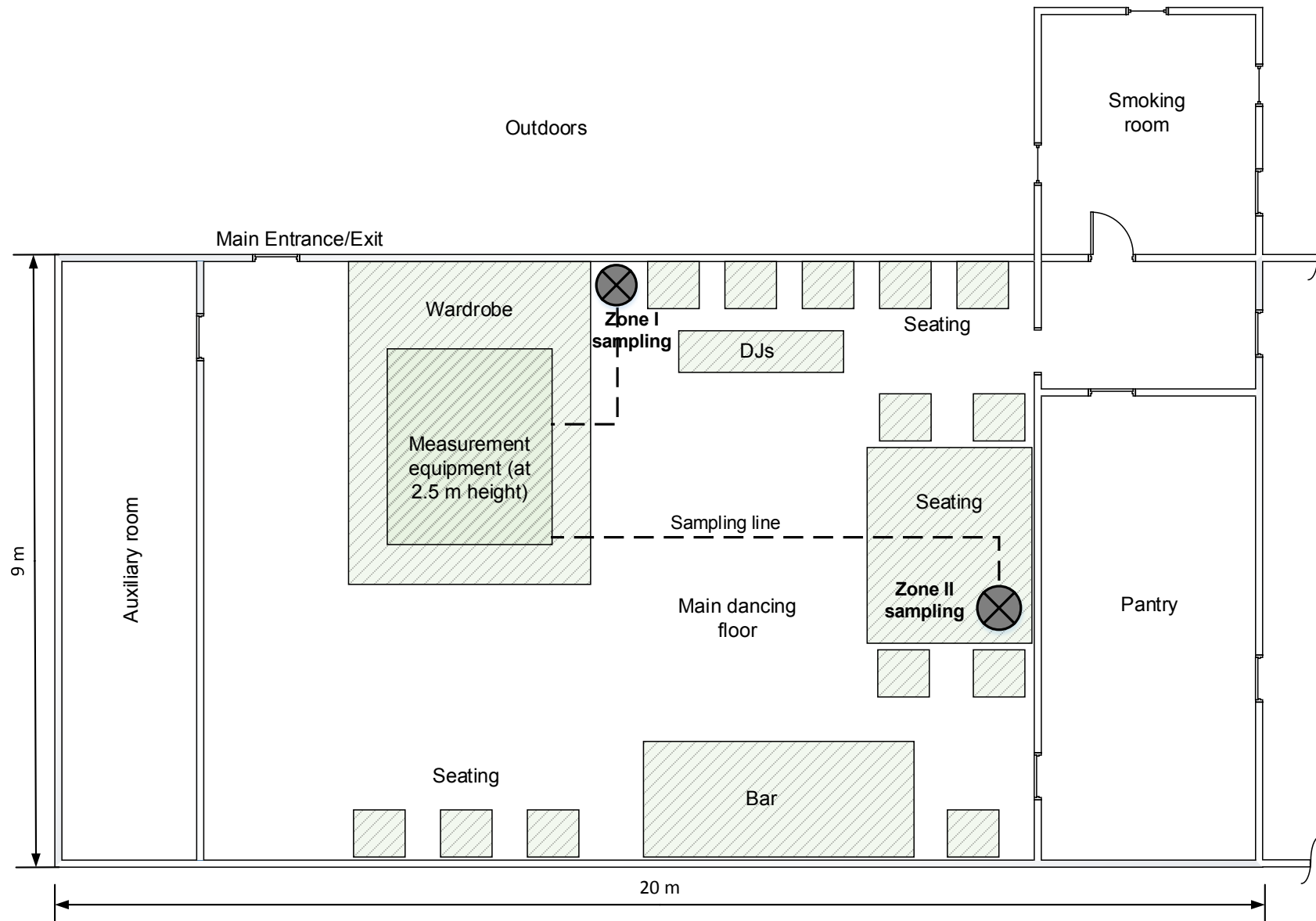


Figure S1. Floor plan and sampling-related information within the club premises

Table S1. Summary table of general air quality parameters at various experiment conditions and different days.

Backgr.+10p. – background with 10 humans present but without THS use; Backgr.+30p. - background with 30 humans present but without THS use; 10 IQOS - 10 humans simultaneously using THS; 30 IQOS - 30 humans simultaneously using THS; Z1 – zone 1; Z2 – zone 2.

Date	Experiment conditions	PNC, #/cm ³	PM2.5, µg/m ³	PM10, µg/m ³	Nicotine, µg/m ³	Formaldehyde, µg/m ³	Acetaldehyde, µg/m ³	3-EP, µg/m ³	CO ₂ , ppm	T, °C	RH, %
2018-01-30	Backgr. Z1	4.6E+03	1.2	1.5	3.6	32.2	43.7	1.6	616	14	43
	Backgr. Z2	4.9E+03	1.3	3.1	3.0	26.7	30.4	1.5	552	14	43
	Backgr.+10p. Z1	6.5E+03	2.3	4.1	5.9	28.7	38.4	1.5	732	14	43
	Backgr.+10p. Z2	5.9E+03	2.8	10.1	6.6	27.3	32.9	1.5	661	14	43
	10 IQOS Z1	3.4E+04	6.1	6.6	7.7	30.9	37.9	1.4	896	15	43
	10 IQOS Z2	1.7E+04	6.9	7.9	8.8	27.8	33.0	1.6	841	15	43
	Backgr.+30p. Z1	3.9E+04	5.7	52.5	7.6	21.7	22.8	1.2	925	15	41
	Backgr.+30p. Z2	3.3E+04	5.2	48.5	7.7	26.0	24.0	1.3	857	15	41
	30 IQOS Z1	1.2E+05	10.8	11.0	10.1	24.5	25.6	1.4	1208	16	43
	30 IQOS Z2	1.2E+05	9.2	9.3	9.3	33.1	30.2	1.6	1126	16	42
2018-01-31	Backgr. Z1	9.5E+03	2.8	14.4	2.4	42.4	41.4	1.7	597	18	38
	Backgr. Z2	9.8E+03	2.8	16.2	2.5	40.5	37.2	1.6	542	18	37
	Backgr.+10p. Z1	8.8E+03	3.4	15.6	5.0	40.9	40.6	1.7	734	18	38
	Backgr.+10p. Z2	9.8E+03	3.7	20.8	5.5	42.2	39.7	1.6	671	18	37
	10 IQOS Z1	3.7E+04	4.4	4.5	7.5	40.6	39.7	2.1	850	18	38
	10 IQOS Z2	4.3E+04	4.7	4.9	8.1	44.3	42.2	2.0	792	19	38
	Backgr.+30p. Z1	2.6E+04	8.8	10.7	4.4	27.1	19.9	2.2	786	18	34
	Backgr.+30p. Z2	2.8E+04	9.7	19.4	5.0	28.4	19.7	1.6	716	19	34
	30 IQOS Z1	1.1E+05	11.0	11.2	11.5	31.0	22.7	1.5	1058	19	36

	30 IQOS Z2	1.2E+05	12.3	12.3	10.7	37.6	25.2	1.5	963	20	35
2018-02-01	Backgr. Z1	2.8E+04	14.8	17.1	4.8	40.8	49.2	1.9	635	18	38
	Backgr. Z2	2.8E+04	14.0	14.7	4.1	41.9	44.5	1.7	574	18	38
	Backgr.+10p. Z1	2.6E+04	13.8	17.7	6.0	41.7	49.1	1.9	747	18	39
	Backgr.+10p. Z2	2.5E+04	13.5	18.3	5.2	35.6	41.9	2.1	682	18	38
	10 IQOS Z1	5.2E+04	12.0	12.0	6.4	40.9	50.4	1.9	849	18	39
	10 IQOS Z2	5.1E+04	12.1	12.1	6.6	44.2	51.5	2.2	777	18	39
	Backgr.+30p. Z1	5.2E+04	23.8	24.7	5.3	31.2	30.8	1.5	923	18	39
	Backgr.+30p. Z2	4.8E+04	22.0	22.3	6.2	33.5	30.9	1.6	820	18	38
	30 IQOS Z1	1.5E+05	24.5	24.9	11.9	35.4	35.8	1.7	1202	18	41
	30 IQOS Z2	1.5E+05	23.3	23.3	3.8	35.1	32.6	2.3	1074	18	41
2018-02-02	Backgr. Club OP Z1	5.9E+04	20.1	23.8	3.5	32.3	26.0	1.4	829	18	39
	Backgr. Club OP Z2	5.1E+04	18.5	19.9	4.4	29.8	22.1	1.7	724	18	40
	Club OP Z1	6.4E+05	7301	8743	4.2	28.0	42.8	1.3	1590	21	37
	Club OP Z2	8.3E+05	1145	1174	6.6	35.1	57.7	3.7	1432	21	37
2018-02-03	Backgr. Club OP Z1	3.1E+05	63.8	63.9	5.2	26.8	23.8	0.8	596	19	36
	Backgr. Club OP Z2	3.1E+05	66.6	66.6	14.9	21.6	17.5	1.3	574	19	37
	Club OP Z1	7.7E+05	2748	3001	6.8	23.4	35.1	4.0	1625	21	36
	Club OP Z2	4.9E+05	7859	8862	22.9	28.1	50.5	2.2	1474	21	36
2018-02-09	Backgr. Club OP Z1	4.2E+05	68.0	68.0	5.0	20.8	17.3	0.5	863	17	28
	Backgr. Club OP Z2	4.1E+05	33.2	33.3	8.2	17.2	13.8	0.8	771	17	28
	Club OP Z1	9.2E+05	2084	1977	6.3	24.6	36.9	0.7	1477	20	29
	Club OP Z2	9.8E+05	1718	1738	13.4	25.6	42.1	1.8	1331	20	29