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Volatile Organic Compounds in New Homes:

Supplemental Material

NRC·CNRC CONSTRUCTION

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Les composés organiques volatils présents dans les maisons neuves : Informations complémentaires

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Appendix A - Target volatile organic compound list

This section contains the target VOC list, including chemical properties and minimum detection limits.

Table A. 1 List of target volatile organic compounds and chemical properties

#	G	VOC	CAS #	Mixture ID[1]	MW[2]	BP (°C)[3]	Qion[4]	MDL (ng)[5]
1	Alcohols	1-Butanol	71-36-3	Jmix	74.1	113.9	56	0.4
2		1-Propanol	71-23-8	Jmix	60.1	90.0	59	0.6
3		Hexanol, 2-ethyl-1-	104-76-7	CusB	130.2	188.5	57	1.3
4		2-Propanol	67-63-0	Jmix	60.1	67.0	45	0.7
5		Ethanol	64-17-5	Jmix	46.1	65.1	45	1.3
6		Phenol	108-95-2	CusB	94.1	170.0	94	2.3
7	Aldehydes & Ketones	Methylethyl ketone	78-93-3	Jmix	72.1	70.4	43	1.5
8		Acetone	67-64-1	Jmix	58.1	44.8	43	1.7
9		Acetophenone	98-86-2	CusA	120.2	189.8	105	2.6
10		Cyclohexanone	108-94-1	CusA	98.2	155.0	55	1.8
11		Methylisobutyl ketone	108-10-1	Jmix	100.2	104.6	43	0.5
12		Benzaldehyde	100-52-7	CusA	106.1	181.2	106	3.1
13		Butanal	123-72-8	CusA	72.1	84.8	43	2.3
14		Decanal	112-31-2	Jmix	156.3	216.1	82	0.5
15		2-Decenal	3913-81-3	CusA	154.3	222.0	55	2.0
16		Furfural	98-01-1	CusA	96.1	143.8	96	2.5
17		Heptanal	111-71-7	CusA	114.2	154.5	70	2.5
18		Hexanal	66-25-1	CusA	100.2	132.2	56	1.9
19		Nonanal	124-19-6	Jmix	142.2	196.5	57	0.8
20		2-Nonenal	18829-56-6	CusA	140.2	202.6	55	5.0
21		2-Octenal	2548-87-0	CusA	126.2	182.4	55	6.1
22		Pentanal	110-62-3	CusA	86.1	109.0	44	2.1
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5	CusB	86.2	56.3	71	18.5
24		Pentane, 3-methyl-	96-14-0	CusB	86.2	56.3	57	19.1
25		2,2,4-Trimethylpentane	540-84-1	Jmix	114.2	81.4	57	0.5
26		2,4-Dimethylpentane	108-08-7	Jmix	100.2	66.4	57	0.7
27		Decane	124-18-5	Jmix	142.3	164.6	57	0.4
28		Dodecane	112-40-3	Jmix	170.3	205.7	57	0.4
29		Heptane	142-82-5	Jmix	100.2	96.2	71	1.0
30		Hexadecane	544-76-3	Jmix	226.5	277.1	57	0.3
31		Hexane	110-54-3	Jmix	86.2	71.5	57	1.5
32		Nonane	111-84-2	Jmix	128.3	142.7	57	0.5
33		Octane	111-65-9	Jmix	114.2	119.9	43	0.5
34		Pentadecane	629-62-9	Jmix	212.4	260.6	57	0.4
35		Tetradecane	629-59-4	Jmix	198.4	243.2	57	0.5
36		Tridecane	629-50-5	Jmix	184.4	224.9	57	0.4
37		Undecane	1120-21-4	Jmix	156.3	185.6	57	0.8
38		Benzene, 1,2,4,5-tetramethyl-	95-93-2	Jmix	134.2	190.7	119	0.4
39		Toluene, 2-ethyl-	611-14-3	Jmix	120.2	170.0	105	0.5

Table A. 1 (continued)

	G	VOC	CAS #	Mixture ID[1]	MW[2]	BP (°C)[3]	Qion[4]	MDL (ng)[5]
40	Aromatic Hydrocarbons	Toluene, 3-ethyl-	620-14-4	Jmix	120.2	170.0	105	0.4
41		Toluene, 4-ethyl-	622-96-8	Jmix	120.2	170.0	105	0.5
42		Cyclohexene, 4-phenyl	4994-16-5	CusB	158.3	240.1	104	2.2
43		Benzene	71-43-2	Jmix	78.1	102.2	78	1.5
44		Benzene, 1,2,3-trimethyl-	526-73-8	Jmix	120.2	170.0	105	0.5
45		Benzene, 1,2,4-trimethyl-	95-63-6	Jmix	120.2	170.0	120	0.5
46		Benzene, 1,2-dimethyl-	95-47-6	Jmix	106.2	148.3	91	0.5
47		Benzene, 1,3,5-trimethyl-	108-67-8	Jmix	120.2	170.0	105	0.4
48		Benzene, 1,3(4)-dimethyl- [6]	108-38-3 106-42-3	Jmix	106.2	148.3	91	0.9
49		Benzene, isopropyl	98-82-8	CusB	120.2	157.0	105	2.0
50		Benzene, propyl-	103-65-1	CusB	120.2	170.0	91	1.9
51		Ethylbenzene	100-41-4	Jmix	106.2	148.3	91	0.5
52		Naphthalene	91-20-3	CusB	128.2	231.6	128	2.2
53		p-Cymene	99-87-6	CusB	134.2	178.3	119	2.1
54		Styrene	100-42-5	Jmix	104.2	146.7	104	0.4
55		Toluene	108-88-3	Jmix	92.1	125.7	91	0.4
56		2-Phenylpropene	98-83-9	CusB	118.2	162.6	118	2.0
57		Indene	95-13-6	CusB	116.2	182.4	115	2.0
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4	CusB	102.1	87.7	43	1.8
59		Acetic acid, 2-ethoxyethyl ester	111-15-9	CusB	132.2	149.2	59	2.4
60		Acetic acid, butyl ester	123-86-4	Jmix	116.2	125.8	43	0.4
61		Acetic acid, ethyl ester	141-78-6	Jmix	88.1	77.9	43	0.4
62		Methyl methacrylate	80-62-6	CusB	100.1	93.9	69	1.5
63		2-Ethylhexyl acetate	103-09-3	CusB	172.3	198.8	70	2.5
64		2-Methoxyethylacetate	110-49-6	CusA	118.1	126.7	43	2.1
65		Butyrolactone	96-48-0	CusB	86.1	176.9	42	1.0
66		Texanol	25265-77-4	CusB	216.3	258.4	71	1.7
67		TXIB	6846-50-0	CusB	286.4	271.5	71	2.5
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1	CusA	62.1	153.5	43	10.8
69		1,2-Propanediol	57-55-6	CusA	76.1	155.2	45	7.6
70		Diethylene glycol monoethyl ether	111-90-0	CusA	134.2	202.2	45	2.6
71		Propanol, 1-methoxy-2-	107-98-2	CusA	90.1	116.6	45	3.1
72		Ethanol, 2-butoxy-	111-76-2	CusA	118.2	181.1	87	1.5
73		Ethanol, 2-butoxyethoxy-	112-34-5	CusA	162.2	240.0	45	1.0
74		Ethanol, 2-ethoxy-	110-80-5	CusA	90.1	137.8	59	1.4
75		Ethanol, 2-methoxy-	109-86-4	CusA	76.1	114.8	45	1.4
76		Propanol, 2-methyl-2-	75-65-0	CusA	74.1	70.4	59	2.3

[1] Calibration mixture. [2] MW: molecular weight. [3] BP: boiling point. [4] Qion: quantifying ion. [5] MDL: method detection limit. [6] Two peaks (1,3-dimethylbenezene and 1,4-dimethyl benzene) are combined; the peaks are sometimes represented by 1,3-dimehtylbenzene for convenience.

Table A. 1 (continued)

#	VOC	CAS #	Mixture ID[1]	MW[2]	BP (°C)[3]	Qion[4]	MDL (ng)[5]
77	1,1,1-Trichloroethane	71-55-6	Jmix	133.4	65.6	97	0.6
78	1,2-Dichlorobenzene	95-50-1	CusB	147.0	182.4	146	2.0
79	1,2-Dichloroethane	107-06-2	Jmix	99.0	104.7	62	0.6
80	1,2-Dichloropropane	78-87-5	Jmix	113.0	101.2	63	0.6
81	1,4-Dichlorobenzene	106-46-7	Jmix	147.0	174.7	146	0.4
82	Bromodichloromethane	75-27-4	Jmix	163.8	117.6	83	0.4
83	Carbon tetrachloride	56-23-5	Jmix	153.8	80.4	117	0.7
84	Chloroform	67-66-3	Jmix	119.4	91.2	83	0.6
85	Dibromochloromethane	124-48-1	Jmix	208.3	143.0	129	0.5
86	Dichloromethane	75-09-2	Jmix	84.9	80.4	84	1.1
87	Tetrachloroethylene	127-18-4	Jmix	165.8	114.3	166	0.5
88	Trichloroethylene	79-01-6	Jmix	131.4	84.8	130	1.4
89	1,1,2,2-Tetrachloroethane	79-34-5	CusB	167.9	149.9	83	2.0
90	Methylcyclohexane	108-87-2	CusB	98.2	106.8	83	4.5
91	Cyclohexane	110-82-7	CusB	84.2	89.7	84	4.5
92	Cyclohexane, butyl-	1678-93-9	CusB	140.3	174.1	83	2.0
93	Cyclohexane, ethyl-	1678-91-7	CusB	112.2	130.1	83	1.5
94	Cyclohexane, propyl-	1678-92-8	CusB	126.2	152.6	83	1.9
95	Decahydronaphthalene	91-17-8	CusB	138.3	179.5	138	2.2
96	alpha-Pinene	80-56-8	Jmix	136.2	157.3	93	0.5
97	alpha-Terpinene	99-86-5	CusB	136.2	169.4	121	5.3
98	beta-Pinene	127-91-3	Jmix	136.2	150.8	93	0.5
99	gamma-Terpinene	99-85-4	CusB	136.2	169.4	93	1.8
100	3-Carene	13466-78-9	CusB	136.2	157.3	93	2.2
101	Camphene	79-92-5	CusB	136.2	150.8	93	2.1
102	Limonene	5989-27-5	Jmix	136.2	167.7	68	0.5
103	Acetic acid	64-19-7	CusA	60.1	122.3	60	5.6
104	Isobutyric acid	79-31-2	CusA	88.1	153.8	73	1.3
105	Butyric acid	107-92-6	CusA	88.1	166.8	60	1.0
106	Heptanoic acid	111-14-8	CusA	130.2	226.9	60	1.1
107	2-Ethylhexanoic acid	149-57-5	CusA	144.2	234.2	88	1.1
108	Hexanoic acid	142-62-1	CusA	116.2	207.8	60	0.8
109	Pentanoic acid	109-52-4	CusA	102.1	187.8	60	0.9
110	Octanoic acid	124-07-2	CusA	144.2	245.1	60	0.6
111	Furan, 2-pentyl	3777-69-3	CusB	138.2	175.6	81	11.5
112	2-Pyrrolidinone, 1-methyl-	872-50-4	CusB	99.1	201.9	99	1.8
113	1,4-Dioxane	123-91-1	CusB	88.1	102.8	88	1.7
114	Triethyl phosphate	78-40-0	CusB	182.2	233.3	99	1.5
115	n-Butyl ether	142-96-1	CusB	86.2	56.3	57	2.0
116	2-Butanone oxime	96-29-7	CusA	87.1	157.1	42	1.6
117	Triethylamine	121-44-8	CusA	101.2	95.5	86	11.1
D1	Formaldehyde	50-00-0	-	30.0	9.5	-	6.9
D2	Acetaldehyde	75-07-0	-	44.1	33.8	-	8.9
D3	Propanal	123-38-6	-	58.1	59.8	-	5.7

Appendix B - Emissions test conditions and sample dimensions

This section contains a summary of the experimental conditions for the emissions testing and the sample characteristics of the different building materials tested.

B.1 Emissions test experimental conditions

Table B. 1 Summary of emissions test experimental conditions

Emissions Test Specimen Preparation: Final Dimensions and Exposed Area	S1_Identification Code		9800_Caulk	9800_OSB-SF	9800_IJ	9800_Ply-UL	9800_MDF-bbt1	9800_MDF-bbt2
	S1_location in orig product		as received	centre of received specimen	centre of received specimen	centre of each of 3 received specimens	centre section of received specimen	as received
	S1_Bead width (exposed)	cm	0.63	12.48	24.1	12.5	14.8	3.5
	S1_Bead length (exposed)	cm	25.00	12.47	11.4	12.5	17.0	62.7
	S1_Bead thickness	cm	0.70	1.55	6.4	1.6	1.5	0.93 (bevelled to 0.59)
	S1_Top = Bottom Surf Area	cm^2		155.6		155.6	250.8	
	S1_Edge Surf Area	cm^2		77.5		77.8	0.0	
	S1_Total Surf Area	cm^2	15.8	388.8		389.1	250.8	
	S1_Edge Area (% of Total)	%		19.9		20.0	0.0	
	S1_Surface Exp Control		bead of caulk in SS Channel	edges taped, aluminum	ends taped	none	Ends taped, base + back against holder	Ends taped, base + back against holder
	S1_Exposed Top	cm^2	15.8	83.8	294.5	83.3	250.8	
	S1_Exposed Bottom	cm^2	0.0	86.5	252.4	83.7	0.0	
	S1_Exposed Edges	cm^2	0.0	0.0	0.0	0.0	0.0	
	S1_Total Exposed Area	cm^2	15.8	170.3	546.9	167.0	250.8	0.0
	S1_specimen volume	cm^3	11.0	241.8	735.6	242.8	329.2	35.4
	S1_initial weight	g	16.7	137.9	423.94	90.61	227.43	35.48
	S1_Final weight	g	14.1	138	424.45	90.72	228.15	0
	S1_initial density	$g\ cm^{-3}$	1.515	0.570	0.576	0.373	0.691	0.610
	S1_Final density	$g\ cm^{-3}$	2.558	0.571	0.577	0.374	0.693	0.000
	S2_location in orig product						centre section of received specimen	as received
	S1_final cut perim (exposed)	cm		12.42		12.5	14.8	3.5
	S2_final cut length	cm		12.48		12.5	17	62.475
	S2_final thickness	cm		1.53		1.6	1.5	0.93 (bevelled to 0.59)
	S2_Top = Bottom Surf Area	cm^2		155.1	0.0	156.3	250.8	
	S2_Edge Surf Area	cm^2		76.3	0.0	78.0	0.0	
	S2_Total Surf Area	cm^2		386.5	0.0	390.5	501.5	
	S2_Edge Area (% of Total)	%		19.7		20.0	0.0	
	S2_Surface Exp Control			edges taped, aluminum	ends taped		Ends taped, base + back against holder	Ends taped, base + back against holder
	S2_Exposed Top	cm^2		84.2	293.3	83.7	250.8	
	S2_Exposed Bottom	cm^2		86.4	249.7	84.2	0.0	
	S2_Exposed Edges	cm^2		0.0	0.0	0.0	0.0	
	S2_Total Exposed Area	cm^2		170.6	543.0	167.9	250.8	0.0
	S2_specimen volume	cm^3		237.6	749.9	243.8	329.2	35.3
	S2_initial weight	g		131.09	418.3	91.44	226.38	35.37
	S2_Final weight	g		131.41	418.21	91.72	226.8	0
	S2_initial density	$g\ cm^{-3}$		0.552	0.558	0.375	0.688	0.630
	S2_Final density	$g\ cm^{-3}$		0.553	0.558	0.376	0.689	0.000
	S3_location in orig product							as received
	S3_final cut width	cm		12.489		12.5		3.5
	S3_final cut length	cm		12.424		12.5		62.475
	S3_final thickness	cm		1.5415		1.6		0.93 (bevelled to 0.59)
	S3_Top = Bottom Surf Area	cm^2		155.2		156.3		
	S3_Edge Surf Area	cm^2		76.8		78.0		
	S3_Total Surf Area	cm^2		387.1		390.5		
	S3_Edge Area (% of Total)	%		19.8		20.0		
	S3_Surface Exp Control			edges taped, aluminum				Ends taped, base + back against holder
	S3_Exposed Top	cm^2		83.8		85.6		
	S3_Exposed Bottom	cm^2		84.9		83.3		
	S3_Exposed Edges	cm^2		0.0		0.0		
	S3_Total Exposed Area	cm^2		168.7		168.8		0.0
	S3_specimen volume	cm^3		239.2		243.8		35.8
	S3_initial weight	g		128.56		97.13		35.83
	S3_Final weight	g		129.72		97.31		0
	S3_initial density	$g\ cm^{-3}$		0.537		0.398		0.620
	S3_Final density	$g\ cm^{-3}$		0.542		0.399		0.000
	S4_location in orig product							as received
	S4_final cut width	cm						3.5
	S4_final cut length	cm						62.65
	S4_final thickness	cm						0.93 (bevelled to 0.59)
	S4_Top = Bottom Surf Area	cm^2						
	S4_Edge Surf Area	cm^2						
	S4_Total Surf Area	cm^2						
	S4_Edge Area (% of Total)	%						
	S4_Surface Exp Control							Ends taped, base + back against holder
	S4_Exposed Top	cm^2						
	S4_Exposed Bottom	cm^2						
	S4_Exposed Edges	cm^2						
	S4_Total Exposed Area	cm^2						0.0
	S4_specimen volume	cm^3						35.3
	S4_initial weight	g						35.38
	S4_Final weight	g						0
	S4_initial density	$g\ cm^{-3}$						0.600
	S4_Final density	$g\ cm^{-3}$						0.000
Emissions Test	Chamber System		50-09	50-09	50-10	50-09	50-09	50-09
	Chamber Number	ASTM	ASTM #2	ASTM #2	ASTM #13	ASTM #2	ASTM #13	ASTM #13
	Chamber Working Vol	L	50	50	50	50	50	50
	Chamber Working Vol	m^3	0.050	0.050	0.050	0.050	0.050	0.050
	Air Supply System		AS-5b	AS-5b	AS-5a	AS-5b	AS-5a	AS-5a
	Supply Flow Rate	$mL\ min^{-1}$	839.0	833.0	834.0	833.0	833.0	833.0
	Supply Flow Rate	$L\ hr^{-1}$	50.3	50.0	50.0	50.0	50.0	50.0
	Air change Rate	hr^{-1}	1.01	1.00	1.00	1.00	1.00	1.00
	Temperature	°C	23	23	23	23	23	23
	RH	%	50	50	50	50	50	50
	Specimen Holder		SS Caulk Holder #9	support, mid-chamber	support, mid-chamber	SS mesh support, mid-chamber	ss specimen holder (IPPT) on chamber floor	ss specimen holder (IPPT) on chamber floor
	surface(s) exposed		upper surface of bead	top + bottom (edges taped)	all except edges/ends	2 (top + bottom; edges taped)	2 (top + face; ends taped; back,bottom against SS plate)	2 (top + face; ends taped; back,bottom against SS plate)
	Exposed Surface Area	cm^2	15.8	510.0	1089.9	503.7	502	0.0
	Exposed Surface Area	m^2	0.0016	0.0510	0.109	0.050	0.050	0.000
	Loading Factor	$m^2\ m^{-3}$	0.032	1.020	2.180	1.007	1.004	0.000
	Chamber washed (date/time)		2017-01-05		2016-09-14	2016-10-04	2016-10-05	2017-01-05
	Chamber flush start date/time		2017-01-05	2016-09-14	2016-09-14	2016-10-04	2016-10-05	2017-01-05
	Start (T_0)		2017-01-06	2016-09-15	2016-09-15	2016-10-06	2016-10-06	2017-01-06
	End		2017-01-20	2016-09-29	2016-09-29	2016-10-20	2016-10-20	2017-01-20
	Duration	d	14	14	14	14	14	14

Table B. 1 (continued)

Emissions Test Specimen Preparation: Final Dimensions and Exposed Area	S1_Identification Code		9800_MDF-bbt2	9800_IDr	9800_HWF1	9800_HWF2	9800_Carp	9800_Cab1
	S1_location in orig product		as received		centre of received specimen	centre of received specimen	centre of received specimen	base cabinet
	S1_Bead width (exposed)	cm	3.5		5.8	5.7	10.2	76.2
	S1_Bead length (exposed)	cm	0.0		21.1	21.3	11.5	53.3
	S1_Bead thickness	cm	0.93 (bevelled to 0.59)		1.9	1.9	1.9	80.3
	S1_Top = Bottom Surf Area	cm^2			122.6	121.8	117.3	
	S1_Edge Surf Area	cm^2			103.5	104.0	82.5	
	S1_Total Surf Area	cm^2			348.8	347.6	317.1	
	S1_Edge Area (% of Total)	%			29.7	29.9	26.0	
	S1_Surface Exp Control		Ends taped, base + back against holder	none	none	small sample holder	none	none
	S1_Exposed Top	cm^2			122.6	121.8	117.3	
	S1_Exposed Bottom	cm^2			122.6	121.8	0.0	
	S1_Exposed Edges	cm^2			103.5	104.0	0.0	
	S1_Total Exposed Area	cm^2	0.0		348.8	347.6	117.3	26341.1
	S1_specimen volume	cm^3	0.6		235.7	234.5	222.9	
	S1_initial weight	g			117.73	174.29	35.88	
	S1_Final weight	g			118.15	174.39	35.87	
	S1_initial density	$g\ cm^{-3}$	0.807		0.499	0.743	0.161	
	S1_Final density	$g\ cm^{-3}$	0.000		0.501	0.744	0.161	
	S2_location in orig product		as received					stone countertop
	S1_final cut perim (exposed)	cm	3.5		5.604	5.61	11	81.28
	S2_final cut length	cm	0		21.25	21.225	11.5	58.42
	S2_final thickness	cm	0.93 (bevelled to 0.59)		1.937	1.914	1.9	3.02
	S2_Top = Bottom Surf Area	cm^2			119.1	119.1	126.5	
	S2_Edge Surf Area	cm^2			104.0	102.7	85.5	
	S2_Total Surf Area	cm^2			342.2	340.9	338.5	
	S2_Edge Area (% of Total)	%			30.4	30.1	25.3	
	S2_Surface Exp Control		Ends taped, base + back against holder			small sample holder		none
	S2_Exposed Top	cm^2			119.1	119.1	126.5	
	S2_Exposed Bottom	cm^2			119.1	119.1	0.0	
	S2_Exposed Edges	cm^2			104.0	102.7	0.0	
	S2_Total Exposed Area	cm^2	0.0		342.2	340.9	126.5	see base cabinet
	S2_specimen volume	cm^3	0.6		230.7	227.9	240.4	
	S2_initial weight	g			104.12	160.68	38.88	
	S2_Final weight	g			104.54	160.82	38.89	
	S2_initial density	$g\ cm^{-3}$	0.806		0.451	0.705	0.162	
	S2_Final density	$g\ cm^{-3}$	0.000		0.453	0.706	0.162	
	S3_location in orig product		as received					
	S3_final cut width	cm	3.5					
	S3_final cut length	cm	0					
	S3_final thickness	cm	0.93 (bevelled to 0.59)					
	S3_Top = Bottom Surf Area	cm^2						
	S3_Edge Surf Area	cm^2						
	S3_Total Surf Area	cm^2						
	S3_Edge Area (% of Total)	%						
	S3_Surface Exp Control		Ends taped, base + back against holder					
	S3_Exposed Top	cm^2						
	S3_Exposed Bottom	cm^2						
	S3_Exposed Edges	cm^2						
	S3_Total Exposed Area	cm^2	0.0					
	S3_specimen volume	cm^3	0.6					
	S3_initial weight	g						
	S3_Final weight	g						
	S3_initial density	$g\ cm^{-3}$	0.817					
	S3_Final density	$g\ cm^{-3}$	0.000					
	S4_location in orig product		as received					
	S4_final cut width	cm	3.5					
	S4_final cut length	cm	0					
	S4_final thickness	cm	0.93 (bevelled to 0.59)					
	S4_Top = Bottom Surf Area	cm^2						
	S4_Edge Surf Area	cm^2						
	S4_Total Surf Area	cm^2						
	S4_Edge Area (% of Total)	%						
	S4_Surface Exp Control		Ends taped, base + back against holder					
	S4_Exposed Top	cm^2						
	S4_Exposed Bottom	cm^2						
	S4_Exposed Edges	cm^2						
	S4_Total Exposed Area	cm^2	0.0					
	S4_specimen volume	cm^3	0.6					
	S4_initial weight	g						
	S4_Final weight	g						
	S4_initial density	$g\ cm^{-3}$	0.804					
	S4_Final density	$g\ cm^{-3}$	0.000					
Emissions Test	Chamber System		50-10	FSC_31m3 config	50-10	50-09	50-xx	
	Chamber Number	ASTM	ASTM #13	FSC	ASTM #13	ASTM #2	ASTM #13	31m3 FSC
	Chamber Working Vol	L	50	31,000	50	50	50	31000
	Chamber Working Vol	m^3	0.050	31.0	0.050	0.050	0.050	31.000
	Air Supply System		AS-5b	FSC	AS-5a	AS-5b	AS-5A	
	Supply Flow Rate	$mL\ min^{-1}$	833.0	253,167	833.0	833.0	833.0	517000.0
	Supply Flow Rate	$L\ hr^{-1}$	50.0	15,190	50.0	50.0	50.0	31020.0
	Air change Rate	hr^{-1}	1.00	0.49	1.00	1.00	1.00	1.00
	Temperature	°C	23	23	23	23	23	23
	RH	%	50	50	50	50	50	50
	Specimen Holder		ss specimen holder (IPPT) on chamber floor	Shims/stand, mid-chamber	small sample holder	small sample holder	support, mid-chamber	none, freestanding
	surface(s) exposed		2 (top + face; ends taped; back,bottom against SS plate)	all	top only	top only	top only	all except top of base (covered by countertop)
	Exposed Surface Area	cm^2	250.3	20368.7	200.0	200.0	200.0	26341.1
	Exposed Surface Area	m^2	0.025	2.037	0.020	0.020	0.020	2.634
	Loading Factor	$m^2\ m^{-3}$	0.501	0.066	0.400	0.400	0.400	0.085
	Chamber washed (date/time)		2017-01-05	2016-10-22			2016-11-30	2017-03-16
	Chamber flush start date/time		2017-01-05	2016-10-22			2016-11-30	2017-03-16
	Start (T_0)		2017-01-06	2016-10-25	2016-10-27	2016-10-27	2016-12-01	2017-03-23
	End		2017-01-20	2016-11-07	2016-11-08	2016-11-08	2016-12-15	2017-04-06
	Duration	d	14	13	12	12	14	14

Table B. 1 (continued)

Emissions Test Specimen Preparation: Final Dimensions and Exposed Area	S1_Identification Code		9800_Cab2	9800_Cab3	9800_Cab4	9800_Ceram	9800_Paint1
	S1_location in orig product		base cabinet	base cabinet	base cabinet	ceramic tile	1/2" EasyLite drywall from centre of sheet
	S1_Bead width (exposed)	cm	76.2	76.2	76.2		11.3
	S1_Bead length (exposed)	cm	61.0	61.0	53.3		21.2
	S1_Bead thickness	cm	87.9	80.3	87.9		1.3
	S1_Top = Bottom Surf Area	cm^2		4645.2			
	S1_Edge Surf Area	cm^2		22035.4			
	S1_Total Surf Area	cm^2		31325.7			
	S1_Edge Area (% of Total)	%					
	S1_Surface Exp Control		none, freestanding			taped edges, bottow covered by adh/plywood/OSB	small holder
	S1_Exposed Top	cm^2				16.5	0.0
	S1_Exposed Bottom	cm^2				29.1	0.0
	S1_Exposed Edges	cm^2				0.0	0.0
	S1_Total Exposed Area	cm^2	30217.7	27508.0		480.2	0.0
	S1_specimen volume	cm^3			357463.3		304.2
	S1_initial weight	g				764.98	164.57
	S1_Final weight	g					
	S1_initial density	g cm^{-3}					0.541
	S1_Final density	g cm^{-3}					
	S2_location in orig product		stone countertop	stone countertop	laminate countertop	OSB	from 3.7L can UltraHide
	S1_final cut perim (exposed)	cm	81.28	81.3	81.3		
	S2_final cut length	cm	29.845	64.8	64.8		
	S2_final thickness	cm	3.01625	3.0	3.3		
	S2_Top = Bottom Surf Area	cm^2	2425.8		5264.5		
	S2_Edge Surf Area	cm^2			973.8		
	S2_Total Surf Area	cm^2			11502.8		
	S2_Edge Area (% of Total)	%					
	S2_Surface Exp Control		none, sitting on base cabinet			taped edges, top covered by plywood/adh/ceramic	
	S2_Exposed Top	cm^2				16.6	
	S2_Exposed Bottom	cm^2				28.9	
	S2_Exposed Edges	cm^2				0.0	
	S2_Total Exposed Area	cm^2	see base cabinet	see base		479.7	
	S2_specimen volume	cm^3			17550.5		
	S2_initial weight	g				456.13	3.36
	S2_Final weight	g					
	S2_initial density	g cm^{-3}					
	S2_Final density	g cm^{-3}					
	S3_location in orig product		wall unit	wall unit		adhesive	from 3.7L can Lifemaster
	S3_final cut width	cm	76.2	76.2			
	S3_final cut length	cm	29.845	29.8			
	S3_final thickness	cm	76.2	76.2			
	S3_Top = Bottom Surf Area	cm^2					
	S3_Edge Surf Area	cm^2					
	S3_Total Surf Area	cm^2					
	S3_Edge Area (% of Total)	%					
	S3_Surface Exp Control		none, shimmed above base cab.			taped edges, sandwiched between plywood and ceramic	
	S3_Exposed Top	cm^2					
	S3_Exposed Bottom	cm^2					
	S3_Exposed Edges	cm^2					
	S3_Total Exposed Area	cm^2	20709.6	20709.6			
	S3_specimen volume	cm^3					
	S3_initial weight	g				117.86	3.77
	S3_Final weight	g					
	S3_initial density	g cm^{-3}					
	S3_Final density	g cm^{-3}					
	S4_location in orig product					plywood subfloor	
	S4_final cut width	cm					
	S4_final cut length	cm					
	S4_final thickness	cm					
	S4_Top = Bottom Surf Area	cm^2					
	S4_Edge Surf Area	cm^2					
	S4_Total Surf Area	cm^2					
	S4_Edge Area (% of Total)	%					
	S4_Surface Exp Control					taped edges, sandwiched between plywood and adhesive	
	S4_Exposed Top	cm^2					
	S4_Exposed Bottom	cm^2					
	S4_Exposed Edges	cm^2					
	S4_Total Exposed Area	cm^2					
	S4_specimen volume	cm^3					
	S4_initial weight	g				323.04	
	S4_Final weight	g					
	S4_initial density	g cm^{-3}					
	S4_Final density	g cm^{-3}					
Emissions Test	Chamber System		FSC	FSC	FSC	ASTM #12	50-10
	Chamber Number	ASTM	FSC	FSC	FSC	ASTM #12	ASTM # 13
	Chamber Working Vol	L	31000	31000	31000	50	50
	Chamber Working Vol	m^3	31.000	31.000	31.000	0.050	0.050
	Air Supply System						AS-5b
	Supply Flow Rate	mL min^{-1}	517000.0	517000.0	517000.0	833.0	833.0
	Supply Flow Rate	L hr^{-1}	31020.0	31020.0	31020.0	50.0	50.0
	Air change Rate	hr^{-1}	1.00	1.00	1.00	1.00	1.00
	Temperature	°C	23	23	23	23	23
	RH	%	50	50	50	50	50
	Specimen Holder		none	none	none	none	small holder
	surface(s) exposed		all except top of base (covered by countertop)	all except top of base (covered by countertop)	all except top of base (covered by countertop)	Top + Bottom (edges taped)	top only
	Exposed Surface Area	cm^2	50927.3	48218	27714	959.9	200.0
	Exposed Surface Area	m^2	5.093	4.822	2.771	0.096	0.020
	Loading Factor	m^2 m^{-3}	0.164	0.156	0.089	1.920	0.400
	Chamber washed (date/time)		2017-01-18	2017-01-18	Wed Jan.18, 2017 12:00 AM	Wed Nov.30, 2016 12:00 AM	Tue Feb.14, 2017 11:00 AM
	Chamber flush start date/time		2017-01-18	2017-01-18	Wed Jan.18, 2017 12:00 AM	Wed Nov.30, 2016 12:00 AM	Tue Feb.14, 2017 11:30 AM
	Start (T_0)		2017-03-02	2017-02-09	Thu Jan.19, 2017 01:18 PM	Thu Feb.09, 2017 02:10 PM	Thu Feb.16, 2017 10:50 AM
	End		2017-03-16	2017-02-23	Thu Feb.02	Thu Feb.23, 2017	Thu Mar.02, 2017 10:50 AM
	Duration	d	14	14	14	14	14

B.2 Specimen dimensions and other physical parameters

Table B. 2 I-joist test specimen dimensions, weights, exposed surface areas, and loading ratios

Specimen 1/2

		Dimensions, mm				
		mean	msmt1	msmt2	msmt3	msmt4
A	Web height	165.0	165			
B	SPF flange thickness	37.8	38.48	37.2		
C	SPF flange width	63.5	63.9	63		
D	Inner flange surface	26.7				
H	Joist height	240.7				
L1	I-joist length	113.7	113.75	113.68		
L2	Exposed I-joist length	76.5	75.84	75.79	77.69	76.65
T	OSB web thickness	10.1	10.07	10.14		
T1	Tape coverage of face, end 1	18.6				
T2	Tape coverage of face, end 2	18.6				
W_1	Specimen weight, untaped	423.9	g			
W_{1T}	Specimen weight with tape	433.2	g			
W_T	Tape weight	9.2	g			
W_{FT}	Final weight, taped	433.7	g			
W_F	Final weight	424.5	g	weight change	0.5	g

Exposed surfaces: Specimen 1	Area, m^2	L, m^2/m^3
OSB web [2(L2*A)]:	0.025	0.505
SPF flange [4B+2C+4D]*L2	0.029	0.589
Total exposed area	0.055	1.094

X-sectional area	6469	mm^2
	64.7	cm^2
Specimen volume	735.6	cm^3
Initial specimen density	0.576	g/cm^3
Final specimen density	0.590	g/cm^3

Specimen 2/2

		Dimensions, mm				
		mean	msmt1	msmt2	msmt3	msmt4
A	Web height	165.0	165			
B	SPF flange thickness	38.7	38.19	39.2		
C	SPF flange width	63.2	63.39	63.08		
D	Inner flange surface	26.6				
H	Joist height	242.4				
L1	I-Joist length	114.3	114.3			
L2	Exposed I-joist length	75.7	75.87	75.24	75.52	76.08
T	OSB web thickness	10.1	10.07	10.14		
T1	Tape coverage of face, end 1	19.3				
T2	Tape coverage of face, end 2	19.3				
W_1	Specimen weight, untaped	418.3	g			
W_{1T}	Specimen weight with tape	427.8	g			
W_T	Tape weight	9.5	g			
W_{FT}	Final weight, taped	427.7	g			
W_F	Final weight	418.2	g	weight change	-0.1	g

Exposed surfaces: Specimen 1	Area, m^2	L, m^2/m^3
OSB web [2(L2*A)]:	0.025	0.499
SPF flange [4B+2C+4D]*L2	0.029	0.587
Total exposed area	0.054	1.086

X-sectional area	6561	mm^2
	65.6	cm^2
Specimen volume	749.9	cm^3
Initial specimen density	0.558	g/cm^3
Final specimen density	0.570	g/cm^3

Specimen 1 + 2:	Area, m^2	L, m^2/m^3
Total exposed OSB	0.0502	1.004
Total exposed SPF	0.0588	1.175
Total exposed surface	0.1090	2.180

Total exposed length	0.152	m

Table B. 3 OSB subfloor test specimen dimensions and exposed surface areas

No	Surface	Dimensions (mm)			Exposed dim. (mm)		Exposed surf. (cm^2)	Exposed surf. (m^2)
		Length	Width	Thickness	Length	Width		
1-side 1		124.69	124.8	15.54	91.22	91.90	83.83	0.0084
1-side 2					92.45	93.55	86.49	0.0086
2-side 1		124.845	124.225	15.32	91.73	91.81	84.22	0.0084
2-side 2					92.25	93.62	86.36	0.0086
3-side 1		124.24	124.89	15.415	92.67	90.88	84.21	0.0084
3-side 2					91.86	92.38	84.86	0.0085
							Total:	0.0510

Table B. 4 OSB subfloor test specimen weights (pre- and post-test)

No	Initial wt (g)	Vol (cm^3)	Density ($g\ cm^{-3}$)	Taped wt (g)	Tape wt (g)	Final wt-taped (g)	Final wt (g)	Final dens ($g\ cm^{-3}$)
1	137.90	241.82	0.570	142.79	4.89	142.89	138.00	0.571
2	131.09	237.60	0.552	135.99	4.90	136.31	131.41	0.553
3	128.56	239.18	0.537	132.33	3.77	133.49	129.72	0.542

Table B. 5 Plywood underlay test specimen dimensions and exposed surface areas

No	Surface	Dimensions (mm)			Exposed dim. (mm)		Exposed surf. (m^2)
		Length	Width	Thickness	Length	Width	
1-side 1	rough	124.5	125.0	15.6	91.00	91.50	0.0083
1-side 2	smooth				92.00	91.00	0.0084
2-side 1	rough	125.0	125.0	15.6	92.00	91.00	0.0084
2-side 2	smooth				92.00	91.50	0.0084
3-side 1	rough	125.0	125.0	15.6	93.00	92.00	0.0086
3-side 2	smooth				91.50	91.00	0.0083
						total:	0.0504

Table B. 6 Plywood underlay test specimen weights (pre- and post-test)

No	Initial wt (g)	Vol (cm^3)	Density ($g\ cm^{-3}$)	Taped wt (g)	Tape wt (g)	Final wt-taped (g)	Final wt (g)	Final dens ($g\ cm^{-3}$)
1	90.61	242.775	0.373	94.8	4.19	94.91	90.72	0.374
2	91.44	243.75	0.375	95.63	4.19	95.91	91.72	0.376
3	97.13	243.75	0.398	101.3	4.17	101.48	97.31	0.399

Table B. 7 Oak veneer (pine core) test specimen dimensions and weights

	Measurements (mm)			Weight (g)		Density ($g\ cm^{-3}$)	
	Length	Width	Thickness	Initial	Final	Initial	Final
piece 1	211.25	58.05	19.22	117.73	118.15	0.499	0.501
piece 2	212.5	56.04	19.37	104.12	104.54	0.451	0.453

Table B. 8 Oak veneer (oak core) test specimen dimensions and weights

	Measurements (mm)			Weight (g)		Density ($g\ cm^{-3}$)	
	Length	Width	Thickness	Initial	Final	Initial	Final
piece 1	212.80	57.24	19.25	174.29	174.39	0.74	0.74
piece 2	212.25	56.10	19.14	160.68	160.82	0.71	0.71

Table B. 9 Carpet test specimen dimensions and weights

	Dimensions (cm)			Mass (g)
	Length	Width	Thickness	
1	10.2	11.5	1.9	35.88
2	11	11.5	1.8	38.88

Table B. 10 Ceramic tile assembly specimen weights

Weights of assembly components

Components	Weight (g)
Ceramic tile	764.98
Plywood	323.04
OSB	456.13
Adhesive (wet)	117.86
Tape	7.41
Total assembly	1677.80

Table B. 11 Ceramic tile dimensions and areas

Exposed surface areas		Unit
Ceramic_length	291.0	mm
Ceramic_width	165.0	mm
Ceramic_area	480.2	cm^2
OSB_length	289.0	mm
OSB_width	166.0	mm
OSB_area	479.7	cm^2

Table B. 12 Door dimensions and surface areas

Dimensions	Height	2.035	m
	Width	0.46	m
	Thickness	0.033	m
Areas	Front	0.94	m^2
	Back	0.94	m^2
	Edges	0.16	m^2
	Total surface area:	2.04	m^2

Table B. 13 MDF Baseboard trim (5.5”, primed) dimensions and surface areas

No	Surface	Dimensions (mm)			Exposed dim. (mm)		Exposed surf. (m^2)
		Length	Exposed perim	Thickness	Length	Width	
1	Primed	170.0	147.5	15.0	170.0	147.5	0.0251
2	Primed	170.0	147.5	15.0	170.0	147.5	0.0251
						total:	0.0502

Table B. 14 MDF baseboard trim (5.5”, primed) weights

No	Initial wt (g)	Corr'd Vol (cm^3)	Density ($g\ cm^{-3}$)	Taped wt (g)	Tape wt (g)	Final wt-taped (g)	Final wt (g)	Final dens. ($g\ cm^{-3}$)
1	227.43	329.2	0.691	228.07	0.64	228.79	228.15	0.693
2	226.38	329.2	0.688	227.04	0.66	227.46	226.8	0.689

Table B. 15 MDF baseboard trim (1.5”, primed) dimensions and surface areas

No	Cut specimen sizes (mm)				Exposed surf. (m^2)
	Length	Thick-1	Thick-2	Exposed perim	
1	179.0	9.30	5.90	35.0	0.0063
2	178.5	9.30	5.90	35.0	0.0062
3	178.5	9.30	5.90	35.0	0.0062
4	179.0	9.30	5.90	35.0	0.0063
				Total	0.0250

Table B. 16 MDF baseboard trim (1.5”, primed) weights

No	Initial wt (g)	Corr'd Vol (cm^3)	Density, ($g\ cm^{-3}$)	Taped wt (g)	Tape wt (g)	Final wt-taped (g)	Final wt (g)	Wt chg, (g)	Final dens ($g\ cm^{-3}$)
1	34.81	43.9	0.793	34.87	0.06	35.48	35.42	0.61	0.807
2	34.68	43.8	0.792	34.74	0.06	35.37	35.31	0.63	0.806
3	35.14	43.8	0.803	35.21	0.07	35.83	35.76	0.62	0.817
4	34.72	43.9	0.791	34.78	0.06	35.38	35.32	0.60	0.804

Table B. 17 MDF baseboard trim (1.5”, primed) weights after painting

No	After painted with primer			After painted with paint		
	Initial wt of trim (g)	Trim + wet paint (g)	Wet paint (g)	Initial wt of trim (g)	Trim + wet paint (g)	Wet paint (g)
1	35.45	36.02	0.57	35.80	36.40	0.60
2	35.35	35.87	0.52	35.69	36.10	0.41
3	35.81	36.31	0.50	36.16	36.62	0.46
4	35.35	35.94	0.59	35.70	36.44	0.74

Table B. 18 Caulk specimen dimensions and weights

Holder #9	2017-01-17 01:55 PM	2017-01-23 01:55 PM
	Initial	Final
Trough length (cm)	25.00	25.00
Width (cm)	0.63	0.63
Depth (cm)	0.70	0.70
Trough volume (cm^3)	11.03	11.03
Caulk volume (cm^3)	11.03	5.51
Holder weight (g)	455.88	
With caulk sample (g)	472.6	470.0
Caulk mass (g)	16.7	14.1
	caulk weight loss (g)	2.6
Caulk density (g cm^{-3})	1.51	2.56

Table B. 19 Drywall weights after priming and painting

Date/Time	Stage	Weight (g)
Fri Feb.10, 2017 03:35 PM	Drywall (1/2" Easi-Lite), unpainted, pre-conditioning	164.57
Wed Feb.15, 2017 12:00 PM	Unpainted, post-conditioning	164.54
Wed Feb.15, 2017 12:00 PM	Primer coat	167.90
Thu Feb.16, 2017 12:00 PM	Pre-top coat	165.10
Thu Feb.16, 2017 10:45 AM	w Top coat (paint)	168.87
	Weight of primer (wet)	3.36
	Weight of top coat (wet)	3.77
	Total weight of wet paint applied	7.13

Table B. 20 Bathroom base cabinet with stone countertop (Cab1) dimensions and areas

Code	Email description	Home	Room	Material	Width (m)	Depth (m)	Height (m)
Cab1	Home 1 master ensuite cabinetry (Soho Thermofoil Woodgrain Textured Ore)	1	Main ensuite	Base: Soho Thermofoil Woodgrain Textured Ore	0.762	0.533	0.803
				Countertop: Silestone, cream	0.8128	0.5842	0.030

Surface areas (m^2)				
Base cabinet + countertop				
Face	Back	2 Sides	Top	**Total**
0.635	0.635	0.889	0.475	**2.634**

Table B. 21 Kitchen wall and base cabinet for H1 (Cab2) dimensions and areas

Code	Email description	Home	Room	Material	Width (m)	Depth (m)	Height (m)
Cab2	Home 1 kitchen wall and base cabinetry (Soho/Salem-Thermofoil/ Maple-Shale/Expresso)	1	Kitchen	Soho/Salem-Thermofoil/Maple-Shale/Espresso	0.762	0.610	0.879

Surface areas (m^2)									
Base cabinet + countertop				Wall unit					**Total surface area**
Face	Back	2 Sides	Top	Face	Back	2 Sides	Top	Base	
0.693	0.693	1.109	0.526	0.581	0.581	0.455	0.227	0.227	**5.093**

Table B. 22 Kitchen wall and base cabinet for H2 (Cab3) dimensions and areas

Code	Email description	Home	Room	Material	Width (m)	Depth (m)	Height (m)
Cab3	Home 2 kitchen wall and base cabinetry (Coventry Thermofoil Satin White)	2	Kitchen	Coventry Thermofoil Satin White	0.762	0.6096	0.803

Countertop				Wall			
Material	Width, m	Depth, m	Height, m	Material	Width, m	Depth, m	Height, m
Silestone, cream	0.8128	0.6477	0.030	Coventry-Thermofoil-Satin White	0.762	0.29845	0.762

Surface areas (m^2)											
Base cabinet + countertop					Wall cabinet						**Total System**
Face	Back	Sides	Top	**Total**	Face	Back	Sides	Base	Top	**Total**	
0.635	0.635	1.016	0.465	**2.751**	0.581	0.581	0.455	0.227	0.227	**2.071**	**4.822**

Table B. 23 Bathroom base cabinet and countertop for H2 (Cab4) dimensions and areas

Code	Email description	Home	Room	Material	Width (m)	Depth (m)	Height (m)
Cab4	Home 2 bathroom cabinetry (Soho Thermofoil Woodgrain Textured Ore)	2	Bath	Base cabinet: Soho Thermofoil Woodgrain Textured Ore	0.762	0.533	0.879
				Countertop: particleboard laminate	0.813	0.648	0.033

Surface areas (m^2)				
Base cabinet + countertop				
Face	Back	Sides	Top	**Total**
0.696	0.696	0.974	0.406	**2.771**

B.3 Blank levels in sorbent tubes

Table B. 24 Blank levels in two-layer sorbent tubes

Compound	CAS #	Blank (ng)	MDL (ng)
Acetone	67-64-1	1.8	1.7
Benzene	71-43-2	4.6	1.5
Toluene	108-88-3	0.3	0.4
Styrene	100-42-5	0.3	0.4
Benzaldehyde	100-52-7	3.3	3.1
Acetophenone	98-86-2	1.7	2.6
Phenol	108-95-2	0.5	2.3

B.4 Emission factors for individual materials

Table B. 25 Emission factors for 20 major compounds emitted from "Structural: I-Joist, OSB web (test: IJ)"

VOC	CAS	Class I	Class II	Nominal emission factors (µg m^{-2} h^{-1})		
				1 day	8 days	14 days
Acetic acid	64-19-7	Target	Acids	678.4	381.0	326.2
a-Pinene	80-56-8	Target	Terpenes	951.4	249.8	174.3
Hexanal	66-25-1	Target	Aldehydes	232.2	153.1	136.8
Acetaldehyde	75-07-0	Target	Aldehydes	265.1	89.0	66.3
Ethanol	64-17-5	Target	Alcohols, Glycols, GlycoEthers	145.1	47.2	34.9
b-Pinene	127-91-3	Target	Terpenes	149.6	36.4	24.9
Pentanal	110-62-3	Target	Aldehydes	38.9	23.2	20.2
2-Octenal	2548-87-0	Target	Aldehydes	25.8	21.0	19.8
Limonene	138-86-3	Target	Terpenes	55.6	20.5	15.7
Formaldehyde	50-00-0	Target	Aldehydes	20.8	12.9	11.4
Acetone	67-64-1	Target	Ketones	21.7	12.6	10.9
Phenol	108-95-2	Target	Alcohols, Glycols, GlycoEthers	13.1	10.0	9.2
Furfural	98-01-1	Target	Aldehydes	13.7	7.6	6.5
1-Pentanol	71-41-0	Non-target	Alcohols, Glycols, GlycoEthers	10.6	6.5	5.7
Propanal	123-38-6	Target	Aldehydes	21.7	5.4	3.7
Hexanoic acid	142-62-1	Target	Acids	19.4	5.1	3.6
Camphene	79-92-5	Target	Terpenes	20.8	4.5	3.0
1-Butanol	71-36-3	Target	Alcohols, Glycols, GlycoEthers	4.8	3.3	3.0
2-Propanamine, 2-methyl-	3777-69-3	Target	Other	9.8	2.2	1.5
3-Carene	13466-78-9	Target	Terpenes	6.7	2.0	1.4

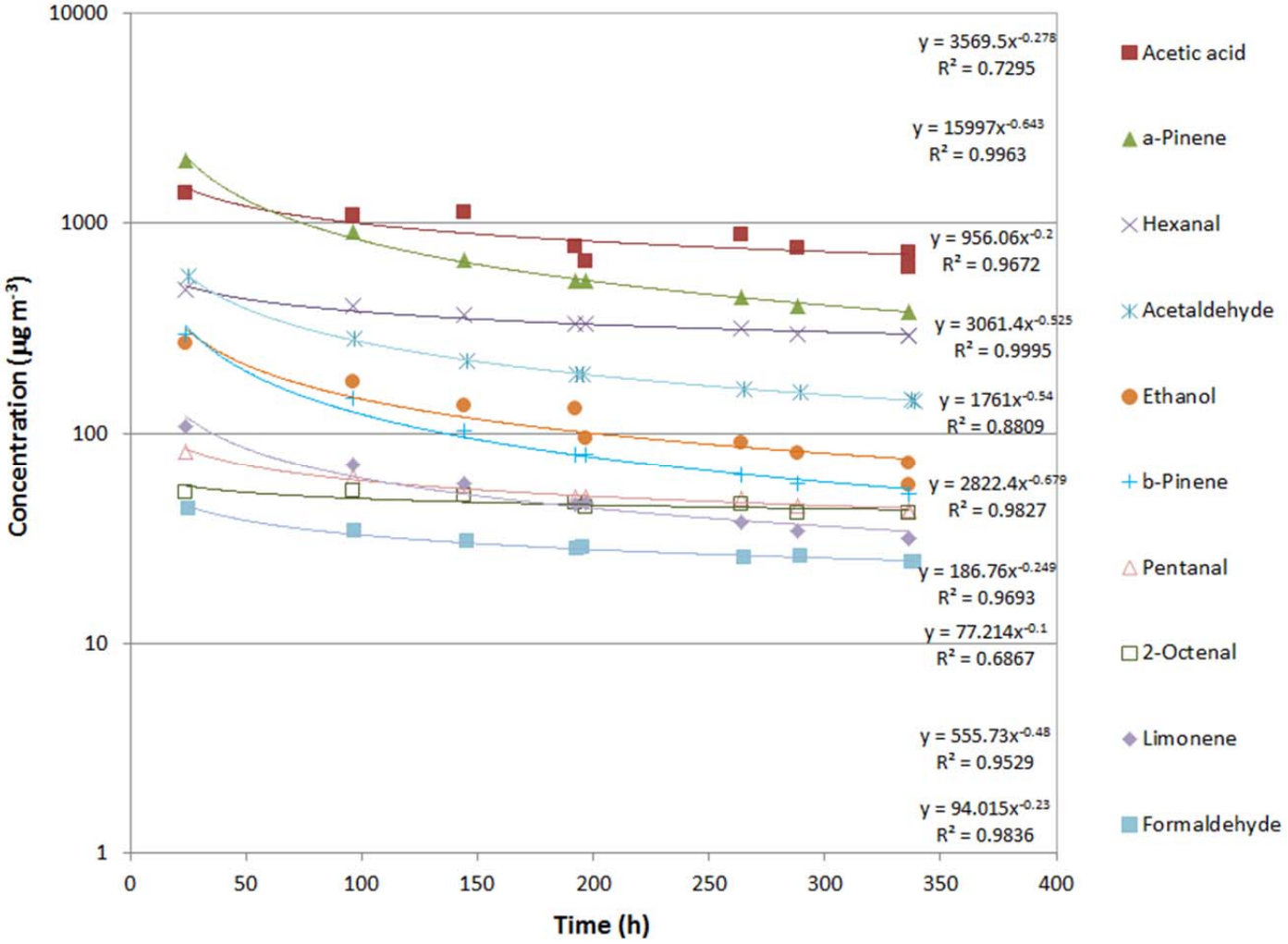

Figure B. 1 Chamber concentrations for 10 major compounds emitted from "Structural: I-joist, OSB web (test: IJ)"

Table B. 26 Emission factors for 20 major compounds emitted from "Flooring: sub, panel-type, OSB (test: OSB-SF)"

VOC	CAS	Class I	Class II	Nominal emission factors (µg m^{-2} h^{-1})		
				1 day	8 days	14 days
Acetic acid	64-19-7	Target	Acids	2245.4	1791.7	1686.1
Hexanal	66-25-1	Target	Aldehydes	417.4	293.1	266.6
Pentanal	110-62-3	Target	Aldehydes	82.8	68.8	65.5
Acetone	67-64-1	Target	Ketones	92.5	68.0	62.6
1-Pentanol	71-41-0	Non-target	Alcohols, Glycols, GlycoEthers	30.4	28.1	27.5
Acetaldehyde	75-07-0	Target	Aldehydes	82.3	25.7	18.8
2-Octenal	2548-87-0	Target	Aldehydes	24.7	22.5	21.9
2-Propanamine, 2-methyl-	3777-69-3	Target	Other	37.0	16.4	13.1
Propanal	123-38-6	Target	Aldehydes	42.6	15.5	11.8
1-Butanol	71-36-3	Target	Alcohols, Glycols, GlycoEthers	16.6	13.9	13.2
Hexanoic acid	142-62-1	Target	Acids	59.3	13.4	9.0
Methyl acetate	79-20-9	Non-target	Esters	31.4	13.4	10.6
Fufural	98-01-1	Target	Aldehydes	9.9	7.9	7.4
Butanal	123-72-8	Target	Aldehydes	6.2	6.5	6.6
Ethanol	64-17-5	Target	Alcohols, Glycols, GlycoEthers	12.8	5.8	4.7
Pentanoic acid	109-52-4	Target	Acids	19.3	5.8	4.2
Formaldehyde	50-00-0	Target	Aldehydes	6.0	5.3	5.1
2-Butanone	78-93-3	Target	Ketones	7.9	4.7	4.1
2-Ethyl-1-hexanol	104-76-7	Target	Alcohols, Glycols, GlycoEthers	6.8	4.3	3.8
Isopropyl Alcohol	67-63-0	Target	Alcohols, Glycols, GlycoEthers	7.3	4.1	3.6

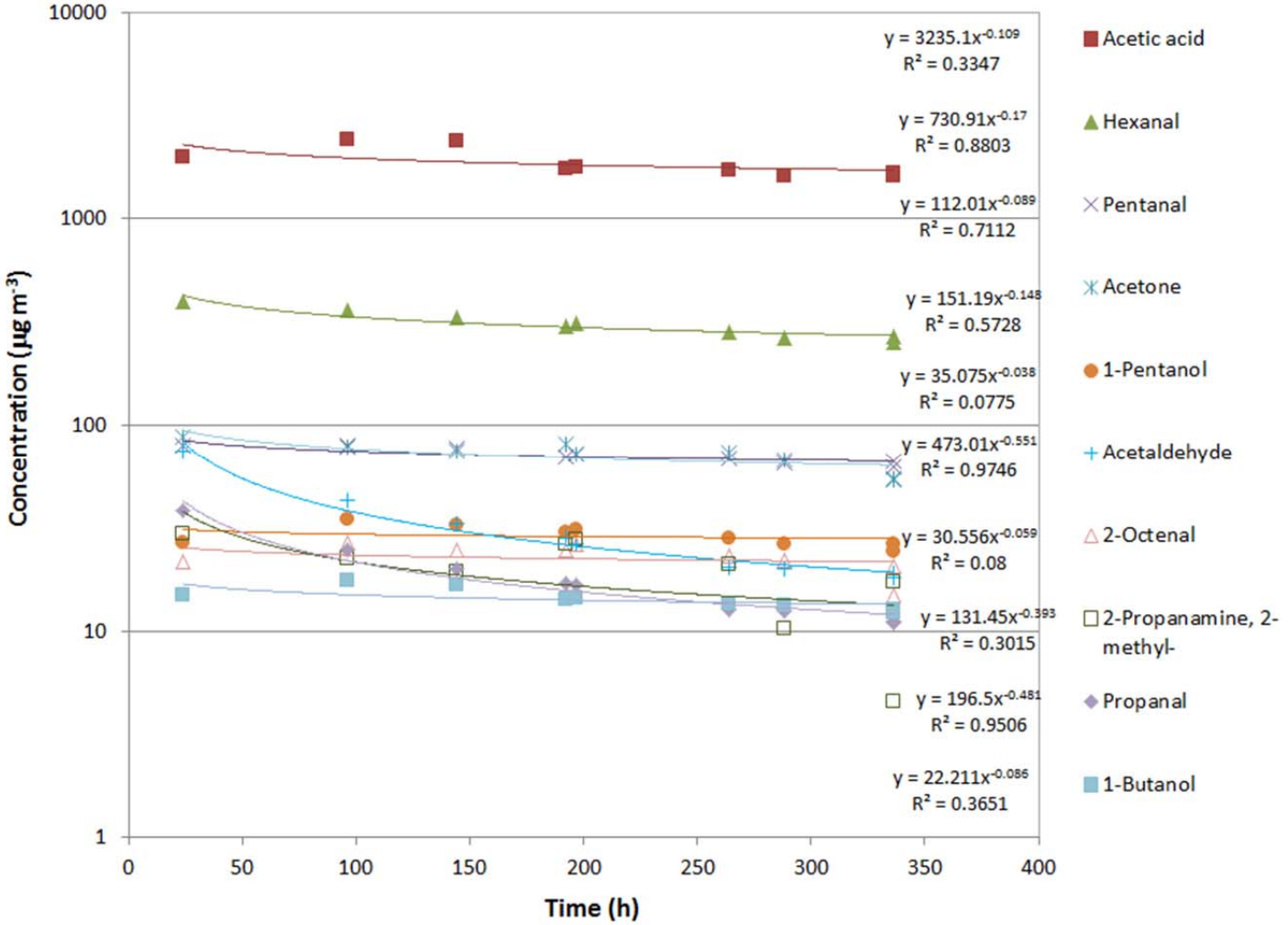

Figure B. 2 Chamber concentrations for 10 major compounds emitted from "Flooring: sub, panel-type, OSB (test: OSB-SF)"

Table B. 27 Emission factors for 20 major compounds emitted from "Flooring: underlay, plywood (test: Ply-UL)"

VOC	CAS	Class I	Class II	Nominal emission factors (µg m^{-2} h^{-1})		
				1 day	8 days	14 days
Acetone	67-64-1	Target	Ketones	12.8	14.0	14.3
Hexanal	66-25-1	Target	Aldehydes	10.0	11.5	12.0
Acetaldehyde	75-07-0	Target	Aldehydes	16.8	8.9	7.5
a-Pinene	80-56-8	Target	Terpenes	9.4	3.6	2.7
Formaldehyde	50-00-0	Target	Aldehydes	5.3	2.8	2.3
Pentanal	110-62-3	Target	Aldehydes	1.9	2.5	2.8
Limonene	138-86-3	Target	Terpenes	2.9	2.0	1.8
Fufural	98-01-1	Target	Aldehydes	1.6	1.6	1.6
Methyl acetate	79-20-9	Non-target	Esters	0.7	0.7	0.7
1-Butanol	71-36-3	Target	Alcohols, Glycols, GlycoEthers	0.5	0.5	0.6
2-Ethyl-1-hexanol	104-76-7	Target	Alcohols, Glycols, GlycoEthers	1.4	0.5	0.4
Butanal	123-72-8	Target	Aldehydes	0.2	0.4	0.5
Hexanoic acid	142-62-1	Target	Acids	0.7	0.4	0.4
2-Propanamine, 2-methyl-	3777-69-3	Target	Other	0.4	0.4	0.5
b-Pinene	127-91-3	Target	Terpenes	0.9	0.4	0.3
Isopropyl Alcohol	67-63-0	Target	Alcohols, Glycols, GlycoEthers	0.2	0.4	0.5
Furan	110-00-9	Non-target	Other	0.7	0.4	0.3
1-Pentanol	71-41-0	Non-target	Alcohols, Glycols, GlycoEthers	0.4	0.4	0.4
Propanal	123-38-6	Target	Aldehydes	0.9	0.3	0.3
2-Butanone	78-93-3	Target	Ketones	0.2	0.3	0.3

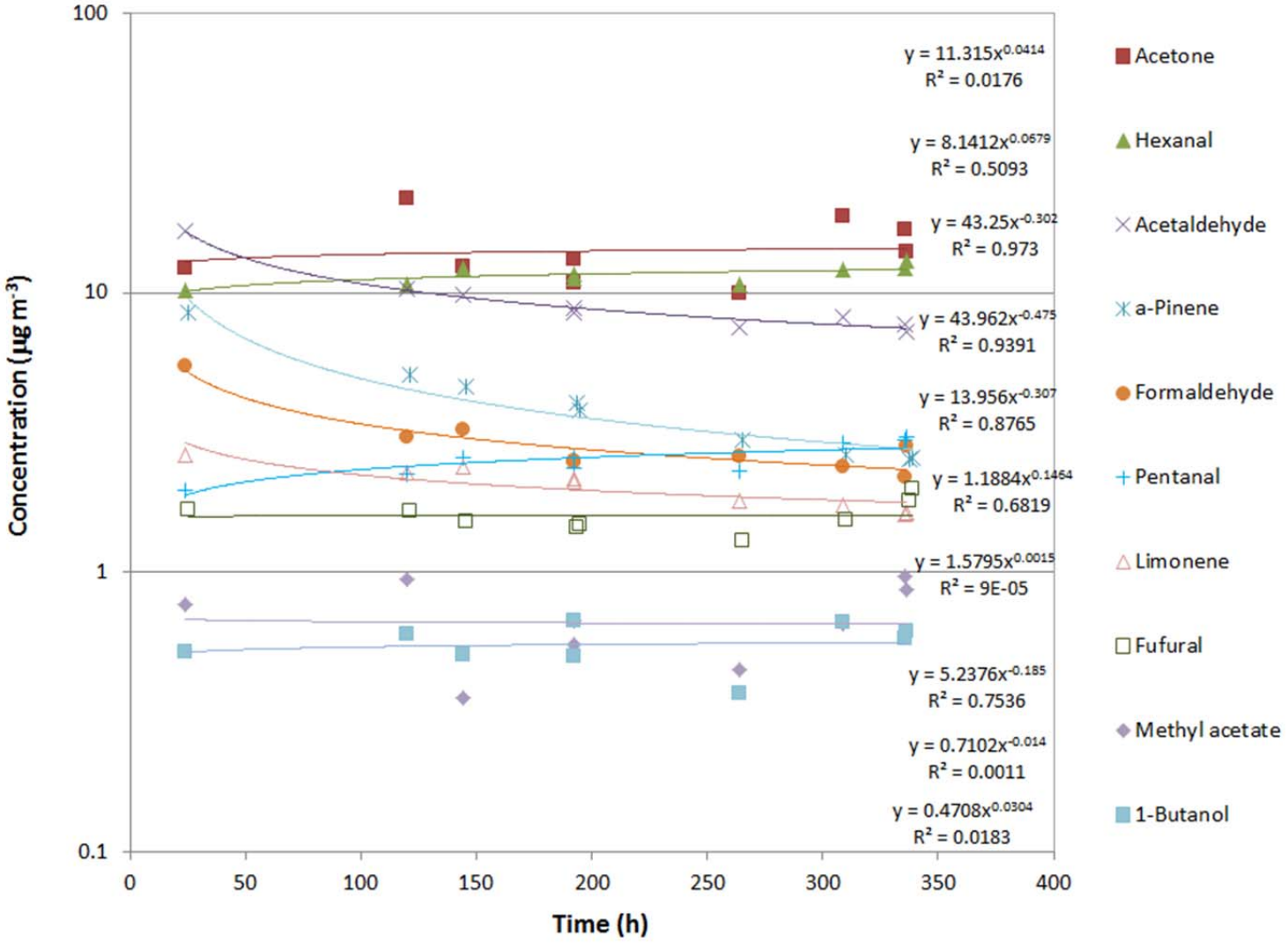

Figure B. 3 Chamber concentrations for 10 major compounds emitted from "Flooring: underlay, plywood (test: Ply-UL)"

Table B. 28 Emission factors for 20 major compounds emitted from "Flooring: red oak veneer, pine core (test: HWF1)"

VOC	CAS	Class I	Class II	Nominal emission factors (μg m^{-2} h^{-1})		
				1 day	8 days	14 days
a-Pinene	80-56-8	Target	Terpenes	8158.5	6419.0	6017.9
b-Pinene	127-91-3	Target	Terpenes	739.5	489.8	438.4
3-Carene	13466-78-9	Target	Terpenes	302.6	208.6	188.7
Limonene	138-86-3	Target	Terpenes	203.5	193.6	191.0
Camphene	79-92-5	Target	Terpenes	151.0	120.7	113.7
Acetone	67-64-1	Target	Ketones	74.2	36.7	30.4
Isopropyltoluene	99-87-6	Target	Hydrocarbons-Aromatic	18.4	20.8	21.5
Acetic acid	64-19-7	Target	Acids	20.1	18.2	17.7
Benzaldehyde	100-52-7	Target	Aldehydes	21.2	12.9	11.3
Cyclohexanone	108-94-1	Target	Ketones	13.8	7.8	6.7
Propanal	123-38-6	Target	Aldehydes	0.0	5.5	187.2
Toluene	108-88-3	Target	Hydrocarbons-Aromatic	5.7	4.8	4.6
Ethanol	64-17-5	Target	Alcohols, Glycols, GlycoEthers	1.7	2.6	2.9
alpha-Terpinene	99-86-5	Target	Terpenes	2.1	2.3	2.3
gamma-Terpinene	99-85-4	Target	Terpenes	1.8	1.6	1.6
Naphthalene	91-20-3	Target	Hydrocarbons-Aromatic	1.1	0.9	0.8
Benzene, 1,2,4-trimethyl	95-63-6	Target	Hydrocarbons-Aromatic	1.1	0.8	0.8
Acetophenone	98-86-2	Target	Ketones	2.2	0.8	0.6
Fufural	98-01-1	Target	Aldehydes	0.8	0.7	0.7
1-Butanol	71-36-3	Target	Alcohols, Glycols, GlycoEthers	0.4	0.6	0.7

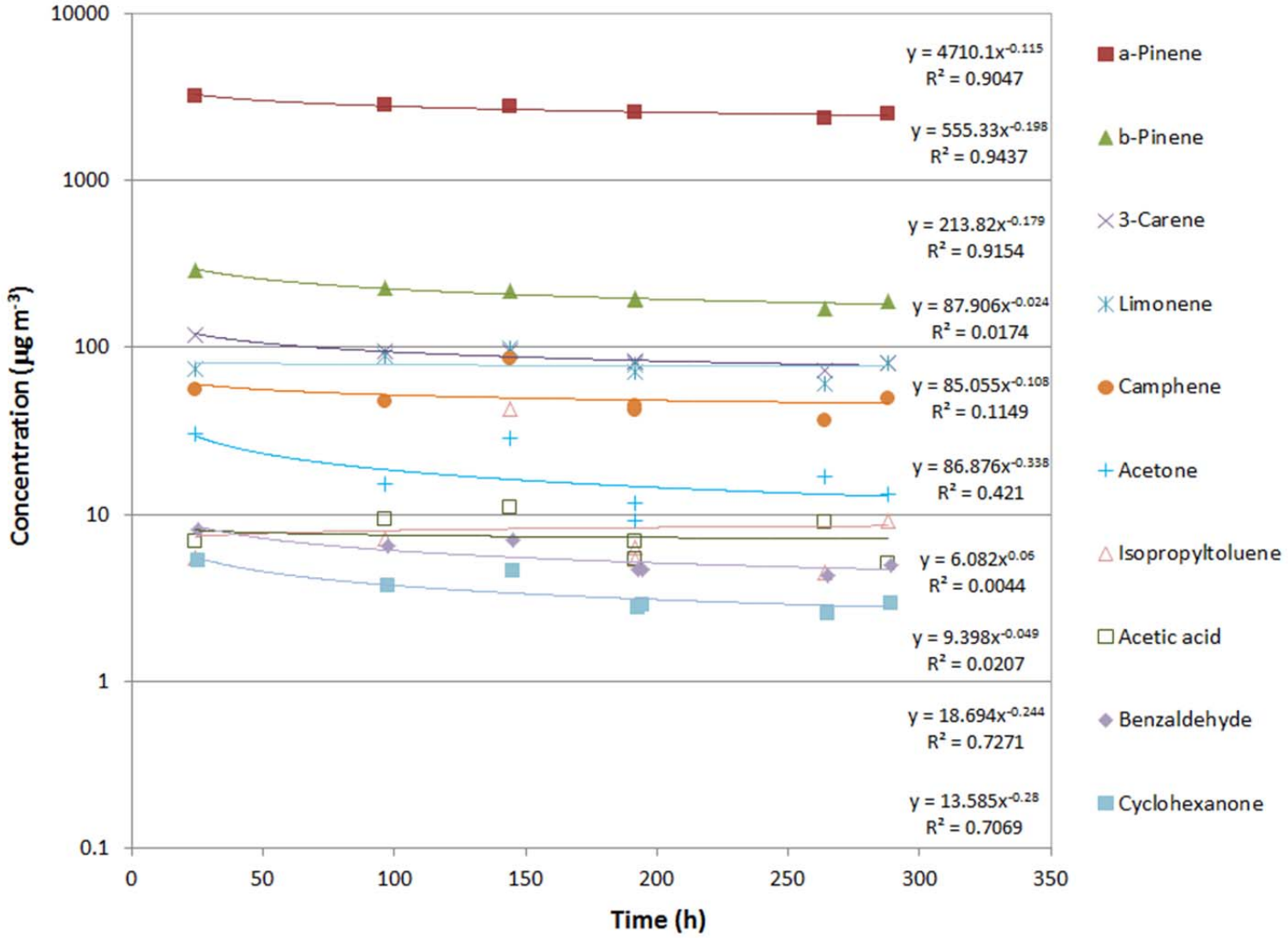

Figure B. 4 Chamber concentrations for 10 major compounds emitted from "Flooring: red oak veneer, pine core (test: HWF1)"

Table B. 29 Emission factors for 20 major compounds emitted from "Flooring: white oak veneer, oak core (test: HWF2)"

VOC	CAS	Class I	Class II	Nominal emission factors (μg m^{-2} h^{-1})		
				1 day	8 days	14 days
Benzophenone	119-61-9	Non-target	Ketones	134.1	82.8	72.7
Acetic acid	64-19-7	Target	Acids	8.8	26.2	35.1
1-Ethyl-2-pyrrolidinone	2687-91-4	Non-target	Other	43.9	21.1	17.3
Acetaldehyde	75-07-0	Target	Aldehydes	35.5	20.2	17.4
Benzaldehyde	100-52-7	Target	Aldehydes	48.3	17.7	13.5
Cyclohexanone	108-94-1	Target	Ketones	25.4	15.5	13.5
Propanal	123-38-6	Target	Aldehydes	3.5	8.2	10.2
Acetone	67-64-1	Target	Ketones	6.2	4.4	4.0
Methane, dimethoxy-	109-87-5	Non-target	Other	6.0	4.3	4.0
Styrene	100-42-5	Target	Hydrocarbons-Aromatic	4.1	3.3	3.1
Diacetone alcohol	123-42-2	Non-target	Alcohols, Glycols, GlycoEthers	4.9	3.1	2.7
1,3-Dimethylbenzene	108-38-3, 106-42-3	Target	Hydrocarbons-Aromatic	3.3	2.6	2.4
Fufural	98-01-1	Target	Aldehydes	3.2	2.3	2.1
Acetic acid, butyl ester	123-86-4	Target	Esters	1.9	1.7	1.6
2-Butanone	78-93-3	Target	Ketones	0.7	1.4	1.6
Toluene	108-88-3	Target	Hydrocarbons-Aromatic	1.6	1.3	1.2
Ethyl acetate	141-78-6	Target	Esters	0.6	0.9	1.1
Ethylbenzene	100-41-4	Target	Hydrocarbons-Aromatic	1.1	0.9	0.8
Benzene, 1,2-dimethyl	95-47-6	Target	Hydrocarbons-Aromatic	1.1	0.8	0.8
Phenol	108-95-2	Target	Alcohols, Glycols, GlycoEthers	2.1	0.4	0.3

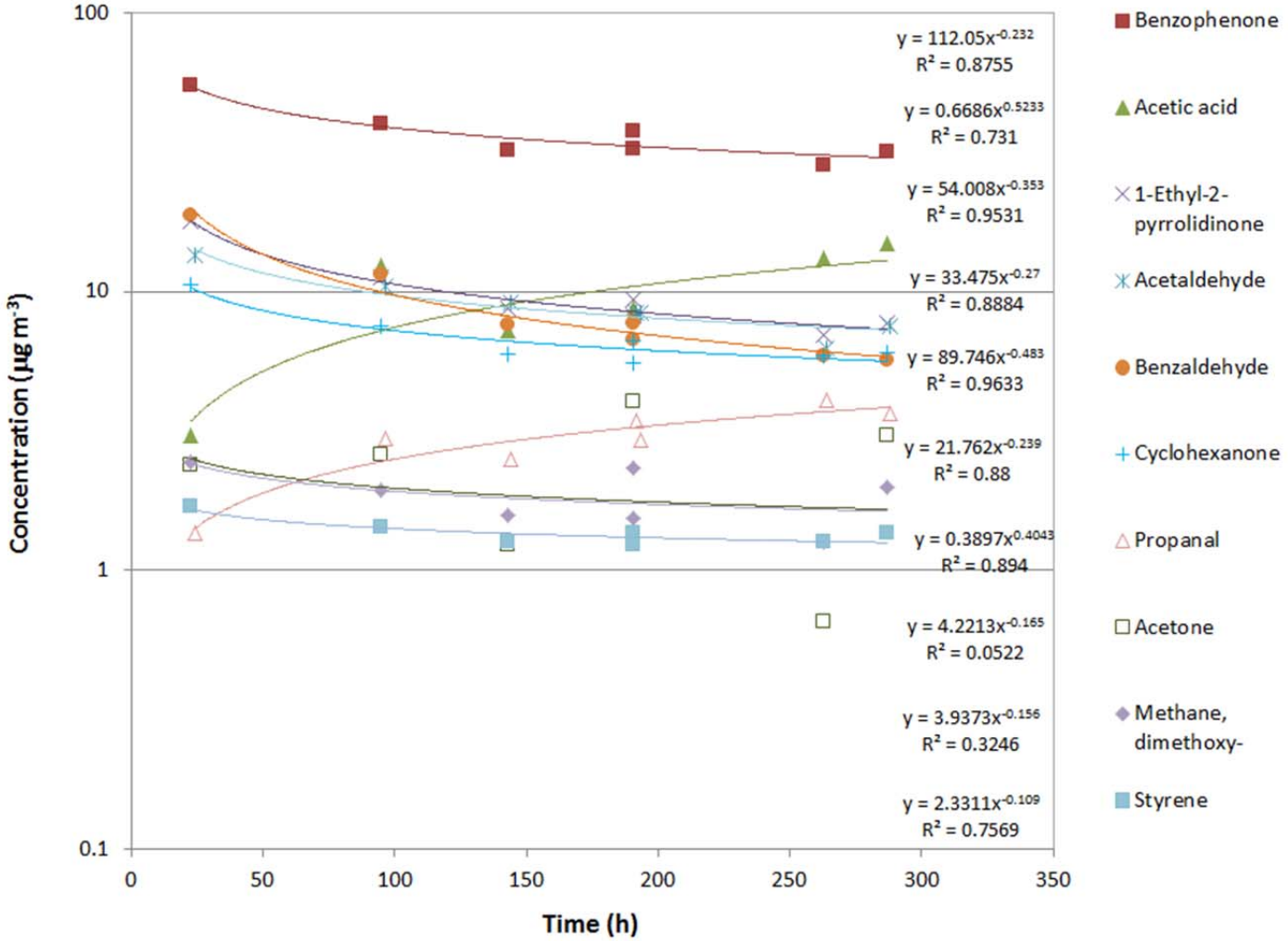

Figure B. 5 Chamber concentrations for 10 major compounds emitted from "Flooring: white oak veneer, oak core (test: HWF2)"

Table B. 30 Emission factors for 20 major compounds emitted from "Flooring: carpet, polyester (test: Carp)"

VOC	CAS	Class I	Class II	Nominal emission factors (μg m^{-2} h^{-1})		
				1 day	8 days	14 days
C14 Alkene 1	N/A	Non-target	Hydrocarbons-Aliphatic	9.6	5.3	4.5
4-Phenylcyclohexene	4994-16-5	Target	Hydrocarbons-Aromatic	10.2	4.4	3.6
C14 Alkene 2	N/A	Non-target	Hydrocarbons-Aliphatic	7.4	4.3	3.8
Benzaldehyde	100-52-7	Target	Aldehydes	10.1	3.4	2.5
C14 Alkene 3	N/A	Non-target	Hydrocarbons-Aliphatic	3.7	2.1	1.9
N,N-Dimethyl acetamide	127-19-5	Non-target	Other	12.9	1.9	1.1
Acetophenone	98-86-2	Target	Ketones	3.8	1.7	1.4
Tetradecane	629-59-4	Target	Hydrocarbons-Aliphatic	1.3	0.7	0.5
Acetaldehyde	75-07-0	Target	Aldehydes	81.8	0.6	0.2
Styrene	100-42-5	Target	Hydrocarbons-Aromatic	0.9	0.3	0.2
Acetone	67-64-1	Target	Ketones	5.0	0.1	0.0
Isopropyltoluene	99-87-6	Target	Hydrocarbons-Aromatic	0.2	0.1	0.1
Benzene	71-43-2	Target	Hydrocarbons-Aromatic	22.1	0.0	0.0
Phenol	108-95-2	Target	Alcohols, Glycols, GlycoEthers	6.8	0.0	0.0
1,4-Dioxane	123-91-1	Target	Other	0.0	0.0	0.0
Camphene	79-92-5	Target	Terpenes	4.3	0.0	0.0
Benzene, propyl-	103-65-1	Target	Hydrocarbons-Aromatic	3.0	0.0	0.0
Propylene Glycol	57-55-6	Target	Alcohols, Glycols, GlycoEthers	102.2	0.0	0.0
Cyclohexane	110-82-7	Target	CycloAlkanes	0.0	0.0	0.0
Benzene, 1,2,4-trimethyl	95-63-6	Target	Hydrocarbons-Aromatic	17.4	0.0	0.0

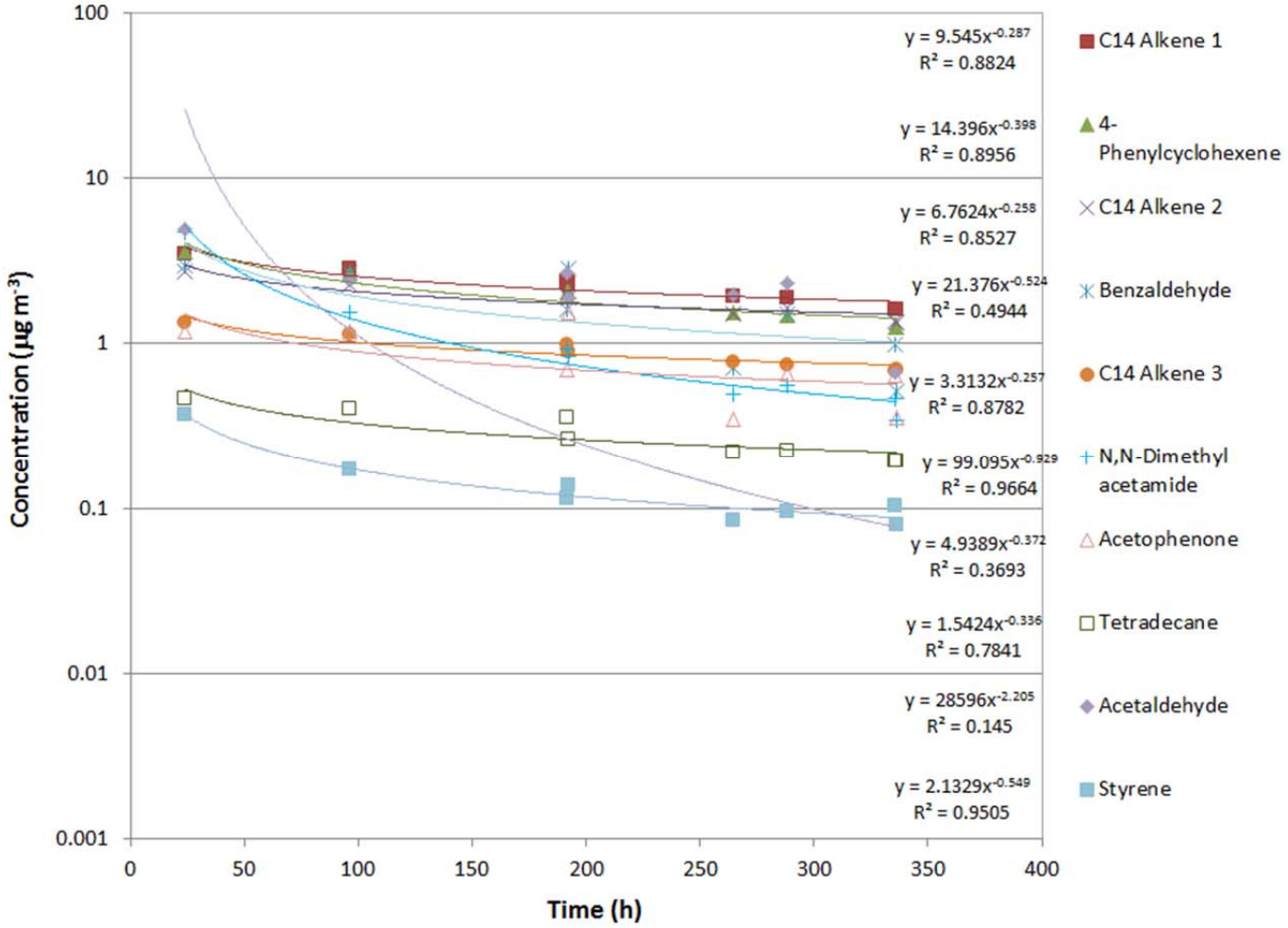

Figure B. 6 Chamber concentrations for 10 major compounds emitted from "Flooring: carpet, polyester (test: Carp)"

Table B. 31 Emission factors for 20 major compounds emitted from "Flooring assembly: ceramic tile-adhesive-plywood-OSB (test: Ceram)"

VOC	CAS	Class I	Class II	Nominal emission factors (μg m^{-2} h^{-1})		
				1 day	8 days	14 days
C11 branched chain hydrocarbon 2	N/A	Non-target	Hydrocarbons-Aliphatic	118.8	369.7	501.7
Acetic acid	64-19-7	Target	Acids	392.7	197.1	163.7
C12 branched chain hydrocarbon 1	N/A	Non-target	Hydrocarbons-Aliphatic	35.5	140.5	203.6
C11 branched chain hydrocarbon 4	N/A	Non-target	Hydrocarbons-Aliphatic	33.6	133.2	192.9
Hexanal	66-25-1	Target	Aldehydes	111.0	123.5	127.1
C12 branched chain hydrocarbon 3	N/A	Non-target	Hydrocarbons-Aliphatic	29.6	121.6	177.9
C11 branched chain hydrocarbon 5	N/A	Non-target	Hydrocarbons-Aliphatic	24.5	92.5	132.2
C11 branched chain hydrocarbon 3	N/A	Non-target	Hydrocarbons-Aliphatic	19.3	76.8	111.4
C12 branched chain hydrocarbon 4	N/A	Non-target	Hydrocarbons-Aliphatic	16.6	60.8	86.2
C11 branched chain hydrocarbon 6	N/A	Non-target	Hydrocarbons-Aliphatic	13.6	53.6	77.6
C12 branched chain hydrocarbon 5	N/A	Non-target	Hydrocarbons-Aliphatic	11.4	44.3	63.8
C11 branched chain hydrocarbon 7	N/A	Non-target	Hydrocarbons-Aliphatic	10.3	42.5	62.3
C12 branched chain hydrocarbon 2	N/A	Non-target	Hydrocarbons-Aliphatic	10.2	41.9	61.2
C11 branched chain hydrocarbon 1	N/A	Non-target	Hydrocarbons-Aliphatic	13.3	41.0	55.5
Acetaldehyde	75-07-0	Target	Aldehydes	47.3	30.6	27.3
Pentanal	110-62-3	Target	Aldehydes	18.7	29.4	33.2
C12 branched chain hydrocarbon 6	N/A	Non-target	Hydrocarbons-Aliphatic	7.4	27.5	39.2
Acetone	67-64-1	Target	Ketones	31.4	23.5	21.7
Propanal	123-38-6	Target	Aldehydes	19.2	19.1	19.1
a-Pinene	80-56-8	Target	Terpenes	15.8	17.5	17.9

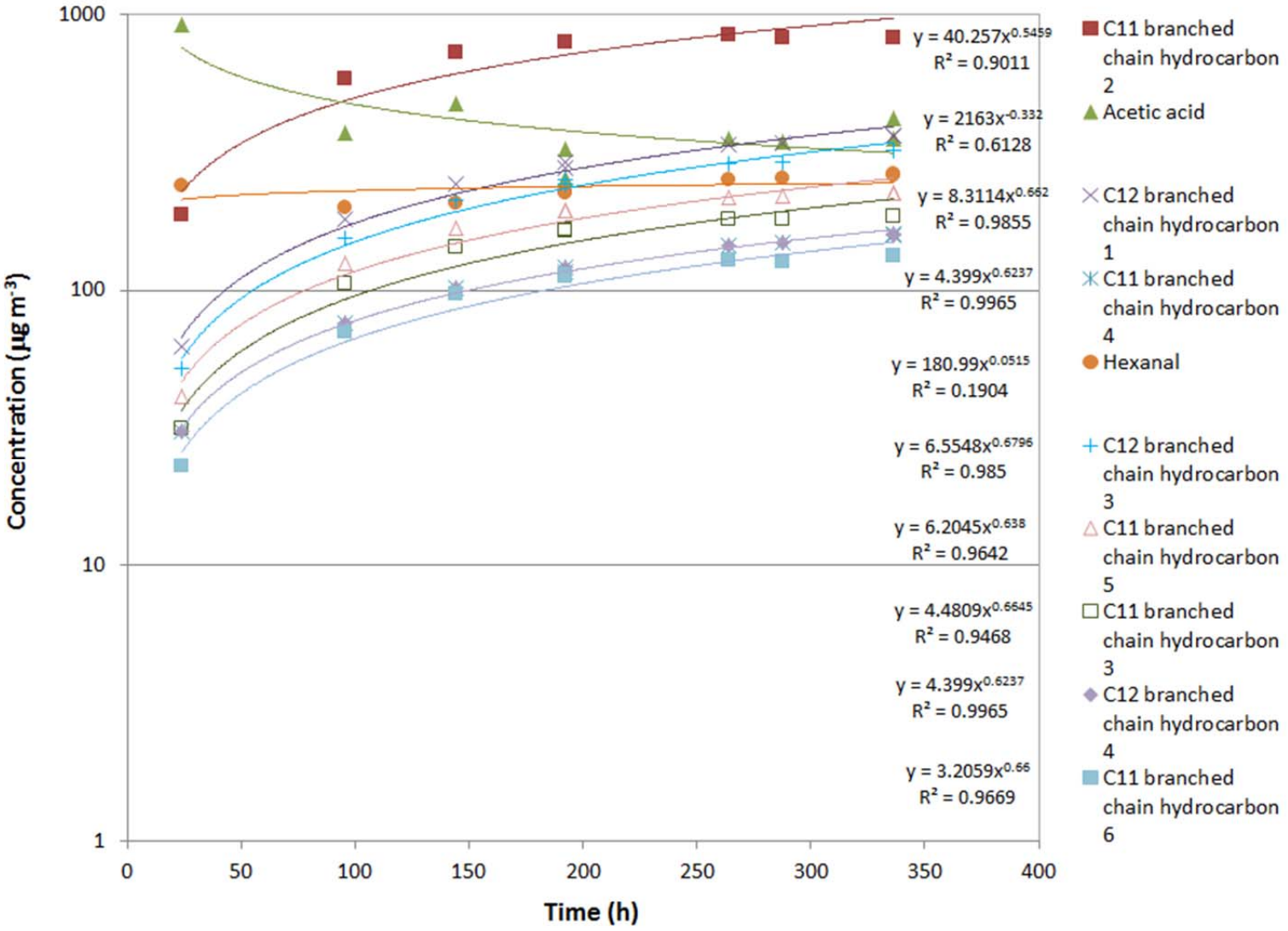

Figure B. 7 Chamber concentrations for 10 major compounds emitted from "Flooring assembly: ceramic tile-adhesive-plywood-OSB (test: Ceram)"

Table B. 32 Emission factors for 20 major compounds emitted from "Trim: baseboard, MDF, 5.5", primed (test: MDF-bbt1)"

VOC	CAS	Class I	Class II	Nominal emission factors (µg m^{-2} h^{-1})		
				1 day	8 days	14 days
Acetic acid	64-19-7	Target	Acids	222.8	211.6	208.7
Formaldehyde	50-00-0	Target	Aldehydes	48.7	48.4	48.3
Hexanal	66-25-1	Target	Aldehydes	80.7	44.6	38.1
Acetone	67-64-1	Target	Ketones	87.9	33.3	25.6
Ester 2	N/A	Non-target	Esters	48.9	23.8	19.6
Ethanol, 2-(2-butoxyethoxy)-, acetate	124-17-4	Non-target	Alcohols, Glycols, GlycoEthers	19.4	13.2	12.0
Ester 1	N/A	Non-target	Esters	25.0	13.1	11.0
Fufural	98-01-1	Target	Aldehydes	14.1	11.8	11.2
Benzaldehyde	100-52-7	Target	Aldehydes	22.1	10.4	8.5
Terpene	N/A	Non-target	Terpenes	15.6	9.2	8.0
Acetaldehyde	75-07-0	Target	Aldehydes	15.9	8.3	7.0
2-Octenal	2548-87-0	Target	Aldehydes	10.5	7.8	7.2
Pentanal	110-62-3	Target	Aldehydes	7.1	5.2	4.8
Hexanoic acid	142-62-1	Target	Acids	6.4	3.3	2.7
Isopropyl Alcohol	67-63-0	Target	Alcohols, Glycols, GlycoEthers	5.4	2.2	1.7
1-Butanol	71-36-3	Target	Alcohols, Glycols, GlycoEthers	2.6	1.8	1.6
Nonanal	124-19-6	Target	Aldehydes	2.8	1.6	1.4
Hexamethyl cyclotrisiloxane	541-05-9	Non-target	Other	2.4	1.5	1.3
Propanoic acid, 2-methyl-	79-31-2	Target	Acids	2.3	1.3	1.2
1-Pentanol	71-41-0	Non-target	Alcohols, Glycols, GlycoEthers	3.0	1.2	0.9

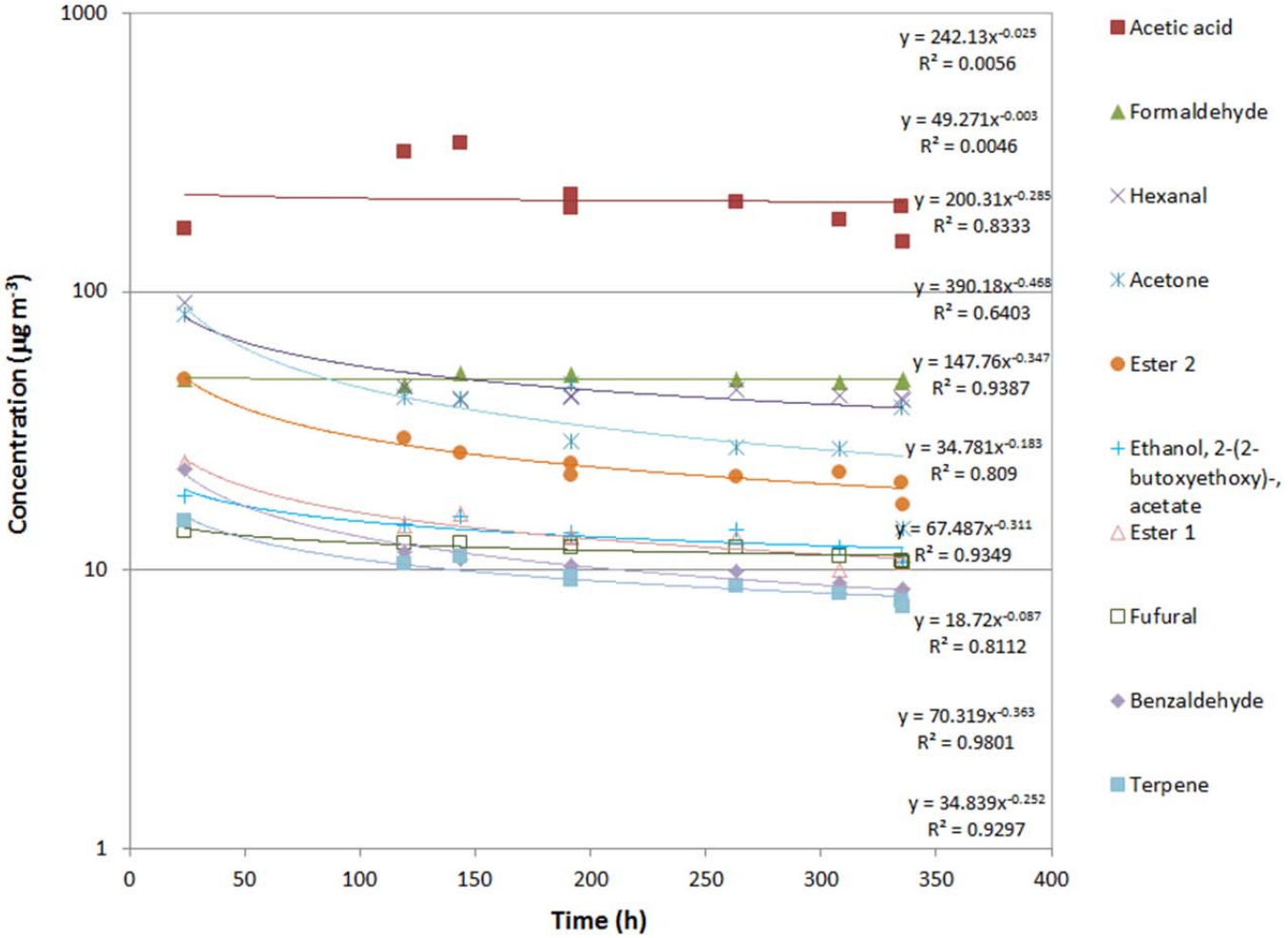

Figure B. 8 Chamber concentrations for 10 major compounds emitted from "Trim: baseboard, MDF, 5.5", primed (test: MDF-bbt1)"

Table B. 33 Emission factors for 20 major compounds emitted from "Trim: baseboard, MDF, 1.5", primed (test: MDF-bbt2)"

VOC	CAS	Class I	Class II	Nominal emission factors (μg m^{-2} h^{-1})		
				1 day	8 days	14 days
Acetic acid	64-19-7	Target	Acids	821.7	1085.0	1169.3
Hexanoic acid	142-62-1	Target	Acids	519.9	248.7	204.0
Hexanal	66-25-1	Target	Aldehydes	458.0	194.6	154.6
Acetone	67-64-1	Target	Ketones	290.6	128.9	103.6
Formaldehyde	50-00-0	Target	Aldehydes	84.9	94.8	97.7
Pentanoic acid	109-52-4	Target	Acids	137.2	44.3	32.7
Ethanol, 2-butoxy-	111-76-2	Target	Alcohols, Glycols, GlycoEthers	146.6	41.5	29.6
Acetaldehyde	75-07-0	Target	Aldehydes	109.3	38.3	28.9
Pentanal	110-62-3	Target	Aldehydes	66.7	33.7	28.0
2-Octenal	2548-87-0	Target	Aldehydes	25.6	24.9	24.7
2,2,4-Trimethyl-1,3-pentanediol isobutyrate	25265-77-4	Target	Esters	37.4	18.1	14.9
Propanoic acid, 2-methyl-	79-31-2	Target	Acids	72.5	11.3	6.8
Benzaldehyde	100-52-7	Target	Aldehydes	49.9	10.7	7.1
Ester	N/A	Non-target	Esters	17.5	9.8	8.4
2-Decenal	3913-81-3	Target	Aldehydes	10.9	9.5	9.2
Cyclohexanone	108-94-1	Target	Ketones	30.7	9.2	6.7
Isopropyl Alcohol	67-63-0	Target	Alcohols, Glycols, GlycoEthers	41.4	9.0	5.9
Phenol	108-95-2	Target	Alcohols, Glycols, GlycoEthers	14.8	8.1	6.9
Nonanal	124-19-6	Target	Aldehydes	12.0	7.9	7.1
Heptanoic acid	111-14-8	Target	Acids	9.6	6.7	6.0

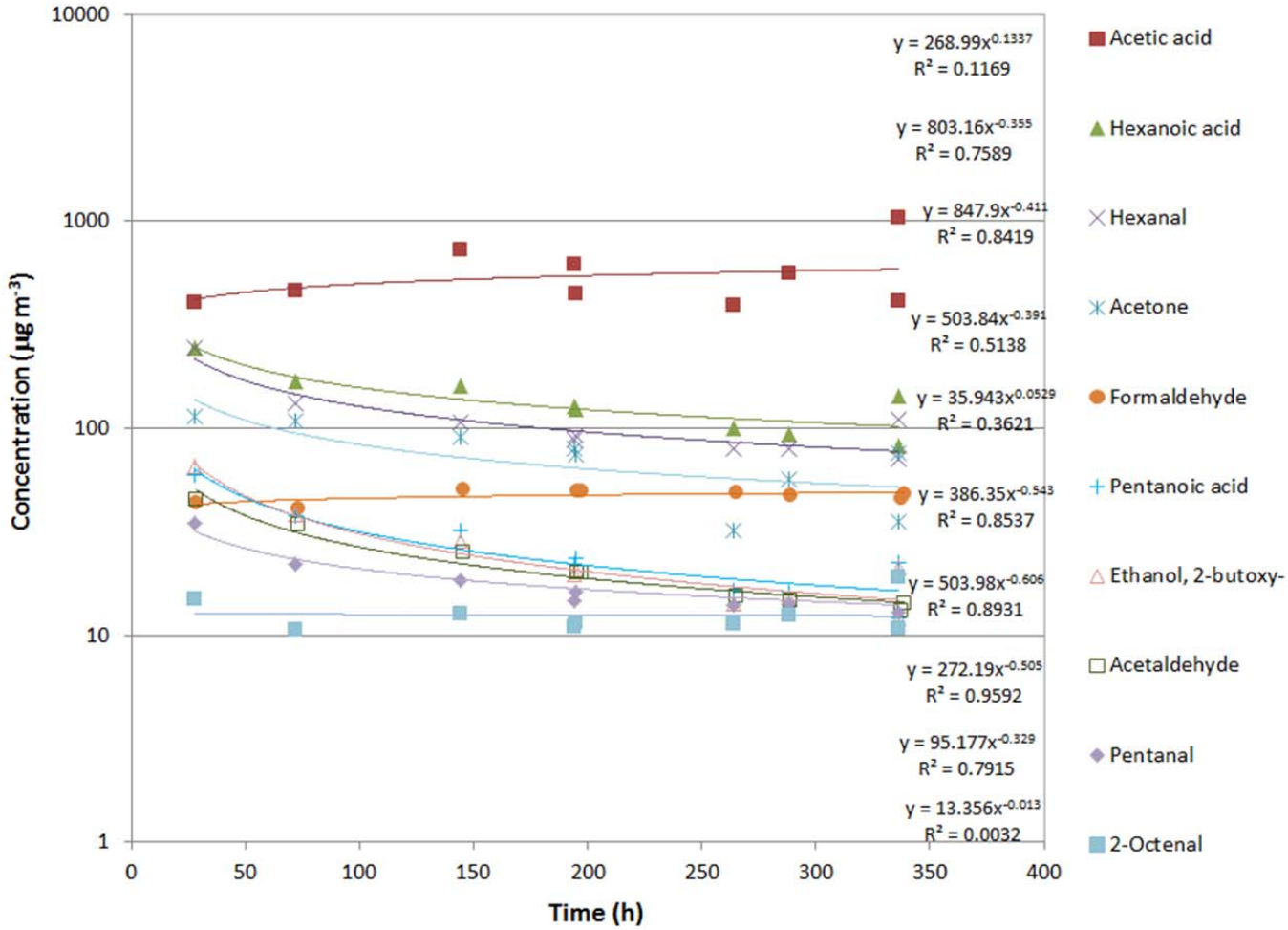

Figure B. 9 Chamber concentrations for 10 major compounds emitted from "Trim: baseboard, MDF, 1.5", primed (test: MDF-bbt2)"

Table B. 34 Emission factors for 20 major compounds emitted from "Trim: baseboard, MDF, 1.5", painted (test: MDF-bbt3)"

VOC	CAS	Class I	Class II	Nominal emission factors (μg m^{-2} h^{-1})		
				1 day	8 days	14 days
2,2,4-Trimethyl-1,3-pentanediol isobutyrate	25265-77-4	Target	Esters	659.7	826.6	878.3
Acetic acid	64-19-7	Target	Acids	260.3	231.0	223.7
Propylene Glycol	57-55-6	Target	Alcohols, Glycols, GlycoEthers	45.9	202.2	301.3
Acetone	67-64-1	Target	Ketones	69.8	66.5	65.7
Ethanol, 2-butoxy-	111-76-2	Target	Alcohols, Glycols, GlycoEthers	64.7	64.7	64.7
Hexanoic acid	142-62-1	Target	Acids	71.7	63.8	61.8
Hexanal	66-25-1	Target	Aldehydes	55.3	50.7	49.5
Formaldehyde	50-00-0	Target	Aldehydes	31.8	28.2	27.3
Acetaldehyde	75-07-0	Target	Aldehydes	21.0	19.2	18.7
Cyclohexanone	108-94-1	Target	Ketones	16.6	16.6	16.6
Pentanoic acid	109-52-4	Target	Acids	13.5	11.7	11.2
Propanoic acid, 2-methyl-	79-31-2	Target	Acids	11.0	10.0	9.7
Pentanal	110-62-3	Target	Aldehydes	10.3	9.7	9.6
Benzaldehyde	100-52-7	Target	Aldehydes	8.2	7.4	7.2
Nonanal	124-19-6	Target	Aldehydes	7.2	6.6	6.4
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	Target	Esters	4.6	5.4	5.7
Phenol	108-95-2	Target	Alcohols, Glycols, GlycoEthers	4.9	4.6	4.5
Hexamethyl cyclotrisiloxane	541-05-9	Non-target	Other	4.3	4.0	3.9
2-Octenal	2548-87-0	Target	Aldehydes	4.1	3.9	3.8
Isopropyl Alcohol	67-63-0	Target	Alcohols, Glycols, GlycoEthers	3.9	3.6	3.5

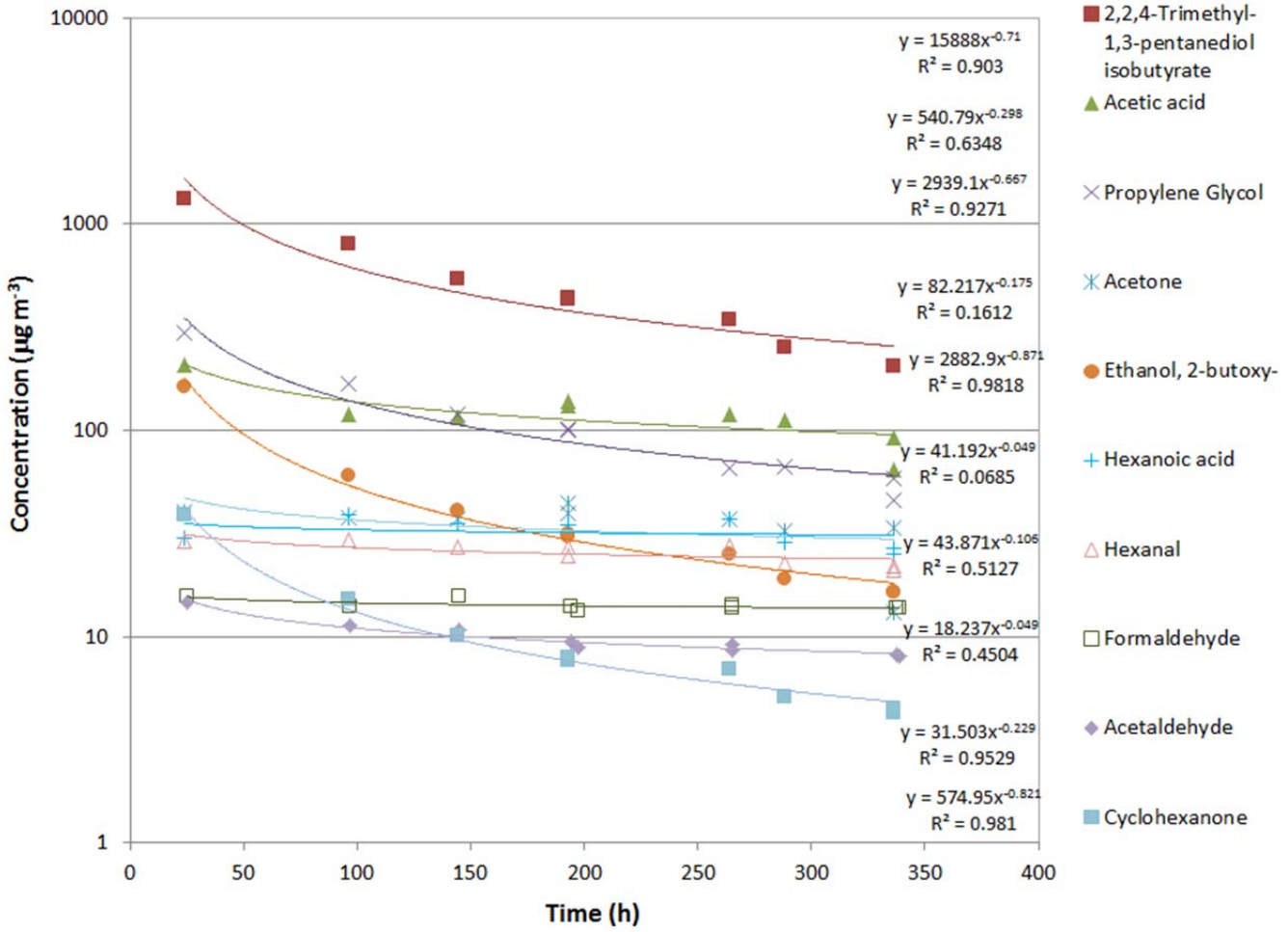

Figure B. 10 Chamber concentrations for 10 major compounds emitted from "Trim: baseboard, MDF, 1.5", painted (test: MDF-bbt3)"

Table B. 35 Emission factors for 20 major compounds emitted from "Finishing: caulk, latex (test: Caulk)"

VOC	CAS	Class I	Class II	Nominal Emission factors (μg m^{-2} h^{-1})		
				1 day	8 days	14 days
1,2-Ethanediol	107-21-1	Target	Alcohols, Glycols, GlycoEthers	28814.0	13069.8	10565.1
Propanoic acid, 2-methyl-, 2-ethyl-3-hydroxyhexyl ester	74367-31-0	Non-target	Esters	15329.9	5058.5	3753.5
Ester	N/A	Non-target	Esters	6477.1	2137.4	1586.0
2-Propanol, 2-methyl	75-65-0	Target	Alcohols, Glycols, GlycoEthers	17693.5	1282.3	632.8
Ethanol	64-17-5	Target	Alcohols, Glycols, GlycoEthers	13627.4	752.6	345.2
Acetone	67-64-1	Target	Ketones	3901.8	517.6	300.5
Propanoic acid, ethyl ester	105-37-3	Non-target	Esters	1032.6	155.4	93.4
2-Ethyl-1-hexanol	104-76-7	Target	Alcohols, Glycols, GlycoEthers	611.3	89.3	53.2
Ethyl acetate	141-78-6	Target	Esters	547.1	62.7	35.0
Decane	124-18-5	Target	Hydrocarbons-Aliphatic	233.2	51.8	34.6
Nonane	111-84-2	Target	Hydrocarbons-Aliphatic	224.3	50.7	34.0
Acetic acid, 2-ethylhexyl ester	103-09-3	Target	Esters	240.9	42.0	26.2
1-Butanol	71-36-3	Target	Alcohols, Glycols, GlycoEthers	259.0	26.6	14.4
Isopropyl Alcohol	67-63-0	Target	Alcohols, Glycols, GlycoEthers	156.9	21.2	12.4
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	Target	Esters	35.3	18.0	15.0
n-Butyl ether	142-96-1	Target	Other	87.4	17.5	11.3
Propylcyclohexane	1678-92-8	Target	CycloAlkanes	50.6	11.1	7.4
Undecane	1120-21-4	Target	Hydrocarbons-Aliphatic	41.6	10.6	7.4
Fufural	98-01-1	Target	Aldehydes	43.8	10.3	7.0
Butylcyclohexane	1678-93-9	Target	CycloAlkanes	30.2	6.6	4.4

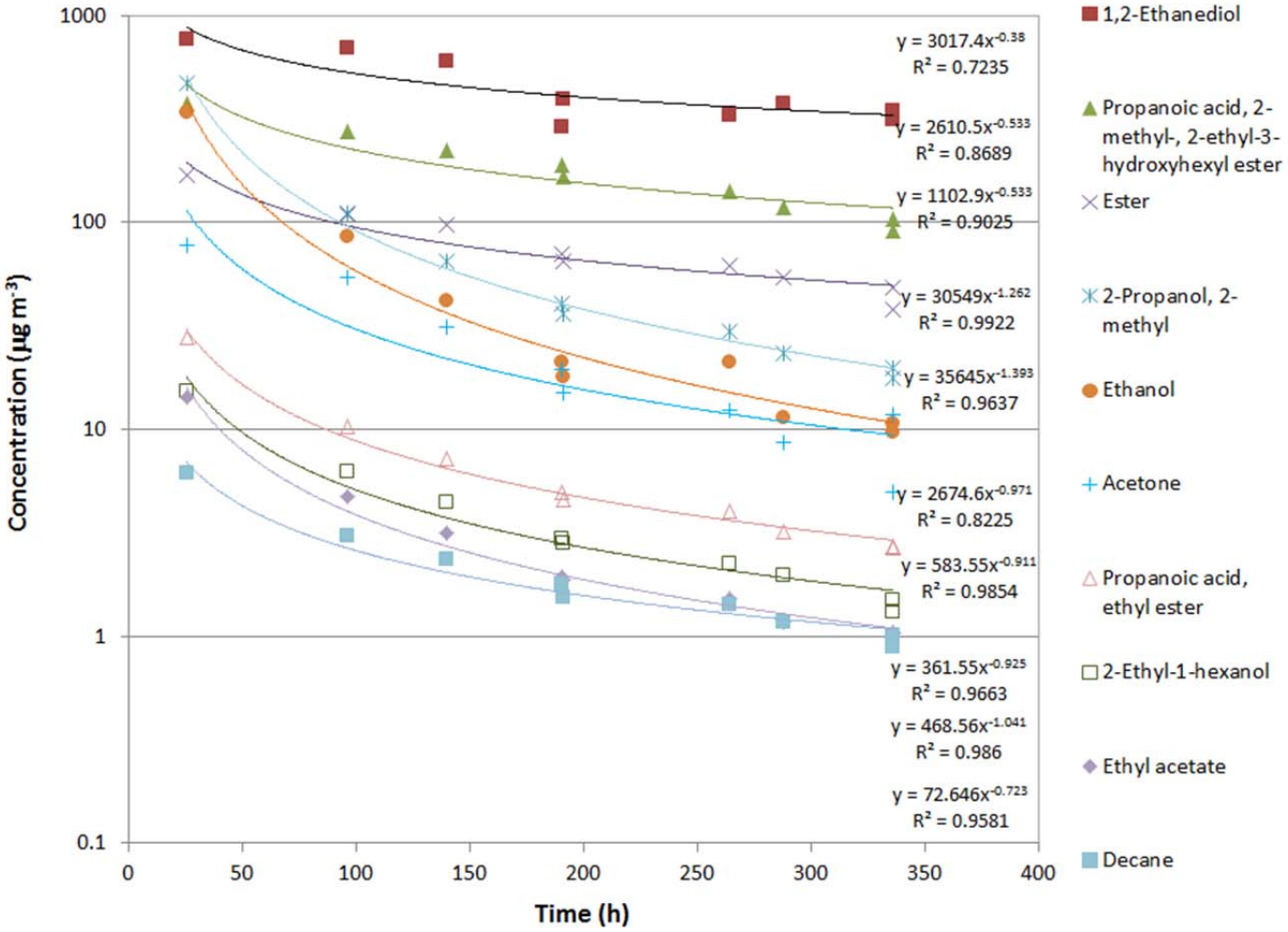

Figure B. 11 Chamber concentrations for 10 major compounds emitted from "Finishing: caulk, latex (test: Caulk)"

Table B. 36 Emission factors for 20 major compounds emitted from "Finishing: paint-drywall assembly (test: Paint1)"

VOC	CAS	Class I	Class II	Nominal emission factors (μg m^{-2} h^{-1})		
				1 day	8 days	14 days
2,2,4-Trimethyl-1,3-pentanediol isobutyrate	25265-77-4	Target	Esters	3929.8	99.7	37.1
Propylene Glycol	57-55-6	Target	Alcohols, Glycols, GlycoEthers	213.9	37.4	23.4
Ester	N/A	Non-target	Esters	519.6	15.4	6.0
n-Butyl ether	142-96-1	Target	Other	19.9	8.1	6.3
Formaldehyde	50-00-0	Target	Aldehydes	11.2	2.3	1.5
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	Target	Esters	8.3	1.8	1.2
1-Butanol	71-36-3	Target	Alcohols, Glycols, GlycoEthers	2.4	1.4	1.2
Unknown	N/A	Non-target		32.3	1.1	0.5
1,3-Pentanediol, 2,2,4-trimethyl-	144-19-4	Non-target	Alcohols, Glycols, GlycoEthers	13.5	1.1	0.6
2-Propanol, 2-methyl	75-65-0	Target	Alcohols, Glycols, GlycoEthers	1.0	0.5	0.4
Acetic acid	64-19-7	Target	Acids	0.0	0.3	5.1
Acetone	67-64-1	Target	Ketones	14.1	0.2	0.1
Benzothiazole	103-65-1	Target	Hydrocarbons-Aromatic	0.6	0.1	0.1
Isopropylbenzene	98-82-8	Target	Hydrocarbons-Aromatic	4.7	0.0	0.0
Benzene	71-43-2	Target	Hydrocarbons-Aromatic	0.0	0.0	0.2
Ethylbenzene	100-41-4	Target	Hydrocarbons-Aromatic	0.4	0.0	0.0
Benzaldehyde	100-52-7	Target	Aldehydes	6.1	0.0	0.0
Acetaldehyde	75-07-0	Target	Aldehydes	17.3	0.0	0.0
Ethanol	64-17-5	Target	Alcohols, Glycols, GlycoEthers	5.8	0.0	0.0
2-Butanone	78-93-3	Target	Ketones	0.2	0.0	0.0

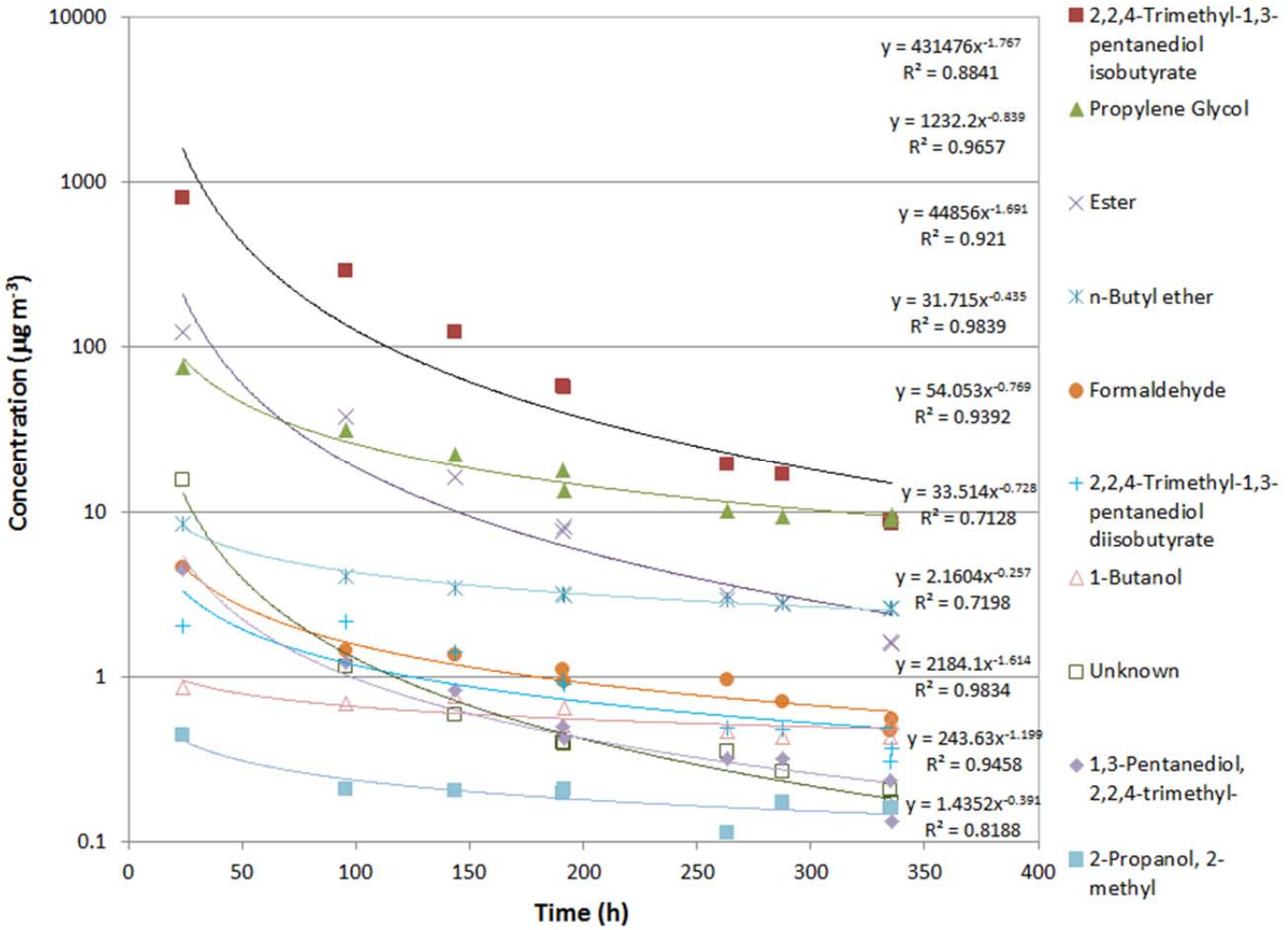

Figure B. 12 Chamber concentrations for 10 major compounds emitted from "Finishing: paint-drywall assembly (test: Paint1)"

Table B. 37 Emission factors for 20 major compounds emitted from "Door: interior, closet (test: IDr)"

VOC	CAS	Class I	Class II	Nominal emission factors (μg m^{-2} h^{-1})		
				1 day	8 days	14 days
Formaldehyde	50-00-0	Target	Aldehydes	22.8	19.0	18.1
a-Pinene	80-56-8	Target	Terpenes	15.0	15.1	15.1
Ester	N/A	Non-target	Esters	0.0	10.2	290.0
Hexanal	66-25-1	Target	Aldehydes	2.3	4.5	5.4
Propanal	123-38-6	Target	Aldehydes	0.0	3.3	350.8
Chloroform	67-66-3	Target	HaloCarbons	0.4	2.3	3.8
b-Pinene	127-91-3	Target	Terpenes	1.7	1.8	1.8
Limonene	138-86-3	Target	Terpenes	1.3	1.4	1.4
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	Target	Esters	0.0	1.0	83.4
Acetaldehyde	75-07-0	Target	Aldehydes	38.6	0.1	0.0
Hexadecane	544-76-3	Target	Hydrocarbons-Aliphatic	0.1	0.0	0.0
Nonanal	124-19-6	Target	Aldehydes	0.0	0.0	0.0
Ethanol	64-17-5	Target	Alcohols, Glycols, GlycoEthers	0.0	0.0	0.1
Toluene	108-88-3	Target	Hydrocarbons-Aromatic	0.0	0.0	0.0
Isopropyl Alcohol	67-63-0	Target	Alcohols, Glycols, GlycoEthers	0.0	0.0	0.1
Hexamethyl cyclotrisiloxane	541-05-9	Non-target	Other	0.0	0.0	0.0
alpha.-Methylstyrene	98-83-9	Target	Hydrocarbons-Aromatic	0.1	0.0	0.0
3-Carene	13466-78-9	Target	Terpenes	0.7	0.0	0.0
Butanal	123-72-8	Target	Aldehydes	0.0	0.0	0.0
Pentanal	110-62-3	Target	Aldehydes	0.0	0.0	0.0

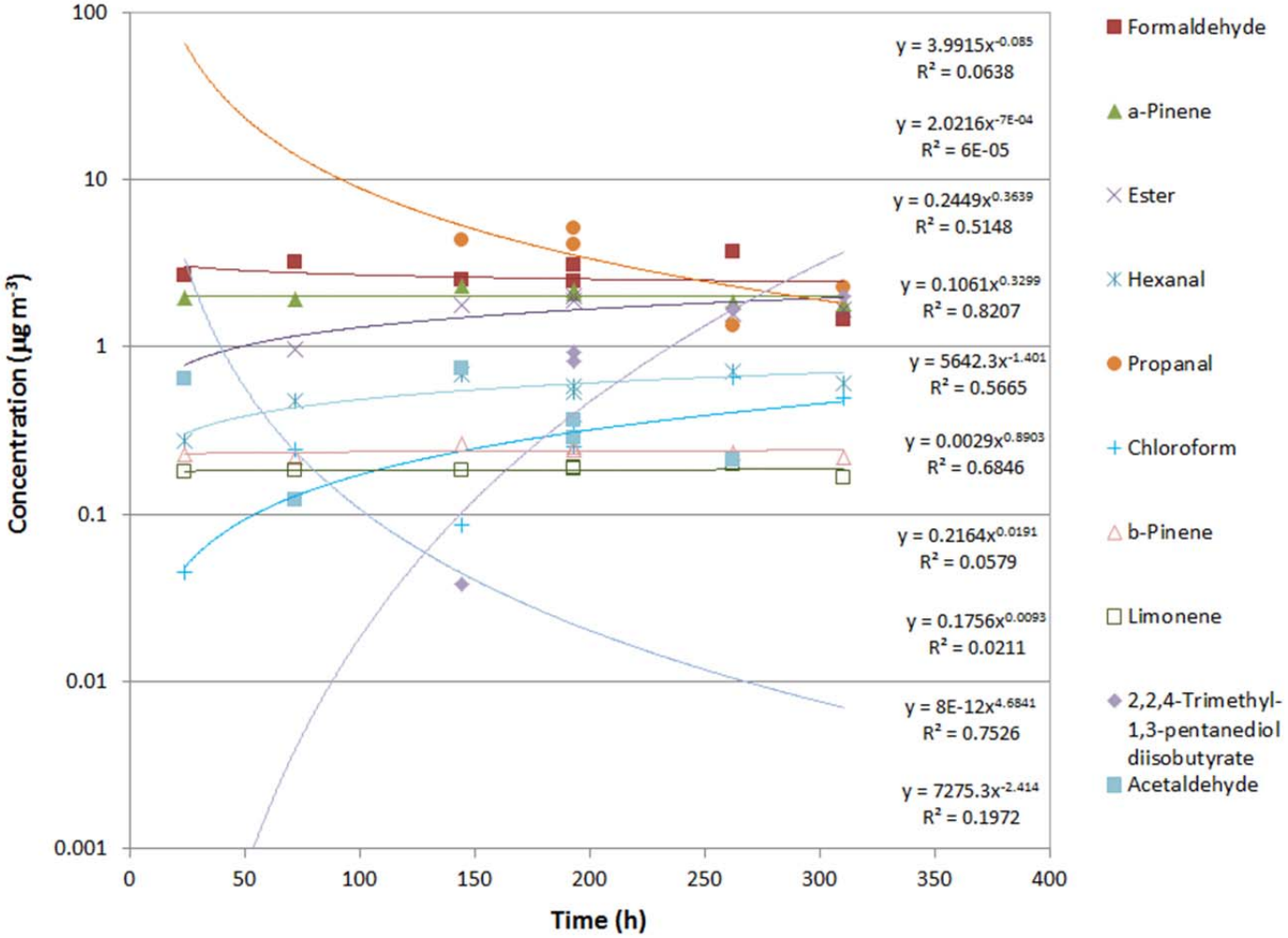

Figure B. 13 Chamber concentrations for 10 major compounds emitted from "Door: interior, closet (test: IDr)"

Table B. 38 Emission factors for 20 major compounds emitted from "Cabinet: bathroom cabinet with stone countertop (test: Cab1)"

VOC	CAS	Class I	Class II	Nominal emission factors (μg m^{-2} h^{-1})		
				1 day	8 days	14 days
Formaldehyde	50-00-0	Target	Aldehydes	26.5	52.3	62.8
Acetone	67-64-1	Target	Ketones	14.2	24.7	28.7
Hexanal	66-25-1	Target	Aldehydes	9.7	15.5	17.7
Ethanol	64-17-5	Target	Alcohols, Glycols, GlycoEthers	11.7	15.2	16.3
Dichloromethane	75-09-2	Target	HaloCarbons	2.1	9.6	14.5
Acetaldehyde	75-07-0	Target	Aldehydes	4.5	7.6	8.7
Pentanal	110-62-3	Target	Aldehydes	3.6	5.4	6.0
Benzaldehyde, 2,5-bis[(trimethylsilyl)oxy]-	33617-38-8	Non-target	Other	20.5	3.3	2.0
1-Butanol	71-36-3	Target	Alcohols, Glycols, GlycoEthers	2.8	2.5	2.4
Isopropyl Alcohol	67-63-0	Target	Alcohols, Glycols, GlycoEthers	0.6	1.6	2.1
2-Butanone	78-93-3	Target	Ketones	0.0	1.2	22.6
Octamethyl cyclotetrasiloxane	556-67-2	Non-target	Other	29.9	0.7	0.3
Chloroform	67-66-3	Target	HaloCarbons	0.1	0.5	1.0
Trichloroethylene	79-01-6	Target	HaloCarbons	0.0	0.2	7.9
Hexamethyl cyclotrisiloxane	541-05-9	Non-target	Other	0.0	0.0	0.1
Styrene	100-42-5	Target	Hydrocarbons-Aromatic	0.0	0.0	0.0
Toluene	108-88-3	Target	Hydrocarbons-Aromatic	0.0	0.0	0.0
Acetic acid	64-19-7	Target	Other	0.0	0.0	0.0
2-Propanol, 2-methyl	75-65-0	Target	Alcohols, Glycols, GlycoEthers	0.0	0.0	0.0
1,4-Dioxane	123-91-1	Target	Other	1.3	0.0	0.0

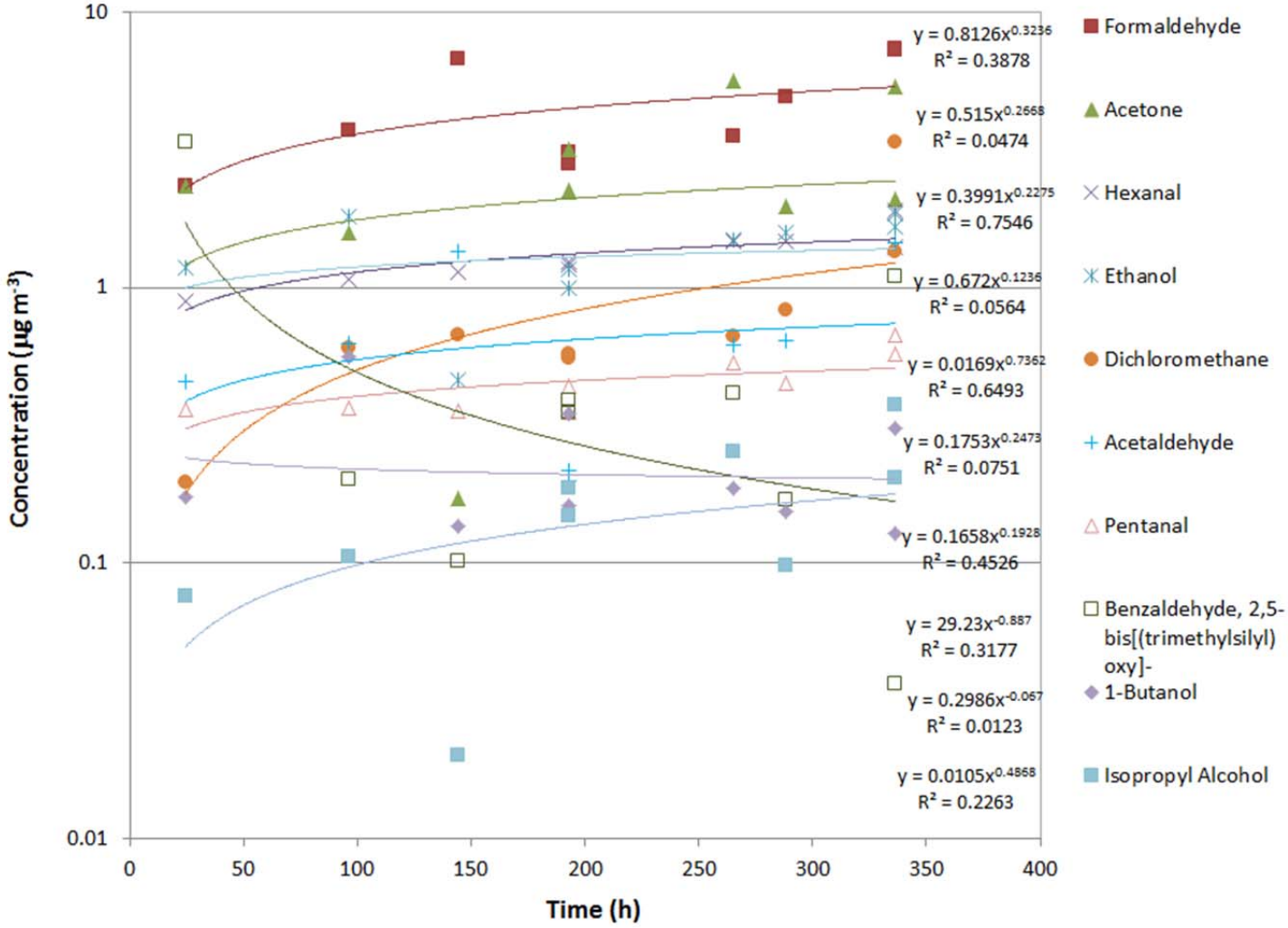

Figure B. 14 Chamber concentrations for 10 major compounds emitted from "Cabinet: bathroom cabinet with stone countertop (test: Cab1)"

Table B. 39 Emission factors for 20 major compounds emitted from "Cabinets: kitchen wall and base, style 1 (test: Cab2)"

VOC	CAS	Class I	Class II	Nominal emission factors (μg m^{-2} h^{-1})		
				1 day	8 days	14 days
Formaldehyde	50-00-0	Target	Aldehydes	69.6	73.9	75.1
1-Butanol	71-36-3	Target	Alcohols, Glycols, GlycoEthers	27.1	31.3	32.6
Hexanal	66-25-1	Target	Aldehydes	12.9	19.6	21.9
1-Propanol, 2-methyl-	78-83-1	Non-target	Alcohols, Glycols, GlycoEthers	8.9	10.7	11.3
Acetic acid, butyl ester	123-86-4	Target	Esters	5.8	8.6	9.5
Acetaldehyde	75-07-0	Target	Aldehydes	8.1	8.0	8.0
Pentanal	110-62-3	Target	Aldehydes	5.2	7.4	8.1
Hexamethyl cyclotrisiloxane	541-05-9	Non-target	Other	21.0	6.6	4.9
2-Propanol, 1-methoxy	107-98-2	Target	Alcohols, Glycols, GlycoEthers	2.5	3.2	3.4
Isopropyl Alcohol	67-63-0	Target	Alcohols, Glycols, GlycoEthers	2.1	2.4	2.5
Ethanol	64-17-5	Target	Alcohols, Glycols, GlycoEthers	82.3	0.9	0.3
Butanal	123-72-8	Target	Aldehydes	0.5	0.4	0.4
Propanal	123-38-6	Target	Aldehydes	1.0	0.4	0.3
Acetic acid	64-19-7	Target	Acids	0.0	0.3	11.4
a-Pinene	80-56-8	Target	Terpenes	1.4	0.2	0.1
Isopropyltoluene	99-87-6	Target	Hydrocarbons-Aromatic	0.3	0.1	0.1
Octamethyl cyclotetrasiloxane	556-67-2	Non-target	Other	2.3	0.0	0.0
b-Pinene	127-91-3	Target	Terpenes	8.1	0.0	0.0
Pentanoic acid	109-52-4	Target	Acids	7.8	0.0	0.0
Hexanoic acid	142-62-1	Target	Acids	0.0	0.0	0.0

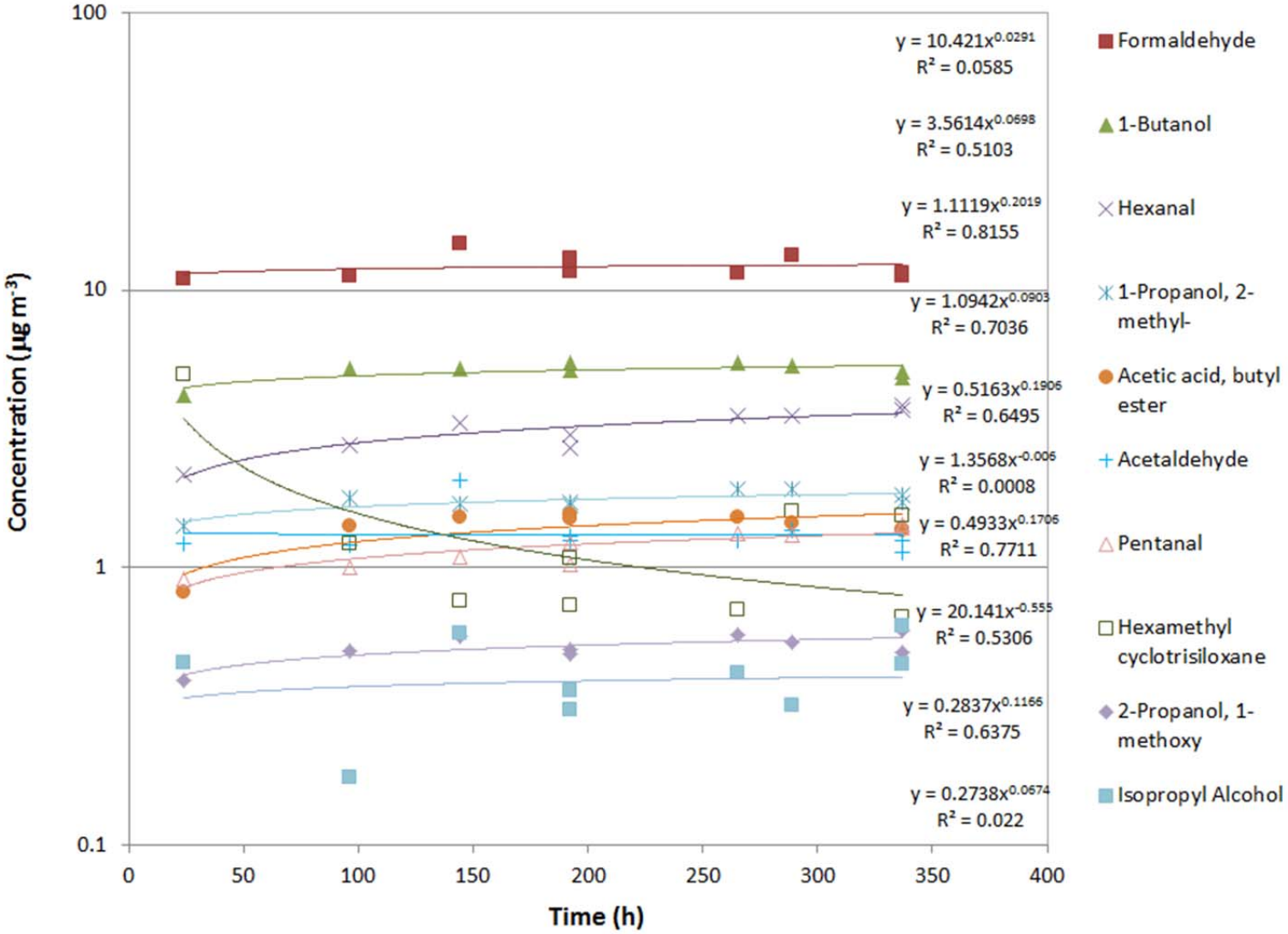

Figure B. 15 Chamber concentrations for 10 major compounds emitted from "Cabinets: kitchen wall and base, style 1 (test: Cab2)"

Table B. 40 Emission factors for 20 major compounds emitted from "Cabinets: kitchen wall and base, style 2 (test: Cab3)"

VOC	CAS	Class I	Class II	Nominal emission factors (μg m^{-2} h^{-1})		
				1 day	8 days	14 days
Acetic acid	64-19-7	Target	Acids	49.2	32.5	29.0
Acetone	67-64-1	Target	Ketones	36.8	22.6	19.8
Hexanal	66-25-1	Target	Aldehydes	10.7	14.6	15.9
Propanal	123-38-6	Target	Aldehydes	45.8	12.6	8.9
Formaldehyde	50-00-0	Target	Aldehydes	0.2	5.5	12.8
Pentanal	110-62-3	Target	Aldehydes	2.5	4.1	4.7
Fufural	98-01-1	Target	Aldehydes	3.0	2.0	1.8
Ester1	N/A	Non-target	Esters	33.9	1.9	0.9
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	Target	Esters	7.7	1.3	0.8
Nonanal	124-19-6	Target	Aldehydes	3.4	0.9	0.7
Isopropyl Alcohol	67-63-0	Target	Alcohols, Glycols, GlycoEthers	1.5	0.9	0.8
a-Pinene	80-56-8	Target	Terpenes	0.9	0.8	0.7
Chloroform	67-66-3	Target	HaloCarbons	0.3	0.4	0.4
Hexamethyl cyclotrisiloxane	541-05-9	Non-target	Other	16.6	0.3	0.1
Acetaldehyde	75-07-0	Target	Aldehydes	0.0	0.2	0.9
2-Butanone	78-93-3	Target	Ketones	0.1	0.2	0.2
1,3-Dimethylbenzene	108-38-3, 106-42-3	Target	Hydrocarbons-Aromatic	0.1	0.2	0.2
Trichloroethylene	79-01-6	Target	HaloCarbons	1.2	0.1	0.1
Dichloromethane	75-09-2	Target	HaloCarbons	0.0	0.0	0.3
Toluene	108-88-3	Target	Hydrocarbons-Aromatic	1.1	0.0	0.0

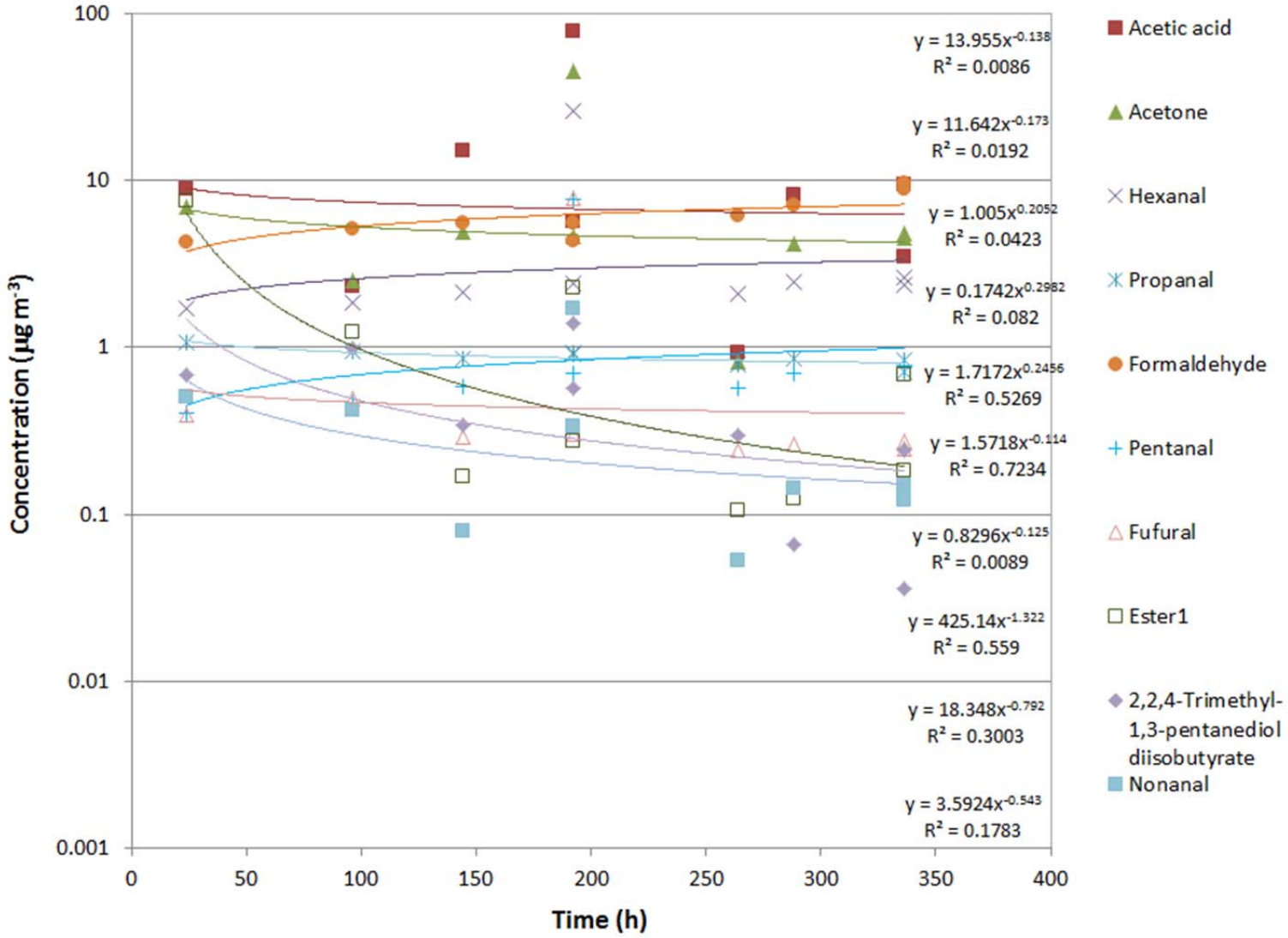

Figure B. 16 Chamber concentrations for 10 major compounds emitted from "Cabinets: kitchen wall and base, style 2 (test: Cab3)"

Table B. 41 Emission factors for 20 major compounds emitted from "Cabinet: bathroom cabinet with laminate countertop (test: Cab4)"

VOC	CAS	Class I	Class II	Nominal emission factors (μg m^{-2} h^{-1})		
				1 day	8 days	14 days
Acetic acid	64-19-7	Target	Acids	51.4	97.4	115.6
Acetone	67-64-1	Target	Ketones	27.0	47.1	54.7
Formaldehyde	50-00-0	Target	Aldehydes	34.0	33.8	33.8
Hexanal	66-25-1	Target	Aldehydes	15.3	26.2	30.3
Propanal	123-38-6	Target	Aldehydes	8.0	8.7	8.9
Pentanal	110-62-3	Target	Aldehydes	4.8	7.9	9.1
Acetaldehyde	75-07-0	Target	Aldehydes	6.2	7.2	7.5
Isopropyl Alcohol	67-63-0	Target	Alcohols, Glycols, GlycoEthers	3.5	3.9	4.0
Hexanoic acid	142-62-1	Target	Acids	1.5	1.7	1.7
Fufural	98-01-1	Target	Aldehydes	0.2	1.4	2.4
2-Butanone	78-93-3	Target	Ketones	1.1	1.0	0.9
Trichloroethylene	79-01-6	Target	HaloCarbons	0.9	0.9	0.9
Chloroform	67-66-3	Target	HaloCarbons	0.1	0.6	0.8
a-Pinene	80-56-8	Target	Terpenes	0.5	0.2	0.2
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	Target	Esters	0.0	0.2	6.3
Hexamethyl cyclotrisiloxane	541-05-9	Non-target	Other	0.0	0.0	0.6
Toluene	108-88-3	Target	Hydrocarbons-Aromatic	0.7	0.0	0.0
2-Propanol, 2-methyl	75-65-0	Target	Alcohols, Glycols, GlycoEthers	185.4	0.0	0.0
Octamethyl cyclotetrasiloxane	556-67-2	Non-target	Other	0.0	0.0	0.0
1,3-Dimethylbenzene	108-38-3, 106-42-3	Target	Hydrocarbons-Aromatic	0.0	0.0	0.0

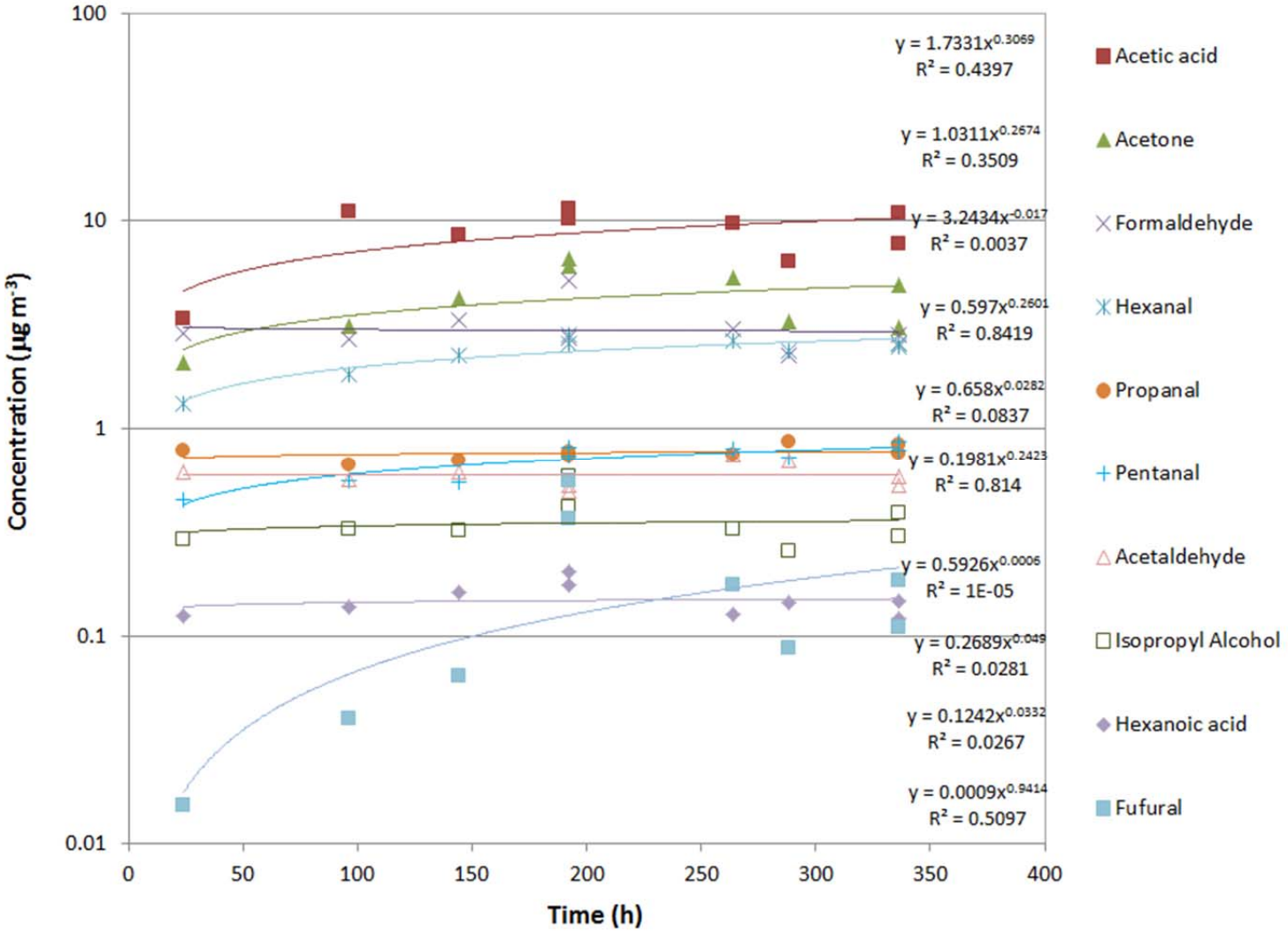

Figure B. 17 Chamber concentrations for 10 major compounds emitted from "Cabinet: bathroom cabinet with laminate countertop (test: Cab4)"

B.5 Emission factors predicted for all materials at 8 days

Table B. 42 Emission factors predicted for all test materials at 8 days

#	G	VOC	CAS #	Emission factor at 8 d (µg m^{-2} h^{-1})																Det. frq	
				IJ	OSB-SF	Ply-UL	HWF1	HWF2	Carp	Ceram	MDF-bbt1	MDF-bbt2	MDF-bbt3	Caulk	Paint1	IDr	Cab1	Cab2	Cab3	Cab4	#	%
D1	DNPH	Formaldehyde	50-00-0	12.9	5.3	2.8			0.0	5.1	48.4	94.8	28.2	4.7	2.3	19.0	52.3	73.9	40.1	33.8	15	88
D2		Acetaldehyde	75-07-0	89.0	25.7	8.9		20.2	0.6	30.6	8.3	38.3	19.2	0.0	0.0	0.1	7.6	8.0	5.7	7.2	16	94
D3		Propanal	123-38-6	5.4	15.5	0.3	5.5	8.2		19.1	0.3	0.0	1.4			3.3	0.0	0.4	5.6	8.7	14	82
1	Alcohols	1-Butanol	71-36-3	3.3	13.9	0.5	0.6	0.3		16.0	1.8	3.3	2.8	26.6	1.4		2.5	31.3			13	76
2		1-Propanol	71-23-8	0.3	2.6					1.0											3	18
3		Hexanol, 2-ethyl-1-	104-76-7	1.9	4.3	0.5	0.1	0.0			0.5	0.8	0.7	89.3	0.0					0.0	11	65
4		2-Propanol	67-63-0	0.7	4.1	0.4				2.2	2.2	9.0	3.6	21.2	0.0	0.0	1.6	2.4	0.9	3.9	14	82
5		Ethanol	64-17-5	47.2	5.8		2.6			7.9		0.0	0.8	752.6	0.0	0.0	15.2	0.9	0.0		12	71
6		Phenol	108-95-2	10.0	1.5	0.1	0.2	0.4	0.0	0.4	0.7	8.1	4.6	4.6	0.0				0.0		13	76
7	Aldehydes & Ketones	Methylethyl ketone	78-93-3	0.5	4.7	0.3		1.4		2.2	0.0	0.6	0.4	0.3	0.0		1.2		0.2	1.0	13	76
8		Acetone	67-64-1	12.6	68.0	14.0	36.7	4.4	0.1	23.5	33.3	128.9	66.5	517.6	0.2		24.7		22.6	47.1	15	88
9		Acetophenone	98-86-2	0.0	0.0	0.1	0.8		1.7	0.2	0.3	1.0	1.5	0.0	0.0						11	65
10		Cyclohexanone	108-94-1				7.8	15.5				9.2	16.6								4	24
11		Methylisobutyl ketone	108-10-1	0.4						0.2	0.2	0.4	0.0								5	29
12		Benzaldehyde	100-52-7	1.5	0.1	0.0	12.9	17.7	3.4	1.1	10.4	10.7	7.4	0.0	0.0				0.0	0.0	14	82
13		Butanal	123-72-8	1.3	6.5	0.4	0.0			4.1	0.6	4.0	0.8					0.4			9	53
14		Decanal	112-31-2		0.7							0.0									2	12
15		2-Decenal	3913-81-3									9.5									1	6
16		Furfural	98-01-1	7.6	7.9	1.6	0.7	2.3		2.1	11.8	4.2	3.6	10.3	0.0				2.0	1.4	13	76
17		Heptanal	111-71-7	1.5	3.5						0.9	6.6	3.2								5	29
18		Hexanal	66-25-1	153.1	293.1	11.5	0.0			123.5	44.6	194.6	50.7			4.5	15.5	19.6	14.6	26.2	13	76
19		Nonanal	124-19-6	1.1	1.4	0.0				0.5	1.6	7.9	6.6			0.0			0.9		9	53
20		2-Nonenal	18829-56-6																		0	0
21		2-Octenal	2548-87-0	21.0	22.5					4.9	7.8	24.9	3.9								6	35
22		Pentanal	110-62-3	23.2	68.8	2.5	0.0			29.4	5.2	33.7	9.7				5.4	7.4	4.1	7.9	12	71
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																		0	0
24		Pentane, 3-methyl-	96-14-0																		0	0
25		2,2,4-Trimethylpentane	540-84-1							0.0											1	6
26		2,4-Dimethylpentane	108-08-7																		0	0
27		Decane	124-18-5		0.0									51.8							2	12
28		Dodecane	112-40-3		0.2						0.0			0.1							3	18
29		Heptane	142-82-5	0.1						0.5		0.0	0.0								4	24
30		Hexadecane	544-76-3		0.0								0.0			0.0					3	18
31		Hexane	110-54-3	1.0	0.0					1.7			0.0								4	24
32		Nonane	111-84-2		0.0									50.7							2	12
33		Octane	111-65-9	0.1						0.4		0.5	0.0								4	24
34		Pentadecane	629-62-9		0.2								0.0	0.0							3	18
35		Tetradecane	629-59-4		0.2				0.7				0.0								3	18
36		Tridecane	629-50-5		0.1																1	6
37		Undecane	1120-21-4		0.7									10.6							2	12

Table B. 42 (continued)

#	G	VOC	CAS #	Emission factor at 8 d (μg m^{-2} h^{-1})																Det. frq	
				IJ	OSB-SF	Ply-UL	HWF1	HWF2	Carp	Ceram	MDF-bbt1	MDF-bbt2	MDF-bbt3	Caulk	Paint1	IDr	Cab1	Cab2	Cab3	Cab4	#	%
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2						0.0												1	6
39		Toluene, 2-ethyl-	611-14-3				0.2														1	6
40		Toluene, 3-ethyl-	620-14-4				0.3		0.0	0.1											3	18
41		Toluene, 4-ethyl-	622-96-8							0.1											1	6
42		Cyclohexene, 4-phenyl	4994-16-5						4.4												1	6
43		Benzene	71-43-2	0.0		0.2		0.0	0.0	0.0	0.1		0.1	0.0	0.0				0.0	0.0	11	65
44		Benzene, 1,2,3-trimethyl-	526-73-8				0.4														1	6
45		Benzene, 1,2,4-trimethyl-	95-63-6				0.8		0.0												2	12
46		Benzene, 1,2-dimethyl-	95-47-6					0.8		0.6					0.0						3	18
47		Benzene, 1,3,5-trimethyl-	108-67-8						0.0												1	6
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3	0.0	0.1	0.0	0.4	2.6		1.8		0.0	0.0	2.2	0.0				0.2	0.0	12	71
49		Benzene, isopropyl	98-82-8							0.8			0.0		0.0						3	18
50		Benzene, propyl-	103-65-1						0.0	0.5					0.1						3	18
51		Ethylbenzene	100-41-4	0.0	0.0	0.0	0.1	0.9		0.8		0.0	0.0	0.1	0.0					0.0	11	65
52		Naphthalene	91-20-3	0.0	0.0		0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0					0.0		11	65
53		p-Cymene	99-87-6	1.5		0.2	20.8		0.1	0.8		0.1	0.0					0.1			8	47
54		Styrene	100-42-5	0.1	0.1	0.0	0.3	3.3	0.3	0.1	0.1	0.1	0.3		0.0		0.0				12	71
55		Toluene	108-88-3	0.0	0.2	0.1	4.8	1.3		1.8	0.1	0.0	0.0	0.0		0.0	0.0		0.0	0.0	14	82
56		2-Phenylpropene	98-83-9												0.0	0.0					2	12
57		Indene	95-13-6				0.3														1	6
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																		0	0
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																		0	0
60		Acetic acid, butyl ester	123-86-4					1.7		0.5								8.6			3	18
61		Acetic acid, ethyl ester	141-78-6	0.9	0.5			0.9		0.8				62.7							5	29
62		Methyl methacrylate	80-62-6																		0	0
63		2-Ethylhexyl acetate	103-09-3											42.0							1	6
64		2-Methoxyethylacetate	110-49-6																		0	0
65		Butyrolactone	96-48-0									2.8	2.3								2	12
66		Texanol	25265-77-4									18.1	826.6		99.7						3	18
67		TXIB	6846-50-0				0.0			0.0	0.3	0.0	5.4	18.0	1.8	1.0			1.3	0.2	10	59
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1										0.0	13069.8							2	12
69		1,2-Propanediol	57-55-6						0.0				202.2		37.4						3	18
70		Diethylene glycol monoethyl ether	111-90-0																		0	0
71		Propanol, 1-methoxy-2-	107-98-2															3.2			1	6
72		Ethanol, 2-butoxy-	111-76-2								0.7	41.5	64.7								3	18
73		Ethanol, 2-butoxyethoxy-	112-34-5																		0	0
74		Ethanol, 2-ethoxy-	110-80-5																		0	0
75		Ethanol, 2-methoxy-	109-86-4																		0	0
76		Propanol, 2-methyl-2-	75-65-0							6.2			0.0	1282.3	0.5		0.0			0.0	6	35

Note: An empty cell indicates that the chemical was not detected or was below the background level. Cells are highlighted in pink, green, and yellow with $E > 1000$, $100 < E \leq 1000$, and $10 < E \leq 100$ μg m^{-2} h^{-1}, respectively.

Table B. 42 (continued)

#	G	VOC	CAS #	Emission factor at 8 d (µg m^{-2} h^{-1})																Det. frq	
				IJ	OSB-SF	Ply-UL	HWF1	HWF2	Carp	Ceram	MDF-bbt1	MDF-bbt2	MDF-bbt3	Caulk	Paint1	IDr	Cab1	Cab2	Cab3	Cab4	#	%
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																		0	0
78		1,2-Dichlorobenzene	95-50-1																		0	0
79		1,2-Dichloroethane	107-06-2																		0	0
80		1,2-Dichloropropane	78-87-5																		0	0
81		1,4-Dichlorobenzene	106-46-7																		0	0
82		Bromodichloromethane	75-27-4																		0	0
83		Carbon tetrachloride	56-23-5																		0	0
84		Chloroform	67-66-3													2.3	0.5		0.4	0.6	4	24
85		Dibromochloromethane	124-48-1																		0	0
86		Dichloromethane	75-09-2														9.6		0.0	0.0	3	18
87		Tetrachloroethylene	127-18-4																		0	0
88		Trichloroethylene	79-01-6	0.0	0.0	0.0						0.0		0.0			0.2		0.1	0.9	8	47
89		1,1,2,2-Tetrachloroethane	79-34-5																		0	0
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																		0	0
91		Cyclohexane	110-82-7						0.0												1	6
92		Cyclohexane, butyl-	1678-93-9											6.6							1	6
93		Cyclohexane, ethyl-	1678-91-7																		0	0
94		Cyclohexane, propyl-	1678-92-8											11.1							1	6
95		Decahydronaphthalene	91-17-8																		0	0
96	Terpenes	alpha-Pinene	80-56-8	249.8	0.0	3.6	6419.0	0.0		17.5						15.1		0.2	0.8	0.2	10	59
97		alpha-Terpinene	99-86-5				2.3														1	6
98		beta-Pinene	127-91-3	36.4		0.4	489.8			1.5						1.8		0.0			6	35
99		gamma-Terpinene	99-85-4				1.6														1	6
100		3-Carene	13466-78-9	2.0		0.2	208.6			1.2						0.0					5	29
101		Camphene	79-92-5	4.5		0.1	120.7		0.0	1.8											5	29
102		Limonene	138-86-3	20.5		2.0	193.6		0.0	8.0	0.0					1.4					7	41
103	Acids	Acetic acid	64-19-7	381.0	1791.7	0.0	18.2	26.2	0.0	197.1	211.6	1085.0	231.0		0.3		0.0	0.3	32.5	97.4	15	88
104		Isobutyric acid	79-31-2								1.3	11.3	10.0		0.0						4	24
105		Butyric acid	107-92-6	0.7	2.7					0.7	1.0	4.1	2.2								6	35
106		Heptanoic acid	111-14-8							0.1		6.7	2.2								3	18
107		2-Ethylhexanoic acid	149-57-5										0.2								1	6
108		Hexanoic acid	142-62-1	5.1	13.4	0.4				8.5	3.3	248.7	63.8					0.0	0.0	1.7	10	59
109		Pentanoic acid	109-52-4		5.8					2.0	0.8	44.3	11.7					0.0			6	35
110		Octanoic acid	124-07-2									4.6	2.1								2	12
111	Other	Furan, 2-pentyl	3777-69-3	2.2	16.4	0.4				1.7	1.0	1.5	0.0								7	41
112		2-Pyrrolidinone, 1-methyl-	872-50-4																		0	0
113		1,4-Dioxane	123-91-1	0.0	0.4	0.0	0.5		0.0	0.0	0.3	0.4	0.0	0.1	0.0		0.0				12	71
114		Triethyl phosphate	78-40-0																		0	0
115		n-Butyl ether	142-96-1							3.7			0.0	17.5	8.1						4	24
116		2-Butanone oxime	96-29-7																		0	0
117		Triethylamine	121-44-8																		0	0
		TVOC	0-0-0	525.2	600.2	24.8	6851.4	165.3	0.0	1886.9	175.3	548.9	1061.8	9850.1	66.6		0.0		2.8		14	82

Table B. 42 (continued)

#	G	VOC	CAS #	Emission factor at 8 d (μg m^{-2} h^{-1})																Det. frq	
				IJ	OSB-SF	Ply-UL	HWF1	HWF2	Carp	Ceram	MDF-bbt1	MDF-bbt2	MDF-bbt3	Caulk	Paint1	IDr	Cab1	Cab2	Cab3	Cab4	#	%
A1	Abundant (identified)	Cyclotrisiloxane, hexamethyl-	541-05-9		3.3	0.0		0.3	0.0		1.5		4.0			0.0	0.0	6.6	0.3	0.0	11	65
A2		Cyclotetrasiloxane, octamethyl-	556-67-2			0.0			0.0		0.4						0.7	0.0	0.0	0.0	7	41
A3		1-Pentanol	71-41-0		28.1	0.4					1.2	4.2	1.7								5	29
A4		1-Octanol	111-87-5										1.8								1	6
A5		Silanediol, dimethyl-	1066-42-8														0.0				1	6
A6		Diacetone alcohol	123-42-2					3.1													1	6
A7		1-Propanol, 2-methyl-	78-83-1															10.7			1	6
A8		Octanal	124-13-0									5.4	2.8								2	12
A9		2-Heptanone	110-43-0		2.9																1	6
A10		Benzophenone	119-61-9					82.8													1	6
A11		Propanoic acid, ethyl ester	105-37-3											155.4							1	6
A12		Ethanol, 2-(2-butoxyethoxy)-, acetate	124-17-4								13.2										1	6
A13		1,3-Pentanediol, 2,2,4-trimethyl-	144-19-4												1.1						1	6
A14		Propanoic acid, 2-methyl-, 2-ethyl-3-hydroxyhexyl ester	74367-31-0											5058.5							1	6
A15		Benzoic Acid	65-85-0																		0	0
A16		Acetic acid, methyl ester	79-20-9		13.4	0.7				12.3											3	18
A17		Pyrazine, methyl-	109-08-0		3.6																1	6
A18		Methane, dimethoxy-	109-87-5					4.3													1	6
A19		Furan	110-00-9																		0	0
A20		Acetamide, N,N-dimethyl-	127-19-5						1.9												1	6
A21		1-Ethyl-2-pyrrolidinone	2687-91-4					21.1													1	6
A22		Benzaldehyde, 2,5-bis[(trimethylsilyl)ox	33617-38-8														3.3				1	6
A23		Benzothiazole	95-16-9																		0	0
A24	Abundant (unidentified)[1]	C11 branched chain hydrocarbon 1								41.0											1	6
A25		C11 branched chain hydrocarbon 2								369.7											1	6
A26		C11 branched chain hydrocarbon 3								76.8											1	6
A27		C11 branched chain hydrocarbon 4								133.2											1	6
A28		C11 branched chain hydrocarbon 5								92.5											1	6
A29		C11 branched chain hydrocarbon 6								53.6											1	6
A30		C11 branched chain hydrocarbon 7								42.5											1	6
A31		C12 branched chain hydrocarbon 1								140.5											1	6
A32		C12 branched chain hydrocarbon 2								41.9											1	6
A33		C12 branched chain hydrocarbon 3								121.6											1	6
A34		C12 branched chain hydrocarbon 4								60.8											1	6
A35		C12 branched chain hydrocarbon 5								44.3											1	6
A36		C12 branched chain hydrocarbon 6								27.5											1	6
A37		C14 Alkene 1							5.3												1	6
A38		C14 Alkene 2							4.3												1	6
A39		C14 Alkene 3							2.1												1	6
A40		Ester 1[2]									13.1	9.8		2137.4	15.4	10.2			1.9		6	35
A41		Ester 2[2]									23.8										1	6

[1] The identity of the chemicals cannot be confirmed with confidence. [2] Ester1 and Ester 2 could mean different compounds for different materials.

Appendix C - Indoor air modelling information

This section contains a summary of the assumptions and measurements required for indoor air modelling.

C.1 Ventilation measurement information

Table C. 1 NRC's perfluorocarbon tracer emitters and emission rates

House	Floor	PFT	Vial size (mL)	No. of vials	Total emission rate (mg h^{-1})	RSD of emission rate (%)
H1	1st floor	HFB	2	4	16.9	1.7
	2nd floor	OFT	7	4	13.3	1.0
	Basement	PDCB	15	9	10.5	2.0
H2	1st floor	HFB	2	4	16.9	4.1
	2nd floor	OFT	7	4	11.9	0.7
	Basement	PDCB	15	9	10.7	3.2

Table C. 2 Summary of the three methods used for ventilation measurements

Method	Injection of tracer gas	Sampling
PFT by the NRC	Constant using emitters	Passive using Carbopack B
SF6 by the NRC	Pulse injection	Active sampling and analysis with INNOVA 1312 (photoacoustic detector)
PFT by BNL (deployed by HC)	Constant using emitters	Passive sampling with capillary absorption tube samplers

C.2 Material installation schedules

Table C. 3 Material area installation schedule in H1

Material description	Surface ID	Material test ID	Installation (h) Ref: 21-Jun-16	Elapsed time btw installation & sampling (h)	Area (m^2)
I-joist	Floor_Joist	9800_002b_OSB-SF	48	3576	34.0
OSB subfloor	Floor_OSB	9800_003b_IJ	24	3600	120.5
Window & door trims	Trim_Window & others	9800_008_MDF-bbt1	2256	1368	40.7
Baseboard trim	Trim_Baseboard	9800_MDF-bbt3	2256	1368	34.0
Interior door	Door_HDF	9800_010_IDr	2064	1560	71.9
Hardwood floor	Floor_Hardwood	9800_012_HWF2	3072	552	176.6
Carpet floor	Floor_Carpet	9800_013_Carp	3240	384	217.1
Kitchen cabinet & CT[1]	Cabinet_CT_Kitchen	9800-Cab2	2760	864	38.0
Bathroom cabinet & CT[1]	Cabinet_CT_Bathroom	9800-Cab1	3168	456	11.1
Painted wall & ceiling	Wall_Ceiling_Paint	9800-Paint1	2544	1080	702.9
Ceramic tile for 1st floor[2]	Floor_tile_1st	9800-Ceram	2904	720	83.3
Caulking for trim	Caulking	9800-Caulk	2256	1368	2.8

[1] CT: counter top; [2] CT: ceramic tile assembly (ceramic tile + adhesive + plywood + OSB) with both tile and OSB sides exposed to air

Table C. 4 Material area and installation schedule in H2

Material description	Surface ID	Material test ID	Installation (h) Ref: 19-May-16	Elapsed time btw installation & sampling (h)	Area (m^2)
I-joist	Floor_Joist	9800_002b_OSB-SF	48	4416	81.3
OSB subfloor	Floor_OSB	9800_003b_IJ	48	4416	373.4
Window & door trim	Trim_Window & others	9800_008_MDF-bbt1	2232	2232	41.4
Baseboard trim	Trim_Baseboard	9800_MDF-bbt3	2232	2232	28.2
Interior door	Door_HDF	9800_010_IDr	2064	2400	70.4
Hardwood floor	Floor_Hardwood	9800_011_HWF1	3048	1416	258.8
Carpet floor	Floor_Carpet	9800_013_Carp	3216	1248	0.0
Kitchen cabinet & CT[1]	Cabinet_CT_Kitchen	9800-Cab3	2736	1728	37.0
Bathroom cabinet & CT[1]	Cabinet_CT_Bathroom	9800-Cab4	3096	1368	7.5
Painted wall & ceiling	Wall_Ceiling_Paint	9800-Paint1	2520	1944	762.7
Ceramic tile for 1st floor[2]	Floor_tile_1st	9800-Ceram	2880	1584	86.1
Caulking for trim	Caulking	9800-Caulk	2232	2232	3.0

[1] CT: counter top, [2] CT: ceramic tile assembly (ceramic tile + adhesive + plywood + OSB) with both tile and OSB sides exposed to air

C.3 Ventilation schedules

Table C. 5 Ventilation schedule for H1

Phase	Start (h)	End (h)	ACH (h^{-1})
1	0	744	5.0
2	744	2544	1.0
3	2544	3552	0.059

Table C. 6 Ventilation schedule for H2

Phase	Start (h)	End (h)	ACH (h^{-1})
1	0	816	5.0
2	816	2520	1.0
3	2520	4392	0.15

C.4 Volatile organic compound concentrations by passive sampling

Table C. 7 VOC and aldehyde concentrations in H1 by passive sampling with Tenax TA and DNPH

G	Compound name	CAS #	Concentration (µg m^{-3})						Diff. (%) in duplicates			Diff. (%) for floors		
			1st floor		2nd floor		Basement		1st fl	2nd fl	BM	1st vs. 2nd	1st vs. BM	2nd vs. BM
			S1	S2	S1	S2	S1	S2	(S2-S1)/S1*100					
Alco	1-Butanol	71-36-3	2844.6	2708.7	2920.1	2272.2	2823.1	2999.7	-5	-22	6	-6	5	12
	2-Propanol	67-63-0	576.7	591.5	604.2	573.0	632.0	601.8	3	-5	-5	1	6	5
Alde	Butanal	123-72-8	80.2	79.4	91.5	80.7	77.5	78.8	-1	-12	2	8	-2	-9
	Hexanal	66-25-1	376.4	316.9	381.2	318.6	301.9	364.3	-16	-16	21	1	-4	-5
Keto	Acetone	67-64-1	3909.9	4224.4	4289.3	4127.7	4313.4	4141.9	8	-4	-4	3	4	0
	2-Butanone	78-93-3	286.8	296.2	304.5	297.7	301.4	294.7	3	-2	-2	3	2	-1
Aliphatic	Hexane	110-54-3	12.3	12.7	12.9	12.1	12.4	12.7	4	-6	3	0	0	1
	Nonane	111-84-2	18.8	16.9	20.1	17.1	16.3	19.2	-10	-15	18	4	-1	-5
	Decane	124-18-5	70.3	69.2	74.3	72.6	70.0	69.1	-2	-2	-1	5	0	-5
	Undecane	1120-21-4	70.2	67.4	70.5	70.6	68.2	70.2	-4	0	3	3	1	-2
	Dodecane	112-40-3	28.1	27.2	27.9	26.2	27.5	26.0	-3	-6	-6	-2	-3	-1
Aromatic	Benzene	71-43-2	15.7	13.7	21.3	21.7	19.0	20.0	-13	2	5	46	32	-10
	Toluene	108-88-3	1933.1	1616.3	1871.9	1665.8	1660.8	1962.9	-16	-11	18	0	2	2
	Ethylbenzene	100-41-4	55.2	50.7	60.3	53.3	53.2	60.2	-8	-12	13	7	7	0
	o-Xylene	95-47-6	87.0	80.3	93.6	94.1	87.1	94.3	-8	1	8	12	8	-3
	Benzene, 1,2,4-trimethyl-	95-63-6	20.0	19.5	20.2	20.7	20.6	20.2	-2	3	-2	3	3	0
	Benzene, 1,2,3-trimethyl-	526-73-8	17.4	17.3	18.1	18.4	18.0	17.1	-1	2	-5	5	1	-4
Ester & glycol	Ethyl acetate	141-78-6	511.6	523.2	523.3	535.0	511.4	495.5	2	2	-3	2	-3	-5
	Butyl acetate	123-86-4	940.6	745.7	959.8	783.5	739.5	916.6	-21	-18	24	3	-2	-5
	Texanol	25265-77-4	169.9	175.7	183.5	197.6	152.0	161.0	3	8	6	10	-9	-18
	TXIB	6846-50-0	9.6	7.5	7.9	8.6	8.5	9.5	-21	8	12	-3	5	9
Terpene	alpha-Pinene	80-56-8	1503.9	1344.8	1513.2	1517.1	1485.3	1468.9	-11	0	-1	6	4	-3
	3-Carene	13466-78-9	78.5	77.4	74.9	78.8	76.0	74.8	-1	5	-1	-1	-3	-2
	R(+)-Limonene	5989-27-5	65.5	63.5	65.8	67.1	63.1	63.6	-3	2	1	3	-2	-5
DNPH	Formaldehyde	50-00-0	178.6	88.2	65.8	132.4	69.0	63.4	-51	101	-8	-26	-50	-33
	Acetaldehyde	75-07-0	178.7	189.6	186.5	186.9	180.7	183.9	6	0	2	1	-1	-2
	Propanal	123-38-6	37.9	41.5	35.6	38.0	39.2	39.8	10	7	2	-7	-1	8

Table C. 8 VOC and aldehyde concentrations in H2 by passive sampling with Tenax TA and DNPH

G	Compound name	CAS #	Concentration (µg m^{-3})						Diff. (%) in duplicates			Diff. (%) for floors		
			1st floor		2nd floor		Basement		1st fl	2nd fl	BM	1st vs. 2nd	1st vs. BM	2nd vs. BM
			S1	S2	S1	S2	S1	S2	(S2-S1)/S1*100					
Alco	1-Butanol	71-36-3	450.5	445.7	420.9	438.1	352.4	355.0	-1	4	1	-4	-21	-18
	2-Propanol	67-63-0	28.2	32.1	33.3	26.7	25.0	13.8	14	-20	-45	0	-36	-35
Alde	Butanal	123-72-8	25.3	27.6	28.4	26.8	25.5	24.1	9	-6	-5	4	-6	-10
	Hexanal	66-25-1	161.0	126.4	112.7	152.6	105.9	100.5	-22	35	-5	-8	-28	-22
Keto	Acetone	67-64-1	614.9	637.4	625.6	646.8	437.6	428.8	4	3	-2	2	-31	-32
	2-Butanone	78-93-3	26.9	26.5	28.2	28.0	21.0	17.4	-1	-1	-17	5	-28	-32
Aliphatic	Hexane	110-54-3	13.4	14.5	15.1	13.9	11.8	10.8	9	-7	-8	4	-19	-22
	Nonane	111-84-2	12.3	11.6	8.7	9.9	9.6	9.4	-5	14	-3	-22	-20	2
	Decane	124-18-5	60.3	56.7	42.6	52.3	51.2	47.9	-6	23	-6	-19	-15	4
	Undecane	1120-21-4	70.2	68.8	50.5	58.7	54.6	53.5	-2	16	-2	-21	-22	-1
	Dodecane	112-40-3	37.7	40.0	32.5	31.2	23.1	21.3	6	-4	-8	-18	-43	-30
Aromatic	Benzene	71-43-2	14.4	12.3	8.9	8.2	7.2	7.7	-14	-8	7	-36	-44	-13
	Toluene	108-88-3	415.3	382.7	322.4	389.5	310.6	291.2	-8	21	-6	-11	-25	-15
	Ethylbenzene	100-41-4	11.0	9.8	8.9	9.8	15.5	12.9	-11	10	-17	-9	37	51
	o-Xylene	95-47-6	14.8	13.6	11.8	13.4	21.2	20.1	-8	13	-5	-11	45	64
	Benzene, 1,2,4-trimethyl-	95-63-6	0.6	0.8	0.6	0.8	0.6	0.4	34	25	-44	-4	-32	-29
	Benzene, 1,2,3-trimethyl-	526-73-8	5.0	5.0	4.0	4.8	4.2	3.6	-1	19	-15	-12	-22	-12
Ester & glycol	Ethyl acetate	141-78-6	82.1	79.5	75.0	79.0	52.6	54.1	-3	5	3	-5	-34	-31
	Butyl acetate	123-86-4	79.8	61.5	57.3	74.7	50.2	48.1	-23	30	-4	-7	-30	-26
	Texanol	25265-77-4	61.2	62.5	64.2	70.2	16.8	13.8	2	9	-18	9	-75	-77
	TXIB	6846-50-0	7.9	8.1	7.2	9.8	4.6	4.2	2	36	-9	6	-44	-48
Terpene	alpha-Pinene	80-56-8	8135.7	8038.2	6715.9	8038.9	6629.1	6363.8	-1	20	-4	-9	-20	-12
	3-Carene	13466-78-9	456.6	453.7	385.8	450.8	354.5	331.1	-1	17	-7	-8	-25	-18
	R(+)-Limonene	5989-27-5	171.7	167.3	129.4	156.3	123.4	115.3	-3	21	-7	-16	-30	-16
DNPH	Formaldehyde	50-00-0	24.2	79.4	29.5	23.3	112.1	22.5	229	-21	-80	-49	30	155
	Acetaldehyde	75-07-0	56.3	61.5	60.5	57.8	47.2	47.3	9	-4	0	0	-20	-20
	Propanal	123-38-6	16.0	16.3	16.1	13.6	14.8	20.4	2	-16	38	-8	9	19

C.5 Differences in concentrations for passive and active samples

Table C. 9 Differences (%) in concentrations for passive and active samples

G	Compound name	CAS #	H1				H2			
			Concentration (µg m^{-3})		Ratio	Diff. (%)	Concentration (µg m^{-3})		Ratio	Diff. (%)
			Active (Ca)	Passive (Cp)	Cp/Ca	(Cp-Ca)/ Ca	Active (Ca)	Passive (Cp)	Cp/Ca	(Cp-Ca)/ Ca
Alco	1-Butanol	71-36-3	1194.4	2971.6	2.5	149	323.6	441.7	1.4	36
	2-Propanol	67-63-0	105.0	315.3	3.0	200	13.6	33.7	2.5	148
Alde	Butanal	123-72-8	24.4	55.3	2.3	127	11.0	17.9	1.6	62
	Hexanal	66-25-1	271.7	409.1	1.5	51	143.4	150.8	1.1	5
Keto	Acetone	67-64-1	237.6	3443.5	14.5	1349	197.0	472.6	2.4	140
	2-Butanone	78-93-3	153.7	282.4	1.8	84	16.6	23.4	1.4	41
Aliphatic	Hexane	110-54-3	10.9	17.3	1.6	58	12.5	18.3	1.5	46
	Nonane	111-84-2	16.1	16.7	1.0	4	10.7	9.5	0.9	-12
	Decane	124-18-5	58.8	65.1	1.1	11	35.5	47.5	1.3	34
	Undecane	1120-21-4	52.0	59.5	1.1	15	38.6	50.9	1.3	32
	Dodecane	112-40-3	20.0	22.5	1.1	12	23.3	25.6	1.1	10
Aromatic	Benzene	71-43-2	4.0	6.6	1.6	63	0.7	0.8	1.1	14
	Toluene	108-88-3	790.3	1863.6	2.4	136	276.1	375.2	1.4	36
	Ethylbenzene	100-41-4	39.1	51.1	1.3	31	8.5	10.4	1.2	23
	o-Xylene	95-47-6	63.0	75.2	1.2	19	10.1	13.3	1.3	32
	Benzene, 1,2,4-trimethyl-	95-63-6	51.5	56.6	1.1	10	5.8	1.8	0.3	-69
	Benzene, 1,2,3-trimethyl-	526-73-8	12.8	14.9	1.2	16	3.0	3.8	1.2	25
Ester & glycol	Ethyl acetate	141-78-6	291.5	487.1	1.7	67	46.8	66.4	1.4	42
	Butyl acetate	123-86-4	498.7	931.8	1.9	87	78.3	68.1	0.9	-13
	Texanol	25265-77-4	133.7	150.3	1.1	12	57.3	41.7	0.7	-27
	TXIB	6846-50-0	2.5	7.3	2.9	194	2.0	5.9	3.0	200
Terpene	alpha-Pinene	80-56-8	557.2	930.4	1.7	67	1460.7	4626.3	3.2	217
	3-Carene	13466-78-9	68.8	80.7	1.2	17	289.9	426.2	1.5	47
	R(+)-Limonene	5989-27-5	58.4	63.8	1.1	9	110.8	144.1	1.3	30
DNPH	Formaldehyde	50-00-0	87.1	99.5	1.1	14	37.3	48.5	1.3	30
	Acetaldehyde	75-07-0	203.6	184.4	0.9	-9	61.7	55.1	0.9	-11
	Propanal	123-38-6	32.6	75.2	2.3	130	11.9	31.5	2.7	166

C.6 Volatile organic compound concentrations by active sampling

Table C. 10 VOC and aldehyde concentrations in H1 and H2 by active sampling with Tenax TA and DNPH

G	Compound name	CAS #	Concentration (µg m^{-3})	
			H1	H2
Alcohols	1-Butanol	71-36-3	1194.4	323.6
	1-Propanol	71-23-8	2.5	
	Hexanol, 2-ethyl-1-	104-76-7		
	2-Propanol	67-63-0	105.0	13.6
	Ethanol	64-17-5	5.6	9.2
	Phenol	108-95-2		
Aldehydes & Ketones	Methylethyl ketone	78-93-3	153.7	16.6
	Acetone	67-64-1	237.6	197.0
	Acetophenone	98-86-2		
	Cyclohexanone	108-94-1	46.4	7.5
	Methylisobutyl ketone	108-10-1	15.1	1.7
	Benzaldehyde	100-52-7		
	Butanal	123-72-8	24.4	11.0
	Decanal	112-31-2		
	2-Decenal	3913-81-3		
	Furfural	98-01-1	10.6	
	Heptanal	111-71-7		
	Hexanal	66-25-1	271.7	143.4
	Nonanal	124-19-6		
	2-Nonenal	18829-56-6		
	2-Octenal	2548-87-0		
	Pentanal	110-62-3	62.8	31.4
Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5	4.2	1.7
	Pentane, 3-methyl-	96-14-0	5.3	2.6
	2,2,4-Trimethylpentane	540-84-1		
	2,4-Dimethylpentane	108-08-7		
	Decane	124-18-5	58.8	35.5
	Dodecane	112-40-3	20.0	23.3
	Heptane	142-82-5	2.4	0.9
	Hexadecane	544-76-3	0.3	0.9
	Hexane	110-54-3	10.9	12.5
	Nonane	111-84-2	16.1	10.7
	Octane	111-65-9	2.5	1.7
	Pentadecane	629-62-9	0.9	2.5
	Tetradecane	629-59-4	1.7	7.3
	Tridecane	629-50-5	1.8	16.1
	Undecane	1120-21-4	52.0	38.6

Note: An empty cell indicates the chemical was not detected.

Table C. 10 (continued)

G	Compound name	CAS #	Concentration (μg m^{-3})	
			H1	H2
Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2	27.9	4.9
	Toluene, 2-ethyl-	611-14-3	9.7	1.4
	Toluene, 3-ethyl-	620-14-4	26.5	2.1
	Toluene, 4-ethyl-	622-96-8	11.1	1.0
	Cyclohexene, 4-phenyl	4994-16-5	1.3	
	Benzene	71-43-2	4.0	0.7
	Benzene, 1,2,3-trimethyl-	526-73-8	12.8	3.0
	Benzene, 1,2,4-trimethyl-	95-63-6	51.5	5.8
	Benzene, 1,2-dimethyl-	95-47-6	63.0	10.1
	Benzene, 1,3,5-trimethyl-	108-67-8	16.3	
	Benzene, 1,3-dimethyl-	108-38-3	154.9	27.8
	Benzene, isopropyl	98-82-8	1.9	
	Benzene, propyl-	103-65-1	7.0	1.0
	Ethylbenzene	100-41-4	39.1	8.5
	Naphthalene	91-20-3	2.3	1.6
	p-Cymene	99-87-6	8.1	13.8
	Styrene	100-42-5	15.1	1.9
	Toluene	108-88-3	790.3	276.1
	2-Phenylpropene	98-83-9	0.4	
	Indene	95-13-6		
Esters	Acetic acid, 1-methylethyl ester	108-21-4	5.3	0.8
	Acetic acid, 2-ethoxyethyl ester	111-15-9		
	Acetic acid, butyl ester	123-86-4	498.7	78.3
	Acetic acid, ethyl ester	141-78-6	291.5	46.8
	Methyl methacrylate	80-62-6		
	2-Ethylhexyl acetate	103-09-3		
	2-Methoxyethylacetate	110-49-6		
	Butyrolactone	96-48-0		
	Texanol	25265-77-4	133.7	57.3
	TXIB	6846-50-0	2.5	2.0
Glycols, GlycoEthers	1,2-Propanediol	57-55-6		
	Diethylene glycol monoethyl ether	111-90-0		
	Propanol, 1-methoxy-2-	107-98-2	114.4	2.8
	Ethanol, 2-butoxy-	111-76-2	6.0	
	Ethanol, 2-butoxyethoxy-	112-34-5		
	Ethanol, 2-ethoxy-	110-80-5		
	Ethanol, 2-methoxy-	109-86-4		
	Propanol, 2-methyl-2-	75-65-0	24.1	3.1
	1,1,1-Trichloroethane	71-55-6		
	1,2-Dichlorobenzene	95-50-1	0.9	

Table C. 10 (continued)

G	Compound name	CAS #	Concentration (μg m^{-3})	
			H1	H2
Halo Carbons	1,2-Dichloroethane	107-06-2		
	1,2-Dichloropropane	78-87-5		
	1,4-Dichlorobenzene	106-46-7	0.9	
	Bromodichloromethane	75-27-4		
	Carbon tetrachloride	56-23-5	0.6	0.6
	Chloroform	67-66-3	1.1	
	Dibromochloromethane	124-48-1		
	Dichloromethane	75-09-2		
	Tetrachloroethylene	127-18-4	0.9	0.3
	Trichloroethylene	79-01-6		
	1,1,2,2-Tetrachloroethane	79-34-5		
Cyclo Alkanes	Methylcyclohexane	108-87-2	0.7	0.5
	Cyclohexane	110-82-7		
	Cyclohexane, butyl-	1678-93-9		6.0
	Cyclohexane, ethyl-	1678-91-7		0.9
	Cyclohexane, propyl-	1678-92-8	4.2	4.0
	Decahydronaphthalene	91-17-8	6.8	5.8
Terpenes	alpha-Pinene	80-56-8	557.2	1460.7
	alpha-Terpinene	99-86-5	1.4	1.4
	beta-Pinene	127-91-3	106.6	297.7
	gamma-Terpinene	99-85-4		1.5
	3-Carene	13466-78-9	68.8	289.9
	Camphene	79-92-5	14.3	55.0
	Limonene	5989-27-5	58.4	110.8
Acids	Acetic acid	64-19-7	656.3	463.7
	Isobutyric acid	79-31-2		
	Butyric acid	107-92-6		
	Heptanoic acid	111-14-8		
	2-Ethylhexanoic acid	149-57-5		
	Hexanoic acid	142-62-1	2.1	2.2
	Pentanoic Acid	109-52-4		
Other	Furan, 2-pentyl	3777-69-3	13.1	4.1
	2-Pyrrolidinone, 1-methyl-	872-50-4		
	1,4-Dioxane	123-91-1	0.8	
	Triethyl phosphate	78-40-0		
	n-Butyl ether	142-96-1	21.7	2.6
	2-Butanone oxime	96-29-7	8.9	
	Triethylamine	121-44-8		
DNPH[1]	Formaldehyde	50-00-0	87.1	37.3
	Acetaldehyde	75-07-0	203.6	61.7
	Propanal	123-38-6	32.6	11.9

[1] Compounds that were sampled with DNPH cartridges (Waters Sep-Pak XPoSure).

C.7 Perfluorocarbon tracer concentrations and air exchange rates

Table C. 11 PFT concentrations in passive samples in H1

		Concentration (μg m^{-3})						Diff. (%) in duplicates			Diff. (%) for floors		
		1st floor		2nd floor		Basement		1st fl	2nd fl	BM	1st vs. 2nd	1st vs. BM	2nd vs. BM
PFT	CAS #	S1	S2	S1	S2	S1	S2	(S2-S1)/S1*100					
PDCB	2994-71-0	159.7	149.6	159.4	157.7	157.7	156.2	-6	-1	-1	2	1	-1
HFB	392-56-3	207.8	183.2	190.1	187.1	187.0	189.8	-12	-2	1	-4	-4	0
OFT	434-64-0	164.5	148.1	165.8	162.9	144.4	153.4	-10	-2	6	5	-5	-9

Table C. 12 PFT concentrations in passive samples in H2

		Concentration (μg m^{-3})						Diff. (%) in duplicates			Diff. (%) for floors		
		1st floor		2nd floor		Basement		1st fl	2nd fl	BM	1st vs. 2nd	1st vs. BM	2nd vs. BM
PFT	CAS #	S1	S2	S1	S2	S1	S2	(S2-S1)/S1*100					
PDCB	2994-71-0	86.0	76.1	82.5	81.6	76.4	75.4	-11	-1	-1	1	-6	-7
HFB	392-56-3	101.0	94.4	81.7	81.8	64.6	60.4	-7	0	-7	-16	-36	-23
OFT	434-64-0	56.5	48.4	57.7	58.9	40.0	37.3	-14	2	-7	11	-26	-34

Table C. 13 Comparison of PFT concentrations in active and passive samples

	H1			H2		
	Concentration (μg m^{-3})		Diff. (%)	Concentration (μg m^{-3})		Diff. (%)
	Active	Passive		Active	Passive	
HFB	174.5	190.8	9	86.8	80.6	-7
OFT	146.6	156.5	7	47.8	49.8	4
PDCB	113.0	156.7	39	55.7	79.7	43

Table C. 14 Air change rates measured in H1

Lab		NRC			BNL
Tracer gas		PFT	PFT	SF_6	PFT
Sampling		Active	Passive	Active	Passive
PFT	HFB	0.071 h^{-1}	0.065 h^{-1}		
	OFT	0.067 h^{-1}	0.063 h^{-1}		
	PDCB	0.069 h^{-1}	0.050 h^{-1}		
Mean (h^{-1})		0.069 h^{-1}	0.059 h^{-1}	0.052 h^{-1}	0.042 h^{-1}
Difference (%) in reference to SF_6		33%	14%	0%	-19%

Table C. 15 Air change rates measured in H2

Lab		NRC			BNL
Tracer gas		PFT	PFT	SF_6	PFT
Sampling		Active	Passive	Active	Passive
PFT	HFB	0.15 h^{-1}	0.16 h^{-1}		
	OFT	0.21 h^{-1}	0.20 h^{-1}		
	PDCB	0.14 h^{-1}	0.10 h^{-1}		
Mean (h^{-1})		0.069 h^{-1}	0.17 h^{-1}	0.15 h^{-1}	0.14 h^{-1}
Difference (%) in reference to SF_6		33%	16%	6%	0%

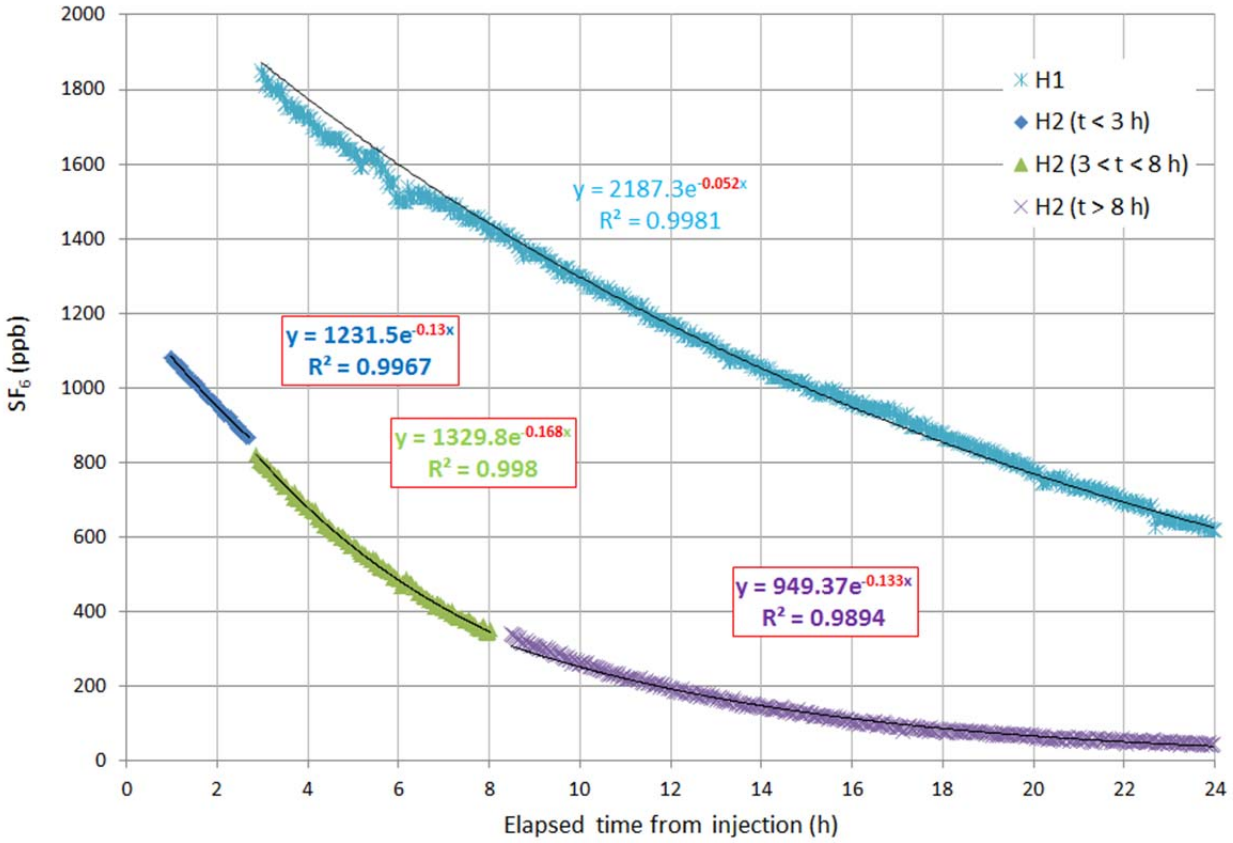

Figure C. 1 SF_6 decay curve in H1 and H2

C.8 Predicted and measured volatile organic compound concentrations in H1 and H2

Table C. 16 Predicted and measured concentrations in H1 and H2

G	Chemical	CAS #	H1			H2		
			Measured C (Cm)	Predicted C (Cp)	Ratio (Cp/Cm)	Measured C (Cm)	Predicted C (Cp)	Ratio (Cp/Cm)
			($\mu g\ m^{-3}$)	($\mu g\ m^{-3}$)	(-)	($\mu g\ m^{-3}$)	($\mu g\ m^{-3}$)	(-)
Alco	1-Butanol	71-36-3	1194.4	42.2	0.0	323.6	17.2	0.1
	2-Propanol	67-63-0	105.0	4.5	0.0	13.6	2.1	0.2
Aldehydes & Ketones	Methylethyl ketone	78-93-3	153.7	2.5	0.0	16.6	1.4	0.1
	Acetone	67-64-1	237.6	93.3	0.4	197.0	74.5	0.4
	Cyclohexanone	108-94-1	46.4	33.5	0.7	7.5	8.2	1.1
	Methylisobutyl ketone	108-10-1	15.1	0.5	0.0	1.7	0.4	0.2
	Butanal	123-72-8	24.4	6.0	0.2	11.0	5.3	0.5
	Hexanal	66-25-1	271.7	338.8	1.2	143.4	277.3	1.9
	Pentanal	110-62-3	62.8	56.6	0.9	31.4	47.6	1.5
Aliphatic	Decane	124-18-5	58.8	0.4	0.0	35.5	0.1	0.0
	Dodecane	112-40-3	20.0	0.0	0.0	23.3	0.0	0.0
	Hexane	110-54-3	10.9	1.8	0.2	12.5	1.7	0.1
	Nonane	111-84-2	16.1	0.4	0.0	10.7	0.1	0.0
	Undecane	1120-21-4	52.0	0.2	0.0	38.6	0.1	0.0
Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2	27.9	0.0	0.0	4.9	0.0	0.0
	Toluene, 3-ethyl-	620-14-4	26.5	0.0	0.0	2.1	0.2	0.1
	Toluene, 4-ethyl-	622-96-8	11.1	0.0	0.0	1.0	0.0	0.0
	Benzene, 1,2,3-trimethyl-	526-73-8	12.8	0.0	0.0	3.0	0.1	0.0
	Benzene, 1,2,4-trimethyl-	95-63-6	51.5	0.0	0.0	5.8	0.8	0.1
	Benzene, 1,2-dimethyl-	95-47-6	63.0	1.8	0.0	10.1	0.1	0.0
	Benzene, 1,3,5-trimethyl-	108-67-8	16.3	0.0	0.0			
	Benzene, 1,3-dimethyl-	108-38-3	154.9	5.8	0.0	27.8	0.9	0.0
	Ethylbenzene	100-41-4	39.1	2.2	0.1	8.5	0.3	0.0
	Styrene	100-42-5	15.1	7.4	0.5	1.9	0.6	0.3
	Toluene	108-88-3	790.3	4.1	0.0	276.1	5.9	0.0
Esters & glycols	Acetic acid, butyl ester	123-86-4	498.7	5.2	0.0	78.3	0.1	0.0
	Acetic acid, ethyl ester	141-78-6	291.5	1.4	0.0	46.8	0.5	0.0
	Texanol	25265-77-4	133.7	239.4	1.8	57.3	72.7	1.3
	Propanol, 1-methoxy-2-	107-98-2	114.4	0.8	0.0	2.8	0.0	0.0
	Propanol, 2-methyl-2-	75-65-0	24.1	10.4	0.4	3.1	3.2	1.0
Terpenes	alpha-Pinene	80-56-8	557.2	84.8	0.2	1460.7	6705.0	4.6
	beta-Pinene	127-91-3	106.6	10.2	0.1	297.7	438.1	1.5
	3-Carene	13466-78-9	68.8	0.6	0.0	289.9	190.4	0.7
	Camphene	79-92-5	14.3	1.5	0.1	55.0	127.8	2.3
	Limonene	5989-27-5	58.4	8.9	0.2	110.8	249.0	2.2
Other	Acetic acid	64-19-7	656.3	1133.0	1.7	463.7	959.0	2.1
	Furan, 2-pentyl	3777-69-3	13.1	4.2	0.3	4.1	2.9	0.7
	n-Butyl ether	142-96-1	21.7	34.6	1.6	2.6	11.8	4.5
DNPH	Formaldehyde	50-00-0	87.1	102.1	1.2	37.3	38.8	1.0
	Acetaldehyde	75-07-0	203.6	102.7	0.5	61.7	46.2	0.7
	Propanal	123-38-6	32.6	25.3	0.8	11.9	12.1	1.0

C.9 Predicted and measured volatile organic compound concentrations in H1 and H2 with an additional source

Table C. 17 Predicted and measured concentrations in H1 and H2 with an additional source (UR9)

G	Chemical	CAS #	H1			H2		
			Measured C (Cm)	Predicted C (Cp)	Ratio (Cp/Cm)	Measured C (Cm)	Predicted C (Cp)	Ratio (Cp/Cm)
			(µg m^{-3})	(µg m^{-3})	(-)	(µg m^{-3})	(µg m^{-3})	(-)
Alco	1-Butanol	71-36-3	1194.4	44.4	0.0	323.6	18.1	0.1
	2-Propanol	67-63-0	105.0	4.6	0.0	13.6	2.2	0.2
Aldehydes & Ketones	Methylethyl ketone	78-93-3	153.7	3.4	0.0	16.6	1.8	0.1
	Acetone	67-64-1	237.6	95.8	0.4	197.0	75.6	0.4
	Cyclohexanone	108-94-1	46.4	33.5	0.7	7.5	8.2	1.1
	Methylisobutyl ketone	108-10-1	15.1	0.5	0.0	1.7	0.4	0.2
	Butanal	123-72-8	24.4	8.8	0.4	11.0	6.3	0.6
	Hexanal	66-25-1	271.7	848.4	3.1	143.4	482.7	3.4
	Pentanal	110-62-3	62.8	79.9	1.3	31.4	57.0	1.8
Aliphatic	Decane	124-18-5	58.8	240.7	4.1	35.5	97.0	2.7
	Dodecane	112-40-3	20.0	17.1	0.9	23.3	6.9	0.3
	Hexane	110-54-3	10.9	2.1	0.2	12.5	1.8	0.1
	Nonane	111-84-2	16.1	65.8	4.1	10.7	26.5	2.5
	Undecane	1120-21-4	52.0	104.0	2.0	38.6	41.9	1.1
Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2	27.9	0.2	0.0	4.9	0.1	0.0
	Toluene, 3-ethyl-	620-14-4	26.5	28.0	1.1	2.1	11.4	5.4
	Toluene, 4-ethyl-	622-96-8	11.1	13.4	1.2	1.0	5.4	5.2
	Benzene, 1,2,3-trimethyl-	526-73-8	12.8	9.6	0.7	3.0	3.9	1.3
	Benzene, 1,2,4-trimethyl-	95-63-6	51.5	47.8	0.9	5.8	20.1	3.5
	Benzene, 1,2-dimethyl-	95-47-6	63.0	5.7	0.1	10.1	1.6	0.2
	Benzene, 1,3,5-trimethyl-	108-67-8	16.3	13.1	0.8			
	Benzene, 1,3-dimethyl-	108-38-3	154.9	35.0	0.2	27.8	12.7	0.5
	Ethylbenzene	100-41-4	39.1	8.1	0.2	8.5	2.7	0.3
	Styrene	100-42-5	15.1	7.4	0.5	1.9	0.6	0.3
	Toluene	108-88-3	790.3	4.2	0.0	276.1	6.0	0.0
Esters & glycols	Acetic acid, butyl ester	123-86-4	498.7	5.2	0.0	78.3	0.1	0.0
	Acetic acid, ethyl ester	141-78-6	291.5	1.4	0.0	46.8	0.5	0.0
	Texanol	25265-77-4	133.7	239.4	1.8	57.3	72.7	1.3
	Propanol, 1-methoxy-2-	107-98-2	114.4	0.8	0.0	2.8	0.0	0.0
	Propanol, 2-methyl-2-	75-65-0	24.1	10.4	0.4	3.1	3.2	1.0
Terpenes	alpha-Pinene	80-56-8	557.2	84.8	0.2	1460.7	6705.0	4.6
	beta-Pinene	127-91-3	106.6	10.2	0.1	297.7	438.1	1.5
	3-Carene	13466-78-9	68.8	0.6	0.0	289.9	190.4	0.7
	Camphene	79-92-5	14.3	1.5	0.1	55.0	127.8	2.3
	Limonene	5989-27-5	58.4	8.9	0.2	110.8	249.0	2.2
Other	Acetic acid	64-19-7	656.3	1149.2	1.8	463.7	965.6	2.1
	Furan, 2-pentyl	3777-69-3	13.1	4.2	0.3	4.1	2.9	0.7
	n-Butyl ether	142-96-1	21.7	34.6	1.6	2.6	11.8	4.5
DNPH	Formaldehyde	50-00-0	87.1	102.1	1.2	37.3	38.8	1.0
	Acetaldehyde	75-07-0	203.6	102.7	0.5	61.7	46.2	0.7
	Propanal	123-38-6	32.6	25.3	0.8	11.9	12.1	1.0

Appendix D - Chamber concentrations and emission factors

This section contains the chamber concentrations corrected for background levels and emission factors.

Table D. 1 Chamber concentration and emission factor for "Structural: I-joist, OSB web (test: IJ)"

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})									Emission factor (μg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	96 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	24 h	96 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3	40.4	31.7	32.4	31.8	29.8	30.1	29.3	29.1	28.3	21.0	16.5	16.9	16.6	15.5	15.7	15.3	15.2	14.7	-0.1	30.4	0.9
2		1-Propanol	71-23-8	1.6	1.4	1.6	1.9	1.5	1.8	2.2	2.3	2.2	0.8	0.7	0.8	1.0	0.8	1.0	1.1	1.2	1.1	0.1	0.5	0.4
3		Hexanol, 2-ethyl-1-	104-76-7																					
4		2-Propanol	67-63-0	2.7	3.4	4.0	4.3	4.0	4.5	4.8	4.8	4.6	1.4	1.8	2.1	2.2	2.1	2.4	2.5	2.5	2.4	0.2	0.7	1.0
5		Ethanol	64-17-5	12.4	14.6	13.3	15.8	15.9	17.6	15.9	14.4	15.9	6.4	7.6	6.9	8.2	8.3	9.1	8.3	7.5	8.3	0.1	4.8	0.6
6		Phenol	108-95-2	0.9	0.5	0.7	0.8	0.6	0.8	0.9	0.6	0.6	0.4	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.0	0.5	0.1
7	Aldehydes & Ketones	Methylethyl ketone	78-93-3	2.8	2.5	4.1	4.4	3.5	4.8	5.2	5.4	5.2	1.5	1.3	2.1	2.3	1.8	2.5	2.7	2.8	2.7	0.3	0.5	0.7
8		Acetone	67-64-1	56.5	52.6	52.2	42.1	49.8	43.3	41.1	41.1	38.2	29.4	27.4	27.2	21.9	25.9	22.5	21.4	21.4	19.9	-0.1	49.1	0.7
9		Acetophenone	98-86-2	0.7	0.1	0.5	0.5	0.2	0.6	0.9	0.6	0.4	0.4	0.0	0.3	0.3	0.1	0.3	0.5	0.3	0.2	0.1	0.1	0.0
10		Cyclohexanone	108-94-1																					
11		Methylisobutyl ketone	108-10-1	0.4	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	-0.1	0.4	0.2
12		Benzaldehyde	100-52-7	3.0	1.4	2.3	2.4	1.6	2.2	2.8	2.2	1.8	1.6	0.7	1.2	1.3	0.9	1.1	1.5	1.1	0.9	-0.1	1.6	0.0
13		Butanal	123-72-8	6.8	3.7	6.2	7.2	5.4	9.3	11.6	12.3	11.3	3.5	1.9	3.2	3.7	2.8	4.8	6.0	6.4	5.9	0.3	1.0	0.3
14		Decanal	112-31-2																					
15		2-Decenal	3913-81-3																					
16		Furfural	98-01-1	4.2	3.7	4.1	3.8	3.9	4.7	4.0	4.2	3.7	2.2	1.9	2.1	2.0	2.1	2.4	2.1	2.2	1.9	0.0	2.1	0.0
17		Heptanal	111-71-7	6.0									3.1											
18		Hexanal	66-25-1	238.9	200.3	208.0	227.4	224.6	251.4	255.1	264.1	259.6	124.4	104.3	108.3	118.4	117.0	130.9	132.8	137.5	135.2	0.1	94.2	0.2
19		Nonanal	124-19-6	1.4	0.9	1.1	1.0	1.0	0.9	1.4	1.0	1.0	0.7	0.5	0.6	0.5	0.5	0.5	0.7	0.5	0.5	-0.1	0.9	0.2
20		2-Nonenal	18829-56-6																					
21		2-Octenal	2548-87-0	10.6	8.4	6.7	9.2	9.1	10.5	10.5	10.6	10.4	5.5	4.4	3.5	4.8	4.7	5.4	5.5	5.5	5.4	0.0	4.4	0.0
22		Pentanal	110-62-3	41.4	39.6	47.7	55.1	52.0	64.6	65.6	69.0	68.6	21.6	20.6	24.8	28.7	27.1	33.6	34.2	35.9	35.7	0.2	9.4	0.7
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																					
24		Pentane, 3-methyl-	96-14-0	28.5	8.3								14.8	4.3										
25		2,2,4-Trimethylpentane	540-84-1	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1		0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1		-1.8	286.9	0.1
26		2,4-Dimethylpentane	108-08-7																					
27		Decane	124-18-5																					
28		Dodecane	112-40-3																					
29		Heptane	142-82-5	3.3	2.0	1.4	1.2	1.2	0.7	0.7	0.7	0.6	1.7	1.0	0.7	0.6	0.6	0.4	0.4	0.3	0.3	-0.6	16.0	0.9
30		Hexadecane	544-76-3																					
31		Hexane	110-54-3	23.9	8.1	4.6	3.0	3.6	2.4	2.0	1.9	1.6	12.4	4.2	2.4	1.5	1.9	1.2	1.0	1.0	0.8	-1.0	341.7	1.0
32		Nonane	111-84-2																					
33		Octane	111-65-9	2.1	1.2	1.0	0.7	0.7	0.6	0.5	0.4	0.4	1.1	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	-0.6	8.4	0.9
34		Pentadecane	629-62-9	0.2	0.1								0.1	0.0										
35		Tetradecane	629-59-4	0.2	0.1								0.1	0.1										
36		Tridecane	629-50-5																					
37		Undecane	1120-21-4																					
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2																					
39		Toluene, 2-ethyl-	611-14-3																					
40		Toluene, 3-ethyl-	620-14-4	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.0	0.9
41		Toluene, 4-ethyl-	622-96-8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.0	0.9
42		Cyclohexene, 4-phenyl	4994-16-5																					
43		Benzene	71-43-2	1.3		0.4	0.3		0.5	0.2			0.7		0.2	0.2		0.3	0.1			-2.6	488.3	0.1
44		Benzene, 1,2,3-trimethyl-	526-73-8																					
45		Benzene, 1,2,4-trimethyl-	95-63-6																					
46		Benzene, 1,2-dimethyl-	95-47-6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.2	0.2	0.7
47		Benzene, 1,3,5-trimethyl-	108-67-8																					
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3	2.0	3.7	3.8	3.8	3.8	3.6	3.5	3.5	3.5	1.1	1.9	2.0	2.0	2.0	1.9	1.8	1.8	1.8	0.2	0.7	0.6
49		Benzene, isopropyl	98-82-8	0.7	1.5	1.6	1.6	1.8	1.8	1.7	1.7	1.7	0.3	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.3	0.1	0.9
50		Benzene, propyl-	103-65-1	0.4	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.1	0.9

Note: An empty cell means the compound was not detected or the the chamber concentration was lower than the background level.

Table D. 1 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	96 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	24 h	96 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	0.0	0.2
52		Naphthalene	91-20-3	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	-1.0	0.2	0.1
53		p-Cymene	99-87-6	7.8	5.3	4.0	3.5	3.3	2.8	2.4	2.4	2.3	3.6	2.4	1.9	1.6	1.5	1.3	1.1	1.1	1.1	-0.5	18.1	0.9
54		Styrene	100-42-5	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	-0.2	0.3	0.5
55		Toluene	108-88-3	1.1	1.1	0.2	0.1	0.1	0.1	0.1		0.6	0.5	0.5	0.1	0.1	0.1	0.0	0.1		0.3	-2.1	1916.1	0.2
56		2-Phenylpropene	98-83-9																					
57		Indene	95-13-6																					
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																					
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																					
60		Acetic acid, butyl ester	123-86-4																					
61		Acetic acid, ethyl ester	141-78-6	5.1	3.2	2.9	2.2	1.6	1.7	1.7	1.3	1.4	2.3	1.5	1.3	1.0	0.7	0.8	0.8	0.6	0.7	-0.5	13.3	0.9
62		Methyl methacrylate	80-62-6																					
63		2-Ethylhexyl acetate	103-09-3																					
64		2-Methoxyethylacetate	110-49-6																					
65		Butyrolactone	96-48-0																					
66		Texanol	25265-77-4																					
67		TXIB	6846-50-0																					
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1																					
69		1,2-Propanediol	57-55-6																					
70		Diethylene glycol monoethyl ether	111-90-0																					
71		Propanol, 1-methoxy-2-	107-98-2																					
72		Ethanol, 2-butoxy-	111-76-2																					
73		Ethanol, 2-butoxyethoxy-	112-34-5																					
74		Ethanol, 2-ethoxy-	110-80-5																					
75		Ethanol, 2-methoxy-	109-86-4																					
76		Propanol, 2-methyl-2-	75-65-0																					
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																					
78		1,2-Dichlorobenzene	95-50-1																					
79		1,2-Dichloroethane	107-06-2																					
80		1,2-Dichloropropane	78-87-5																					
81		1,4-Dichlorobenzene	106-46-7																					
82		Bromodichloromethane	75-27-4																					
83		Carbon tetrachloride	56-23-5																					
84		Chloroform	67-66-3																					
85		Dibromochloromethane	124-48-1																					
86		Dichloromethane	75-09-2									0.7									0.3			
87		Tetrachloroethylene	127-18-4																					
88		Trichloroethylene	79-01-6		0.1					0.0		0.8		0.0					0.0		0.4	1.3	0.0	0.0
89		1,1,2,2-Tetrachloroethane	79-34-5																					
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																					
91		Cyclohexane	110-82-7																					
92		Cyclohexane, butyl-	1678-93-9																					
93		Cyclohexane, ethyl-	1678-91-7																					
94		Cyclohexane, propyl-	1678-92-8																					
95		Decahydronaphthalene	91-17-8																					
96	Terpenes	alpha-Pinene	80-56-8	2001.6	915.0	668.1	531.3	534.9	444.2	406.5	379.9	377.1	919.0	420.1	306.7	243.9	245.6	204.0	186.6	174.4	173.1	-0.6	7343.9	1.0
97		alpha-Terpinene	99-86-5																					
98		beta-Pinene	127-91-3	295.5	148.1	103.2	79.5	80.3	63.7	57.7	51.4	51.4	135.7	68.0	47.4	36.5	36.9	29.3	26.5	23.6	23.6	-0.7	1295.7	1.0
99		gamma-Terpinene	99-85-4																					
100		3-Carene	13466-78-9	13.2	7.4	5.6	4.4	4.4	3.6	3.3	2.9	3.0	6.0	3.4	2.6	2.0	2.0	1.7	1.5	1.3	1.4	-0.6	42.0	1.0
101		Camphene	79-92-5	42.4	18.6	12.8	9.6	9.8	7.6	7.0	6.5	6.5	19.5	8.6	5.9	4.4	4.5	3.5	3.2	3.0	3.0	-0.7	212.9	1.0
102		Limonene	138-86-3	107.9	71.3	57.5	46.2	46.5	37.9	34.2	31.8	31.8	49.6	32.7	26.4	21.2	21.4	17.4	15.7	14.6	14.6	-0.5	255.1	1.0

Table D. 1 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	96 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	24 h	96 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	m	b	R^2
103	Acids	Acetic acid	64-19-7	1385.0	1095.3	1119.2	770.2	657.6	883.2	763.4	616.2	726.6	635.9	502.9	513.9	353.6	301.9	405.5	350.5	282.9	333.6	-0.3	1638.8	0.7
104		Isobutyric acid	79-31-2																					
105		Butyric acid	107-92-6	2.6	1.9	1.7	1.7	1.4	1.7	1.5	1.3	1.4	1.2	0.8	0.8	0.8	0.7	0.8	0.7	0.6	0.7	-0.2	2.4	0.9
106		Heptanoic acid	111-14-8																					
107		2-Ethylhexanoic acid	149-57-5																					
108		Hexanoic acid	142-62-1	33.2	22.3	16.9	13.5	11.2	9.8	8.4	6.3	5.9	15.3	10.3	7.8	6.2	5.1	4.5	3.9	2.9	2.7	-0.6	149.1	0.9
109		Pentanoic acid	109-52-4																					
110		Octanoic acid	124-07-2																					
111	Other	Furan, 2-pentyl	3777-69-3	15.6	9.0	8.0	6.7	7.7	3.5	3.2	2.5	2.0	7.2	4.1	3.7	3.1	3.5	1.6	1.5	1.1	0.9	-0.7	94.7	0.8
112		2-Pyrrolidinone, 1-methyl-	872-50-4																					
113		1,4-Dioxane	123-91-1	0.2	0.0			0.1	0.1	0.2			0.1	0.0			0.0	0.1	0.1			-2.5	134.6	0.1
114		Triethyl phosphate	78-40-0																					
115		n-Butyl ether	142-96-1																					
116		2-Butanone oxime	96-29-7																					
117		Triethylamine	121-44-8																					
A1	Abundant	1-Pentanol	71-41-0	21.8	18.1	15.8	14.4	14.2	13.4	12.6	11.9	11.9	10.0	8.3	7.2	6.6	6.5	6.2	5.8	5.5	5.5	-0.2	22.3	0.9
A2		Cyclotrisiloxane, hexamethyl-	541-05-9	4.4	2.8	6.5	1.8	4.0	2.6	2.5	1.2	2.2	2.0	1.3	3.0	0.8	1.8	1.2	1.1	0.5	1.0	-0.3	7.3	0.3
		TVOC	0-0-0	3203.9	1789.9	1391.0	1118.8	1086.7	996.3	915.7	823.8	852.9	1471.0	821.8	638.6	513.7	499.0	457.4	420.4	378.2	391.6	-0.5	7980.9	1.0
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				25.0 h	97.0 h	145.2 h	193.0 h	195.2 h	265h- h	289.2 h	337.3 h	339.1 h	25.0 h	97.0 h	145.2 h	193.0 h	195.2 h	265h- h	289.2 h	337.3 h	339.1 h	m	b	R^2
D1	DNPH	Formaldehyde	50-00-0	43.6	34.1	30.7	28.0	28.7	25.7	25.8	24.2	24.1	20.0	15.7	14.1	12.9	13.2	11.8	11.8	11.1	11.1	-0.2	43.2	1.0
D2		Acetaldehyde	75-07-0	562.2	283.1	222.1	192.2	191.9	162.2	157.2	144.8	143.8	258.1	130.0	102.0	88.2	88.1	74.5	72.2	66.5	66.0	-0.5	1405.3	1.0
D3		Propanal	123-38-6	42.7	20.4	14.8	12.4	11.9	9.7	9.0	7.7	7.4	19.6	9.4	6.8	5.7	5.5	4.5	4.1	3.6	3.4	-0.7	179.3	1.0

Table D. 2 Chamber concentration and emission factor for "Flooring: sub, panel-type, OSB (test: OSB-SF)"

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})									Emission factor (μg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	96 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	24 h	96 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3	15.0	17.5	16.7	14.2	14.4	13.5	13.3	12.7	12.2	14.7	17.1	16.3	13.9	14.1	13.2	13.1	12.4	12.0	-0.1	21.8	0.4
2		1-Propanol	71-23-8	4.5	4.6	4.1	2.6	1.6	2.5	2.3	2.1	2.3	4.4	4.5	4.1	2.6	1.6	2.5	2.2	2.0	2.2	-0.3	14.8	0.5
3		Hexanol, 2-ethyl-1-	104-76-7	6.7	5.1	4.9	4.6	4.4	3.9	4.3	3.5	3.8	6.6	5.0	4.8	4.5	4.3	3.9	4.2	3.4	3.7	-0.2	13.7	0.9
4		2-Propanol	67-63-0	5.7	6.8	8.1	4.8	2.4	4.7	4.5	2.6	3.1	5.6	6.7	7.9	4.7	2.3	4.6	4.4	2.5	3.0	-0.3	17.2	0.3
5		Ethanol	64-17-5	11.3	9.7	6.7	7.7	5.1	5.4	5.2	4.9	3.6	11.0	9.5	6.6	7.6	5.0	5.3	5.1	4.8	3.5	-0.4	42.2	0.8
6		Phenol	108-95-2	2.0	2.2	2.0	1.6	1.3	1.3	1.7	1.1	1.1	2.0	2.1	1.9	1.5	1.3	1.3	1.6	1.1	1.1	-0.2	4.8	0.6
7	Aldehydes & Ketones	Methylethyl ketone	78-93-3	7.7	6.5	6.1	4.5	3.6	4.6	4.4	4.2	4.3	7.5	6.3	5.9	4.4	3.5	4.5	4.3	4.1	4.2	-0.2	17.3	0.7
8		Acetone	67-64-1	87.6	78.8	74.8	81.2	72.1	73.0	67.2	54.2	55.2	85.8	77.2	73.3	79.6	70.6	71.5	65.9	53.1	54.1	-0.1	148.2	0.6
9		Acetophenone	98-86-2	1.4	0.6	0.6			0.4	2.0			1.4	0.5	0.6			0.4	2.0			-4.2	4.E+06	0.2
10		Cyclohexanone	108-94-1																					
11		Methylisobutyl ketone	108-10-1																					
12		Benzaldehyde	100-52-7	2.5	2.0	2.4	0.4	0.0	0.9	2.1		0.7	2.5	1.9	2.4	0.4	0.0	0.8	2.1		0.7	-2.2	14476.8	0.2
13		Butanal	123-72-8	6.5	6.8	7.9	5.4	4.5	7.5	6.1	7.6	7.9	6.4	6.7	7.7	5.3	4.4	7.4	6.0	7.4	7.7	0.0	5.8	0.0
14		Decanal	112-31-2	1.2	0.8	0.7	0.7	0.7	0.6	2.4	0.5	0.6	1.2	0.8	0.7	0.7	0.7	0.6	2.3	0.5	0.6	-0.2	1.8	0.1
15		2-Decenal	3913-81-3																					
16		Furfural	98-01-1	8.7	10.4	9.4	8.8	8.5	7.6	7.1	6.9	6.7	8.5	10.2	9.3	8.6	8.3	7.4	7.0	6.8	6.6	-0.1	14.1	0.4
17		Heptanal	111-71-7	5.1	4.7	4.2	3.6	3.8	3.4	3.2	2.8	2.9	5.0	4.6	4.1	3.5	3.7	3.3	3.2	2.8	2.9	-0.2	10.9	0.8
18		Hexanal	66-25-1	400.9	360.8	332.4	301.9	312.9	284.1	265.2	271.1	253.0	392.9	353.6	325.7	295.8	306.7	278.4	259.9	265.7	248.0	-0.2	716.3	0.9
19		Nonanal	124-19-6	1.8	1.5	1.4	1.2	1.2	1.2	2.8	1.1	1.1	1.8	1.4	1.3	1.2	1.2	1.1	2.8	1.1	1.1	-0.1	2.4	0.1
20		2-Nonenal	18829-56-6																					
21		2-Octenal	2548-87-0	22.6	27.6	24.1	23.4	24.8	24.0	22.5	21.0	18.7	22.2	27.1	23.6	22.9	24.3	23.6	22.1	20.6	18.3	0.0	28.6	0.1
22		Pentanal	110-62-3	80.0	79.6	76.7	70.1	71.9	68.9	65.6	66.9	62.2	78.4	78.0	75.2	68.7	70.4	67.5	64.2	65.5	60.9	-0.1	109.8	0.7
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																					
24		Pentane, 3-methyl-	96-14-0																					
25		2,2,4-Trimethylpentane	540-84-1																					
26		2,4-Dimethylpentane	108-08-7																					
27		Decane	124-18-5	0.6	0.4	0.4							0.6	0.4	0.3							-6.3	6.E+09	0.7
28		Dodecane	112-40-3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	-0.3	0.7	0.6
29		Heptane	142-82-5	0.3									0.3											
30		Hexadecane	544-76-3				0.1	0.1	0.1	0.1						0.1	0.1	0.1	0.1			2.6	0.0	0.1
31		Hexane	110-54-3		11.9	2.1	1.8		2.0	2.0				11.7	2.0	1.7		1.9	2.0			0.9	0.0	0.0
32		Nonane	111-84-2	1.1	0.4	0.4			0.2	0.3			1.1	0.4	0.4			0.2	0.3			-4.3	4.E+06	0.3
33		Octane	111-65-9	0.9									0.9											
34		Pentadecane	629-62-9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.1	0.3	0.2
35		Tetradecane	629-59-4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.2	0.6	0.6
36		Tridecane	629-50-5	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.2	0.4	0.9
37		Undecane	1120-21-4	1.4	1.0	0.9	0.7	0.7	0.7	0.6	0.5	0.5	1.4	1.0	0.9	0.7	0.7	0.7	0.6	0.5	0.5	-0.4	5.1	0.9
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2																					
39		Toluene, 2-ethyl-	611-14-3																					
40		Toluene, 3-ethyl-	620-14-4																					
41		Toluene, 4-ethyl-	622-96-8																					
42		Cyclohexene, 4-phenyl	4994-16-5																					
43		Benzene	71-43-2																					
44		Benzene, 1,2,3-trimethyl-	526-73-8																					
45		Benzene, 1,2,4-trimethyl-	95-63-6																					
46		Benzene, 1,2-dimethyl-	95-47-6							0.0									0.0					
47		Benzene, 1,3,5-trimethyl-	108-67-8																					
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	-0.3	0.4	0.4
49		Benzene, isopropyl	98-82-8																					
50		Benzene, propyl-	103-65-1																					

Note: An empty cell means the compound was not detected or the chamber concentration was lower than the background level.

Table D. 2 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	96 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	24 h	96 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4																					
52		Naphthalene	91-20-3	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.0	0.1	-0.1	0.2	0.1
53		p-Cymene	99-87-6	0.3	0.2	0.2	0.2	0.1	0.2	0.6	0.0	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.6	0.0	0.2	-0.4	1.2	0.1
54		Styrene	100-42-5																					
55		Toluene	108-88-3																					
56		2-Phenylpropene	98-83-9																					
57		Indene	95-13-6																					
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																					
59		Acetic acid, 2-ethoxyethyl ester	111-15-9	1.0	0.9	0.7	0.5	0.4	0.5	0.4	0.3	0.4	1.0	0.9	0.7	0.5	0.4	0.5	0.4	0.3	0.4	-0.4	4.3	0.8
60		Acetic acid, butyl ester	123-86-4																					
61		Acetic acid, ethyl ester	141-78-6																					
62		Methyl methacrylate	80-62-6																					
63		2-Ethylhexyl acetate	103-09-3																					
64		2-Methoxyethylacetate	110-49-6																					
65		Butyrolactone	96-48-0																					
66		Texanol	25265-77-4																					
67		TXIB	6846-50-0																					
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1																					
69		1,2-Propanediol	57-55-6																					
70		Diethylene glycol monoethyl ether	111-90-0																					
71		Propanol, 1-methoxy-2-	107-98-2																					
72		Ethanol, 2-butoxy-	111-76-2																					
73		Ethanol, 2-butoxyethoxy-	112-34-5																					
74		Ethanol, 2-ethoxy-	110-80-5																					
75		Ethanol, 2-methoxy-	109-86-4																					
76		Propanol, 2-methyl-2-	75-65-0																					
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																					
78		1,2-Dichlorobenzene	95-50-1																					
79		1,2-Dichloroethane	107-06-2																					
80		1,2-Dichloropropane	78-87-5																					
81		1,4-Dichlorobenzene	106-46-7																					
82		Bromodichloromethane	75-27-4																					
83		Carbon tetrachloride	56-23-5																					
84		Chloroform	67-66-3							1.3									1.2					
85		Dibromochloromethane	124-48-1																					
86		Dichloromethane	75-09-2	0.2	0.0	0.1			0.1	1.0		0.0	0.2	0.0	0.1			0.1	1.0		0.0	-2.0	78.3	0.1
87		Tetrachloroethylene	127-18-4																					
88		Trichloroethylene	79-01-6																					
89		1,1,2,2-Tetrachloroethane	79-34-5																					
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																					
91		Cyclohexane	110-82-7																					
92		Cyclohexane, butyl-	1678-93-9																					
93		Cyclohexane, ethyl-	1678-91-7																					
94		Cyclohexane, propyl-	1678-92-8	0.8	0.3	0.2	0.1	0.1	0.1	0.1			0.8	0.3	0.2	0.1	0.1	0.1	0.1			-3.7	2.E+06	0.3
95		Decahydronaphthalene	91-17-8																					
96	Terpenes	alpha-Pinene	80-56-8	0.1									0.1											
97		alpha-Terpinene	99-86-5																					
98		beta-Pinene	127-91-3																					
99		gamma-Terpinene	99-85-4																					
100		3-Carene	13466-78-9	0.1									0.1											
101		Camphene	79-92-5																					
102		Limonene	138-86-3	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.0	0.1	-0.1	0.2	0.1

Table D. 2 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	96 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	24 h	96 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	m	b	R^2
103	Acids	Acetic acid	64-19-7	1977.4	2415.9	2370.5	1734.9	1779.4	1726.6	1617.8	1602.1	1659.9	1938.0	2367.7	2323.2	1700.3	1743.9	1692.1	1585.5	1570.2	1626.8	-0.1	3170.4	0.3
104		Isobutyric acid	79-31-2																					
105		Butyric acid	107-92-6	3.5	4.0	3.8	2.7	2.7	2.5	2.5	2.3	2.1	3.5	3.9	3.8	2.6	2.7	2.4	2.5	2.3	2.1	-0.2	7.9	0.6
106		Heptanoic acid	111-14-8																					
107		2-Ethylhexanoic acid	149-57-5																					
108		Hexanoic acid	142-62-1	46.8	28.8	23.3	14.9	14.4	11.1	9.9	7.0	7.5	45.9	28.2	22.9	14.6	14.2	10.9	9.7	6.9	7.4	-0.7	575.0	0.9
109		Pentanoic acid	109-52-4	15.0	11.4	9.8	6.9	6.4	4.8	4.2	3.1	3.7	14.7	11.2	9.6	6.8	6.2	4.7	4.1	3.1	3.7	-0.6	122.5	0.8
110		Octanoic acid	124-07-2																					
111	Other	Furan, 2-pentyl	3777-69-3	29.7	22.6	19.4	26.4	27.5	21.1	10.2	17.4	4.5	29.1	22.1	19.0	25.9	27.0	20.6	10.0	17.1	4.4	-0.4	128.8	0.3
112		2-Pyrrolidinone, 1-methyl-	872-50-4																					
113		1,4-Dioxane	123-91-1	0.3	0.6	0.5	0.5	0.5	0.6	0.3	0.3	0.4	0.3	0.6	0.5	0.5	0.4	0.6	0.3	0.3	0.3	0.0	0.5	0.0
114		Triethyl phosphate	78-40-0																					
115		n-Butyl ether	142-96-1																					
116		2-Butanone oxime	96-29-7																					
117		Triethylamine	121-44-8																					
A1	Abundant	Acetic acid, methyl ester	79-20-9	26.6	24.2	21.3	14.6	8.7	16.3	9.7	8.9	10.7	26.1	23.7	20.9	14.3	8.5	15.9	9.5	8.7	10.5	-0.4	116.4	0.6
A2		1-Pentanol	71-41-0	27.0	34.8	32.7	30.1	31.1	28.0	26.3	26.5	24.5	26.5	34.1	32.0	29.5	30.5	27.5	25.8	26.0	24.0	0.0	34.4	0.1
A3		Cyclotrisiloxane, hexamethyl-	541-05-9	5.0	3.8	3.5	4.5	15.0	1.1	3.4	4.5	1.0	4.9	3.8	3.4	4.4	14.7	1.1	3.3	4.4	1.0	-0.3	16.5	0.1
		TVOC	0-0-0	746.0	779.9	742.5	604.7	622.9	576.1	555.9	531.7	522.1	731.2	764.4	727.7	592.6	610.5	564.6	544.8	521.1	511.7	-0.1	1312.4	0.7
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				25.0 h	97.0 h	145.2 h	193.0 h	195.2 h	265h- h	289.2 h	337.3 h	339.1 h	25.0 h	97.0 h	145.2 h	193.0 h	195.2 h	265h- h	289.2 h	337.3 h	339.1 h	m	b	R^2
D1	DNPH	Formaldehyde	50-00-0	6.1	5.8	5.5	5.4	5.6	4.5	5.3	5.3	5.5	5.9	5.7	5.3	5.3	5.5	4.4	5.2	5.2	5.4	-0.1	7.3	0.4
D2		Acetaldehyde	75-07-0	75.2	42.7	33.3	28.2	26.3	20.4	19.9	18.0	19.0	73.7	41.9	32.6	27.6	25.8	20.0	19.5	17.7	18.6	-0.6	486.3	1.0
D3		Propanal	123-38-6	38.1	24.8	19.9	17.1	16.6	12.8	12.4	11.2	10.9	37.3	24.3	19.5	16.8	16.3	12.5	12.1	11.0	10.7	-0.5	201.2	1.0

Table D. 3 Chamber concentration and emission factor for "Flooring: underlay, plywood (test: Ply-UL)"

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})									Emission factor (μg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	121 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	24 h	121 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3	0.5	0.6	0.5	0.7	0.5	0.4	0.7	0.6	0.6	0.5	0.6	0.5	0.7	0.5	0.4	0.7	0.6	0.6	0.0	0.5	0.0
2		1-Propanol	71-23-8																					
3		Hexanol, 2-ethyl-1-	104-76-7	1.3	0.6	0.8	0.6	0.5	0.5	0.5	0.3	0.3	1.2	0.6	0.8	0.6	0.5	0.5	0.5	0.3	0.3	-0.5	6.0	0.8
4		2-Propanol	67-63-0	0.2	0.7	0.3	0.3	0.2	0.2	0.9	0.7	0.5	0.2	0.7	0.3	0.3	0.2	0.2	0.9	0.7	0.5	0.3	0.1	0.2
5		Ethanol	64-17-5																					
6		Phenol	108-95-2	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	-0.6	2.2	0.6
7	Aldehydes & Ketones	Methylethyl ketone	78-93-3	0.2	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.2	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.1	0.1	0.5
8		Acetone	67-64-1	12.3	21.8	12.4	13.1	10.9	9.9	18.7	16.9	14.0	12.2	21.7	12.3	13.0	10.8	9.8	18.5	16.7	13.9	0.0	11.2	0.0
9		Acetophenone	98-86-2		0.3	0.4	0.5	0.3	0.2	0.0	0.2	0.0		0.3	0.4	0.5	0.3	0.2	0.0	0.2	0.0	3.8	0.0	0.6
10		Cyclohexanone	108-94-1																					
11		Methylisobutyl ketone	108-10-1																					
12		Benzaldehyde	100-52-7	0.0	0.2	0.7	0.3	0.2	0.2				0.0	0.2	0.7	0.3	0.2	0.2				-3.3	9.E+04	0.2
13		Butanal	123-72-8	0.3	0.3	0.4	0.5	0.4	0.4	0.5	0.6	0.6	0.3	0.3	0.4	0.5	0.4	0.4	0.5	0.6	0.6	0.3	0.1	0.8
14		Decanal	112-31-2			1.1									1.1									
15		2-Decenal	3913-81-3																					
16		Furfural	98-01-1	1.7	1.7	1.5	1.5	1.5	1.3	1.5	1.8	2.0	1.7	1.6	1.5	1.4	1.5	1.3	1.5	1.8	2.0	0.0	1.6	0.0
17		Heptanal	111-71-7			0.4						0.2			0.4						0.2			
18		Hexanal	66-25-1	10.2	10.7	12.2	11.7	11.3	10.8	12.1	12.3	13.0	10.2	10.6	12.1	11.6	11.2	10.7	12.0	12.2	12.9	0.1	8.1	0.5
19		Nonanal	124-19-6	0.4	0.2	1.2	0.2	0.2	0.2	0.2			0.4	0.2	1.2	0.2	0.2	0.2	0.2			-3.3	4.E+05	0.2
20		2-Nonenal	18829-56-6																					
21		2-Octenal	2548-87-0																					
22		Pentanal	110-62-3	2.0	2.2	2.6	2.6	2.4	2.3	2.9	3.0	3.1	2.0	2.2	2.6	2.6	2.3	2.3	2.9	2.9	3.0	0.1	1.2	0.7
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																					
24		Pentane, 3-methyl-	96-14-0																					
25		2,2,4-Trimethylpentane	540-84-1																					
26		2,4-Dimethylpentane	108-08-7																					
27		Decane	124-18-5																					
28		Dodecane	112-40-3																					
29		Heptane	142-82-5																					
30		Hexadecane	544-76-3																					
31		Hexane	110-54-3									24.2									24.0			
32		Nonane	111-84-2																					
33		Octane	111-65-9																					
34		Pentadecane	629-62-9																					
35		Tetradecane	629-59-4																					
36		Tridecane	629-50-5																					
37		Undecane	1120-21-4																					
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2																					
39		Toluene, 2-ethyl-	611-14-3																					
40		Toluene, 3-ethyl-	620-14-4																					
41		Toluene, 4-ethyl-	622-96-8																					
42		Cyclohexene, 4-phenyl	4994-16-5																					
43		Benzene	71-43-2	0.0	0.2	1.2	0.7	0.6	0.0	0.2	0.3	0.1	0.0	0.2	1.2	0.7	0.6	0.0	0.2	0.3	0.1	0.6	0.0	0.1
44		Benzene, 1,2,3-trimethyl-	526-73-8																					
45		Benzene, 1,2,4-trimethyl-	95-63-6																					
46		Benzene, 1,2-dimethyl-	95-47-6																					
47		Benzene, 1,3,5-trimethyl-	108-67-8																					
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3	0.1	0.0	0.1							0.1	0.0	0.1							-5.0	7.1E+06	0.6
49		Benzene, isopropyl	98-82-8																					
50		Benzene, propyl-	103-65-1																					

Note: An empty cell means the compound was not detected or the chamber concentration was lower than the background level.

Table D. 3 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	121 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	24 h	121 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4	0.0	0.0	0.1							0.0	0.0	0.1							-4.6	5.E+05	0.6
52		Naphthalene	91-20-3																					
53		p-Cymene	99-87-6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	-0.2	0.5	0.8
54		Styrene	100-42-5	0.0	0.0	0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0					-4.0	2.E+05	0.4
55		Toluene	108-88-3	0.1	0.1	1.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	1.0	0.1	0.1	0.0	0.0	0.0	0.0	-0.5	0.8	0.1
56		2-Phenylpropene	98-83-9																					
57		Indene	95-13-6																					
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																					
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																					
60		Acetic acid, butyl ester	123-86-4																					
61		Acetic acid, ethyl ester	141-78-6																					
62		Methyl methacrylate	80-62-6																					
63		2-Ethylhexyl acetate	103-09-3																					
64		2-Methoxyethylacetate	110-49-6																					
65		Butyrolactone	96-48-0																					
66		Texanol	25265-77-4																					
67		TXIB	6846-50-0																					
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1																					
69		1,2-Propanediol	57-55-6																					
70		Diethylene glycol monoethyl ether	111-90-0																					
71		Propanol, 1-methoxy-2-	107-98-2																					
72		Ethanol, 2-butoxy-	111-76-2																					
73		Ethanol, 2-butoxyethoxy-	112-34-5																					
74		Ethanol, 2-ethoxy-	110-80-5																					
75		Ethanol, 2-methoxy-	109-86-4																					
76		Propanol, 2-methyl-2-	75-65-0																					
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																					
78		1,2-Dichlorobenzene	95-50-1																					
79		1,2-Dichloroethane	107-06-2																					
80		1,2-Dichloropropane	78-87-5																					
81		1,4-Dichlorobenzene	106-46-7																					
82		Bromodichloromethane	75-27-4																					
83		Carbon tetrachloride	56-23-5																					
84		Chloroform	67-66-3																					
85		Dibromochloromethane	124-48-1																					
86		Dichloromethane	75-09-2			1.7									1.6									
87		Tetrachloroethylene	127-18-4																					
88		Trichloroethylene	79-01-6			1.3				0.3	0.2				1.2				0.3	0.2		2.4	0.0	0.1
89		1,1,2,2-Tetrachloroethane	79-34-5																					
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																					
91		Cyclohexane	110-82-7																					
92		Cyclohexane, butyl-	1678-93-9																					
93		Cyclohexane, ethyl-	1678-91-7																					
94		Cyclohexane, propyl-	1678-92-8																					
95		Decahydronaphthalene	91-17-8																					
96	Terpenes	alpha-Pinene	80-56-8	8.5	5.1	4.6	4.0	3.8	3.0	2.6	2.5	2.6	8.4	5.0	4.6	4.0	3.8	2.9	2.6	2.5	2.5	-0.5	41.6	0.9
97		alpha-Terpinene	99-86-5																					
98		beta-Pinene	127-91-3	0.8	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.3	0.8	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.3	-0.4	2.9	0.9
99		gamma-Terpinene	99-85-4																					
100		3-Carene	13466-78-9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.1	0.4	0.8
101		Camphene	79-92-5	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	-0.4	1.3	0.9
102		Limonene	138-86-3	2.6	2.3	2.4	2.2	2.1	1.8	1.7	1.6	1.6	2.6	2.2	2.4	2.1	2.1	1.8	1.7	1.6	1.6	-0.2	5.2	0.8

Table D. 3 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	121 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	24 h	121 h	144 h	192 h	196.5 h	264 h	288 h	336.0 h	336.2 h	m	b	R^2
103	Acids	Acetic acid	64-19-7	13.5	6.3	1.9						0.2	13.4	6.3	1.9						0.2	-6.0	2.E+10	0.4
104		Isobutyric acid	79-31-2																					
105		Butyric acid	107-92-6																					
106		Heptanoic acid	111-14-8																					
107		2-Ethylhexanoic acid	149-57-5																					
108		Hexanoic acid	142-62-1	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.4	0.4	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.4	0.3	-0.2	1.6	0.6
109		Pentanoic acid	109-52-4																					
110		Octanoic acid	124-07-2																					
111	Other	Furan, 2-pentyl	3777-69-3	0.5	0.4	0.3	0.4	0.5	0.5	0.3	0.6	0.6	0.5	0.4	0.3	0.4	0.5	0.4	0.3	0.6	0.6	0.1	0.3	0.0
112		2-Pyrrolidinone, 1-methyl-	872-50-4																					
113		1,4-Dioxane	123-91-1				0.0	0.0	0.1							0.0	0.0	0.1				1.3	0.0	0.0
114		Triethyl phosphate	78-40-0																					
115		n-Butyl ether	142-96-1																					
116		2-Butanone oxime	96-29-7																					
117		Triethylamine	121-44-8																					
A1	Abundant	Furan	110-00-9	0.6	0.5	0.6	0.4	0.4	0.3	0.3	0.2	0.4	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.4	-0.3	1.8	0.7
A2		Acetic acid, methyl ester	79-20-9	0.8	0.9	0.4	0.7	0.6	0.4	0.7	1.0	0.9	0.8	0.9	0.4	0.7	0.6	0.4	0.6	1.0	0.9	0.0	0.7	0.0
A3		1-Pentanol	71-41-0	0.3	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.0	0.3	0.1
		TVOC	0-0-0	34.1	27.5	36.1	26.6	22.0	17.2	23.2	19.7	28.5	33.8	27.3	35.8	26.4	21.8	17.1	23.0	19.5	28.2	-0.2	64.2	0.4
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				25.0 h	121.0 h	145.2 h	193.0 h	195.2 h	265h- h	289.2 h	337.3 h	339.1 h	25.0 h	121.0 h	145.2 h	193.0 h	195.2 h	265h- h	289.2 h	337.3 h	339.1 h	m	b	R^2
D1	DNPH	Formaldehyde	50-00-0	5.5	3.1	3.3	2.5	2.5	2.6	2.4	2.2	2.8	5.5	3.1	3.3	2.5	2.5	2.6	2.4	2.2	2.8	-0.3	14.4	0.9
D2		Acetaldehyde	75-07-0	16.7	10.4	9.9	8.9	8.6	7.6	8.3	7.8	7.3	16.6	10.3	9.9	8.8	8.5	7.5	8.2	7.8	7.2	-0.3	44.6	1.0
D3		Propanal	123-38-6	1.0	0.6	0.3	0.4	0.3	0.2	0.3	0.4	0.4	1.0	0.5	0.3	0.4	0.3	0.1	0.3	0.4	0.4	-0.5	4.5	0.6

Table D. 4 Chamber concentration and emission factor for "Flooring: red oak veneer, pine core (test: HWF1)"

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})							Emission factor (μg m^{-2} h^{-1})							Coefficient: E = b t^{m}		
				23 h	96 h	144.0 h	191.5 h	191.8 h	264.0 h	288.0 h	23 h	96 h	144.0 h	191.5 h	191.8 h	264.0 h	288.0 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3	0.1	0.4	0.3	0.1	0.1	0.4	0.4	0.3	0.9	0.7	0.3	0.4	1.1	0.9	0.3	0.2	0.2
2		1-Propanol	71-23-8																	
3		Hexanol, 2-ethyl-1-	104-76-7	0.1	0.1	0.3	0.0	0.0	0.0	0.1	0.2	0.1	0.7	0.0	0.0	0.1	0.1	-0.2	0.4	0.0
4		2-Propanol	67-63-0	0.3						0.4	0.8						1.0			
5		Ethanol	64-17-5	0.6	0.9	1.8	0.9	0.8	0.9	1.2	1.5	2.3	4.5	2.3	1.9	2.3	3.0	0.2	0.9	0.2
6		Phenol	108-95-2	0.3	0.2	0.2	0.0	0.0	0.1	0.1	0.7	0.4	0.4	0.1	0.1	0.1	0.2	-0.7	7.6	0.6
7	Aldehydes & Ketones	Methylethyl ketone	78-93-3	0.1		0.4					0.4		0.9							
8		Acetone	67-64-1	30.6	15.3	28.7	9.2	11.8	16.7	13.3	76.4	38.2	71.7	23.1	29.5	41.8	33.3	-0.3	217.1	0.4
9		Acetophenone	98-86-2	0.9	0.5	0.3	0.2	0.2	0.3	0.4	2.4	1.3	0.8	0.6	0.5	0.7	1.1	-0.5	10.4	0.6
10		Cyclohexanone	108-94-1	5.3	3.7	4.6	2.8	2.9	2.6	2.9	13.2	9.3	11.6	7.0	7.1	6.4	7.4	-0.3	32.9	0.7
11		Methylisobutyl ketone	108-10-1																	
12		Benzaldehyde	100-52-7	8.0	6.4	7.0	4.7	4.7	4.3	5.0	20.1	16.1	17.6	11.7	11.7	10.8	12.4	-0.2	45.4	0.7
13		Butanal	123-72-8	0.2		0.3		0.2	0.2	0.3	0.5		0.8		0.6	0.6	0.7	0.2	0.0	0.0
14		Decanal	112-31-2																	
15		2-Decenal	3913-81-3																	
16		Furfural	98-01-1	0.3	0.3	0.5	0.2	0.3	0.3	0.3	0.8	0.8	1.1	0.4	0.6	0.8	0.7	-0.1	1.0	0.0
17		Heptanal	111-71-7			0.3							0.7							
18		Hexanal	66-25-1	0.5		1.0		0.5	0.5	0.6	1.2		2.4		1.3	1.3	1.5	0.1	0.0	0.0
19		Nonanal	124-19-6			1.9							4.7							
20		2-Nonenal	18829-56-6																	
21		2-Octenal	2548-87-0																	
22		Pentanal	110-62-3			0.3		0.2		0.2			0.7		0.6		0.6	3.4	0.0	0.2
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																	
24		Pentane, 3-methyl-	96-14-0																	
25		2,2,4-Trimethylpentane	540-84-1																	
26		2,4-Dimethylpentane	108-08-7																	
27		Decane	124-18-5	0.9							2.3									
28		Dodecane	112-40-3																	
29		Heptane	142-82-5																	
30		Hexadecane	544-76-3																	
31		Hexane	110-54-3																	
32		Nonane	111-84-2																	
33		Octane	111-65-9																	
34		Pentadecane	629-62-9																	
35		Tetradecane	629-59-4	0.1							0.2									
36		Tridecane	629-50-5																	
37		Undecane	1120-21-4																	
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2	0.2							0.4									
39		Toluene, 2-ethyl-	611-14-3	4.3	0.1	0.1	0.1	0.1	0.1	0.1	10.8	0.2	0.2	0.2	0.2	0.1	0.2	-1.7	1267.7	0.9
40		Toluene, 3-ethyl-	620-14-4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.1	0.2
41		Toluene, 4-ethyl-	622-96-8																	
42		Cyclohexene, 4-phenyl	4994-16-5																	
43		Benzene	71-43-2		0.2							0.4								
44		Benzene, 1,2,3-trimethyl-	526-73-8	1.8	0.2	0.2	0.1	0.2	0.1	0.1	4.6	0.5	0.5	0.4	0.4	0.3	0.4	-1.1	105.2	0.9
45		Benzene, 1,2,4-trimethyl-	95-63-6	0.4	0.4	0.4	0.3	0.4	0.3	0.3	1.0	1.0	1.1	0.8	0.9	0.7	0.8	-0.1	1.8	0.5
46		Benzene, 1,2-dimethyl-	95-47-6																	
47		Benzene, 1,3,5-trimethyl-	108-67-8																	
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3	0.2	0.2	0.4	0.1	0.1	0.1	0.2	0.4	0.4	0.9	0.4	0.4	0.3	0.4	0.0	0.4	0.0
49		Benzene, isopropyl	98-82-8																	
50		Benzene, propyl-	103-65-1																	

Note: An empty cell means the compound was not detected or the chamber concentration was lower than the background level.

Table D. 4 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})							Emission factor (µg m^{-2} h^{-1})							Coefficient: E = b t^{m}		
				23 h	96 h	144.0 h	191.5 h	191.8 h	264.0 h	288.0 h	23 h	96 h	144.0 h	191.5 h	191.8 h	264.0 h	288.0 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.3	0.1	0.2	0.1	0.1	0.1	0.1	-0.4	1.0	0.7
52		Naphthalene	91-20-3	0.5	0.4	0.4	0.3	0.3	0.3	0.3	1.1	0.9	1.0	0.8	0.9	0.7	0.9	-0.1	1.7	0.7
53		p-Cymene	99-87-6	5.5	7.2	43.3	5.4	6.3	4.5	9.1	13.9	18.1	108.3	13.6	15.8	11.2	22.7	0.1	15.2	0.0
54		Styrene	100-42-5	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.3	0.3	0.4	0.3	0.2	0.3	0.3	0.0	0.3	0.0
55		Toluene	108-88-3	2.1	2.0	3.0	1.7	1.7	1.6	1.9	5.3	4.9	7.6	4.3	4.4	4.0	4.8	-0.1	7.4	0.1
56		2-Phenylpropene	98-83-9																	
57		Indene	95-13-6	0.4	0.1	0.1	0.2	0.3	0.2	0.1	1.0	0.1	0.1	0.6	0.6	0.5	0.1	-0.4	2.3	0.1
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																	
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																	
60		Acetic acid, butyl ester	123-86-4																	
61		Acetic acid, ethyl ester	141-78-6	0.2							0.5									
62		Methyl methacrylate	80-62-6																	
63		2-Ethylhexyl acetate	103-09-3																	
64		2-Methoxyethylacetate	110-49-6																	
65		Butyrolactone	96-48-0																	
66		Texanol	25265-77-4																	
67		TXIB	6846-50-0	0.1	0.1	0.1					0.2	0.2	0.3					-5.7	2.E+08	0.5
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1																	
69		1,2-Propanediol	57-55-6	0.6		0.4					1.6		1.1							
70		Diethylene glycol monoethyl ether	111-90-0																	
71		Propanol, 1-methoxy-2-	107-98-2																	
72		Ethanol, 2-butoxy-	111-76-2																	
73		Ethanol, 2-butoxyethoxy-	112-34-5																	
74		Ethanol, 2-ethoxy-	110-80-5																	
75		Ethanol, 2-methoxy-	109-86-4																	
76		Propanol, 2-methyl-2-	75-65-0																	
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																	
78		1,2-Dichlorobenzene	95-50-1																	
79		1,2-Dichloroethane	107-06-2																	
80		1,2-Dichloropropane	78-87-5																	
81		1,4-Dichlorobenzene	106-46-7																	
82		Bromodichloromethane	75-27-4																	
83		Carbon tetrachloride	56-23-5																	
84		Chloroform	67-66-3																	
85		Dibromochloromethane	124-48-1																	
86		Dichloromethane	75-09-2			2.3							5.8							
87		Tetrachloroethylene	127-18-4																	
88		Trichloroethylene	79-01-6			1.5				0.2			3.7				0.5			
89		1,1,2,2-Tetrachloroethane	79-34-5																	
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																	
91		Cyclohexane	110-82-7																	
92		Cyclohexane, butyl-	1678-93-9																	
93		Cyclohexane, ethyl-	1678-91-7																	
94		Cyclohexane, propyl-	1678-92-8																	
95		Decahydronaphthalene	91-17-8																	
96	Terpenes	alpha-Pinene	80-56-8	3205.4	2850.8	2750.2	2561.7	2574.5	2332.5	2498.6	8010.3	7124.1	6872.7	6401.7	6433.8	5828.9	6244.0	-0.1	11770.0	0.9
97		alpha-Terpinene	99-86-5	0.9	0.7	1.7	0.6	1.0	0.6	1.4	2.1	1.7	4.3	1.6	2.4	1.4	3.5	0.0	2.0	0.0
98		beta-Pinene	127-91-3	290.9	228.6	218.2	194.8	195.2	170.6	187.5	727.0	571.2	545.3	486.8	487.9	426.3	468.6	-0.2	1387.7	0.9
99		gamma-Terpinene	99-85-4	0.7	0.6	0.8	0.6	0.7	0.5	0.8	1.7	1.6	2.0	1.4	1.8	1.2	2.0	0.0	1.9	0.0
100		3-Carene	13466-78-9	118.7	95.5	94.4	82.5	83.0	72.9	80.1	296.7	238.7	236.0	206.1	207.5	182.3	200.1	-0.2	534.3	0.9
101		Camphene	79-92-5	56.3	47.9	85.1	42.4	44.8	36.3	49.9	140.7	119.8	212.5	105.9	112.1	90.6	124.7	-0.1	212.5	0.1
102		Limonene	138-86-3	73.8	88.7	98.3	70.7	79.3	60.9	80.4	184.5	221.7	245.7	176.7	198.3	152.2	200.9	0.0	219.7	0.0

Table D. 4 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})							Emission factor (µg m^{-2} h^{-1})							Coefficient: E = b t^{m}		
				23 h	96 h	144.0 h	191.5 h	191.8 h	264.0 h	288.0 h	23 h	96 h	144.0 h	191.5 h	191.8 h	264.0 h	288.0 h	m	b	R^2
103	Acids	Acetic acid	64-19-7	6.8	9.4	11.0	5.4	7.0	8.9	5.1	17.1	23.6	27.5	13.6	17.4	22.3	12.7	0.0	23.5	0.0
104		Isobutyric acid	79-31-2																	
105		Butyric acid	107-92-6			0.2		0.2					0.6		0.5					
106		Heptanoic acid	111-14-8																	
107		2-Ethylhexanoic acid	149-57-5																	
108		Hexanoic acid	142-62-1																	
109		Pentanoic acid	109-52-4																	
110		Octanoic acid	124-07-2																	
111	Other	Furan, 2-pentyl	3777-69-3																	
112		2-Pyrrolidinone, 1-methyl-	872-50-4																	
113		1,4-Dioxane	123-91-1	0.5	0.3	0.1	0.3	0.2	0.3	0.2	1.3	0.8	0.3	0.7	0.4	0.7	0.4	-0.4	3.9	0.4
114		Triethyl phosphate	78-40-0																	
115		n-Butyl ether	142-96-1																	
116		2-Butanone oxime	96-29-7																	
117		Triethylamine	121-44-8																	
		TVOC	0-0-0	3369.4	3024.1	3106.9	2692.6	2725.5	2446.4	2665.3	8420.1	7557.1	7764.2	6728.7	6811.1	6113.5	6660.5	-0.1	12384.8	0.8
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})							Emission factor (µg m^{-2} h^{-1})							Coefficient: E = b t^{m}		
				25.2 h	97.3 h	145.1 h	192.8 h	194.6 h	265.1 h	289.0 h	25.2 h	97.3 h	145.1 h	192.8 h	194.6 h	265.1 h	289.0 h	m	b	R^2
D1	DNPH	Formaldehyde	123-91-1																	
D2		Acetaldehyde	78-40-0																	
D3		Propanal	142-96-1		5.4	1.8	2.5	2.6	3.0	2.4		13.5	4.4	6.3	6.6	7.5	6.0	6.3	0.0	0.8

Table D. 5 Chamber concentration and emission factor for “Flooring: white oak veneer, oak core (test: HWF2)”

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})							Emission factor (μg m^{-2} h^{-1})							Coefficient: E = b t^{m}		
				22 h	95 h	142.8 h	190.4 h	190.6 h	262.8 h	286.8 h	22 h	95 h	142.8 h	190.4 h	190.6 h	262.8 h	286.8 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3		0.1	0.0	0.2	0.1	0.3	0.3		0.3	0.0	0.5	0.3	0.8	0.9	5.3	0.0	0.9
2		1-Propanol	71-23-8																	
3		Hexanol, 2-ethyl-1-	104-76-7	0.0	0.0	0.1	0.1		0.0	0.1	0.1	0.1	0.1	0.2		0.1	0.2	-0.7	0.8	0.0
4		2-Propanol	67-63-0							0.1							0.2			
5		Ethanol	64-17-5																	
6		Phenol	108-95-2	0.7	0.5	0.2	0.2	0.1	0.2	0.1	1.8	1.3	0.5	0.6	0.3	0.4	0.2	-0.8	22.6	0.8
7	Aldehydes & ketones	Methylethyl ketone	78-93-3	0.3	0.4	0.4	0.6	0.6	0.6	0.7	0.8	1.0	1.1	1.4	1.5	1.4	1.8	0.3	0.3	0.9
8		Acetone	67-64-1	2.4	2.6	1.2	1.3	4.0	0.7	3.1	6.0	6.5	3.1	3.3	10.1	1.6	7.6	-0.2	10.5	0.1
9		Acetophenone	98-86-2																	
10		Cyclohexanone	108-94-1	10.6	7.5	6.0	6.7	5.6	5.9	6.1	26.4	18.7	14.9	16.7	13.9	14.7	15.1	-0.2	54.4	0.9
11		Methylisobutyl ketone	108-10-1																	
12		Benzaldehyde	100-52-7	18.9	11.6	7.6	7.7	6.8	5.9	5.7	47.1	28.9	19.1	19.2	16.9	14.6	14.2	-0.5	224.3	1.0
13		Butanal	123-72-8																	
14		Decanal	112-31-2																	
15		2-Decenal	3913-81-3																	
16		Furfural	98-01-1	1.3	1.0	1.0	0.9	1.0	0.9	0.9	3.3	2.4	2.4	2.2	2.4	2.3	2.2	-0.2	5.2	0.9
17		Heptanal	111-71-7																	
18		Hexanal	66-25-1																	
19		Nonanal	124-19-6			0.1							0.3							
20		2-Nonenal	18829-56-6																	
21		2-Octenal	2548-87-0																	
22		Pentanal	110-62-3																	
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																	
24		Pentane, 3-methyl-	96-14-0																	
25		2,2,4-Trimethylpentane	540-84-1																	
26		2,4-Dimethylpentane	108-08-7																	
27		Decane	124-18-5																	
28		Dodecane	112-40-3																	
29		Heptane	142-82-5																	
30		Hexadecane	544-76-3																	
31		Hexane	110-54-3					3.5		6.5					8.6		16.2			
32		Nonane	111-84-2																	
33		Octane	111-65-9																	
34		Pentadecane	629-62-9																	
35		Tetradecane	629-59-4																	
36		Tridecane	629-50-5																	
37		Undecane	1120-21-4																	
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2																	
39		Toluene, 2-ethyl-	611-14-3																	
40		Toluene, 3-ethyl-	620-14-4																	
41		Toluene, 4-ethyl-	622-96-8																	
42		Cyclohexene, 4-phenyl	4994-16-5																	
43		Benzene	71-43-2		1.2		0.1	0.1	0.1			2.9		0.3	0.3	0.3		2.5	0.0	0.1
44		Benzene, 1,2,3-trimethyl-	526-73-8																	
45		Benzene, 1,2,4-trimethyl-	95-63-6																	
46		Benzene, 1,2-dimethyl-	95-47-6	0.4	0.4	0.3	0.3	0.3	0.3	0.3	1.1	0.9	0.8	0.9	0.8	0.8	0.8	-0.1	1.5	0.8
47		Benzene, 1,3,5-trimethyl-	108-67-8																	
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3	1.3	1.1	1.1	1.1	1.0	1.0	1.1	3.3	2.8	2.6	2.7	2.4	2.4	2.6	-0.1	4.7	0.8
49		Benzene, isopropyl	98-82-8																	
50		Benzene, propyl-	103-65-1																	

Note: An empty cell means the compound was not detected or the chamber concentration was lower than the background level.

Table D. 5 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})							Emission factor (µg m^{-2} h^{-1})							Coefficient: E = b t^{m}		
				22 h	95 h	142.8 h	190.4 h	190.6 h	262.8 h	286.8 h	22 h	95 h	142.8 h	190.4 h	190.6 h	262.8 h	286.8 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	1.1	0.9	0.9	0.9	0.8	0.8	0.9	-0.1	1.4	0.7
52		Naphthalene	91-20-3	0.0	0.0					0.0	0.0	0.0					0.0	-2.9	74.7	0.3
53		p-Cymene	99-87-6	0.0	0.0						0.1	0.1								
54		Styrene	100-42-5	1.7	1.4	1.3	1.4	1.2	1.3	1.4	4.2	3.6	3.2	3.4	3.1	3.2	3.4	-0.1	5.8	0.8
55		Toluene	108-88-3	0.6	0.5	0.9	0.5	0.4	0.4	0.5	1.6	1.2	2.2	1.2	1.1	1.0	1.2	-0.1	2.5	0.2
56		2-Phenylpropene	98-83-9																	
57		Indene	95-13-6																	
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																	
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																	
60		Acetic acid, butyl ester	123-86-4	0.8	0.7	0.7	0.7	0.6	0.6	0.7	2.0	1.7	1.6	1.7	1.6	1.6	1.8	-0.1	2.4	0.6
61		Acetic acid, ethyl ester	141-78-6	0.2	0.4	0.3	0.4	0.4	0.4	0.5	0.5	0.9	0.8	0.9	0.9	0.9	1.1	0.2	0.3	0.8
62		Methyl methacrylate	80-62-6																	
63		2-Ethylhexyl acetate	103-09-3																	
64		2-Methoxyethylacetate	110-49-6																	
65		Butyrolactone	96-48-0																	
66		Texanol	25265-77-4																	
67		TXIB	6846-50-0																	
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1																	
69		1,2-Propanediol	57-55-6																	
70		Diethylene glycol monoethyl ether	111-90-0																	
71		Propanol, 1-methoxy-2-	107-98-2																	
72		Ethanol, 2-butoxy-	111-76-2																	
73		Ethanol, 2-butoxyethoxy-	112-34-5																	
74		Ethanol, 2-ethoxy-	110-80-5																	
75		Ethanol, 2-methoxy-	109-86-4																	
76		Propanol, 2-methyl-2-	75-65-0																	
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																	
78		1,2-Dichlorobenzene	95-50-1																	
79		1,2-Dichloroethane	107-06-2																	
80		1,2-Dichloropropane	78-87-5																	
81		1,4-Dichlorobenzene	106-46-7																	
82		Bromodichloromethane	75-27-4																	
83		Carbon tetrachloride	56-23-5																	
84		Chloroform	67-66-3																	
85		Dibromochloromethane	124-48-1																	
86		Dichloromethane	75-09-2																	
87		Tetrachloroethylene	127-18-4																	
88		Trichloroethylene	79-01-6			0.4							1.0							
89		1,1,2,2-Tetrachloroethane	79-34-5																	
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																	
91		Cyclohexane	110-82-7																	
92		Cyclohexane, butyl-	1678-93-9																	
93		Cyclohexane, ethyl-	1678-91-7																	
94		Cyclohexane, propyl-	1678-92-8																	
95		Decahydronaphthalene	91-17-8																	
96	Terpenes	alpha-Pinene	80-56-8	0.1	0.1	0.0					0.3	0.1	0.1					-5.8	4.E+08	0.6
97		alpha-Terpinene	99-86-5																	
98		beta-Pinene	127-91-3																	
99		gamma-Terpinene	99-85-4																	
100		3-Carene	13466-78-9																	
101		Camphene	79-92-5																	
102		Limonene	138-86-3																	

Table D. 5 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})							Emission factor (µg m^{-2} h^{-1})							Coefficient: E = b t^{m}		
				22 h	95 h	142.8 h	190.4 h	190.6 h	262.8 h	286.8 h	22 h	95 h	142.8 h	190.4 h	190.6 h	262.8 h	286.8 h	m	b	R^2
103	Acids	Acetic acid	64-19-7	3.1	12.4	7.3	8.7	8.2	13.1	14.8	7.7	31.0	18.2	21.7	20.6	32.8	37.1	0.5	1.7	0.7
104		Isobutyric acid	79-31-2																	
105		Butyric acid	107-92-6																	
106		Heptanoic acid	111-14-8																	
107		2-Ethylhexanoic acid	149-57-5																	
108		Hexanoic acid	142-62-1																	
109		Pentanoic acid	109-52-4																	
110		Octanoic acid	124-07-2																	
111	Other	Furan, 2-pentyl	3777-69-3																	
112		2-Pyrrolidinone, 1-methyl-	872-50-4																	
113		1,4-Dioxane	123-91-1																	
114		Triethyl phosphate	78-40-0																	
115		n-Butyl ether	142-96-1																	
116		2-Butanone oxime	96-29-7																	
117		Triethylamine	121-44-8																	
A1	Abundant	Methane, dimethoxy-	109-87-5	2.5	1.9	1.6	1.5	2.3	1.3	2.0	6.1	4.9	4.0	3.9	5.9	3.2	5.0	-0.2	9.8	0.3
A2		Cyclotrisiloxane, hexamethyl-	541-05-9	0.0	0.8		0.5	3.5	0.4	2.5	0.0	2.0		1.2	8.7	0.9	6.3	1.6	0.0	0.1
A3		Diacetone alcohol	123-42-2	2.1	1.4	1.1	1.4	1.1	1.2	1.2	5.1	3.6	2.8	3.5	2.8	2.9	3.1	-0.2	9.8	0.8
A4		1-Ethyl-2-pyrrolidinone	2687-91-4	17.8	11.3	8.7	9.4	8.2	7.0	7.7	44.5	28.2	21.7	23.4	20.5	17.4	19.3	-0.4	135.0	1.0
A5		Benzophenone	119-61-9	54.5	40.0	32.1	37.5	32.5	28.5	31.8	136.3	99.9	80.2	93.6	81.2	71.2	79.5	-0.2	280.0	0.9
		TVOC	0-0-0	102.9	82.3	63.6	69.0	66.2	55.2	67.9	257.1	205.6	159.0	172.3	165.4	137.9	169.8	-0.2	498.1	0.8
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})							Emission factor (µg m^{-2} h^{-1})							Coefficient: E = b t^{m}		
				24.0 h	96.1 h	143.9 h	191.7 h	193.4 h	263.9 h	287.8 h	24.0 h	96.1 h	143.9 h	191.7 h	193.4 h	263.9 h	287.8 h	m	b	R^2
D1	DNPH	Formaldehyde	123-91-1																	
D2		Acetaldehyde	78-40-0	13.6	10.4	9.1	8.4	8.4	6.3	7.6	33.9	26.1	22.8	20.9	21.0	15.7	18.9	-0.3	83.7	0.9
D3		Propanal	142-96-1	1.4	3.0	2.5	3.4	2.9	4.1	3.7	3.4	7.5	6.3	8.6	7.3	10.2	9.2	0.4	1.0	0.9

Table D. 6 Chamber concentration and emission factor for “Flooring: carpet, polyester (test: Carp)”

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})								Emission factor (μg m^{-2} h^{-1})								Coefficient: E = b t^{m}		
				23 h	96 h	191.7 h	192 h	264.2 h	288.1 h	335.9 h	336.1 h	23 h	96 h	191.7 h	192.0 h	264.2 h	288.1 h	335.9 h	336.1 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3																			
2		1-Propanol	71-23-8																			
3		Hexanol, 2-ethyl-1-	104-76-7																			
4		2-Propanol	67-63-0																			
5		Ethanol	64-17-5	1.1	0.7							2.8	1.8									
6		Phenol	108-95-2	0.4	0.2	0.1	0.3		0.0	0.0		0.9	0.4	0.2	0.6		0.0	0.1		-3.4	296171.9	0.3
7	Aldehydes & Ketones	Methylethyl ketone	78-93-3																			
8		Acetone	67-64-1	2.2	0.2	0.5	0.1		0.1	1.0	0.1	5.5	0.6	1.3	0.3		0.4	2.6	0.3	-1.8	1349.0	0.1
9		Acetophenone	98-86-2	1.2	1.2	0.7	1.5	0.3	0.7	0.6	0.4	3.0	2.9	1.7	3.8	0.9	1.7	1.6	0.9	-0.4	12.3	0.4
10		Cyclohexanone	108-94-1																			
11		Methylisobutyl ketone	108-10-1																			
12		Benzaldehyde	100-52-7	3.0	2.7	1.6	2.9	0.7	1.5	1.0	0.5	7.4	6.7	4.0	7.1	1.8	3.7	2.5	1.3	-0.5	53.4	0.5
13		Butanal	123-72-8																			
14		Decanal	112-31-2																			
15		2-Decenal	3913-81-3																			
16		Furfural	98-01-1								0.0								0.1			
17		Heptanal	111-71-7																			
18		Hexanal	66-25-1																			
19		Nonanal	124-19-6																			
20		2-Nonenal	18829-56-6																			
21		2-Octenal	2548-87-0																			
22		Pentanal	110-62-3																			
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																			
24		Pentane, 3-methyl-	96-14-0																			
25		2,2,4-Trimethylpentane	540-84-1																			
26		2,4-Dimethylpentane	108-08-7								1.2								2.9			
27		Decane	124-18-5	0.1								0.2										
28		Dodecane	112-40-3	0.2								0.4										
29		Heptane	142-82-5																			
30		Hexadecane	544-76-3																			
31		Hexane	110-54-3																			
32		Nonane	111-84-2																			
33		Octane	111-65-9																			
34		Pentadecane	629-62-9	0.2	0.2							0.4	0.5									
35		Tetradecane	629-59-4	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.2	1.2	1.0	0.9	0.7	0.5	0.6	0.5	0.5	-0.3	3.9	0.8
36		Tridecane	629-50-5	0.1								0.3										
37		Undecane	1120-21-4																			
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2	0.2	0.1	0.0	0.0					0.5	0.2	0.1	0.1					-5.4	4.E+08	0.6
39		Toluene, 2-ethyl-	611-14-3	0.1	0.0							0.3	0.1									
40		Toluene, 3-ethyl-	620-14-4	0.3	0.1	0.0	0.0					0.7	0.2	0.1	0.1					-5.5	8.E+08	0.6
41		Toluene, 4-ethyl-	622-96-8																			
42		Cyclohexene, 4-phenyl	4994-16-5	3.6	2.7	2.0	2.0	1.6	1.5	1.3	1.3	9.0	6.7	5.1	5.1	3.9	3.7	3.2	3.1	-0.4	36.0	0.9
43		Benzene	71-43-2	1.2	0.6	0.4	1.5		0.3	0.5		3.1	1.4	1.0	3.8		0.6	1.2		-3.2	5.E+05	0.2
44		Benzene, 1,2,3-trimethyl-	526-73-8	0.1	0.0							0.4	0.1									
45		Benzene, 1,2,4-trimethyl-	95-63-6	0.7	0.2	0.1		0.1				1.7	0.5	0.2		0.1				-5.2	3.E+08	0.5
46		Benzene, 1,2-dimethyl-	95-47-6	0.1	0.0							0.1	0.1									
47		Benzene, 1,3,5-trimethyl-	108-67-8	0.2	0.0	0.0	0.0					0.5	0.1	0.1	0.0					-5.3	3.E+08	0.6
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3	0.0								0.1										
49		Benzene, isopropyl	98-82-8																			
50		Benzene, propyl-	103-65-1	0.1	0.0	0.0	0.0	0.0				0.2	0.1	0.0	0.0	0.0				-4.3	2.E+06	0.5

Note: An empty cell means the compound was not detected or the chamber concentration was lower than the background level.

Table D. 6 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = b t^{m}		
				23 h	96 h	191.7 h	192.0 h	264.2 h	288.1 h	335.9 h	336.1 h	23 h	96 h	191.7 h	192.0 h	264.2 h	288.1 h	335.9 h	336.1 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4																			
52		Naphthalene	91-20-3	0.0	0.0		0.0					0.0	0.0		0.0					-4.3	1.E+05	0.6
53		p-Cymene	99-87-6	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	-0.3	0.5	0.8
54		Styrene	100-42-5	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.9	0.4	0.3	0.3	0.2	0.2	0.3	0.2	-0.5	5.3	1.0
55		Toluene	108-88-3																			
56		2-Phenylpropene	98-83-9																			
57		Indene	95-13-6																			
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																			
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																			
60		Acetic acid, butyl ester	123-86-4	0.2	0.1							0.6	0.3									
61		Acetic acid, ethyl ester	141-78-6																			
62		Methyl methacrylate	80-62-6																			
63		2-Ethylhexyl acetate	103-09-3																			
64		2-Methoxyethylacetate	110-49-6																			
65		Butyrolactone	96-48-0																			
66		Texanol	25265-77-4																			
67		TXIB	6846-50-0																			
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1																			
69		1,2-Propanediol	57-55-6	0.8	0.3	0.2	0.1					2.1	0.7	0.4	0.4					-6.0	2.E+10	0.5
70		Diethylene glycol monoethyl ether	111-90-0																			
71		Propanol, 1-methoxy-2-	107-98-2																			
72		Ethanol, 2-butoxy-	111-76-2																			
73		Ethanol, 2-butoxyethoxy-	112-34-5																			
74		Ethanol, 2-ethoxy-	110-80-5																			
75		Ethanol, 2-methoxy-	109-86-4																			
76		Propanol, 2-methyl-2-	75-65-0																			
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																			
78		1,2-Dichlorobenzene	95-50-1																			
79		1,2-Dichloroethane	107-06-2																			
80		1,2-Dichloropropane	78-87-5																			
81		1,4-Dichlorobenzene	106-46-7																			
82		Bromodichloromethane	75-27-4																			
83		Carbon tetrachloride	56-23-5																			
84		Chloroform	67-66-3																			
85		Dibromochloromethane	124-48-1																			
86		Dichloromethane	75-09-2																			
87		Tetrachloroethylene	127-18-4																			
88		Trichloroethylene	79-01-6																			
89		1,1,2,2-Tetrachloroethane	79-34-5																			
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																			
91		Cyclohexane	110-82-7						0.2	0.3	3.3						0.5	0.8	8.3	4.8	0.0	0.3
92		Cyclohexane, butyl-	1678-93-9																			
93		Cyclohexane, ethyl-	1678-91-7																			
94		Cyclohexane, propyl-	1678-92-8																			
95		Decahydronaphthalene	91-17-8																			
96	Terpenes	alpha-Pinene	80-56-8	4.1								10.3										
97		alpha-Terpinene	99-86-5																			
98		beta-Pinene	127-91-3																			
99		gamma-Terpinene	99-85-4																			
100		3-Carene	13466-78-9	0.2	0.0							0.5	0.0									
101		Camphene	79-92-5	0.1	0.1	0.0	0.0	0.0	0.0			0.3	0.2	0.1	0.1	0.1	0.0			-3.4	2.E+05	0.3
102		Limonene	138-86-3	0.3	0.2	0.0	0.0					0.8	0.4	0.1	0.1					-5.6	2.E+09	0.6

Table D. 6 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = b t^{m}		
				23 h	96 h	191.7 h	192.0 h	264.2 h	288.1 h	335.9 h	336.1 h	23 h	96 h	191.7 h	192.0 h	264.2 h	288.1 h	335.9 h	336.1 h	m	b	R^2
103	Acids	Acetic acid	64-19-7	30.7		1.6				7.8		76.7		4.0				19.6		-4.0	5.4E+05	0.2
104		Isobutyric acid	79-31-2																			
105		Butyric acid	107-92-6																			
106		Heptanoic acid	111-14-8																			
107		2-Ethylhexanoic acid	149-57-5																			
108		Hexanoic acid	142-62-1																			
109		Pentanoic acid	109-52-4																			
110		Octanoic acid	124-07-2																			
111	Other	Furan, 2-pentyl	3777-69-3																			
112		2-Pyrrolidinone, 1-methyl-	872-50-4																			
113		1,4-Dioxane	123-91-1	0.0	0.1	0.1			0.1	0.0	0.0	0.1	0.2	0.1			0.2	0.1	0.1	-1.0	1.3	0.0
114		Triethyl phosphate	78-40-0																			
115		n-Butyl ether	142-96-1																			
116		2-Butanone oxime	96-29-7																			
117		Triethylamine	121-44-8																			
A1	Abundant	Cyclotrisiloxane, hexamethyl-	541-05-9	0.9			0.3			0.1		2.1			0.8			0.2		-3.4	5396.0	0.2
A2		Acetamide, N,N-dimethyl-	127-19-5	4.7	1.6	0.9	0.8	0.5	0.6	0.5	0.3	11.7	3.9	2.3	2.1	1.2	1.4	1.2	0.8	-0.9	247.6	1.0
A3		Cyclotetrasiloxane, octamethyl-	556-67-2	0.6	0.1	0.0	0.1					1.6	0.3	0.1	0.4					-5.8	5.3E+09	0.6
A4		C14 Alkene 1		3.5	2.8	2.4	2.3	1.9	1.9	1.6	1.6	8.8	7.0	5.9	5.8	4.8	4.7	4.1	4.0	-0.3	23.9	0.9
A5		C14 Alkene 2		2.7	2.3	2.0	1.9	1.5	1.7	1.4	1.3	6.8	5.7	4.9	4.7	3.8	4.1	3.4	3.3	-0.3	16.9	0.9
A6		C14 Alkene 3		1.4	1.1	1.0	0.9	0.8	0.7	0.7	0.7	3.4	2.8	2.5	2.2	1.9	1.9	1.7	1.8	-0.3	8.3	0.9
		TVOC	0-0-0	49.4	15.7	6.2	7.6				2.3	123.5	39.3	15.5	19.0				5.8	-5.8	3.2E+11	0.3
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = b t^{m}		
				25.1 h	96.9 h	193.1 h	194.8 h	265.2 h	289.1 h	337.2 h	339.1 h	25.1 h	96.9 h	193.1 h	194.8 h	265.2 h	289.1 h	337.2 h	339.1 h	m	b	R^2
D1	DNPH	Formaldehyde	50-00-0		0.4	2.2			1.9				0.9	5.4			4.7			0.3	0.0	0.0
D2		Acetaldehyde	75-07-0	4.9	2.4	2.6	1.9	2.0	2.3	0.7		12.2	6.1	6.6	4.8	4.9	5.8	1.7		-2.4	1.5E+05	0.1
D3		Propanal	123-38-6																			

Table D. 7 Chamber concentration and emission factor for "Flooring assembly: ceramic tile-adhesive-plywood-OSB (test: Ceram)"

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})									Emission factor (μg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				23 h	95 h	144 h	192.0 h	192.2 h	264 h	287.9 h	336 h	336.2 h	23 h	95 h	144 h	192.0 h	192.2 h	264 h	287.9 h	336 h	336.2 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3	40.4	31.7	32.4	31.8	29.8	30.1	29.3	29.1	28.3	21.0	16.5	16.9	16.6	15.5	15.7	15.3	15.2	14.7	-0.1	30.4	0.9
2		1-Propanol	71-23-8	1.6	1.4	1.6	1.9	1.5	1.8	2.2	2.3	2.2	0.8	0.7	0.8	1.0	0.8	1.0	1.1	1.2	1.1	0.1	0.5	0.4
3		Hexanol, 2-ethyl-1-	104-76-7																					
4		2-Propanol	67-63-0	2.7	3.4	4.0	4.3	4.0	4.5	4.8	4.8	4.6	1.4	1.8	2.1	2.2	2.1	2.4	2.5	2.5	2.4	0.2	0.7	1.0
5		Ethanol	64-17-5	12.4	14.6	13.3	15.8	15.9	17.6	15.9	14.4	15.9	6.4	7.6	6.9	8.2	8.3	9.1	8.3	7.5	8.3	0.1	4.8	0.6
6		Phenol	108-95-2	0.9	0.5	0.7	0.8	0.6	0.8	0.9	0.6	0.6	0.4	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.0	0.5	0.1
7	Aldehydes & Ketones	Methylethyl ketone	78-93-3	2.8	2.5	4.1	4.4	3.5	4.8	5.2	5.4	5.2	1.5	1.3	2.1	2.3	1.8	2.5	2.7	2.8	2.7	0.3	0.5	0.7
8		Acetone	67-64-1	56.5	52.6	52.2	42.1	49.8	43.3	41.1	41.1	38.2	29.4	27.4	27.2	21.9	25.9	22.5	21.4	21.4	19.9	-0.1	49.1	0.7
9		Acetophenone	98-86-2	0.7	0.1	0.5	0.5	0.2	0.6	0.9	0.6	0.4	0.4	0.0	0.3	0.3	0.1	0.3	0.5	0.3	0.2	0.1	0.1	0.0
10		Cyclohexanone	108-94-1																					
11		Methylisobutyl ketone	108-10-1	0.4	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	-0.1	0.4	0.2
12		Benzaldehyde	100-52-7	3.0	1.4	2.3	2.4	1.6	2.2	2.8	2.2	1.8	1.6	0.7	1.2	1.3	0.9	1.1	1.5	1.1	0.9	-0.1	1.6	0.0
13		Butanal	123-72-8	6.8	3.7	6.2	7.2	5.4	9.3	11.6	12.3	11.3	3.5	1.9	3.2	3.7	2.8	4.8	6.0	6.4	5.9	0.3	1.0	0.3
14		Decanal	112-31-2																					
15		2-Decenal	3913-81-3																					
16		Furfural	98-01-1	4.2	3.7	4.1	3.8	3.9	4.7	4.0	4.2	3.7	2.2	1.9	2.1	2.0	2.1	2.4	2.1	2.2	1.9	0.0	2.1	0.0
17		Heptanal	111-71-7	6.0									3.1											
18		Hexanal	66-25-1	238.9	200.3	208.0	227.4	224.6	251.4	255.1	264.1	259.6	124.4	104.3	108.3	118.4	117.0	130.9	132.8	137.5	135.2	0.1	94.2	0.2
19		Nonanal	124-19-6	1.4	0.9	1.1	1.0	1.0	0.9	1.4	1.0	1.0	0.7	0.5	0.6	0.5	0.5	0.5	0.7	0.5	0.5	-0.1	0.9	0.2
20		2-Nonenal	18829-56-6																					
21		2-Octenal	2548-87-0	10.6	8.4	6.7	9.2	9.1	10.5	10.5	10.6	10.4	5.5	4.4	3.5	4.8	4.7	5.4	5.5	5.5	5.4	0.0	4.4	0.0
22		Pentanal	110-62-3	41.4	39.6	47.7	55.1	52.0	64.6	65.6	69.0	68.6	21.6	20.6	24.8	28.7	27.1	33.6	34.2	35.9	35.7	0.2	9.4	0.7
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																					
24		Pentane, 3-methyl-	96-14-0	28.5	8.3								14.8	4.3										
25		2,2,4-Trimethylpentane	540-84-1	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1		0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1		-1.8	286.9	0.1
26		2,4-Dimethylpentane	108-08-7																					
27		Decane	124-18-5																					
28		Dodecane	112-40-3																					
29		Heptane	142-82-5	3.3	2.0	1.4	1.2	1.2	0.7	0.7	0.7	0.6	1.7	1.0	0.7	0.6	0.6	0.4	0.4	0.3	0.3	-0.6	16.0	0.9
30		Hexadecane	544-76-3																					
31		Hexane	110-54-3	23.9	8.1	4.6	3.0	3.6	2.4	2.0	1.9	1.6	12.4	4.2	2.4	1.5	1.9	1.2	1.0	1.0	0.8	-1.0	341.7	1.0
32		Nonane	111-84-2																					
33		Octane	111-65-9	2.1	1.2	1.0	0.7	0.7	0.6	0.5	0.4	0.4	1.1	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	-0.6	8.4	0.9
34		Pentadecane	629-62-9	0.2	0.1								0.1	0.0										
35		Tetradecane	629-59-4	0.2	0.1								0.1	0.1										
36		Tridecane	629-50-5																					
37		Undecane	1120-21-4																					
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2																					
39		Toluene, 2-ethyl-	611-14-3																					
40		Toluene, 3-ethyl-	620-14-4	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.0	0.9
41		Toluene, 4-ethyl-	622-96-8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.0	0.9
42		Cyclohexene, 4-phenyl	4994-16-5																					
43		Benzene	71-43-2	1.3		0.4	0.3		0.5	0.2			0.7		0.2	0.2		0.3	0.1			-2.6	488.3	0.1
44		Benzene, 1,2,3-trimethyl-	526-73-8																					
45		Benzene, 1,2,4-trimethyl-	95-63-6																					
46		Benzene, 1,2-dimethyl-	95-47-6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.2	0.2	0.7
47		Benzene, 1,3,5-trimethyl-	108-67-8																					
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3	2.0	3.7	3.8	3.8	3.8	3.6	3.5	3.5	3.5	1.1	1.9	2.0	2.0	2.0	1.9	1.8	1.8	1.8	0.2	0.7	0.6
49		Benzene, isopropyl	98-82-8	0.7	1.5	1.6	1.6	1.8	1.8	1.7	1.7	1.7	0.3	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.3	0.1	0.9
50		Benzene, propyl-	103-65-1	0.4	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.1	0.9

Note: An empty cell means the compound was not detected or the chamber concentration was lower than the background level.

Table D. 7 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				23 h	95 h	144 h	192.0 h	192.2 h	264 h	287.9 h	336 h	336.2 h	23 h	95 h	144 h	192.0 h	192.2 h	264 h	287.9 h	336 h	336.2 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4	1.0	1.6	1.7	1.7	1.7	1.6	1.5	1.5	1.5	0.5	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.2	0.4	0.5
52		Naphthalene	91-20-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.1
53		p-Cymene	99-87-6	0.3	0.9	1.3	1.7	1.8	1.9	1.9	1.9	1.9	0.1	0.5	0.7	0.9	0.9	1.0	1.0	1.0	1.0	0.8	0.0	1.0
54		Styrene	100-42-5	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.0	0.7
55		Toluene	108-88-3	4.1	3.6	3.7	3.5	3.6	3.3	3.2	3.0	2.9	2.1	1.9	1.9	1.8	1.9	1.7	1.7	1.6	1.5	-0.1	3.1	0.7
56		2-Phenylpropene	98-83-9																					
57		Indene	95-13-6																					
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																					
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																					
60		Acetic acid, butyl ester	123-86-4	2.3	1.7	1.2	1.0	1.1	1.0	0.6	0.6	0.8	1.2	0.9	0.6	0.5	0.6	0.5	0.3	0.3	0.4	-0.5	6.0	0.9
61		Acetic acid, ethyl ester	141-78-6	0.7	1.6	1.4	1.5	2.0	2.6	1.2	1.3	2.0	0.4	0.8	0.8	0.8	1.0	1.4	0.6	0.7	1.0	0.3	0.2	0.5
62		Methyl methacrylate	80-62-6																					
63		2-Ethylhexyl acetate	103-09-3																					
64		2-Methoxyethylacetate	110-49-6																					
65		Butyrolactone	96-48-0																					
66		Texanol	25265-77-4																					
67		TXIB	6846-50-0	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.3	0.2	0.2
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1																					
69		1,2-Propanediol	57-55-6																					
70		Diethylene glycol monoethyl ether	111-90-0																					
71		Propanol, 1-methoxy-2-	107-98-2																					
72		Ethanol, 2-butoxy-	111-76-2																					
73		Ethanol, 2-butoxyethoxy-	112-34-5																					
74		Ethanol, 2-ethoxy-	110-80-5																					
75		Ethanol, 2-methoxy-	109-86-4																					
76		Propanol, 2-methyl-2-	75-65-0	18.3	15.2	14.3	13.1	13.0	11.1	10.4	9.3	9.6	9.5	7.9	7.4	6.8	6.8	5.8	5.4	4.8	5.0	-0.2	23.2	0.9
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																					
78		1,2-Dichlorobenzene	95-50-1																					
79		1,2-Dichloroethane	107-06-2																					
80		1,2-Dichloropropane	78-87-5																					
81		1,4-Dichlorobenzene	106-46-7																					
82		Bromodichloromethane	75-27-4																					
83		Carbon tetrachloride	56-23-5																					
84		Chloroform	67-66-3																					
85		Dibromochloromethane	124-48-1																					
86		Dichloromethane	75-09-2																					
87		Tetrachloroethylene	127-18-4																					
88		Trichloroethylene	79-01-6								0.1										0.1			
89		1,1,2,2-Tetrachloroethane	79-34-5																					
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																					
91		Cyclohexane	110-82-7																					
92		Cyclohexane, butyl-	1678-93-9																					
93		Cyclohexane, ethyl-	1678-91-7																					
94		Cyclohexane, propyl-	1678-92-8																					
95		Decahydronaphthalene	91-17-8																					
96	Terpenes	alpha-Pinene	80-56-8	22.7	42.2	44.4	40.8	40.7	33.5	30.5	26.8	26.3	11.8	22.0	23.1	21.2	21.2	17.4	15.9	14.0	13.7	0.0	13.6	0.0
97		alpha-Terpinene	99-86-5																					
98		beta-Pinene	127-91-3	3.3	3.6	3.5	3.3	3.3	2.6	2.6	2.3	2.3	1.7	1.9	1.8	1.7	1.7	1.4	1.4	1.2	1.2	-0.1	3.2	0.4
99		gamma-Terpinene	99-85-4																					
100		3-Carene	13466-78-9	0.6	2.1	2.7	2.8	2.7	2.7	2.6	2.4	2.3	0.3	1.1	1.4	1.5	1.4	1.4	1.4	1.3	1.2	0.5	0.1	0.8
101		Camphene	79-92-5	1.8	3.9	4.3	4.1	4.2	3.7	3.4	3.1	3.1	0.9	2.0	2.2	2.1	2.2	2.0	1.8	1.6	1.6	0.2	0.6	0.4
102		Limonene	138-86-3	2.3	10.2	14.8	17.8	18.2	19.4	19.5	20.3	20.2	1.2	5.3	7.7	9.3	9.5	10.1	10.1	10.6	10.5	0.8	0.1	0.9

Table D. 7 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				23 h	95 h	144 h	192.0 h	192.2 h	264 h	287.9 h	336 h	336.2 h	23 h	95 h	144 h	192.0 h	192.2 h	264 h	287.9 h	336 h	336.2 h	m	b	R^2
103	Acids	Acetic acid	64-19-7	913.7	371.1	471.3	323.4	255.3	353.7	346.5	418.1	354.5	475.8	193.2	245.4	168.4	132.9	184.2	180.4	217.7	184.6	-0.3	1126.1	0.6
104		Isobutyric acid	79-31-2																					
105		Butyric acid	107-92-6	1.8	1.3	1.5	1.5	1.2	1.6	1.6	1.2	1.1	0.9	0.7	0.8	0.8	0.6	0.8	0.8	0.6	0.6	-0.1	1.2	0.3
106		Heptanoic acid	111-14-8	0.4	0.3	0.4	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	-0.2	0.4	0.4
107		2-Ethylhexanoic acid	149-57-5	0.3									0.1											
108		Hexanoic acid	142-62-1	26.1	20.2	18.4	17.8	16.7	17.1	14.8	12.5	12.1	13.6	10.5	9.6	9.3	8.7	8.9	7.7	6.5	6.3	-0.3	33.1	0.8
109		Pentanoic acid	109-52-4	6.0	4.3	4.3	4.5	3.6	4.3	3.8	3.0	2.7	3.1	2.2	2.2	2.3	1.9	2.3	2.0	1.5	1.4	-0.2	6.8	0.7
110		Octanoic acid	124-07-2																					
111	Other	Furan, 2-pentyl	3777-69-3	4.3	4.3	3.8	3.6	4.0	2.1	2.5	2.3	3.6	2.2	2.2	2.0	1.9	2.1	1.1	1.3	1.2	1.9	-0.2	4.9	0.4
112		2-Pyrrolidinone, 1-methyl-	872-50-4																					
113		1,4-Dioxane	123-91-1	0.0	0.1	0.1	0.1	0.0	0.1	0.2			0.0	0.0	0.0	0.0	0.0	0.0	0.1			-2.3	578.8	0.2
114		Triethyl phosphate	78-40-0																					
115		n-Butyl ether	142-96-1	3.6	7.5	8.0	7.8	7.9	7.4	7.2	7.0	6.9	1.9	3.9	4.2	4.0	4.1	3.9	3.8	3.7	3.6	0.2	1.1	0.6
116		2-Butanone oxime	96-29-7																					
117		Triethylamine	121-44-8																					
A1	Abundant	Acetic acid, methyl ester	79-20-9	14.8	24.4	29.3	22.7	26.0	23.9	24.8	24.4	21.8	7.7	12.7	15.2	11.8	13.5	12.4	12.9	12.7	11.3	0.2	5.5	0.5
A2		C11 branched chain hydrocarbon 1	NA1	20.1	66.9	85.0	91.4	91.4	91.9	88.6	86.6	88.1	10.5	34.8	44.2	47.6	47.6	47.8	46.1	45.1	45.9	0.5	2.4	0.9
A3		C11 branched chain hydrocarbon 2	NA2	188.2	584.3	729.6	795.3	792.7	836.1	822.5	824.0	819.3	98.0	304.2	379.9	414.1	412.7	435.3	428.3	429.1	426.6	0.5	21.0	0.9
A4		C11 branched chain hydrocarbon 3	NA3	31.4	106.4	142.9	165.1	164.7	181.9	180.9	185.4	184.4	16.4	55.4	74.4	86.0	85.7	94.7	94.2	96.5	96.0	0.7	2.3	0.9
A5		C11 branched chain hydrocarbon 4	NA4	54.3	187.2	250.9	288.1	284.8	313.9	311.8	320.1	317.6	28.3	97.5	130.7	150.0	148.3	163.4	162.4	166.7	165.4	0.7	4.1	0.9
A6		C11 branched chain hydrocarbon 5	NA5	41.6	124.8	168.6	194.7	193.9	218.3	219.1	226.4	225.3	21.7	65.0	87.8	101.4	101.0	113.7	114.1	117.9	117.3	0.6	3.2	1.0
A7		C11 branched chain hydrocarbon 6	NA6	23.1	71.1	96.9	113.3	112.2	128.4	127.5	132.9	132.6	12.0	37.0	50.5	59.0	58.4	66.8	66.4	69.2	69.0	0.7	1.7	1.0
A8		C11 branched chain hydrocarbon 7	NA7	17.6	55.5	75.8	89.2	88.7	102.0	102.7	107.1	107.2	9.2	28.9	39.5	46.5	46.2	53.1	53.5	55.8	55.8	0.7	1.2	1.0
A9		C12 branched chain hydrocarbon 1	NA8	62.7	181.1	243.6	290.8	276.4	338.4	342.4	363.4	360.9	32.7	94.3	126.8	151.4	143.9	176.2	178.3	189.2	187.9	0.7	4.3	1.0
A10		C12 branched chain hydrocarbon 2	NA9	18.4	51.8	71.6	85.4	82.1	101.8	103.7	110.2	110.2	9.6	27.0	37.3	44.5	42.7	53.0	54.0	57.4	57.4	0.7	1.2	1.0
A11		C12 branched chain hydrocarbon 3	NA10	52.1	154.7	212.2	252.4	243.1	287.6	291.6	320.0	319.1	27.1	80.5	110.5	131.4	126.6	149.7	151.8	166.6	166.2	0.7	3.4	1.0
A12		C12 branched chain hydrocarbon 4	NA11	30.9	76.0	102.0	121.7	117.1	145.4	148.8	160.0	159.1	16.1	39.6	53.1	63.4	61.0	75.7	77.5	83.3	82.8	0.6	2.3	1.0
A13		C12 branched chain hydrocarbon 5	NA12	21.2	56.0	71.6	88.1	84.6	106.4	110.4	118.9	118.6	11.0	29.1	37.3	45.9	44.1	55.4	57.5	61.9	61.7	0.7	1.4	1.0
A14		C12 branched chain hydrocarbon 6	NA13	14.0	33.8	45.0	54.5	52.4	64.6	68.9	73.5	74.8	7.3	17.6	23.4	28.4	27.3	33.6	35.9	38.3	38.9	0.6	1.0	1.0
		TVOC	0-0-0	1231.0	2681.9	3464.5	3857.1	3783.9	4287.9	4275.8	4441.5	4381.2	641.0	1396.4	1803.9	2008.3	1970.2	2232.6	2226.3	2312.6	2281.2	0.5	147.9	1.0
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24.9 h	96.8 h	145.2 h	193.5 h	195.3 h	264.8 h	288.8 h	337.0 h	338.8 h	24.9 h	96.8 h	145.2 h	193.5 h	195.3 h	264.8 h	288.8 h	337.0 h	338.8 h	m	b	R^2
D1	DNPH	Formaldehyde	50-00-0	13.5	11.2	11.1	11.6	11.6	8.5	8.4	8.0	8.4	7.0	5.8	5.8	6.1	6.0	4.4	4.4	4.2	4.4	-0.2	14.1	0.7
D2		Acetaldehyde	75-07-0	80.7	69.7	69.4	66.6	72.4	51.6	51.2	45.2	47.4	42.0	36.3	36.2	34.7	37.7	26.8	26.6	23.5	24.7	-0.2	91.8	0.7
D3		Propanal	123-38-6	36.4	33.2	37.4	40.6	44.2	35.8	36.2	33.0	34.8	19.0	17.3	19.5	21.1	23.0	18.6	18.8	17.2	18.1	0.0	19.5	0.0

Table D. 8 Chamber concentration and emission factor for "Door: interior, closet (test: IDr)"

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})							Emission factor (μg m^{-2} h^{-1})							Coefficient: E = b t^{m}		
				24 h	72 h	144.3 h	192.9 h	193.1 h	262.1 h	310.3 h	24 h	72 h	144.3 h	192.9 h	193.1 h	262.1 h	310.3 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3																	
2		1-Propanol	71-23-8																	
3		Hexanol, 2-ethyl-1-	104-76-7						0.0							0.3				
4		2-Propanol	67-63-0				0.3		0.5	0.2				2.2		4.0	1.4	5.8	0.0	0.4
5		Ethanol	64-17-5				4.0	2.6	1.0					29.6	19.5	7.5		4.9	0.0	0.2
6		Phenol	108-95-2																	
7	Aldehydes & Ketones	Methylethyl ketone	78-93-3																	
8		Acetone	67-64-1						1.3							10.0				
9		Acetophenone	98-86-2																	
10		Cyclohexanone	108-94-1																	
11		Methylisobutyl ketone	108-10-1																	
12		Benzaldehyde	100-52-7																	
13		Butanal	123-72-8																	
14		Decanal	112-31-2																	
15		2-Decenal	3913-81-3																	
16		Furfural	98-01-1				0.0		0.0					0.0		0.1				
17		Heptanal	111-71-7																	
18		Hexanal	66-25-1	0.3	0.5	0.7	0.5	0.6	0.7	0.6	2.0	3.5	5.2	4.0	4.4	5.3	4.6	0.3	0.8	0.8
19		Nonanal	124-19-6		0.2	0.3		0.4	0.7			1.8	2.3		2.6	5.6		1.7	0.0	0.0
20		2-Nonenal	18829-56-6																	
21		2-Octenal	2548-87-0																	
22		Pentanal	110-62-3																	
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																	
24		Pentane, 3-methyl-	96-14-0																	
25		2,2,4-Trimethylpentane	540-84-1																	
26		2,4-Dimethylpentane	108-08-7																	
27		Decane	124-18-5																	
28		Dodecane	112-40-3																	
29		Heptane	142-82-5																	
30		Hexadecane	544-76-3	0.1		0.1	0.1	0.1	0.1		1.1		1.0	1.1	1.1	1.1		-0.7	0.5	0.0
31		Hexane	110-54-3		2.5		19.7					18.5		146.6						
32		Nonane	111-84-2																	
33		Octane	111-65-9																	
34		Pentadecane	629-62-9																	
35		Tetradecane	629-59-4																	
36		Tridecane	629-50-5																	
37		Undecane	1120-21-4																	
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2																	
39		Toluene, 2-ethyl-	611-14-3																	
40		Toluene, 3-ethyl-	620-14-4																	
41		Toluene, 4-ethyl-	622-96-8																	
42		Cyclohexene, 4-phenyl	4994-16-5																	
43		Benzene	71-43-2																	
44		Benzene, 1,2,3-trimethyl-	526-73-8																	
45		Benzene, 1,2,4-trimethyl-	95-63-6																	
46		Benzene, 1,2-dimethyl-	95-47-6																	
47		Benzene, 1,3,5-trimethyl-	108-67-8																	
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3						0.1							0.5				
49		Benzene, isopropyl	98-82-8																	
50		Benzene, propyl-	103-65-1																	

Note: An empty cell means the compound was not detected or the chamber concentration was lower than the background level.

Table D. 8 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})							Emission factor (µg m^{-2} h^{-1})							Coefficient: E = b t^{m}		
				24 h	72 h	144.3 h	192.9 h	193.1 h	262.1 h	310.3 h	24 h	72 h	144.3 h	192.9 h	193.1 h	262.1 h	310.3 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4						0.0							0.3				
52		Naphthalene	91-20-3																	
53		p-Cymene	99-87-6																	
54		Styrene	100-42-5																	
55		Toluene	108-88-3		0.1		0.0	0.1	0.2			1.1		0.3	0.6	1.5		2.2	0.0	0.1
56		2-Phenylpropene	98-83-9	0.5		0.1			0.1		3.4		0.9			0.5		-3.3	4776.6	0.2
57		Indene	95-13-6																	
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																	
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																	
60		Acetic acid, butyl ester	123-86-4																	
61		Acetic acid, ethyl ester	141-78-6																	
62		Methyl methacrylate	80-62-6																	
63		2-Ethylhexyl acetate	103-09-3																	
64		2-Methoxyethylacetate	110-49-6																	
65		Butyrolactone	96-48-0																	
66		Texanol	25265-77-4																	
67		TXIB	6846-50-0			0.0	0.9	0.8	1.7	2.0			0.3	6.9	6.2	12.6	15.0	7.9	0.0	0.8
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1																	
69		1,2-Propanediol	57-55-6																	
70		Diethylene glycol monoethyl ether	111-90-0																	
71		Propanol, 1-methoxy-2-	107-98-2																	
72		Ethanol, 2-butoxy-	111-76-2																	
73		Ethanol, 2-butoxyethoxy-	112-34-5																	
74		Ethanol, 2-ethoxy-	110-80-5																	
75		Ethanol, 2-methoxy-	109-86-4																	
76		Propanol, 2-methyl-2-	75-65-0																	
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																	
78		1,2-Dichlorobenzene	95-50-1																	
79		1,2-Dichloroethane	107-06-2																	
80		1,2-Dichloropropane	78-87-5																	
81		1,4-Dichlorobenzene	106-46-7																	
82		Bromodichloromethane	75-27-4																	
83		Carbon tetrachloride	56-23-5																	
84		Chloroform	67-66-3	0.0	0.2	0.1	0.3	0.4	0.7	0.5	0.3	1.8	0.6	1.9	2.7	4.9	3.7	0.9	0.0	0.7
85		Dibromochloromethane	124-48-1																	
86		Dichloromethane	75-09-2						0.9							6.4				
87		Tetrachloroethylene	127-18-4																	
88		Trichloroethylene	79-01-6					0.2	0.8						1.4	5.6				
89		1,1,2,2-Tetrachloroethane	79-34-5																	
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																	
91		Cyclohexane	110-82-7																	
92		Cyclohexane, butyl-	1678-93-9																	
93		Cyclohexane, ethyl-	1678-91-7																	
94		Cyclohexane, propyl-	1678-92-8																	
95		Decahydronaphthalene	91-17-8																	
96	Terpenes	alpha-Pinene	80-56-8	2.0	1.9	2.3	2.2	2.1	1.9	1.8	14.6	14.4	17.2	16.3	15.8	13.9	13.6	0.0	15.0	0.0
97		alpha-Terpinene	99-86-5																	
98		beta-Pinene	127-91-3	0.2	0.2	0.3	0.2	0.3	0.2	0.2	1.7	1.6	2.0	1.8	1.9	1.7	1.7	0.0	1.6	0.1
99		gamma-Terpinene	99-85-4																	
100		3-Carene	13466-78-9	0.1	0.1				0.1		0.5	0.5				0.6		-4.6	1.5E+06	0.3
101		Camphene	79-92-5																	
102		Limonene	138-86-3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.3	1.4	1.4	1.4	1.4	1.5	1.2	0.0	1.3	0.0

Table D. 8 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})							Emission factor (µg m^{-2} h^{-1})							Coefficient: E = b t^{m}		
				24 h	72 h	144.3 h	192.9 h	193.1 h	262.1 h	310.3 h	24 h	72 h	144.3 h	192.9 h	193.1 h	262.1 h	310.3 h	m	b	R^2
103	Acids	Acetic acid	64-19-7	3.1	12.4	7.3	8.7	8.2	13.1	14.8	7.7	31.0	18.2	21.7	20.6	32.8	37.1	0.5	1.7	0.7
104		Isobutyric acid	79-31-2																	
105		Butyric acid	107-92-6																	
106		Heptanoic acid	111-14-8																	
107		2-Ethylhexanoic acid	149-57-5																	
108		Hexanoic acid	142-62-1																	
109		Pentanoic acid	109-52-4																	
110		Octanoic acid	124-07-2																	
111	Other	Furan, 2-pentyl	3777-69-3																	
112		2-Pyrrolidinone, 1-methyl-	872-50-4																	
113		1,4-Dioxane	123-91-1																	
114		Triethyl phosphate	78-40-0																	
115		n-Butyl ether	142-96-1																	
116		2-Butanone oxime	96-29-7																	
117		Triethylamine	121-44-8																	
A1	Abundant	Cyclotrisiloxane, hexamethyl-	541-05-9		2.5		4.3			0.2		18.6		31.8			1.5	1.7	0.0	0.0
A2		Cyclotetrasiloxane, octamethyl-	556-67-2		1.5		0.2					10.8		1.3						
A3		Ester	NA1		1.0	1.8	2.0	1.9	1.6	1.7		7.2	13.3	14.9	14.5	11.8	12.5	6.0	0.0	0.7
		TVOC	0-0-0																	
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})							Emission factor (µg m^{-2} h^{-1})							Coefficient: E = b t^{m}		
				25.0 h	73.0 h	146.0 h	194.0 h	195.7 h	263.0 h	311.2 h	25.0 h	73.0 h	146.0 h	194.0 h	195.7 h	263.0 h	311.2 h	m	b	R^2
D1	DNPH	Formaldehyde	123-91-1	2.7	3.2	2.5	2.5	3.1	3.7	1.4	20.0	23.9	18.7	18.5	22.9	27.4	10.8	-0.1	30.0	0.1
D2		Acetaldehyde	78-40-0	0.6	0.1	0.7	0.4	0.3	0.2		4.8	0.9	5.5	2.7	2.1	1.6		-2.8	2.9E+05	0.2
D3		Propanal	142-96-1			4.4	5.1	4.1	1.3	2.3			32.8	38.1	30.3	10.0	17.1	8.3	0.0	0.8

Table D. 9 Chamber concentration and emission factor for “Trim: baseboard, MDF, 5.5", primed (test: MDF-bbt1)”

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})									Emission factor (μg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	11 h	143.3 h	191.2 h	191.5 h	263.2 h	308.1 h	335.2 h	335.4 h	24 h	11 h	143.3 h	191.2 h	191.5 h	263.2 h	308.1 h	335.2 h	335.4 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3	2.6	2.0	1.9	1.9	1.7	1.8	1.7	1.7	1.6	2.5	2.0	1.9	1.9	1.7	1.8	1.7	1.7	1.6	-0.2	4.4	0.93
2		1-Propanol	71-23-8																					
3		Hexanol, 2-ethyl-1-	104-76-7	1.5	0.7	0.9	0.5	0.6	0.4	0.3	0.4	0.3	1.5	0.7	0.9	0.5	0.6	0.4	0.3	0.4	0.3	-0.6	11.5	0.90
4		2-Propanol	67-63-0	4.9	2.7	2.9	3.7	1.7	1.5	1.8	2.4	1.0	4.9	2.7	2.9	3.7	1.7	1.5	1.8	2.4	1.0	-0.4	21.9	0.57
5		Ethanol	64-17-5	2.6			1.2						2.6			1.2								
6		Phenol	108-95-2	2.4	0.9	0.8	0.7	0.7	0.8	0.6	0.5	0.5	2.4	0.8	0.8	0.7	0.7	0.8	0.6	0.5	0.5	-0.5	12.6	0.93
7	Aldehydes & ketones	Methylethyl ketone	78-93-3	0.3	0.2	0.3	0.2					0.1	0.3	0.2	0.3	0.2					0.1	-4.1	1.6E+06	0.28
8		Acetone	67-64-1	82.8	41.9	41.4	46.8	28.9	27.7	27.5	38.7	14.1	82.4	41.7	41.2	46.6	28.8	27.6	27.3	38.5	14.1	-0.5	388.5	0.64
9		Acetophenone	98-86-2	0.5	0.1	0.0	0.6	0.5	0.6	0.5	0.3	0.3	0.5	0.1	0.0	0.6	0.5	0.6	0.5	0.3	0.3	0.1	0.2	0.00
10		Cyclohexanone	108-94-1																					
11		Methylisobutyl ketone	108-10-1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.4	0.0	0.90
12		Benzaldehyde	100-52-7	23.1	11.6	10.9	10.3	10.4	9.9	9.0	8.5	8.6	23.0	11.5	10.8	10.3	10.4	9.8	9.0	8.4	8.5	-0.4	70.0	0.98
13		Butanal	123-72-8	0.6	0.6	0.5	0.7	0.5	0.6	0.8	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.6	0.8	0.6	0.6	0.0	0.5	0.03
14		Decanal	112-31-2																					
15		2-Decenal	3913-81-3																					
16		Furfural	98-01-1	13.8	12.5	12.5	12.0	12.3	12.0	11.2	10.9	10.7	13.7	12.4	12.5	12.0	12.2	12.0	11.1	10.8	10.7	-0.1	18.6	0.81
17		Heptanal	111-71-7	1.9	0.9	1.0	0.8	0.8	0.8	0.8	0.8	0.7	1.9	0.9	1.0	0.8	0.8	0.8	0.8	0.8	0.7	-0.3	5.1	0.93
18		Hexanal	66-25-1	91.3	45.6	40.8	41.9	42.5	44.4	42.4	41.2	40.8	90.9	45.4	40.7	41.8	42.3	44.2	42.2	41.1	40.6	-0.3	199.4	0.83
19		Nonanal	124-19-6	2.5	1.8	2.4	1.6	1.6	1.5	1.4	1.3	1.3	2.5	1.8	2.4	1.6	1.6	1.5	1.4	1.3	1.3	-0.3	6.4	0.73
20		2-Nonenal	18829-56-6																					
21		2-Octenal	2548-87-0	10.9	8.3	7.9	8.0	7.1	7.5	7.8	7.3	7.3	10.8	8.3	7.9	8.0	7.0	7.5	7.7	7.2	7.2	-0.1	16.7	0.88
22		Pentanal	110-62-3	7.8	5.3	4.4	5.0	5.2	5.6	5.1	5.2	4.8	7.7	5.3	4.4	5.0	5.1	5.6	5.1	5.1	4.8	-0.1	11.3	0.59
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																					
24		Pentane, 3-methyl-	96-14-0																					
25		2,2,4-Trimethylpentane	540-84-1																					
26		2,4-Dimethylpentane	108-08-7																					
27		Decane	124-18-5	0.6									0.6											
28		Dodecane	112-40-3	0.4	0.2	0.2	0.1						0.4	0.2	0.2	0.1						-5.6	9.6E+08	0.52
29		Heptane	142-82-5			0.2									0.2									
30		Hexadecane	544-76-3																					
31		Hexane	110-54-3								3.4									3.3				
32		Nonane	111-84-2																					
33		Octane	111-65-9																					
34		Pentadecane	629-62-9																					
35		Tetradecane	629-59-4																					
36		Tridecane	629-50-5																					
37		Undecane	1120-21-4	1.7									1.6											
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2	0.1									0.1											
39		Toluene, 2-ethyl-	611-14-3																					
40		Toluene, 3-ethyl-	620-14-4	0.1									0.1											
41		Toluene, 4-ethyl-	622-96-8	0.0									0.0											
42		Cyclohexene, 4-phenyl	4994-16-5																					
43		Benzene	71-43-2	1.3	0.5		0.4	0.5	1.5	0.7	0.0	0.0	1.3	0.5		0.4	0.5	1.5	0.7	0.0	0.0	-0.6	1.3	0.01
44		Benzene, 1,2,3-trimethyl-	526-73-8	0.1									0.1											
45		Benzene, 1,2,4-trimethyl-	95-63-6	0.3									0.3											
46		Benzene, 1,2-dimethyl-	95-47-6																					
47		Benzene, 1,3,5-trimethyl-	108-67-8	0.1									0.1											
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3			0.1									0.1									
49		Benzene, isopropyl	98-82-8																					
50		Benzene, propyl-	103-65-1																					

Note: An empty cell means the compound was not detected or the chamber concentration was lower than the background level.

Table D. 9 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	11 h	143.3 h	191.2 h	191.5 h	263.2 h	308.1 h	335.2 h	335.4 h	24 h	11 h	143.3 h	191.2 h	191.5 h	263.2 h	308.1 h	335.2 h	335.4 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4			0.1									0.1									
52		Naphthalene	91-20-3	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	0.2	0.82
53		p-Cymene	99-87-6	0.2									0.2											
54		Styrene	100-42-5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.1	0.2	0.37
55		Toluene	108-88-3	0.0	0.0	0.8	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.8	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.0	0.03
56		2-Phenylpropene	98-83-9																					
57		Indene	95-13-6																					
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																					
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																					
60		Acetic acid, butyl ester	123-86-4																					
61		Acetic acid, ethyl ester	141-78-6	0.2									0.2											
62		Methyl methacrylate	80-62-6																					
63		2-Ethylhexyl acetate	103-09-3																					
64		2-Methoxyethylacetate	110-49-6																					
65		Butyrolactone	96-48-0																					
66		Texanol	25265-77-4																					
67		TXIB	6846-50-0	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	-0.2	1.0	0.81
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1																					
69		1,2-Propanediol	57-55-6																					
70		Diethylene glycol monoethyl ether	111-90-0																					
71		Propanol, 1-methoxy-2-	107-98-2																					
72		Ethanol, 2-butoxy-	111-76-2	1.3	0.8	0.9	0.7	0.7	0.7	0.6	0.6	0.5	1.3	0.8	0.9	0.7	0.7	0.7	0.6	0.6	0.5	-0.4	4.4	0.88
73		Ethanol, 2-butoxyethoxy-	112-34-5																					
74		Ethanol, 2-ethoxy-	110-80-5																					
75		Ethanol, 2-methoxy-	109-86-4																					
76		Propanol, 2-methyl-2-	75-65-0																					
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																					
78		1,2-Dichlorobenzene	95-50-1																					
79		1,2-Dichloroethane	107-06-2																					
80		1,2-Dichloropropane	78-87-5																					
81		1,4-Dichlorobenzene	106-46-7																					
82		Bromodichloromethane	75-27-4																					
83		Carbon tetrachloride	56-23-5								0.2									0.2				
84		Chloroform	67-66-3																					
85		Dibromochloromethane	124-48-1																					
86		Dichloromethane	75-09-2			0.4									0.4									
87		Tetrachloroethylene	127-18-4																					
88		Trichloroethylene	79-01-6			1.0					0.2				1.0					0.2				
89		1,1,2,2-Tetrachloroethane	79-34-5																					
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																					
91		Cyclohexane	110-82-7																					
92		Cyclohexane, butyl-	1678-93-9																					
93		Cyclohexane, ethyl-	1678-91-7																					
94		Cyclohexane, propyl-	1678-92-8																					
95		Decahydronaphthalene	91-17-8																					
96	Terpenes	alpha-Pinene	80-56-8	1.4									1.4											
97		alpha-Terpinene	99-86-5																					
98		beta-Pinene	127-91-3	0.6									0.6											
99		gamma-Terpinene	99-85-4																					
100		3-Carene	13466-78-9	0.9									0.9											
101		Camphene	79-92-5																					
102		Limonene	138-86-3	1.8		0.1						0.2	1.8		0.1						0.2	-4.1	1.0E+05	0.28

Table D. 9 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	11 h	143.3 h	191.2 h	191.5 h	263.2 h	308.1 h	335.2 h	335.4 h	24 h	11 h	143.3 h	191.2 h	191.5 h	263.2 h	308.1 h	335.2 h	335.4 h	m	b	R^2
103	Acids	Acetic acid	64-19-7	167.2	318.4	339.3	222.9	198.9	208.3	180.1	201.3	150.1	166.4	317.0	337.8	221.9	198.0	207.4	179.3	200.4	149.4	0.0	241.1	0.01
104		Isobutyric acid	79-31-2	2.3	1.6	1.4	1.4	1.3	1.5	1.1	1.0	1.2	2.3	1.6	1.4	1.4	1.3	1.4	1.1	1.0	1.2	-0.3	5.2	0.86
105		Butyric acid	107-92-6	1.0	1.1	1.2	1.1	1.0	1.1	1.0	0.9	1.0	1.0	1.1	1.2	1.1	1.0	1.1	1.0	0.9	1.0	0.0	1.2	0.10
106		Heptanoic acid	111-14-8																					
107		2-Ethylhexanoic acid	149-57-5																					
108		Hexanoic acid	142-62-1	6.1	3.9	4.0	3.5	3.3	3.1	2.7	2.6	2.6	6.1	3.9	3.9	3.5	3.3	3.1	2.7	2.5	2.6	-0.3	18.0	0.96
109		Pentanoic acid	109-52-4	1.4	0.9	0.9	0.9	0.9	0.7	0.6	0.7	0.7	1.4	0.9	0.9	0.9	0.9	0.7	0.6	0.6	0.7	-0.3	3.6	0.89
110		Octanoic acid	124-07-2																					
111	Other	Furan, 2-pentyl	3777-69-3	2.4	1.0	1.3	0.9	0.9	0.6	0.9	1.0	1.0	2.4	1.0	1.3	0.9	0.9	0.6	0.9	1.0	1.0	-0.4	6.6	0.66
112		2-Pyrrolidinone, 1-methyl-	872-50-4																					
113		1,4-Dioxane	123-91-1	0.1	0.3	0.3	0.4	0.3	0.2	0.4	0.3	0.4	0.1	0.3	0.3	0.4	0.3	0.2	0.4	0.3	0.4	0.3	0.0	0.46
114		Triethyl phosphate	78-40-0																					
115		n-Butyl ether	142-96-1																					
116		2-Butanone oxime	96-29-7																					
117		Triethylamine	121-44-8																					
A1	Abundant	1-Pentanol	71-41-0	3.2	1.4	1.3	1.1	1.1	1.0	0.9	1.0	0.9	3.2	1.4	1.2	1.1	1.1	1.0	0.9	1.0	0.9	-0.5	13.2	0.98
A2		Cyclotrisiloxane, hexamethyl-	541-05-9	2.6	1.5	1.8	1.5	1.2	1.7	1.6	2.1	0.8	2.6	1.4	1.8	1.5	1.2	1.6	1.6	2.1	0.8	-0.2	5.0	0.31
A3		Cyclotetrasiloxane, octamethyl-	556-67-2	1.1	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.3	1.1	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.3	-0.4	3.3	0.75
A4		Ethanol, 2-(2-butoxyethoxy)-, acetate	124-17-4	18.5	14.7	15.5	13.2	13.6	14.0	12.1	11.2	10.7	18.4	14.6	15.5	13.1	13.6	14.0	12.0	11.2	10.7	-0.2	34.6	0.81
A5		Terpene	NA1	14.9	10.5	11.2	9.5	9.3	8.8	8.3	7.8	7.4	14.9	10.5	11.2	9.4	9.2	8.8	8.2	7.8	7.4	-0.3	34.7	0.93
A6		Ester 1	NA2	24.5	14.6	15.9	13.2	13.4	13.1	10.1	11.0	10.7	24.4	14.5	15.8	13.1	13.3	13.1	10.1	11.0	10.7	-0.3	67.2	0.93
A7		Ester 2	NA3	48.6	29.7	26.4	22.0	24.1	21.7	22.6	20.6	17.2	48.4	29.6	26.3	21.9	24.0	21.6	22.5	20.5	17.1	-0.3	147.1	0.94
		TVOC	0-0-0	286.1	210.5	213.6	174.7	166.3	175.5	155.1	151.5	134.6	284.8	209.6	212.6	173.9	165.6	174.7	154.4	150.9	134.0	-0.3	683.8	0.89
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				25.0 h	120. h	144.5 h	192.5 h	194.2 h	264.5 h	309.1 h	336.6 h	338.3 h	25.0 h	120. h	144.5 h	192.5 h	194.2 h	264.5 h	309.1 h	336.6 h	338.3 h	m	b	R^2
D1	DNPH	Formaldehyde	50-00-0	48.7	45.9	50.9	50.0	50.1	48.5	47.6	47.5	48.6	48.5	45.7	50.7	49.8	49.9	48.3	47.3	47.3	48.4	0.0	49.1	0.00
D2		Acetaldehyde	75-07-0	14.7	9.0	11.2	9.3	8.8	7.1	6.7	6.7	6.6	14.7	9.0	11.2	9.3	8.8	7.1	6.7	6.7	6.6	-0.3	42.7	0.86
D3		Propanal	123-38-6	1.4	0.6	0.7	0.5	0.2	0.5	0.3	0.0	0.3	1.4	0.6	0.7	0.5	0.2	0.5	0.3	0.0	0.3	-1.0	67.0	0.34

Table D. 10 Chamber concentration and emission factor for “Trim: baseboard, MDF, 1.5", primed (test: MDF-bbt2)”

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})									Emission factor (μg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	11 h	143.3 h	191.2 h	191.5 h	263.2 h	308.1 h	335.2 h	335.4 h	24 h	11 h	143.3 h	191.2 h	191.5 h	263.2 h	308.1 h	335.2 h	335.4 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3	3.5	2.6	2.1	1.4	1.4	1.2	1.5	1.0	2.2	7.1	5.3	4.1	2.8	2.9	2.5	3.0	2.0	4.4	-0.4	26.6	0.7
2		1-Propanol	71-23-8																					
3		Hexanol, 2-ethyl-1-	104-76-7	1.2	0.7	0.5	0.4	0.6	0.3	0.3	0.2	0.4	2.5	1.4	1.0	0.8	1.2	0.6	0.5	0.4	0.9	-0.6	18.4	0.8
4		2-Propanol	67-63-0	15.9	9.9	8.6	5.3	4.6	1.7	3.4	1.9	5.3	31.7	19.7	17.2	10.7	9.2	3.4	6.8	3.9	10.6	-0.7	428.8	0.7
5		Ethanol	64-17-5	1.2	1.3	0.8		0.5		0.5		0.5	2.4	2.6	1.6		1.1		1.1		1.0	-3.8	3.0E+06	0.2
6		Phenol	108-95-2	6.9	5.2	5.1	4.0	4.2	3.4	3.5	2.7	4.2	13.8	10.5	10.3	8.0	8.4	6.7	7.0	5.5	8.4	-0.3	37.5	0.8
7	Aldehydes & ketones	Methylethyl ketone	78-93-3	0.5	0.6	0.3	0.3	0.3	0.2	0.2	0.2	0.4	1.1	1.2	0.7	0.7	0.6	0.4	0.4	0.4	0.7	-0.4	5.0	0.6
8		Acetone	67-64-1	114.2	109.2	91.0	79.4	74.6	32.1	56.9	35.3	75.8	228.0	218.1	181.7	158.6	148.9	64.2	113.7	70.5	151.4	-0.4	1006.2	0.5
9		Acetophenone	98-86-2	2.6	1.6	1.3	0.5	0.6	0.2	0.5	0.1	0.4	5.2	3.2	2.7	1.0	1.2	0.5	1.0	0.2	0.7	-1.1	266.9	0.7
10		Cyclohexanone	108-94-1	14.1	8.3	6.3	4.3	4.4	3.5	3.1	3.1	4.6	28.2	16.6	12.5	8.5	8.7	7.0	6.2	6.2	9.1	-0.6	193.2	0.9
11		Methylisobutyl ketone	108-10-1	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	-0.3	1.6	0.6
12		Benzaldehyde	100-52-7	23.4	10.8	7.4	4.7	5.0	3.5	4.1	3.1	5.0	46.8	21.6	14.7	9.4	10.1	7.0	8.2	6.2	10.0	-0.7	524.1	0.9
13		Butanal	123-72-8	2.3	2.2	1.9	2.0	1.8	1.6	2.1	1.7	2.8	4.6	4.3	3.8	3.9	3.7	3.1	4.1	3.4	5.5	-0.1	5.3	0.1
14		Decanal	112-31-2			0.7			0.5			0.8			1.5			1.0			1.5	2.6	0.0	0.1
15		2-Decenal	3913-81-3	6.3	4.6	4.2	3.8	4.7	4.5	5.1	4.4	6.3	12.7	9.2	8.4	7.5	9.4	8.9	10.1	8.8	12.5	-0.1	13.5	0.1
16		Furfural	98-01-1	1.5	1.7	1.7	1.7	1.7	1.7	11.4	1.2	2.1	3.1	3.5	3.4	3.3	3.4	3.4	22.8	2.4	4.1	0.2	1.4	0.1
17		Heptanal	111-71-7	8.7	4.6	3.6	3.0	3.0	2.8	2.6	2.3	3.8	17.4	9.3	7.3	6.0	6.0	5.7	5.2	4.6	7.6	-0.4	66.5	0.8
18		Hexanal	66-25-1	244.0	131.0	106.1	88.2	92.4	80.3	79.7	70.6	110.2	487.3	261.7	211.8	176.2	184.6	160.4	159.3	141.0	220.1	-0.4	1693.3	0.8
19		Nonanal	124-19-6	6.5	4.3	4.3	3.3	4.0	3.3	3.3	2.9	6.2	13.1	8.6	8.6	6.6	8.0	6.7	6.5	5.8	12.3	-0.2	22.7	0.3
20		2-Nonenal	18829-56-6																					
21		2-Octenal	2548-87-0	15.0	10.6	12.7	10.9	11.6	11.4	12.5	10.8	19.0	29.9	21.2	25.4	21.7	23.1	22.7	25.0	21.6	38.0	0.0	26.7	0.0
22		Pentanal	110-62-3	34.5	22.2	18.5	14.8	16.1	14.0	14.2	12.8	19.7	68.9	44.3	37.0	29.6	32.2	27.9	28.4	25.6	39.4	-0.3	190.1	0.8
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																					
24		Pentane, 3-methyl-	96-14-0																					
25		2,2,4-Trimethylpentane	540-84-1																					
26		2,4-Dimethylpentane	108-08-7																					
27		Decane	124-18-5																					
28		Dodecane	112-40-3	0.6	0.2								1.2	0.5										
29		Heptane	142-82-5	0.6	0.4	0.4	0.3	0.3		0.3		0.4	1.3	0.8	0.7	0.6	0.7		0.6		0.8	-3.1	2.6E+05	0.2
30		Hexadecane	544-76-3																					
31		Hexane	110-54-3																					
32		Nonane	111-84-2																					
33		Octane	111-65-9	0.4	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.9	0.6	0.5	0.5	0.6	0.4	0.4	0.4	0.5	-0.3	1.9	0.7
34		Pentadecane	629-62-9					0.2									0.3							
35		Tetradecane	629-59-4					0.1									0.3							
36		Tridecane	629-50-5																					
37		Undecane	1120-21-4	0.6									1.1											
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2																					
39		Toluene, 2-ethyl-	611-14-3																					
40		Toluene, 3-ethyl-	620-14-4																					
41		Toluene, 4-ethyl-	622-96-8																					
42		Cyclohexene, 4-phenyl	4994-16-5																					
43		Benzene	71-43-2																					
44		Benzene, 1,2,3-trimethyl-	526-73-8																					
45		Benzene, 1,2,4-trimethyl-	95-63-6																					
46		Benzene, 1,2-dimethyl-	95-47-6																					
47		Benzene, 1,3,5-trimethyl-	108-67-8																					
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3	0.1	0.0			0.0	0.0	0.1		0.0	0.1	0.1			0.1	0.1	0.1		0.1	-1.7	9.7	0.1
49		Benzene, isopropyl	98-82-8	0.1									0.1											
50		Benzene, propyl-	103-65-1																					

Note: An empty cell means the compound was not detected or the chamber concentration was lower than the background level.

Table D. 10 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	11 h	143.3 h	191.2 h	191.5 h	263.2 h	308.1 h	335.2 h	335.4 h	24 h	11 h	143.3 h	191.2 h	191.5 h	263.2 h	308.1 h	335.2 h	335.4 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4	0.0				0.0		0.0		0.0	0.1				0.0		0.0		0.1	-0.8	0.0	0.0
52		Naphthalene	91-20-3	0.0	0.0	0.0							0.1	0.0	0.0							-5.3	1.2E+07	0.8
53		p-Cymene	99-87-6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-1.0	7.7	0.9
54		Styrene	100-42-5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.3	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.2	-0.4	1.1	0.4
55		Toluene	108-88-3	0.1	0.0		0.0	0.0		0.0			0.2	0.1		0.1	0.1		0.0			-4.0	5.3E+05	0.3
56		2-Phenylpropene	98-83-9																					
57		Indene	95-13-6																					
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																					
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																					
60		Acetic acid, butyl ester	123-86-4																					
61		Acetic acid, ethyl ester	141-78-6																					
62		Methyl methacrylate	80-62-6																					
63		2-Ethylhexyl acetate	103-09-3																					
64		2-Methoxyethylacetate	110-49-6																					
65		Butyrolactone	96-48-0	2.1	1.9	1.6	1.3	1.4	1.3	1.2	0.9	1.5	4.2	3.8	3.2	2.6	2.8	2.7	2.3	1.9	3.0	-0.2	9.8	0.7
66		Texanol	25265-77-4	17.6	12.1	11.7	9.7	9.4	6.7	6.9	6.0	10.5	35.1	24.1	23.5	19.3	18.7	13.5	13.7	12.0	21.0	-0.3	113.1	0.7
67		TXIB	6846-50-0	0.0	0.0	0.0	0.0	0.6				0.0	0.0	0.1	0.1	0.1	1.2				0.0	-3.0	7682.3	0.2
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1																					
69		1,2-Propanediol	57-55-6																					
70		Diethylene glycol monoethyl ether	111-90-0																					
71		Propanol, 1-methoxy-2-	107-98-2																					
72		Ethanol, 2-butoxy-	111-76-2	65.9	38.4	28.5	19.7	20.7	14.3	15.2	12.1	21.5	131.7	76.8	57.0	39.3	41.3	28.5	30.3	24.1	42.9	-0.6	1006.5	0.9
73		Ethanol, 2-butoxyethoxy-	112-34-5																					
74		Ethanol, 2-ethoxy-	110-80-5																					
75		Ethanol, 2-methoxy-	109-86-4																					
76		Propanol, 2-methyl-2-	75-65-0																					
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																					
78		1,2-Dichlorobenzene	95-50-1																					
79		1,2-Dichloroethane	107-06-2																					
80		1,2-Dichloropropane	78-87-5																					
81		1,4-Dichlorobenzene	106-46-7																					
82		Bromodichloromethane	75-27-4																					
83		Carbon tetrachloride	56-23-5																					
84		Chloroform	67-66-3																					
85		Dibromochloromethane	124-48-1																					
86		Dichloromethane	75-09-2																					
87		Tetrachloroethylene	127-18-4																					
88		Trichloroethylene	79-01-6				0.1	0.1				0.1				0.2	0.2				0.3	2.3	0.0	0.1
89		1,1,2,2-Tetrachloroethane	79-34-5																					
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																					
91		Cyclohexane	110-82-7																					
92		Cyclohexane, butyl-	1678-93-9																					
93		Cyclohexane, ethyl-	1678-91-7																					
94		Cyclohexane, propyl-	1678-92-8																					
95		Decahydronaphthalene	91-17-8																					
96	Terpenes	alpha-Pinene	80-56-8									0.1									0.1			
97		alpha-Terpinene	99-86-5																					
98		beta-Pinene	127-91-3																					
99		gamma-Terpinene	99-85-4																					
100		3-Carene	13466-78-9																					
101		Camphene	79-92-5																					
102		Limonene	138-86-3																					

Table D. 10 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	11 h	143.3 h	191.2 h	191.5 h	263.2 h	308.1 h	335.2 h	335.4 h	24 h	11 h	143.3 h	191.2 h	191.5 h	263.2 h	308.1 h	335.2 h	335.4 h	m	b	R^2
103	Acids	Acetic acid	64-19-7	167.2	318.4	339.3	222.9	198.9	208.3	180.1	201.3	150.1	166.4	317.0	337.8	221.9	198.0	207.4	179.3	200.4	149.4	0.0	241.1	0.01
104		Isobutyric acid	79-31-2	2.3	1.6	1.4	1.4	1.3	1.5	1.1	1.0	1.2	2.3	1.6	1.4	1.4	1.3	1.4	1.1	1.0	1.2	-0.3	5.2	0.86
105		Butyric acid	107-92-6	1.0	1.1	1.2	1.1	1.0	1.1	1.0	0.9	1.0	1.0	1.1	1.2	1.1	1.0	1.1	1.0	0.9	1.0	0.0	1.2	0.10
106		Heptanoic acid	111-14-8																					
107		2-Ethylhexanoic acid	149-57-5																					
108		Hexanoic acid	142-62-1	6.1	3.9	4.0	3.5	3.3	3.1	2.7	2.6	2.6	6.1	3.9	3.9	3.5	3.3	3.1	2.7	2.5	2.6	-0.3	18.0	0.96
109		Pentanoic acid	109-52-4	1.4	0.9	0.9	0.9	0.9	0.7	0.6	0.7	0.7	1.4	0.9	0.9	0.9	0.9	0.7	0.6	0.6	0.7	-0.3	3.6	0.89
110		Octanoic acid	124-07-2																					
111	Other	Furan, 2-pentyl	3777-69-3	2.4	1.0	1.3	0.9	0.9	0.6	0.9	1.0	1.0	2.4	1.0	1.3	0.9	0.9	0.6	0.9	1.0	1.0	-0.4	6.6	0.66
112		2-Pyrrolidinone, 1-methyl-	872-50-4																					
113		1,4-Dioxane	123-91-1	0.1	0.3	0.3	0.4	0.3	0.2	0.4	0.3	0.4	0.1	0.3	0.3	0.4	0.3	0.2	0.4	0.3	0.4	0.3	0.0	0.46
114		Triethyl phosphate	78-40-0																					
115		n-Butyl ether	142-96-1																					
116		2-Butanone oxime	96-29-7																					
117		Triethylamine	121-44-8																					
A1	Abundant	1-Pentanol	71-41-0	12.6	5.1	2.9	1.9	1.9	1.5	1.4	1.1	1.8	25.2	10.1	5.8	3.9	3.8	3.0	2.8	2.1	3.7	-0.9	487.8	1.0
A2		Octanal	124-13-0	5.4	3.4	3.0	2.5	2.6	2.4	2.2	1.9	3.4	10.8	6.8	5.9	5.0	5.2	4.7	4.4	3.8	6.8	-0.3	27.8	0.7
A3		Ester	NA1	8.5	6.0	5.8	4.6	5.9	3.5	5.4	3.1	5.1	16.9	11.9	11.5	9.3	11.9	6.9	10.8	6.2	10.2	-0.3	42.6	0.6
		TVOC	0-0-0	517.5	351.2	336.4	282.4	258.9	199.5	234.7	179.0	362.8	1033.5	701.4	671.9	564.1	517.1	398.4	468.7	357.5	724.6	-0.3	2813.3	0.6
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				25.0 h	120. h	144.5 h	192.5 h	194.2 h	264.5 h	309.1 h	336.6 h	338.3 h	25.0 h	120. h	144.5 h	192.5 h	194.2 h	264.5 h	309.1 h	336.6 h	338.3 h	m	b	R^2
D1	DNPH	Formaldehyde	50-00-0	43.5	40.8	50.8	50.1	49.6	48.8	47.5	45.7	48.2	86.8	81.5	101.5	100.0	99.1	97.5	94.9	91.3	96.3	0.1	71.8	0.4
D2		Acetaldehyde	75-07-0	44.9	34.1	25.2	20.0	19.9	15.5	14.8	13.2	14.1	89.7	68.2	50.4	39.9	39.8	31.0	29.5	26.3	28.2	-0.5	543.6	1.0
D3		Propanal	123-38-6	4.3	3.0	1.1	0.6	0.4	0.1	0.1			8.5	5.9	2.1	1.2	0.8	0.2	0.1			-4.9	4.9E+09	0.4

Table D. 11 Chamber concentration and emission factor for “Trim: baseboard, MDF, 1.5", painted (test: MDF-bbt3)”

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})									Emission factor (μg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24.1 h	95.9 h	144 h	192.5 h	192.7 h	263.9 h	287.9 h	336.1 h	336.3 h	24.1 h	95.9 h	144 h	192.5 h	192.7 h	263.9 h	287.9 h	336.1 h	336.3 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3	5.9	1.8	1.5	1.4	1.3	1.5	1.0	0.6	1.1	11.9	3.5	2.9	2.7	2.6	2.9	2.0	1.2	2.3	0.0	3.0	0.0
2		1-Propanol	71-23-8																					
3		Hexanol, 2-ethyl-1-	104-76-7	0.6	0.4	0.3	0.4	0.3	0.4	0.3	0.3	0.3	1.1	0.8	0.6	0.8	0.6	0.8	0.6	0.6	0.5	0.0	0.9	0.7
4		2-Propanol	67-63-0	3.2	2.3	1.7	3.1	1.7	2.3	1.4	0.6	1.5	6.4	4.6	3.4	6.2	3.5	4.6	2.9	1.3	3.0	0.0	4.3	0.4
5		Ethanol	64-17-5	0.6	0.7	0.6	1.2	0.5	1.1	0.4	0.0	0.3	1.3	1.4	1.1	2.3	1.1	2.2	0.7	0.0	0.7	0.0	1.0	0.1
6		Phenol	108-95-2	2.7	2.7	2.6	2.4	2.5	2.4	2.0	1.7	1.9	5.4	5.5	5.2	4.8	5.0	4.8	3.9	3.4	3.8	0.0	5.6	0.7
7	Aldehydes & ketones	Methylethyl ketone	78-93-3	0.2	0.2	0.1	0.5	0.2	0.4	0.2	0.1	0.2	0.4	0.3	0.3	1.0	0.4	0.8	0.4	0.2	0.5	0.0	0.5	0.2
8		Acetone	67-64-1	40.0	38.0	37.2	44.7	39.7	37.4	32.7	13.1	33.8	79.9	75.8	74.4	89.4	79.2	74.7	65.4	26.2	67.5	0.0	75.1	0.3
9		Acetophenone	98-86-2	1.1	0.9	1.1	0.6	1.0	0.5	0.7	0.4	0.7	2.1	1.8	2.2	1.2	2.0	1.0	1.5	0.8	1.5	-0.1	2.0	0.7
10		Cyclohexanone	108-94-1	38.7	15.1	10.2	7.7	7.9	6.9	5.1	4.3	4.5	77.2	30.1	20.3	15.4	15.7	13.8	10.2	8.5	9.0	0.0	16.6	0.0
11		Methylisobutyl ketone	108-10-1				0.2		0.2	0.2						0.3		0.4	0.4			-0.3	0.0	0.1
12		Benzaldehyde	100-52-7	6.1	4.1	4.0	3.7	4.1	3.4	3.7	2.3	3.5	12.1	8.2	7.9	7.4	8.3	6.9	7.3	4.5	7.1	0.0	9.4	0.5
13		Butanal	123-72-8	0.4	0.2	0.5	1.0	0.3	0.4	0.3	0.2	0.5	0.9	0.4	1.0	2.1	0.6	0.8	0.7	0.4	1.1	0.0	0.9	0.1
14		Decanal	112-31-2																					
15		2-Decenal	3913-81-3																					
16		Furfural	98-01-1	2.9	2.0	1.8	2.2	1.7	2.0	1.5	1.2	1.4	5.8	4.0	3.7	4.3	3.4	4.1	3.0	2.4	2.8	0.0	4.0	0.5
17		Heptanal	111-71-7	1.7	1.7	1.6	1.8	1.5	1.9	1.6	1.4	1.5	3.4	3.4	3.2	3.6	3.1	3.8	3.1	2.9	2.9	0.0	4.1	0.6
18		Hexanal	66-25-1	29.1	29.4	27.1	27.2	24.6	27.9	22.9	21.1	22.3	58.2	58.6	54.2	54.3	49.1	55.7	45.7	42.1	44.5	0.0	63.2	0.6
19		Nonanal	124-19-6	3.8	3.8	3.4	3.6	3.3	4.0	2.8	2.8	2.7	7.5	7.5	6.7	7.1	6.7	8.0	5.6	5.5	5.4	0.0	8.4	0.8
20		2-Nonenal	18829-56-6																					
21		2-Octenal	2548-87-0	1.7	2.0	2.2	1.8	2.3	2.0	1.9	1.7	2.0	3.4	3.9	4.5	3.7	4.6	4.1	3.8	3.4	3.9	0.0	4.5	0.5
22		Pentanal	110-62-3	5.7	5.6	5.2	5.3	4.7	5.1	4.4	4.0	4.4	11.3	11.1	10.4	10.6	9.5	10.2	8.9	8.1	8.8	0.0	11.4	0.6
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																					
24		Pentane, 3-methyl-	96-14-0																					
25		2,2,4-Trimethylpentane	540-84-1																					
26		2,4-Dimethylpentane	108-08-7																					
27		Decane	124-18-5																					
28		Dodecane	112-40-3																					
29		Heptane	142-82-5	0.3									0.5									-0.7	0.0	0.8
30		Hexadecane	544-76-3	0.3	0.1								0.6	0.3								-0.1	0.0	0.0
31		Hexane	110-54-3	0.8			0.5						1.6			1.1						-0.1	0.0	0.0
32		Nonane	111-84-2																					
33		Octane	111-65-9						0.2		0.2							0.4		0.3		-0.4	0.0	0.2
34		Pentadecane	629-62-9	0.3	0.2								0.6	0.4								0.0	0.0	0.0
35		Tetradecane	629-59-4	0.2	0.1								0.5	0.2								-0.2	0.0	0.1
36		Tridecane	629-50-5																					
37		Undecane	1120-21-4																					
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2																					
39		Toluene, 2-ethyl-	611-14-3																					
40		Toluene, 3-ethyl-	620-14-4																					
41		Toluene, 4-ethyl-	622-96-8																					
42		Cyclohexene, 4-phenyl	4994-16-5																					
43		Benzene	71-43-2	0.0	0.6	1.9	1.2	1.0		0.9		0.9	0.1	1.2	3.8	2.3	1.9		1.7		1.9	0.2	0.0	0.1
44		Benzene, 1,2,3-trimethyl-	526-73-8																					
45		Benzene, 1,2,4-trimethyl-	95-63-6																					
46		Benzene, 1,2-dimethyl-	95-47-6				0.1									0.1								
47		Benzene, 1,3,5-trimethyl-	108-67-8																					
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3	0.0	0.0		0.1		0.1				0.0	0.0		0.2		0.1				-0.1	0.0	0.0
49		Benzene, isopropyl	98-82-8	0.5	0.0								0.9	0.1								0.0	0.0	0.0
50		Benzene, propyl-	103-65-1	0.2									0.5											

Note: An empty cell means the compound was not detected or the chamber concentration was lower than the background level.

Table D. 11 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24.1 h	95.9 h	144 h	192.5 h	192.7 h	263.9 h	287.9 h	336.1 h	336.3 h	24.1 h	95.9 h	144 h	192.5 h	192.7 h	263.9 h	287.9 h	336.1 h	336.3 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4	0.0			0.0		0.0	0.0			0.1			0.1		0.0	0.0			0.0	0.0	0.0
52		Naphthalene	91-20-3	0.0	0.0		0.0						0.0	0.0		0.0						-0.4	0.0	0.5
53		p-Cymene	99-87-6	0.0	0.0	0.0							0.1	0.0	0.0							-0.5	0.0	0.5
54		Styrene	100-42-5	0.3	0.1	0.2	0.1	0.1	0.1	0.7	0.3	0.2	0.6	0.2	0.3	0.2	0.2	0.2	1.4	0.5	0.4	0.0	0.3	0.0
55		Toluene	108-88-3		0.0		0.2	0.0	0.1			0.0		0.0		0.3	0.0	0.2			0.0	-0.1	0.0	0.0
56		2-Phenylpropene	98-83-9																					
57		Indene	95-13-6																					
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																					
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																					
60		Acetic acid, butyl ester	123-86-4																					
61		Acetic acid, ethyl ester	141-78-6																					
62		Methyl methacrylate	80-62-6																					
63		2-Ethylhexyl acetate	103-09-3																					
64		2-Methoxyethylacetate	110-49-6																					
65		Butyrolactone	96-48-0	1.6	1.5	1.3	1.2	0.9	1.2	1.1	0.8	1.1	3.2	3.0	2.6	2.4	1.9	2.5	2.3	1.6	2.1	0.0	2.8	0.8
66		Texanol	25265-77-4	1318.1	804.4	545.0	436.7	430.8	342.5	253.0	204.9	206.4	2632.6	1606.6	1088.4	872.2	860.4	684.0	505.2	409.2	412.2	0.1	467.4	0.3
67		TXIB	6846-50-0	4.7	4.9	3.4	3.0	3.1	2.4	1.8	1.5	1.8	9.5	9.7	6.9	5.9	6.1	4.8	3.7	3.0	3.6	0.1	3.5	0.2
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1	13.2	5.6	4.4	5.1	3.6					26.4	11.2	8.7	10.2	7.2					0.4	0.0	0.2
69		1,2-Propanediol	57-55-6	295.5	167.3	120.3	99.7	101.3	65.9	66.9	46.0	58.5	590.2	334.1	240.2	199.1	202.2	131.6	133.7	91.8	116.9	0.7	4.8	0.6
70		Diethylene glycol monoethyl ether	111-90-0																					
71		Propanol, 1-methoxy-2-	107-98-2																					
72		Ethanol, 2-butoxy-	111-76-2	162.7	60.7	40.9	31.7	30.7	25.3	19.0	16.4	16.4	324.9	121.3	81.7	63.3	61.4	50.5	38.0	32.8	32.7	0.0	64.7	0.0
73		Ethanol, 2-butoxyethoxy-	112-34-5																					
74		Ethanol, 2-ethoxy-	110-80-5																					
75		Ethanol, 2-methoxy-	109-86-4																					
76		Propanol, 2-methyl-2-	75-65-0	0.2					0.1				0.4					0.2				0.0	0.0	0.0
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																					
78		1,2-Dichlorobenzene	95-50-1																					
79		1,2-Dichloroethane	107-06-2																					
80		1,2-Dichloropropane	78-87-5																					
81		1,4-Dichlorobenzene	106-46-7																					
82		Bromodichloromethane	75-27-4																					
83		Carbon tetrachloride	56-23-5																					
84		Chloroform	67-66-3																					
85		Dibromochloromethane	124-48-1																					
86		Dichloromethane	75-09-2																					
87		Tetrachloroethylene	127-18-4																					
88		Trichloroethylene	79-01-6				0.9		0.7							1.8		1.5						
89		1,1,2,2-Tetrachloroethane	79-34-5																					
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																					
91		Cyclohexane	110-82-7																					
92		Cyclohexane, butyl-	1678-93-9																					
93		Cyclohexane, ethyl-	1678-91-7																					
94		Cyclohexane, propyl-	1678-92-8																					
95		Decahydronaphthalene	91-17-8																					
96	Terpenes	alpha-Pinene	80-56-8																					
97		alpha-Terpinene	99-86-5																					
98		beta-Pinene	127-91-3																					
99		gamma-Terpinene	99-85-4																					
100		3-Carene	13466-78-9																					
101		Camphene	79-92-5																					
102		Limonene	138-86-3																					

Table D. 11 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24.1 h	95.9 h	144 h	192.5 h	192.7 h	263.9 h	287.9 h	336.1 h	336.3 h	24.1 h	95.9 h	144 h	192.5 h	192.7 h	263.9 h	287.9 h	336.1 h	336.3 h	m	b	R^2
103	Acids	Acetic acid	64-19-7	167.2	318.4	339.3	222.9	198.9	208.3	180.1	201.3	150.1	166.4	317.0	337.8	221.9	198.0	207.4	179.3	200.4	149.4	0.0	241.1	0.01
104		Isobutyric acid	79-31-2	2.3	1.6	1.4	1.4	1.3	1.5	1.1	1.0	1.2	2.3	1.6	1.4	1.4	1.3	1.4	1.1	1.0	1.2	-0.3	5.2	0.86
105		Butyric acid	107-92-6	1.0	1.1	1.2	1.1	1.0	1.1	1.0	0.9	1.0	1.0	1.1	1.2	1.1	1.0	1.1	1.0	0.9	1.0	0.0	1.2	0.10
106		Heptanoic acid	111-14-8																					
107		2-Ethylhexanoic acid	149-57-5																					
108		Hexanoic acid	142-62-1	6.1	3.9	4.0	3.5	3.3	3.1	2.7	2.6	2.6	6.1	3.9	3.9	3.5	3.3	3.1	2.7	2.5	2.6	-0.3	18.0	0.96
109		Pentanoic acid	109-52-4	1.4	0.9	0.9	0.9	0.9	0.7	0.6	0.7	0.7	1.4	0.9	0.9	0.9	0.9	0.7	0.6	0.6	0.7	-0.3	3.6	0.89
110		Octanoic acid	124-07-2																					
111	Other	Furan, 2-pentyl	3777-69-3	2.4	1.0	1.3	0.9	0.9	0.6	0.9	1.0	1.0	2.4	1.0	1.3	0.9	0.9	0.6	0.9	1.0	1.0	-0.4	6.6	0.66
112		2-Pyrrolidinone, 1-methyl-	872-50-4																					
113		1,4-Dioxane	123-91-1	0.1	0.3	0.3	0.4	0.3	0.2	0.4	0.3	0.4	0.1	0.3	0.3	0.4	0.3	0.2	0.4	0.3	0.4	0.3	0.0	0.46
114		Triethyl phosphate	78-40-0																					
115		n-Butyl ether	142-96-1																					
116		2-Butanone oxime	96-29-7																					
117		Triethylamine	121-44-8																					
A1	Abundant	1-Pentanol	71-41-0	1.5	1.1	0.9	0.8	0.8	0.9	0.7	0.6	0.6	3.1	2.1	1.9	1.6	1.7	1.7	1.4	1.3	1.3	-0.1	2.3	0.5
A2		Cyclotrisiloxane, hexamethyl-	541-05-9	11.1	1.3	1.8	10.8	5.3	0.9	2.0	0.2	1.2	22.1	2.7	3.5	21.6	10.5	1.7	4.1	0.5	2.3	0.0	4.9	0.1
A3		Octanal	124-13-0	1.5	1.6	1.4	1.5	1.3	1.6	1.2	1.2	1.2	2.9	3.2	2.9	3.0	2.6	3.3	2.4	2.5	2.4	-0.1	3.7	0.8
A4		1-Octanol	111-87-5	1.4	1.2	0.9	1.0	0.9	0.9	0.7	0.7	0.7	2.8	2.4	1.9	2.0	1.8	1.9	1.4	1.4	1.5	-0.1	2.5	0.8
		TVOC	0-0-0	1554.2	916.1	651.0	569.4	547.3	458.4	359.8	282.5	306.4	3104.1	1829.6	1300.1	1137.3	1093.1	915.5	718.6	564.3	611.9	0.0	1125.9	0.0
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				25.1 h	97.0 h	144.9 h	194.4 h	197.1 h	265.0 h	265.1 h	337.3 h	339.1 h	25.1 h	97.0 h	144.9 h	194.4 h	197.1 h	265.0 h	265.1 h	337.3 h	339.1 h	m	b	R^2
D1	DNPH	Formaldehyde	50-00-0	13.9	15.8	13.9	13.4	14.3	13.7	13.8	13.7	82.7	31.5	27.7	26.7	28.6	27.4	27.5	27.3	0.0	0.0	-0.1	38.2	1.0
D2		Acetaldehyde	75-07-0	11.4	10.8	9.5	8.8	9.2	8.6	8.1	8.0	57.1	21.5	19.0	17.6	18.3	17.2	16.2	16.1	0.0	0.0	0.0	24.0	0.8
D3		Propanal	123-38-6	1.0	0.9	0.6	0.6	0.8	0.5	0.6	0.5	3.9	1.8	1.3	1.1	1.6	1.1	1.1	0.9	0.0	0.0	0.0	1.7	0.6

Table D. 12 Chamber concentration and emission factor for “Finishing: caulk, latex (test: Caulk)”

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})									Emission factor (μg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				25 h	96 h	140.2 h	190.7 h	190.9 h	264.1 h	288.2 h	336.0 h	336.2 h	25 h	96 h	140.2 h	190.7 h	190.9 h	264.1 h	288.2 h	336.0 h	336.2 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3	7.1	2.0	1.3	0.9	0.7	0.6	0.6	0.5	0.4	227.2	63.9	40.7	27.6	22.1	19.8	19.2	15.4	11.6	-1.1	8389.2	1.0
2		1-Propanol	71-23-8																					
3		Hexanol, 2-ethyl-1-	104-76-7	15.4	6.2	4.4	3.0	2.8	2.3	2.0	1.5	1.3	491.0	199.7	142.0	94.7	90.8	72.0	62.7	48.1	41.9	-0.9	11559.7	1.0
4		2-Propanol	67-63-0	3.6	1.5	1.2	0.9	0.6	0.5	0.6	0.5	0.1	116.5	48.3	37.7	29.4	19.1	16.1	19.4	16.9	4.3	-1.0	3348.8	0.8
5		Ethanol	64-17-5	338.8	86.1	41.7	21.2	17.9	21.2	11.5	9.7	10.7	10827.6	2751.8	1333.9	676.9	571.7	678.4	366.9	310.7	341.5	-1.4	1.1E+06	1.0
6		Phenol	108-95-2	0.2	0.2	0.3	0.1	0.2	0.1	0.1	0.3	0.1	6.0	7.2	9.6	2.4	6.2	3.2	2.0	9.1	3.3	-0.2	16.6	0.1
7	Aldehydes & ketones	Methylethyl ketone	78-93-3		0.1	0.1	0.3	0.1	0.2	0.1	1.4			4.0	1.9	9.4	2.3	6.7	2.2	44.3		3.7	0.0	0.2
8		Acetone	67-64-1	77.8	54.0	31.2	19.5	15.0	12.4	8.7	11.8	5.0	2487.3	1726.1	997.9	622.1	480.5	395.9	276.7	376.4	160.4	-1.0	85516.5	0.8
9		Acetophenone	98-86-2		0.2	0.4					0.9			6.6	11.8					28.2		0.0	0.0	0.0
10		Cyclohexanone	108-94-1																					
11		Methylisobutyl ketone	108-10-1	0.1									2.4											
12		Benzaldehyde	100-52-7	0.5	0.7	1.2					0.8		17.4	21.6	38.0					25.8		-6.0	4.2E+10	0.3
13		Butanal	123-72-8																					
14		Decanal	112-31-2																					
15		2-Decenal	3913-81-3																					
16		Furfural	98-01-1	1.1	0.5	0.6	0.5	0.3	0.2	0.2	0.2	0.2	36.5	15.3	19.4	15.6	10.1	7.1	5.0	6.6	7.7	-0.7	397.4	0.8
17		Heptanal	111-71-7																					
18		Hexanal	66-25-1	0.3							0.4		9.7							11.5				
19		Nonanal	124-19-6																					
20		2-Nonenal	18829-56-6																					
21		2-Octenal	2548-87-0																					
22		Pentanal	110-62-3																					
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																					
24		Pentane, 3-methyl-	96-14-0																					
25		2,2,4-Trimethylpentane	540-84-1																					
26		2,4-Dimethylpentane	108-08-7																					
27		Decane	124-18-5	6.1	3.1	2.3	1.8	1.6	1.4	1.2	1.0	0.9	195.5	97.6	74.9	57.1	49.8	45.8	37.7	32.3	28.2	-0.7	2322.5	1.0
28		Dodecane	112-40-3	0.3	0.2	0.1	0.1	0.1	0.1	0.1			10.5	5.5	3.8	2.9	2.6	2.5	1.9			-4.4	8.3E+08	0.3
29		Heptane	142-82-5																					
30		Hexadecane	544-76-3																					
31		Hexane	110-54-3		2.4									77.0										
32		Nonane	111-84-2	5.9	3.0	2.3	1.7	1.5	1.4	1.1	1.0	0.9	188.4	95.2	74.5	53.7	49.3	45.2	35.5	32.1	28.7	-0.7	2175.4	1.0
33		Octane	111-65-9																					
34		Pentadecane	629-62-9	0.1		0.1	0.1	0.3					3.4		2.8	2.9	8.7					-5.0	1.4E+08	0.3
35		Tetradecane	629-59-4			0.1		0.2							2.5		5.1							
36		Tridecane	629-50-5																					
37		Undecane	1120-21-4	1.1	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.2	36.4	18.0	15.1	11.2	10.0	9.9	7.4	7.3	6.2	-0.7	335.3	1.0
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2																					
39		Toluene, 2-ethyl-	611-14-3																					
40		Toluene, 3-ethyl-	620-14-4																					
41		Toluene, 4-ethyl-	622-96-8																					
42		Cyclohexene, 4-phenyl	4994-16-5																					
43		Benzene	71-43-2		0.0						0.6	0.3		0.0						17.9	10.7	3.1	0.0	0.1
44		Benzene, 1,2,3-trimethyl-	526-73-8																					
45		Benzene, 1,2,4-trimethyl-	95-63-6																					
46		Benzene, 1,2-dimethyl-	95-47-6	0.0							0.1		1.3							2.1				
47		Benzene, 1,3,5-trimethyl-	108-67-8																					
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.3	0.0	3.6	1.6	1.6	2.6	2.0	1.8	1.5	10.6	0.8	-0.1	3.6	0.0
49		Benzene, isopropyl	98-82-8																					
50		Benzene, propyl-	103-65-1																					

Note: An empty cell means the compound was not detected or the chamber concentration was lower than the background level.

Table D. 12 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				25 h	96 h	140.2 h	190.7 h	190.9 h	264.1 h	288.2 h	336.0 h	336.2 h	25 h	96 h	140.2 h	190.7 h	190.9 h	264.1 h	288.2 h	336.0 h	336.2 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1		1.1	0.4	0.4	0.6	0.3	0.2	0.2	2.5		-1.9	1928.9	0.1
52		Naphthalene	91-20-3	0.0	0.0	0.0				0.0	0.0		1.0	0.6	0.6				0.5	1.0		-3.6	2.0E+05	0.2
53		p-Cymene	99-87-6																					
54		Styrene	100-42-5	0.0	0.0								1.0	0.5										
55		Toluene	108-88-3	0.1		0.0	0.2	0.0			2.6		1.6		0.0	7.8	1.5			81.5		-2.3	370.6	0.1
56		2-Phenylpropene	98-83-9																					
57		Indene	95-13-6																					
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																					
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																					
60		Acetic acid, butyl ester	123-86-4	0.3	0.1								8.1	4.2										
61		Acetic acid, ethyl ester	141-78-6	14.3	4.8	3.1	1.9	1.9	1.5	1.2	1.0	1.0	456.7	151.8	100.4	62.2	60.2	48.5	37.5	33.3	32.9	-1.0	14981.7	1.0
62		Methyl methacrylate	80-62-6																					
63		2-Ethylhexyl acetate	103-09-3	6.2	2.8	2.0	1.4	1.2	1.1	0.9	0.8	0.7	199.4	88.5	63.2	44.4	39.9	35.8	28.9	24.3	22.2	-0.8	3479.3	1.0
64		2-Methoxyethylacetate	110-49-6																					
65		Butyrolactone	96-48-0																					
66		Texanol	25265-77-4																					
67		TXIB	6846-50-0	0.8	0.7	0.7	0.6	1.5	0.5	0.4	0.4	0.3	27.0	23.4	21.2	18.2	47.3	16.9	12.5	11.5	10.2	-0.3	99.1	0.3
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1	771.8	695.1	600.6	290.0	394.7	331.8	376.1	315.6	345.9	24668.9	22216.9	19197.9	9270.4	12614.9	10605.3	12020.7	10087.5	11056.6	-0.4	96455.7	0.7
69		1,2-Propanediol	57-55-6																					
70		Diethylene glycol monoethyl ether	111-90-0																					
71		Propanol, 1-methoxy-2-	107-98-2																					
72		Ethanol, 2-butoxy-	111-76-2																					
73		Ethanol, 2-butoxyethoxy-	112-34-5																					
74		Ethanol, 2-ethoxy-	110-80-5																					
75		Ethanol, 2-methoxy-	109-86-4																					
76		Propanol, 2-methyl-2-	75-65-0	474.6	110.2	64.6	40.2	35.9	29.8	23.4	20.0	17.8	15169.8	3521.6	2065.8	1285.1	1148.4	951.5	747.7	638.0	569.4	-1.3	9.8E+05	1.0
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																					
78		1,2-Dichlorobenzene	95-50-1																					
79		1,2-Dichloroethane	107-06-2																					
80		1,2-Dichloropropane	78-87-5																					
81		1,4-Dichlorobenzene	106-46-7																					
82		Bromodichloromethane	75-27-4																					
83		Carbon tetrachloride	56-23-5																					
84		Chloroform	67-66-3																					
85		Dibromochloromethane	124-48-1																					
86		Dichloromethane	75-09-2																					
87		Tetrachloroethylene	127-18-4																					
88		Trichloroethylene	79-01-6	0.2			0.5	0.3			1.3		6.7			17.0	9.3			41.4		-2.5	518.5	0.1
89		1,1,2,2-Tetrachloroethane	79-34-5																					
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																					
91		Cyclohexane	110-82-7																					
92		Cyclohexane, butyl-	1678-93-9	0.8	0.4	0.3	0.2	0.2	0.2	0.2	0.1	0.1	24.2	13.0	9.9	7.7	6.4	5.8	5.0	3.9	3.4	-0.7	306.7	0.9
93		Cyclohexane, ethyl-	1678-91-7																					
94		Cyclohexane, propyl-	1678-92-8	1.4	0.7	0.5	0.4	0.3	0.3	0.2	0.2	0.2	43.8	20.9	15.9	11.5	10.0	9.8	7.8	6.9	6.7	-0.7	516.8	1.0
95		Decahydronaphthalene	91-17-8																					
96	Terpenes	alpha-Pinene	80-56-8																					
97		alpha-Terpinene	99-86-5																					
98		beta-Pinene	127-91-3																					
99		gamma-Terpinene	99-85-4																					
100		3-Carene	13466-78-9																					
101		Camphene	79-92-5																					
102		Limonene	138-86-3																					

Table D. 12 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				25 h	96 h	140.2 h	190.7 h	190.9 h	264.1 h	288.2 h	336.0 h	336.2 h	25 h	96 h	140.2 h	190.7 h	190.9 h	264.1 h	288.2 h	336.0 h	336.2 h	m	b	R^2
103	Acids	Acetic acid	64-19-7	167.2	318.4	339.3	222.9	198.9	208.3	180.1	201.3	150.1	166.4	317.0	337.8	221.9	198.0	207.4	179.3	200.4	149.4	0.0	241.1	0.01
104		Isobutyric acid	79-31-2	2.3	1.6	1.4	1.4	1.3	1.5	1.1	1.0	1.2	2.3	1.6	1.4	1.4	1.3	1.4	1.1	1.0	1.2	-0.3	5.2	0.86
105		Butyric acid	107-92-6	1.0	1.1	1.2	1.1	1.0	1.1	1.0	0.9	1.0	1.0	1.1	1.2	1.1	1.0	1.1	1.0	0.9	1.0	0.0	1.2	0.10
106		Heptanoic acid	111-14-8																					
107		2-Ethylhexanoic acid	149-57-5																					
108		Hexanoic acid	142-62-1	6.1	3.9	4.0	3.5	3.3	3.1	2.7	2.6	2.6	6.1	3.9	3.9	3.5	3.3	3.1	2.7	2.5	2.6	-0.3	18.0	0.96
109		Pentanoic acid	109-52-4	1.4	0.9	0.9	0.9	0.9	0.7	0.6	0.7	0.7	1.4	0.9	0.9	0.9	0.9	0.7	0.6	0.6	0.7	-0.3	3.6	0.89
110		Octanoic acid	124-07-2																					
111	Other	Furan, 2-pentyl	3777-69-3	2.4	1.0	1.3	0.9	0.9	0.6	0.9	1.0	1.0	2.4	1.0	1.3	0.9	0.9	0.6	0.9	1.0	1.0	-0.4	6.6	0.66
112		2-Pyrrolidinone, 1-methyl-	872-50-4																					
113		1,4-Dioxane	123-91-1	0.1	0.3	0.3	0.4	0.3	0.2	0.4	0.3	0.4	0.1	0.3	0.3	0.4	0.3	0.2	0.4	0.3	0.4	0.3	0.0	0.46
114		Triethyl phosphate	78-40-0																					
115		n-Butyl ether	142-96-1																					
116		2-Butanone oxime	96-29-7																					
117		Triethylamine	121-44-8																					
A1	Abundant	Propanoic acid, ethyl ester	105-37-3	27.7	10.4	7.3	5.0	4.6	4.0	3.2	2.7	2.7	885.7	331.6	232.2	158.5	146.4	128.2	102.7	87.0	86.3	-0.9	18657.1	1.0
A2		Ester	NA	169.8	109.6	97.3	70.4	65.0	61.6	54.3	48.1	37.8	5426.0	3503.2	3108.8	2251.6	2077.1	1970.0	1736.4	1536.9	1208.4	-0.5	35258.8	0.9
A3		Propanoic acid, 2-methyl-, 2-ethyl-3-hydroxyhexyl ester	74367-31-0	378.0	276.8	224.4	189.6	167.1	140.7	118.3	103.6	91.6	12081.3	8847.9	7172.7	6060.2	5341.4	4497.1	3781.6	3309.9	2928.1	-0.5	83455.0	0.9
		TVOC	0-0-0	944.5	550.3	434.4	336.7	317.0	272.2	223.6	213.9	168.9	30189.3	17588.1	13882.8	10762.4	10131.7	8699.9	7146.1	6836.6	5396.8	-0.6	267914	0.9
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24.4 h	97.1 h	141.2 h	191.9 h	193.7 h	265.0 h	289.3 h	337.1 h	338.8 h	24.4 h	97.1 h	141.2 h	191.9 h	193.7 h	265.0 h	289.3 h	337.1 h	338.8 h	m	b	R^2
D1	DNPH	Formaldehyde	50-00-0	4.3	2.1	0.6	1.4	1.9		0.6	2.0	0.6	139.0	65.9	19.4	43.5	61.8		20.2	62.8	19.9	-2.0	1.5E+05	0.1
D2		Acetaldehyde	75-07-0	7.1	0.5	0.0							226.9	15.3	0.7							-8.7	6.8E+15	0.8
D3		Propanal	123-38-6																					

Table D. 13 Chamber concentration and emission factor for "Finishing: paint-drywall assembly (test: Paint1)"

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})									Emission factor (μg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				23 h	95 h	143.2 h	191.2 h	191.4 h	263.2 h	287.7 h	335.3 h	335.4 h	23 h	95 h	143.2 h	191.2 h	191.4 h	263.2 h	287.7 h	335.3 h	335.4 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3	0.9	0.7	0.8	0.5	0.6	0.5	0.4	0.4	0.5	2.2	1.7	1.9	1.3	1.6	1.2	1.1	1.1	1.3	-0.3	5.4	0.7
2		1-Propanol	71-23-8																					
3		Hexanol, 2-ethyl-1-	104-76-7	0.0				0.0	0.0	0.0	0.0		0.1				0.0	0.0	0.0	0.0		-0.7	0.0	0.0
4		2-Propanol	67-63-0	0.1		0.1		0.1					0.3		0.3		0.4					-4.4	4.8E+05	0.3
5		Ethanol	64-17-5	0.0	0.3	0.5	0.3	0.1				0.1	0.1	0.8	1.2	0.7	0.3				0.1	-3.6	5.7E+05	0.2
6		Phenol	108-95-2	0.0	0.1	0.1	0.0						0.1	0.3	0.3	0.1						-5.4	1.7E+08	0.5
7	Aldehydes & ketones	Methylethyl ketone	78-93-3	0.0	0.1	0.0		0.1	0.0	0.0	0.0		0.0	0.3	0.0		0.3	0.0	0.1	0.0		-2.0	105.0	0.1
8		Acetone	67-64-1	1.9	1.1	1.2	0.6	1.1		0.2	0.1	0.3	4.8	2.7	3.0	1.4	2.8		0.6	0.3	0.8	-2.0	7461.9	0.1
9		Acetophenone	98-86-2		0.1	0.4	0.2				0.3			0.2	0.9	0.4				0.7		0.4	0.0	0.0
10		Cyclohexanone	108-94-1																					
11		Methylisobutyl ketone	108-10-1																					
12		Benzaldehyde	100-52-7	0.3	0.7	0.8	0.5	0.0			0.3	0.3	0.9	1.8	2.0	1.2	0.1			0.7	0.8	-2.6	24823.1	0.1
13		Butanal	123-72-8																					
14		Decanal	112-31-2																					
15		2-Decenal	3913-81-3																					
16		Furfural	98-01-1	0.0		0.2	0.1			3.1			0.1		0.4	0.2			7.6			-2.4	59.4	0.1
17		Heptanal	111-71-7																					
18		Hexanal	66-25-1	0.2									0.4											
19		Nonanal	124-19-6	0.2									0.5											
20		2-Nonenal	18829-56-6																					
21		2-Octenal	2548-87-0																					
22		Pentanal	110-62-3																					
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																					
24		Pentane, 3-methyl-	96-14-0																					
25		2,2,4-Trimethylpentane	540-84-1																					
26		2,4-Dimethylpentane	108-08-7																					
27		Decane	124-18-5																					
28		Dodecane	112-40-3																					
29		Heptane	142-82-5																					
30		Hexadecane	544-76-3	0.2									0.5											
31		Hexane	110-54-3							0.6									1.4					
32		Nonane	111-84-2																					
33		Octane	111-65-9																					
34		Pentadecane	629-62-9	0.1			0.0						0.2			0.0								
35		Tetradecane	629-59-4	0.1			0.0						0.2			0.1								
36		Tridecane	629-50-5																					
37		Undecane	1120-21-4																					
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2																					
39		Toluene, 2-ethyl-	611-14-3																					
40		Toluene, 3-ethyl-	620-14-4	0.1	0.0								0.2	0.1										
41		Toluene, 4-ethyl-	622-96-8	0.0	0.0								0.1	0.0										
42		Cyclohexene, 4-phenyl	4994-16-5																					
43		Benzene	71-43-2		0.4	0.5	0.5	0.0		0.0	0.3	0.5		1.1	1.3	1.2	0.0		0.1	0.9	1.3	3.3	0.0	0.2
44		Benzene, 1,2,3-trimethyl-	526-73-8																					
45		Benzene, 1,2,4-trimethyl-	95-63-6																					
46		Benzene, 1,2-dimethyl-	95-47-6	0.0	0.0	0.0	0.0	0.0					0.1	0.1	0.1	0.1	0.1					-4.9	5.7E+07	0.5
47		Benzene, 1,3,5-trimethyl-	108-67-8																					
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3	0.0	0.0	0.0	0.0	0.0	0.0				0.1	0.1	0.0	0.0	0.1	0.0				-4.1	2.1E+06	0.4
49		Benzene, isopropyl	98-82-8	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.0		1.0	0.3	0.2	0.2	0.2	0.2	0.1	0.1		-2.3	6617.6	0.2
50		Benzene, propyl-	103-65-1	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.6	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	-0.7	5.8	1.0

Note: An empty cell means the compound was not detected or the the chamber concentration was lower than the background level.

Table D. 13 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				23 h	95 h	143.2 h	191.2 h	191.4 h	263.2 h	287.7 h	335.3 h	335.4 h	23 h	95 h	143.2 h	191.2 h	191.4 h	263.2 h	287.7 h	335.3 h	335.4 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-1.3	24.3	0.8
52		Naphthalene	91-20-3	0.0									0.0											
53		p-Cymene	99-87-6																					
54		Styrene	100-42-5	0.2	0.1	0.0		0.0					0.4	0.3	0.0		0.0					-5.8	1.2E+09	0.7
55		Toluene	108-88-3		0.0			0.0						0.0			0.0							
56		2-Phenylpropene	98-83-9	0.1	0.1		0.1	0.1			0.1		0.2	0.2		0.2	0.3			0.1		-3.4	28609.2	0.2
57		Indene	95-13-6																					
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																					
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																					
60		Acetic acid, butyl ester	123-86-4																					
61		Acetic acid, ethyl ester	141-78-6																					
62		Methyl methacrylate	80-62-6																					
63		2-Ethylhexyl acetate	103-09-3																					
64		2-Methoxyethylacetate	110-49-6																					
65		Butyrolactone	96-48-0		0.1			0.0						0.2			0.0							
66		Texanol	25265-77-4	803.3	287.2	124.7	58.5	57.1	19.6	16.8	8.7	8.5	2007.5	717.7	311.5	146.2	142.8	48.9	41.9	21.8	21.2	-1.8	1.1E+06	0.9
67		TXIB	6846-50-0	2.0	2.2	1.4	0.9	0.9	0.5	0.5	0.3	0.4	5.1	5.4	3.5	2.4	2.3	1.2	1.2	0.8	0.9	-0.7	83.8	0.7
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1				4.8	5.1								11.9	12.7							
69		1,2-Propanediol	57-55-6	75.9	31.7	22.2	18.0	13.5	10.2	9.4	8.9	9.6	189.7	79.1	55.6	45.1	33.8	25.5	23.5	22.3	23.9	-0.8	3079.9	1.0
70		Diethylene glycol monoethyl ether	111-90-0																					
71		Propanol, 1-methoxy-2-	107-98-2																					
72		Ethanol, 2-butoxy-	111-76-2																					
73		Ethanol, 2-butoxyethoxy-	112-34-5																					
74		Ethanol, 2-ethoxy-	110-80-5																					
75		Ethanol, 2-methoxy-	109-86-4																					
76		Propanol, 2-methyl-2-	75-65-0	0.4	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	1.1	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.4	-0.4	3.6	0.8
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																					
78		1,2-Dichlorobenzene	95-50-1																					
79		1,2-Dichloroethane	107-06-2																					
80		1,2-Dichloropropane	78-87-5																					
81		1,4-Dichlorobenzene	106-46-7																					
82		Bromodichloromethane	75-27-4																					
83		Carbon tetrachloride	56-23-5																					
84		Chloroform	67-66-3																					
85		Dibromochloromethane	124-48-1																					
86		Dichloromethane	75-09-2																					
87		Tetrachloroethylene	127-18-4																					
88		Trichloroethylene	79-01-6																					
89		1,1,2,2-Tetrachloroethane	79-34-5																					
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																					
91		Cyclohexane	110-82-7																					
92		Cyclohexane, butyl-	1678-93-9																					
93		Cyclohexane, ethyl-	1678-91-7																					
94		Cyclohexane, propyl-	1678-92-8																					
95		Decahydronaphthalene	91-17-8																					
96	Terpenes	alpha-Pinene	80-56-8																					
97		alpha-Terpinene	99-86-5																					
98		beta-Pinene	127-91-3																					
99		gamma-Terpinene	99-85-4																					
100		3-Carene	13466-78-9																					
101		Camphene	79-92-5																					
102		Limonene	138-86-3																					

Table D. 13 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				23 h	95 h	143.2 h	191.2 h	191.4 h	263.2 h	287.7 h	335.3 h	335.4 h	23 h	95 h	143.2 h	191.2 h	191.4 h	263.2 h	287.7 h	335.3 h	335.4 h	m	b	R^2
103	Acids	Acetic acid	64-19-7	167.2	318.4	339.3	222.9	198.9	208.3	180.1	201.3	150.1	166.4	317.0	337.8	221.9	198.0	207.4	179.3	200.4	149.4	0.0	241.1	0.01
104		Isobutyric acid	79-31-2	2.3	1.6	1.4	1.4	1.3	1.5	1.1	1.0	1.2	2.3	1.6	1.4	1.4	1.3	1.4	1.1	1.0	1.2	-0.3	5.2	0.86
105		Butyric acid	107-92-6	1.0	1.1	1.2	1.1	1.0	1.1	1.0	0.9	1.0	1.0	1.1	1.2	1.1	1.0	1.1	1.0	0.9	1.0	0.0	1.2	0.10
106		Heptanoic acid	111-14-8																					
107		2-Ethylhexanoic acid	149-57-5																					
108		Hexanoic acid	142-62-1	6.1	3.9	4.0	3.5	3.3	3.1	2.7	2.6	2.6	6.1	3.9	3.9	3.5	3.3	3.1	2.7	2.5	2.6	-0.3	18.0	0.96
109		Pentanoic acid	109-52-4	1.4	0.9	0.9	0.9	0.9	0.7	0.6	0.7	0.7	1.4	0.9	0.9	0.9	0.9	0.7	0.6	0.6	0.7	-0.3	3.6	0.89
110		Octanoic acid	124-07-2																					
111	Other	Furan, 2-pentyl	3777-69-3	2.4	1.0	1.3	0.9	0.9	0.6	0.9	1.0	1.0	2.4	1.0	1.3	0.9	0.9	0.6	0.9	1.0	1.0	-0.4	6.6	0.66
112		2-Pyrrolidinone, 1-methyl-	872-50-4																					
113		1,4-Dioxane	123-91-1	0.1	0.3	0.3	0.4	0.3	0.2	0.4	0.3	0.4	0.1	0.3	0.3	0.4	0.3	0.2	0.4	0.3	0.4	0.3	0.0	0.46
114		Triethyl phosphate	78-40-0																					
115		n-Butyl ether	142-96-1																					
116		2-Butanone oxime	96-29-7																					
117		Triethylamine	121-44-8																					
A1	Abundant	1,3-Pentanediol, 2,2,4-trimethyl-	144-19-4	4.5	1.2	0.8	0.5	0.4	0.3	0.3	0.2	0.1	11.1	3.1	2.1	1.3	1.1	0.8	0.8	0.6	0.3	-1.2	609.1	0.9
A2		Unknown	NA1	15.6	1.2	0.6	0.4	0.4	0.4	0.3	0.2	0.2	38.9	2.9	1.5	1.0	1.0	0.9	0.7	0.5	0.4	-1.6	5460.7	1.0
A3		Ester	NA2	122.7	38.3	16.2	7.7	8.1	3.1	2.8	1.6	1.6	306.6	95.7	40.5	19.2	20.2	7.8	7.0	4.1	4.0	-1.7	1.1E+05	0.9
		TVOC	0-0-0	595.9	206.2	97.2	46.0	44.0	14.2	19.6	3.3	3.2	1489.1	515.2	242.8	115.0	110.0	35.5	49.0	8.3	8.0	-1.9	1.3E+06	0.8
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24.9 h	96.2 h	96.2 h	192.4 h	194.1 h	264.3 h	288.7 h	336.4 h	338.2 h	24.9 h	96.2 h	96.2 h	192.4 h	194.1 h	264.3 h	288.7 h	336.4 h	338.2 h	m	b	R^2
D1	DNPH	Formaldehyde	50-00-0	4.6	1.4	1.4	1.1	0.9	1.0	0.7	0.5	0.6	11.4	3.4	3.6	2.8	2.3	2.4	1.8	1.2	1.4	-0.8	126.0	0.9
D2		Acetaldehyde	75-07-0	0.6	0.2	0.2	0.1	0.1	0.2			0.1	1.4	0.6	0.4	0.3	0.2	0.6			0.3	-3.4	9.9E+05	0.3
D3		Propanal	123-38-6																					

Table D. 14 Chamber concentration and emission factor for "Cabinets: bathroom cabinet with stone countertop (test: Cab1)"

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})									Emission factor (μg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	96 h	144.0 h	192.8 h	193 h	264.9 h	288.0 h	336.1 h	336.4 h	24 h	96 h	144.0 h	192.8 h	193 h	264.9 h	288.0 h	336.1 h	336.4 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3	0.2	0.6	0.1	0.2	0.3	0.2	0.2	0.3	0.1	2.0	6.6	1.6	1.9	4.1	2.2	1.8	3.7	1.5	-0.1	3.5	0.0
2		1-Propanol	71-23-8																					
3		Hexanol, 2-ethyl-1-	104-76-7								0.0									0.0				
4		2-Propanol	67-63-0	0.1	0.1	0.0	0.1	0.2	0.3	0.1	0.4	0.2	0.9	1.2	0.2	1.8	2.2	3.0	1.2	4.4	2.4	0.5	0.1	0.2
5		Ethanol	64-17-5	1.2	1.8	0.5	1.2	1.0	1.5	1.6	1.9	1.7	14.0	21.3	5.4	13.8	11.7	17.6	18.6	21.9	19.7	0.1	7.9	0.1
6		Phenol	108-95-2																					
7	Aldehydes & Ketones	Methylethyl ketone	78-93-3		0.2	0.2	0.3	0.4	0.3	0.3	0.3	0.2		2.0	2.8	3.5	4.4	3.5	3.0	4.1	2.5	5.3	0.0	0.8
8		Acetone	67-64-1	2.3	1.6	0.2	2.3	3.2	5.6	2.0	5.3	2.1	27.3	18.6	2.0	26.7	37.2	66.4	23.2	62.9	24.9	0.3	6.0	0.0
9		Acetophenone	98-86-2																					
10		Cyclohexanone	108-94-1																					
11		Methylisobutyl ketone	108-10-1																					
12		Benzaldehyde	100-52-7								0.2									2.3				
13		Butanal	123-72-8																					
14		Decanal	112-31-2								0.7									7.9				
15		2-Decenal	3913-81-3																					
16		Furfural	98-01-1						0.2		0.0							2.1		0.1				
17		Heptanal	111-71-7																					
18		Hexanal	66-25-1	0.9	1.1	1.1	1.2	1.2	1.5	1.5	1.9	1.4	10.5	12.6	13.5	14.5	14.2	17.3	17.2	22.5	16.5	0.2	4.7	0.8
19		Nonanal	124-19-6								1.9	0.2								21.9	2.9			
20		2-Nonenal	18829-56-6																					
21		2-Octenal	2548-87-0																					
22		Pentanal	110-62-3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.7	0.6	4.3	4.3	4.2	5.2	4.2	6.3	5.3	8.0	6.8	0.2	1.9	0.5
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																					
24		Pentane, 3-methyl-	96-14-0																					
25		2,2,4-Trimethylpentane	540-84-1																					
26		2,4-Dimethylpentane	108-08-7																					
27		Decane	124-18-5																					
28		Dodecane	112-40-3																					
29		Heptane	142-82-5																					
30		Hexadecane	544-76-3																					
31		Hexane	110-54-3																					
32		Nonane	111-84-2																					
33		Octane	111-65-9																					
34		Pentadecane	629-62-9																					
35		Tetradecane	629-59-4																					
36		Tridecane	629-50-5																					
37		Undecane	1120-21-4																					
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2																					
39		Toluene, 2-ethyl-	611-14-3																					
40		Toluene, 3-ethyl-	620-14-4																					
41		Toluene, 4-ethyl-	622-96-8																					
42		Cyclohexene, 4-phenyl	4994-16-5																					
43		Benzene	71-43-2								0.4									4.6				
44		Benzene, 1,2,3-trimethyl-	526-73-8																					
45		Benzene, 1,2,4-trimethyl-	95-63-6																					
46		Benzene, 1,2-dimethyl-	95-47-6																					
47		Benzene, 1,3,5-trimethyl-	108-67-8																					
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3					0.1			0.1						0.6			1.4				
49		Benzene, isopropyl	98-82-8																					
50		Benzene, propyl-	103-65-1																					

Note: An empty cell means the compound was not detected or the chamber concentration was lower than the background level.

Table D. 14 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	96 h	144.0 h	192.8 h	193 h	264.9 h	288.0 h	336.1 h	336.4 h	24 h	96 h	144.0 h	192.8 h	193 h	264.9 h	288.0 h	336.1 h	336.4 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4								0.0									0.5				
52		Naphthalene	91-20-3																					
53		p-Cymene	99-87-6																					
54		Styrene	100-42-5	0.0			0.0	0.4	0.5	0.3	0.1		0.3			0.5	4.6	6.1	4.1	1.2		0.8	0.0	0.0
55		Toluene	108-88-3	0.0		0.0	0.8	0.8	0.0		0.5		0.0		0.1	9.2	8.9	0.3		5.5		0.1	0.0	0.0
56		2-Phenylpropene	98-83-9																					
57		Indene	95-13-6																					
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																					
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																					
60		Acetic acid, butyl ester	123-86-4																					
61		Acetic acid, ethyl ester	141-78-6																					
62		Methyl methacrylate	80-62-6																					
63		2-Ethylhexyl acetate	103-09-3																					
64		2-Methoxyethylacetate	110-49-6																					
65		Butyrolactone	96-48-0						0.1	1.2								1.1	14.3					
66		Texanol	25265-77-4																					
67		TXIB	6846-50-0																					
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1																					
69		1,2-Propanediol	57-55-6																					
70		Diethylene glycol monoethyl ether	111-90-0																					
71		Propanol, 1-methoxy-2-	107-98-2																					
72		Ethanol, 2-butoxy-	111-76-2																					
73		Ethanol, 2-butoxyethoxy-	112-34-5																					
74		Ethanol, 2-ethoxy-	110-80-5																					
75		Ethanol, 2-methoxy-	109-86-4																					
76		Propanol, 2-methyl-2-	75-65-0				0.3		1.8	0.5						3.0		20.6	5.8			3.2	0.0	0.1
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																					
78		1,2-Dichlorobenzene	95-50-1																					
79		1,2-Dichloroethane	107-06-2																					
80		1,2-Dichloropropane	78-87-5																					
81		1,4-Dichlorobenzene	106-46-7																					
82		Bromodichloromethane	75-27-4																					
83		Carbon tetrachloride	56-23-5																					
84		Chloroform	67-66-3	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.2	0.1	1.1	0.9	0.4	0.9	1.9	1.3	1.0	0.0	0.6
85		Dibromochloromethane	124-48-1																					
86		Dichloromethane	75-09-2	0.2	0.6	0.7	0.6	0.6	0.7	0.8	3.4	1.4	2.3	7.1	7.9	6.5	6.8	7.9	9.7	39.8	16.1	0.7	0.2	0.6
87		Tetrachloroethylene	127-18-4																					
88		Trichloroethylene	79-01-6			0.1	0.1	0.2	0.1	0.1	1.4	0.1			0.9	1.7	1.9	1.4	1.1	16.5	1.6	6.7	0.0	0.7
89		1,1,2,2-Tetrachloroethane	79-34-5																					
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																					
91		Cyclohexane	110-82-7																					
92		Cyclohexane, butyl-	1678-93-9																					
93		Cyclohexane, ethyl-	1678-91-7																					
94		Cyclohexane, propyl-	1678-92-8																					
95		Decahydronaphthalene	91-17-8																					
96	Terpenes	alpha-Pinene	80-56-8																					
97		alpha-Terpinene	99-86-5																					
98		beta-Pinene	127-91-3																					
99		gamma-Terpinene	99-85-4																					
100		3-Carene	13466-78-9																					
101		Camphene	79-92-5																					
102		Limonene	138-86-3																					

Table D. 14 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	96 h	144.0 h	192.8 h	193 h	264.9 h	288.0 h	336.1 h	336.4 h	24 h	96 h	144.0 h	192.8 h	193 h	264.9 h	288.0 h	336.1 h	336.4 h	m	b	R^2
103	Acids	Acetic acid	64-19-7				1.9	5.2	1.3		2.9					22.7	60.7	15.0		34.7		4.4	0.0	0.2
104		Isobutyric acid	79-31-2																					
105		Butyric acid	107-92-6																					
106		Heptanoic acid	111-14-8																					
107		2-Ethylhexanoic acid	149-57-5																					
108		Hexanoic acid	142-62-1	0.1	0.0								0.7	0.1										
109		Pentanoic acid	109-52-4																					
110		Octanoic acid	124-07-2																					
111	Other	Furan, 2-pentyl	3777-69-3																					
112		2-Pyrrolidinone, 1-methyl-	872-50-4																					
113		1,4-Dioxane	123-91-1	0.0		0.0	0.0	0.1					0.5		0.4	0.0	0.9					-4.3	1.3E+06	0.3
114		Triethyl phosphate	78-40-0																					
115		n-Butyl ether	142-96-1																					
116		2-Butanone oxime	96-29-7																					
117		Triethylamine	121-44-8																					
A1	Abundant	Unknown	NA2						0.1									1.6						
A2		Silanediol, dimethyl-	1066-42-8	0.1	0.1						0.1		1.1	1.1						0.9		-4.5	1.2E+06	0.3
A3		Cyclotrisiloxane, hexamethyl-	541-05-9	0.5			0.1	0.4	3.7	2.3	0.8		5.6			1.3	5.1	44.1	26.9	9.1		0.4	0.0	0.0
A4		Cyclotetrasiloxane, octamethyl-	556-67-2	0.6	0.2	0.9	0.2	0.0	7.8	2.7	0.1		6.7	1.8	10.5	1.8	0.5	91.8	31.7	1.0		-1.8	9397.8	0.1
A5		Benzaldehyde, 2,5-bis[(trimethylsilyl)ox	33617-38-8	3.4	0.2	0.1	0.4	0.4	0.4	0.2	1.1	0.0	39.5	2.4	1.2	4.6	4.2	4.9	2.0	12.9	0.4	-0.9	339.1	0.3
A6		Ester	NA1																					
		TVOC	0-0-0	4.5				0.9	12.2	3.1	10.0		53.1				10.8	143.8	36.8	118.1		-0.3	0.1	0.0
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				25.3 h	97.1 h	145.0 h	194.4 h	197.1 h	265.0 h	289.0 h	337.4 h	339.1 h	25.3 h	97.1 h	145.0 h	194.4 h	197.1 h	265.0 h	289.0 h	337.4 h	339.1 h	m	b	R^2
D1	DNPH	Formaldehyde	50-00-0	2.3	3.7	6.7	2.8	3.1	3.5	4.9	7.2	7.4	27.6	43.6	79.5	33.0	36.5	41.5	57.8	85.3	86.6	0.3	9.4	0.4
D2		Acetaldehyde	75-07-0	0.5	0.6	1.4	0.2	0.2	0.6	0.6	1.5	1.4	5.3	7.4	15.9	2.6	2.4	7.3	7.6	17.1	17.1	0.2	2.1	0.1
D3		Propanal	123-38-6	0.4	0.2	0.2							5.1	2.1	2.8							-7.4	4.0E+12	0.7

Table D. 15 Chamber concentration and emission factor for "Cabinets: kitchen wall and base, style 1 (Test: Cab2)"

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})									Emission factor (μg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	95 h	143.9 h	191.9 h	192.1 h	264.9 h	288.8 h	336.8 h	337.1 h	24 h	95 h	143.9 h	191.9 h	192.1 h	264.9 h	288.8 h	336.8 h	337.1 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3	4.2	5.2	5.2	5.4	5.2	5.5	5.3	5.1	4.8	25.5	31.8	31.9	33.2	31.5	33.2	32.5	31.0	29.4	0.1	21.7	0.5
2		1-Propanol	71-23-8																					
3		Hexanol, 2-ethyl-1-	104-76-7																					
4		2-Propanol	67-63-0	0.5	0.2	0.6	0.3	0.4	0.4	0.3	0.6	0.5	2.8	1.1	3.5	1.9	2.2	2.6	1.9	3.8	2.7	0.1	1.7	0.0
5		Ethanol	64-17-5	1.1	1.4	3.0	2.2	2.1	0.5	0.5	0.8		6.7	8.3	18.1	13.7	12.9	2.9	2.9	4.7		-2.2	77414.0	0.1
6		Phenol	108-95-2																					
7	Aldehydes & ketones	Methylethyl ketone	78-93-3																					
8		Acetone	67-64-1																					
9		Acetophenone	98-86-2																					
10		Cyclohexanone	108-94-1																					
11		Methylisobutyl ketone	108-10-1																					
12		Benzaldehyde	100-52-7																					
13		Butanal	123-72-8	0.3	0.0	0.0	0.0	0.2	0.1	0.1	0.3	0.1	1.8	0.1	0.1	0.1	1.3	0.6	0.6	1.6	0.5	-0.1	0.6	0.0
14		Decanal	112-31-2																					
15		2-Decenal	3913-81-3																					
16		Furfural	98-01-1																					
17		Heptanal	111-71-7																					
18		Hexanal	66-25-1	2.2	2.8	3.3	3.0	2.7	3.6	3.5	3.8	3.7	13.2	16.8	20.2	18.3	16.4	21.6	21.6	23.4	22.6	0.2	6.8	0.8
19		Nonanal	124-19-6																					
20		2-Nonenal	18829-56-6																					
21		2-Octenal	2548-87-0																					
22		Pentanal	110-62-3	0.9	1.0	1.1	1.2	1.0	1.3	1.3	1.4	1.4	5.6	6.1	6.6	7.5	6.3	8.1	8.0	8.5	8.8	0.2	3.0	0.8
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																					
24		Pentane, 3-methyl-	96-14-0																					
25		2,2,4-Trimethylpentane	540-84-1																					
26		2,4-Dimethylpentane	108-08-7																					
27		Decane	124-18-5																					
28		Dodecane	112-40-3																					
29		Heptane	142-82-5																					
30		Hexadecane	544-76-3																					
31		Hexane	110-54-3																					
32		Nonane	111-84-2																					
33		Octane	111-65-9																					
34		Pentadecane	629-62-9																					
35		Tetradecane	629-59-4																					
36		Tridecane	629-50-5																					
37		Undecane	1120-21-4																					
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2																					
39		Toluene, 2-ethyl-	611-14-3																					
40		Toluene, 3-ethyl-	620-14-4																					
41		Toluene, 4-ethyl-	622-96-8																					
42		Cyclohexene, 4-phenyl	4994-16-5																					
43		Benzene	71-43-2				0.2									1.4								
44		Benzene, 1,2,3-trimethyl-	526-73-8																					
45		Benzene, 1,2,4-trimethyl-	95-63-6																					
46		Benzene, 1,2-dimethyl-	95-47-6																					
47		Benzene, 1,3,5-trimethyl-	108-67-8	0.0	0.0								0.0	0.0										
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3																					
49		Benzene, isopropyl	98-82-8																					
50		Benzene, propyl-	103-65-1																					

Note: An empty cell means the compound was not detected or the chamber concentration was lower than the background level.

Table D. 15 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	95 h	143.9 h	191.9 h	192.1 h	264.9 h	288.8 h	336.8 h	337.1 h	24 h	95 h	143.9 h	191.9 h	192.1 h	264.9 h	288.8 h	336.8 h	337.1 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4																					
52		Naphthalene	91-20-3																					
53		p-Cymene	99-87-6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	-0.4	0.9	0.7
54		Styrene	100-42-5																					
55		Toluene	108-88-3																					
56		2-Phenylpropene	98-83-9																					
57		Indene	95-13-6																					
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																					
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																					
60		Acetic acid, butyl ester	123-86-4	0.8	1.4	1.5	1.6	1.5	1.5	1.5	1.4	1.4	5.0	8.6	9.3	9.5	9.1	9.2	8.9	8.4	8.3	0.2	3.1	0.6
61		Acetic acid, ethyl ester	141-78-6																					
62		Methyl methacrylate	80-62-6																					
63		2-Ethylhexyl acetate	103-09-3																					
64		2-Methoxyethylacetate	110-49-6																					
65		Butyrolactone	96-48-0																					
66		Texanol	25265-77-4																					
67		TXIB	6846-50-0																					
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1																					
69		1,2-Propanediol	57-55-6																					
70		Diethylene glycol monoethyl ether	111-90-0																					
71		Propanol, 1-methoxy-2-	107-98-2	0.4	0.5	0.6	0.5	0.5	0.6	0.5	0.6	0.5	2.4	3.1	3.4	3.1	3.0	3.5	3.3	3.6	3.0	0.1	1.7	0.6
72		Ethanol, 2-butoxy-	111-76-2																					
73		Ethanol, 2-butoxyethoxy-	112-34-5																					
74		Ethanol, 2-ethoxy-	110-80-5																					
75		Ethanol, 2-methoxy-	109-86-4																					
76		Propanol, 2-methyl-2-	75-65-0																					
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																					
78		1,2-Dichlorobenzene	95-50-1																					
79		1,2-Dichloroethane	107-06-2																					
80		1,2-Dichloropropane	78-87-5																					
81		1,4-Dichlorobenzene	106-46-7																					
82		Bromodichloromethane	75-27-4																					
83		Carbon tetrachloride	56-23-5																					
84		Chloroform	67-66-3								0.0	0.0								0.2	0.0			
85		Dibromochloromethane	124-48-1																					
86		Dichloromethane	75-09-2																					
87		Tetrachloroethylene	127-18-4																					
88		Trichloroethylene	79-01-6																					
89		1,1,2,2-Tetrachloroethane	79-34-5																					
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																					
91		Cyclohexane	110-82-7																					
92		Cyclohexane, butyl-	1678-93-9																					
93		Cyclohexane, ethyl-	1678-91-7																					
94		Cyclohexane, propyl-	1678-92-8																					
95		Decahydronaphthalene	91-17-8																					
96	Terpenes	alpha-Pinene	80-56-8	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.5	0.2	0.2	0.2	0.0	0.1	0.1	-1.1	39.2	0.6
97		alpha-Terpinene	99-86-5																					
98		beta-Pinene	127-91-3	0.0	0.0	0.0	0.0	0.0	0.0				0.3	0.1	0.1	0.0	0.0	0.0				-4.5	1.5E+07	0.5
99		gamma-Terpinene	99-85-4																					
100		3-Carene	13466-78-9																					
101		Camphene	79-92-5																					
102		Limonene	138-86-3																					

Table D. 15 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	95 h	143.9 h	191.9 h	192.1 h	264.9 h	288.8 h	336.8 h	337.1 h	24 h	95 h	143.9 h	191.9 h	192.1 h	264.9 h	288.8 h	336.8 h	337.1 h	m	b	R^2
103	Acids	Acetic acid	64-19-7		7.4		2.4		5.6	28.2	55.5	2.5		44.9		14.4		34.4	171.7	337.8	15.1	6.3	0.0	0.4
104		Isobutyric acid	79-31-2																					
105		Butyric acid	107-92-6																					
106		Heptanoic acid	111-14-8																					
107		2-Ethylhexanoic acid	149-57-5																					
108		Hexanoic acid	142-62-1		0.0	0.0	0.0							0.3	0.2	0.1						-1.3	0.0	0.0
109		Pentanoic acid	109-52-4	0.0	0.0	0.0	0.0						0.2	0.2	0.1	0.2						-5.4	2.5E+08	0.5
110		Octanoic acid	124-07-2																					
111	Other	Furan, 2-pentyl	3777-69-3																					
112		2-Pyrrolidinone, 1-methyl-	872-50-4																					
113		1,4-Dioxane	123-91-1																					
114		Triethyl phosphate	78-40-0																					
115		n-Butyl ether	142-96-1																					
116		2-Butanone oxime	96-29-7																					
117		Triethylamine	121-44-8																					
A1	Abundant	1-Propanol, 2-methyl-	78-83-1	1.4	1.8	1.7	1.7	1.7	1.9	1.9	1.8	1.7	8.7	10.8	10.3	10.5	10.3	11.7	11.8	11.1	10.5	0.1	6.7	0.7
A2		Unknown	NA1	1.2									7.2											
A3		Cyclotrisiloxane, hexamethyl-	541-05-9	5.0	1.2	0.8	0.7	1.1	0.7	1.6	1.5	0.7	30.4	7.5	4.6	4.5	6.6	4.3	9.7	9.3	4.1	-0.6	122.7	0.5
A4		Cyclotetrasiloxane, octamethyl-	556-67-2	0.8	0.1		0.1	0.1	0.0	0.1	0.1		5.1	0.7		0.4	0.5	0.1	0.6	0.6		-2.2	2620.7	0.1
		TVOC	0-0-0																					
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				25.0 h	96.9 h	144.9 h	193.1 h	194.8 h	265.9 h	289.9 h	338.1 h	339.8 h	25.0 h	96.9 h	144.9 h	193.1 h	194.8 h	265.9 h	289.9 h	338.1 h	339.8 h	m	b	R^2
D1	DNPH	Formaldehyde	50-00-0	10.9	11.3	14.7	11.6	13.1	11.6	13.4	11.3	11.5	66.5	68.7	89.8	70.8	79.5	70.5	81.5	68.8	70.0	0.0	63.4	0.1
D2		Acetaldehyde	75-07-0	1.2	1.2	2.1	1.3	1.3	1.2	1.4	1.1	1.2	7.4	7.4	12.5	7.6	7.9	7.6	8.3	6.9	7.6	0.0	8.3	0.0
D3		Propanal	123-38-6	0.1	0.2	0.1	0.1	0.0	0.2	0.1	0.1	0.0	0.6	1.1	0.6	0.6	0.2	1.0	0.4	0.6	0.0	-0.4	4.1	0.1

Table D. 16 Chamber concentration and emission factor for "Cabinets: kitchen wall and base, style 2 (test: Cab3)"

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})									Emission factor (μg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	96 h	144.1 h	192.0 h	192.1 h	263.9 h	288.0 h	336.0 h	336.2 h	24 h	96 h	144.1 h	192.0 h	192.1 h	263.9 h	288.0 h	336.0 h	336.2 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3																					
2		1-Propanol	71-23-8																					
3		Hexanol, 2-ethyl-1-	104-76-7	0.2	0.1								1.1	0.6										
4		2-Propanol	67-63-0	0.3	0.1	0.2	0.3	0.1	0.0	0.1	0.3	0.3	1.7	0.8	1.5	1.6	0.7	0.1	0.9	1.8	2.0	-0.2	3.2	0.04
5		Ethanol	64-17-5		0.5	0.6	0.4				1.6	1.9		3.0	3.7	2.8				10.6	12.0	2.5	1.6E-08	0.06
6		Phenol	108-95-2	0.1	0.1		0.0	0.1					0.6	0.8		0.2	0.3					-5.3	2.3E+08	0.43
7	Aldehydes & ketones	Methylethyl ketone	78-93-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.2	0.2	0.2	0.1	0.2	0.3	0.5	0.2	0.1	0.08
8		Acetone	67-64-1	7.0	2.5	4.9	4.6	3.7	0.8	4.2	4.5	4.8	44.7	16.1	31.4	29.7	23.7	5.3	26.8	29.2	31.0	-0.2	77.3	0.10
9		Acetophenone	98-86-2	0.0	0.3								0.2	1.6										
10		Cyclohexanone	108-94-1																					
11		Methylisobutyl ketone	108-10-1																					
12		Benzaldehyde	100-52-7	0.3	0.9		0.1	0.2					1.6	5.7		1.0	1.3					-5.8	5.9E+09	0.41
13		Butanal	123-72-8																					
14		Decanal	112-31-2																					
15		2-Decenal	3913-81-3																					
16		Furfural	98-01-1	0.4	0.5	0.3	0.3	0.5	0.2	0.3	0.2	0.3	2.5	3.2	1.9	1.9	3.1	1.6	1.7	1.6	1.8	-0.2	5.5	0.35
17		Heptanal	111-71-7																					
18		Hexanal	66-25-1	1.7	1.9	2.2	2.4	2.6	2.1	2.5	2.6	2.4	10.9	11.9	13.8	15.6	16.6	13.4	15.9	16.8	15.2	0.1	6.7	0.69
19		Nonanal	124-19-6	0.5	0.4	0.1	0.3	0.1	0.1	0.1	0.1	0.1	3.3	2.7	0.5	2.2	0.5	0.3	0.9	0.8	1.0	-0.6	24.0	0.42
20		2-Nonenal	18829-56-6																					
21		2-Octenal	2548-87-0																					
22		Pentanal	110-62-3	0.4	0.5	0.6	0.7	0.8	0.6	0.7	0.8	0.8	2.6	3.0	3.8	4.5	4.9	3.7	4.5	4.9	4.9	0.2	1.2	0.76
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																					
24		Pentane, 3-methyl-	96-14-0																					
25		2,2,4-Trimethylpentane	540-84-1																					
26		2,4-Dimethylpentane	108-08-7																					
27		Decane	124-18-5																					
28		Dodecane	112-40-3				0.1									0.7								
29		Heptane	142-82-5																					
30		Hexadecane	544-76-3																					
31		Hexane	110-54-3																					
32		Nonane	111-84-2																					
33		Octane	111-65-9																					
34		Pentadecane	629-62-9																					
35		Tetradecane	629-59-4	0.1	0.1								0.8	0.6										
36		Tridecane	629-50-5																					
37		Undecane	1120-21-4																					
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2																					
39		Toluene, 2-ethyl-	611-14-3																					
40		Toluene, 3-ethyl-	620-14-4																					
41		Toluene, 4-ethyl-	622-96-8																					
42		Cyclohexene, 4-phenyl	4994-16-5																					
43		Benzene	71-43-2				0.6	0.7				0.5				3.7	4.4				3.2	2.6	0.0	0.08
44		Benzene, 1,2,3-trimethyl-	526-73-8																					
45		Benzene, 1,2,4-trimethyl-	95-63-6																					
46		Benzene, 1,2-dimethyl-	95-47-6																					
47		Benzene, 1,3,5-trimethyl-	108-67-8																					
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.0	0.3	0.4	0.1	0.1	0.03
49		Benzene, isopropyl	98-82-8																					
50		Benzene, propyl-	103-65-1																					

Note: An empty cell means the compound was not detected or the chamber concentration was lower than the background level.

Table D. 16 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	96 h	144.1 h	192.0 h	192.1 h	263.9 h	288.0 h	336.0 h	336.2 h	24 h	96 h	144.1 h	192.0 h	192.1 h	263.9 h	288.0 h	336.0 h	336.2 h	m	b	R^2
51		Ethylbenzene	100-41-4																					
52	Aromatic HC	Naphthalene	91-20-3	0.0	0.0		0.0			0.0			0.2	0.2		0.1			0.1			-4.0	1.6E+05	0.29
53		p-Cymene	99-87-6																					
54		Styrene	100-42-5	0.0									0.2											
55		Toluene	108-88-3	0.0	0.1	0.0	0.0	0.0			0.1	0.1	0.3	0.8	0.1	0.3	0.1			0.4	0.6	-2.2	1097.2	0.11
56		2-Phenylpropene	98-83-9																					
57		Indene	95-13-6																					
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																					
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																					
60		Acetic acid, butyl ester	123-86-4																					
61		Acetic acid, ethyl ester	141-78-6																					
62		Methyl methacrylate	80-62-6																					
63		2-Ethylhexyl acetate	103-09-3																					
64		2-Methoxyethylacetate	110-49-6																					
65		Butyrolactone	96-48-0																					
66		Texanol	25265-77-4																					
67		TXIB	6846-50-0	0.7	1.0	0.3	0.6	0.1	0.3	0.1	0.2	0.0	4.4	6.3	2.2	3.7	0.3	1.9	0.4	1.6	0.2	-0.9	123.1	0.37
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1																					
69		1,2-Propanediol	57-55-6	2.8									17.9											
70		Diethylene glycol monoethyl ether	111-90-0																					
71		Propanol, 1-methoxy-2-	107-98-2																					
72		Ethanol, 2-butoxy-	111-76-2	0.3									2.1											
73		Ethanol, 2-butoxyethoxy-	112-34-5																					
74		Ethanol, 2-ethoxy-	110-80-5																					
75		Ethanol, 2-methoxy-	109-86-4																					
76		Propanol, 2-methyl-2-	75-65-0																					
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																					
78		1,2-Dichlorobenzene	95-50-1																					
79		1,2-Dichloroethane	107-06-2																					
80		1,2-Dichloropropane	78-87-5																					
81		1,4-Dichlorobenzene	106-46-7																					
82		Bromodichloromethane	75-27-4																					
83		Carbon tetrachloride	56-23-5																					
84		Chloroform	67-66-3	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.2	0.4	0.2	0.3	0.5	0.6	0.1	0.6	0.6	1.0	0.2	0.1	0.05
85		Dibromochloromethane	124-48-1																					
86		Dichloromethane	75-09-2		0.0	0.1	0.0	0.0		0.0	0.2	0.3		0.1	0.4	0.2	0.2		0.2	1.3	1.7	3.8	0.0	0.31
87		Tetrachloroethylene	127-18-4																					
88		Trichloroethylene	79-01-6	0.2	0.1	0.0	0.1	0.1		0.1	0.1	0.2	1.1	0.8	0.1	0.6	0.8		0.6	0.6	1.1	-1.2	49.4	0.05
89		1,1,2,2-Tetrachloroethane	79-34-5																					
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																					
91		Cyclohexane	110-82-7																					
92		Cyclohexane, butyl-	1678-93-9																					
93		Cyclohexane, ethyl-	1678-91-7																					
94		Cyclohexane, propyl-	1678-92-8																					
95		Decahydronaphthalene	91-17-8																					
96	Terpenes	alpha-Pinene	80-56-8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.9	0.8	0.7	0.8	0.9	0.7	0.7	0.7	0.7	-0.1	1.1	0.41
97		alpha-Terpinene	99-86-5																					
98		beta-Pinene	127-91-3																					
99		gamma-Terpinene	99-85-4																					
100		3-Carene	13466-78-9																					
101		Camphene	79-92-5																					
102		Limonene	138-86-3																					

Table D. 16 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24 h	96 h	144.1 h	192.0 h	192.1 h	263.9 h	288.0 h	336.0 h	336.2 h	24 h	96 h	144.1 h	192.0 h	192.1 h	263.9 h	288.0 h	336.0 h	336.2 h	m	b	R^2
103	Acids	Acetic acid	64-19-7	8.9	2.3	15.0	5.6	6.2	0.9	8.2	3.5	9.4	57.0	15.0	96.3	36.3	40.1	5.9	52.9	22.4	60.2	-0.2	92.7	0.04
104		Isobutyric acid	79-31-2	0.7									4.7											
105		Butyric acid	107-92-6	0.8									5.0											
106		Heptanoic acid	111-14-8																					
107		2-Ethylhexanoic acid	149-57-5																					
108		Hexanoic acid	142-62-1	0.9	0.2	0.1	0.1	0.1	0.1				5.7	1.4	0.8	0.7	0.8	0.6				-5.4	1.5E+10	0.42
109		Pentanoic acid	109-52-4	0.4	0.1								2.4	0.6										
110		Octanoic acid	124-07-2																					
111	Other	Furan, 2-pentyl	3777-69-3																					
112		2-Pyrrolidinone, 1-methyl-	872-50-4																					
113		1,4-Dioxane	123-91-1		0.2									1.2										
114		Triethyl phosphate	78-40-0																					
115		n-Butyl ether	142-96-1																					
116		2-Butanone oxime	96-29-7																					
117		Triethylamine	121-44-8																					
A1	Abundant	Cyclotrisiloxane, hexamethyl-	541-05-9	1.2	0.3	0.5	0.5	0.6		0.1	0.0	0.9	7.7	2.2	3.1	3.0	3.6		0.5	0.3	5.5	-1.9	6577.7	0.10
A2		Cyclotetrasiloxane, octamethyl-	556-67-2	0.2	0.1	0.1	0.3	0.1					1.4	0.7	0.6	1.8	0.5					-5.9	3.3E+10	0.47
A3		Ester1	NA1	7.5	1.2	0.2	0.3	0.1	0.1	0.1	0.2	0.7	48.2	7.9	1.1	1.8	0.7	0.7	0.8	1.2	4.4	-1.4	2841.9	0.67
A4		Benzothiazole	95-16-9	1.0	0.1								6.5	0.5										
A5		Ester2	NA2	0.8	0.1								4.9	0.5										
		TVOC	0-0-0	25.0	7.9	5.5	4.1	5.3		0.9	0.6	5.6	160.8	51.1	35.1	26.7	33.8		5.6	3.9	36.3	-2.4	945347.7	0.12
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				25.1 h	97.1 h	145.1 h	192.9 h	194.8 h	265 h	288.8 h	337.2 h	339.0 h	25.1 h	97.1 h	145.1 h	192.9 h	194.8 h	265 h	288.8 h	337.2 h	339.0 h	m	b	R^2
D1	DNPH	Formaldehyde	50-00-0	4.3	5.2	5.6	4.3	5.5	6.1	7.1	8.8	9.5	27.6	33.2	35.9	27.9	35.6	39.2	45.5	56.7	61.3	0.2	10.8	0.53
D2		Acetaldehyde	75-07-0	0.6	0.6	0.6	0.7	0.4	1.0	1.2	1.5	1.8	3.8	4.0	4.0	4.3	2.8	6.5	7.9	9.6	11.4	0.4	0.8	0.39
D3		Propanal	123-38-6	1.1	1.0	0.9	0.9	0.9	0.8	0.9	0.7	0.8	6.9	6.1	5.6	5.9	5.9	5.1	5.5	4.6	5.4	-0.1	10.2	0.72

Table D. 17 Chamber concentration and emission factor for "Cabinet: bathroom cabinet with laminate countertop (test: Cab4)"

#	G	VOC	CAS #	Chamber concentration (μg m^{-3})									Emission factor (μg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24.0 h	96.0 h	144.0 h	192.0 h	192.2 h	264.0 h	288.0 h	336.1 h	336.3 h	24.0 h	96.0 h	144.0 h	192.0 h	192.2 h	264.0 h	288.0 h	336.1 h	336.3 h	m	b	R^2
1	Alcohols	1-Butanol	71-36-3						0.2									2.0						
2		1-Propanol	71-23-8																					
3		Hexanol, 2-ethyl-1-	104-76-7		0.1		0.1	0.2						0.8		0.6	2.4					-0.7	0.0	0.0
4		2-Propanol	67-63-0	0.3	0.3	0.3	0.4	0.6	0.3	0.3	0.4	0.3	3.2	3.6	3.6	4.6	6.5	3.6	2.9	4.3	3.3	0.0	3.0	0.0
5		Ethanol	64-17-5																					
6		Phenol	108-95-2			0.0									0.2									
7	Aldehydes & Ketones	Methylethyl ketone	78-93-3	0.1	0.0	0.1	0.1	2.7	0.1	0.0	0.0	0.1	1.4	0.2	0.7	1.1	30.3	1.0	0.4	0.6	0.6	-0.1	1.3	0.0
8		Acetone	67-64-1	2.1	3.1	4.3	6.1	6.6	5.3	3.3	4.9	3.1	23.3	35.1	47.8	68.3	74.2	59.4	36.9	54.7	34.6	0.3	11.5	0.4
9		Acetophenone	98-86-2			0.1				0.6					1.1				6.4					
10		Cyclohexanone	108-94-1																					
11		Methylisobutyl ketone	108-10-1																					
12		Benzaldehyde	100-52-7	0.1		0.4		0.9		0.4			1.3		4.4		9.9		4.6			-3.4	3.4E+04	0.1
13		Butanal	123-72-8																					
14		Decanal	112-31-2																					
15		2-Decenal	3913-81-3																					
16		Furfural	98-01-1	0.0	0.0	0.1	0.4	0.6	0.2	0.1	0.1	0.2	0.2	0.4	0.7	4.1	6.2	2.0	1.0	1.2	2.1	0.9	0.0	0.5
17		Heptanal	111-71-7																					
18		Hexanal	66-25-1	1.3	1.8	2.2	2.6	2.8	2.6	2.4	2.6	2.5	14.8	20.4	25.1	28.9	31.5	29.5	26.7	28.5	27.6	0.3	6.7	0.8
19		Nonanal	124-19-6					1.1									12.0							
20		2-Nonenal	18829-56-6																					
21		2-Octenal	2548-87-0																					
22		Pentanal	110-62-3	0.5	0.6	0.5	0.8	0.7	0.8	0.7	0.8	0.9	5.0	6.3	6.1	9.1	8.2	9.0	8.2	8.8	9.7	0.2	2.2	0.8
23	Aliphatic Hydrocarbons	Pentane, 2-methyl-	107-83-5																					
24		Pentane, 3-methyl-	96-14-0																					
25		2,2,4-Trimethylpentane	540-84-1																					
26		2,4-Dimethylpentane	108-08-7																					
27		Decane	124-18-5																					
28		Dodecane	112-40-3																					
29		Heptane	142-82-5																					
30		Hexadecane	544-76-3																					
31		Hexane	110-54-3																					
32		Nonane	111-84-2																					
33		Octane	111-65-9					0.2									1.8							
34		Pentadecane	629-62-9																					
35		Tetradecane	629-59-4																					
36		Tridecane	629-50-5																					
37		Undecane	1120-21-4																					
38	Aromatic Hydrocarbons	Benzene, 1,2,4,5-tetramethyl-	95-93-2																					
39		Toluene, 2-ethyl-	611-14-3																					
40		Toluene, 3-ethyl-	620-14-4					0.0									0.3							
41		Toluene, 4-ethyl-	622-96-8																					
42		Cyclohexene, 4-phenyl	4994-16-5																					
43		Benzene	71-43-2	0.0	0.0	0.7		0.1					0.5	0.2	7.6		0.9					-5.9	5.4E+09	0.5
44		Benzene, 1,2,3-trimethyl-	526-73-8																					
45		Benzene, 1,2,4-trimethyl-	95-63-6																					
46		Benzene, 1,2-dimethyl-	95-47-6					0.2									1.8							
47		Benzene, 1,3,5-trimethyl-	108-67-8																					
48		Benzene, 1,3(4)-dimethyl-	108-38-3, 106-42-3	0.0				0.8	0.0	0.0	0.0	0.0	0.2				9.2	0.1	0.0	0.0	0.0	0.7	0.0	0.0
49		Benzene, isopropyl	98-82-8																					
50		Benzene, propyl-	103-65-1																					

Note: An empty cell means the compound was not detected or the chamber concentration was lower than the background level.

Table D. 17 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24.0 h	96.0 h	144.0 h	192.0 h	192.2 h	264.0 h	288.0 h	336.1 h	336.3 h	24.0 h	96.0 h	144.0 h	192.0 h	192.2 h	264.0 h	288.0 h	336.1 h	336.3 h	m	b	R^2
51	Aromatic HC	Ethylbenzene	100-41-4	0.0	0.0		0.0	0.2	0.0				0.0	0.0		0.0	2.4	0.1				-3.1	4469.9	0.2
52		Naphthalene	91-20-3																					
53		p-Cymene	99-87-6																					
54		Styrene	100-42-5																					
55		Toluene	108-88-3	0.1	0.0		0.0	8.6	0.0	0.0	0.0		1.1	0.2		0.4	96.3	0.3	0.3	0.3		-1.5	89.3	0.0
56		2-Phenylpropene	98-83-9																					
57		Indene	95-13-6																					
58	Esters	Acetic acid, 1-methylethyl ester	108-21-4																					
59		Acetic acid, 2-ethoxyethyl ester	111-15-9																					
60		Acetic acid, butyl ester	123-86-4																					
61		Acetic acid, ethyl ester	141-78-6																					
62		Methyl methacrylate	80-62-6																					
63		2-Ethylhexyl acetate	103-09-3																					
64		2-Methoxyethylacetate	110-49-6																					
65		Butyrolactone	96-48-0																					
66		Texanol	25265-77-4																					
67		TXIB	6846-50-0			0.3	0.3	0.1	0.5	0.1	0.2	0.0			3.3	3.8	1.1	5.7	1.3	2.6	0.4	6.3	0.0	0.7
68	Glycols, GlycoEthers	1,2-Ethanediol	107-21-1																					
69		1,2-Propanediol	57-55-6																					
70		Diethylene glycol monoethyl ether	111-90-0																					
71		Propanol, 1-methoxy-2-	107-98-2																					
72		Ethanol, 2-butoxy-	111-76-2																					
73		Ethanol, 2-butoxyethoxy-	112-34-5																					
74		Ethanol, 2-ethoxy-	110-80-5																					
75		Ethanol, 2-methoxy-	109-86-4																					
76		Propanol, 2-methyl-2-	75-65-0	0.2	0.5	0.8	0.7		1.7				2.2	5.2	8.9	7.9		19.0				-5.3	3.7E+09	0.3
77	Halo Carbons	1,1,1-Trichloroethane	71-55-6																					
78		1,2-Dichlorobenzene	95-50-1																					
79		1,2-Dichloroethane	107-06-2																					
80		1,2-Dichloropropane	78-87-5																					
81		1,4-Dichlorobenzene	106-46-7																					
82		Bromodichloromethane	75-27-4																					
83		Carbon tetrachloride	56-23-5																					
84		Chloroform	67-66-3	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.5	0.5	0.8	0.9	0.7	0.7	0.6	0.4	0.7	0.0	0.7
85		Dibromochloromethane	124-48-1																					
86		Dichloromethane	75-09-2	0.1	0.0		0.1	1.7					0.8	0.0		0.9	18.6					-5.0	6.5E+07	0.3
87		Tetrachloroethylene	127-18-4																					
88		Trichloroethylene	79-01-6	0.1	0.0	0.0	0.0	2.9	0.1	0.0	0.1	0.1	1.1	0.5	0.3	0.3	32.9	1.3	0.2	1.5	0.8	0.0	0.8	0.0
89		1,1,2,2-Tetrachloroethane	79-34-5																					
90	Cyclo Alkanes	Methylcyclohexane	108-87-2																					
91		Cyclohexane	110-82-7																					
92		Cyclohexane, butyl-	1678-93-9																					
93		Cyclohexane, ethyl-	1678-91-7																					
94		Cyclohexane, propyl-	1678-92-8																					
95		Decahydronaphthalene	91-17-8																					
96	Terpenes	alpha-Pinene	80-56-8	0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1	1.1	1.2	1.0	1.2		1.1	1.0	1.1	1.1	-0.4	1.5	0.0
97		alpha-Terpinene	99-86-5																					
98		beta-Pinene	127-91-3																					
99		gamma-Terpinene	99-85-4																					
100		3-Carene	13466-78-9																					
101		Camphene	79-92-5																					
102		Limonene	138-86-3																					

Table D. 17 (continued)

#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				24.0 h	96.0 h	144.0 h	192.0 h	192.2 h	264.0 h	288.0 h	336.1 h	336.3 h	24.0 h	96.0 h	144.0 h	192.0 h	192.2 h	264.0 h	288.0 h	336.1 h	336.3 h	m	b	R^2
103	Acids	Acetic acid	64-19-7	3.4	11.0	8.5	10.3	11.5	9.7	6.4	7.8	10.9	38.0	123.3	95.2	114.9	128.3	109.0	71.2	87.3	121.7	0.3	19.4	0.4
104		Isobutyric acid	79-31-2																					
105		Butyric acid	107-92-6																					
106		Heptanoic acid	111-14-8																					
107		2-Ethylhexanoic acid	149-57-5																					
108		Hexanoic acid	142-62-1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	1.4	1.5	1.8	2.0	2.3	1.4	1.6	1.4	1.6	0.0	1.4	0.0
109		Pentanoic acid	109-52-4					0.1									1.2							
110		Octanoic acid	124-07-2																					
111	Other	Furan, 2-pentyl	3777-69-3																					
112		2-Pyrrolidinone, 1-methyl-	872-50-4																					
113		1,4-Dioxane	123-91-1	0.0									0.1											
114		Triethyl phosphate	78-40-0																					
115		n-Butyl ether	142-96-1																					
116		2-Butanone oxime	96-29-7																					
117		Triethylamine	121-44-8																					
A1	Abundant	Cyclotrisiloxane, hexamethyl-	541-05-9			0.5	3.4	0.2	0.4	0.1	0.1				5.3	37.9	2.8	4.9	1.0	0.7		4.6	0.0	0.3
A2		Cyclotetrasiloxane, octamethyl-	556-67-2		0.0	0.2	0.5	0.1	0.2					0.2	1.7	6.1	1.5	2.8				0.3	4.7E-04	0.0
		TVOC	0-0-0					19.2									215.4							
#	G	VOC	CAS #	Chamber concentration (µg m^{-3})									Emission factor (µg m^{-2} h^{-1})									Coefficient: E = b t^{m}		
				25.1 h	97.0 h	145.1 h	193.3 h	195.1 h	264.9 h	288.9 h	290.4 h	337.3 h	25.12 h	97.06 h	145.1 h	193.3 h	195.1 h	264.9 h	288.9 h	290.4 h	337.3 h	m	b	R^2
D1	DNPH	Formaldehyde	50-00-0	2.9	2.7	3.3	2.7	5.2	3.0	2.3	3.4	2.6	32.1	30.1	37.4	30.6	57.8	33.8	25.4	38.2	29.0	0.0	34.2	0.0
D2		Acetaldehyde	75-07-0	0.6	0.6	0.6	0.5	0.5	0.7	0.7	0.9	0.5	6.9	6.4	6.9	6.0	5.5	8.3	7.9	10.1	5.9	0.1	5.0	0.1
D3		Propanal	123-38-6	0.8	0.7	0.7	0.8	0.7	0.7	0.9	1.0	0.8	8.7	7.5	7.8	8.7	8.3	8.3	9.7	11.3	8.5	0.0	7.1	0.1

Appendix E - Calculation of house volumes and material surface areas

This appendix lists tables to show how the house volumes and material surface areas were estimated.

E.1 House volumes

Table E. 1 Volume calculation for H1

	Length				Width				Floor height		Volume		Area	
	ft	in	ft	m	ft	in	ft	m	ft	m	ft^3	m^3	ft^2	m^2
Basement (elv B)	44.0	10.0	44.8	13.7	40.0	7.0	40.6	12.4	8.54	2.6	15541	440	1819	169
subtraction	7.0	3.0	7.3	2.2	19.0	11.0	19.9	6.1	8.54	2.6	-1233	-35	-144	-13
subtraction	3.0	6.0	3.5	1.1	19.0	11.0	19.9	6.1	8.54	2.6	-595	-17	-70	-6
Main floor	35.0	0.0	35.0	10.7	19.0	11.0	19.9	6.1	9.96	3.0	6942	197	697	65
	44.0	10.0	44.8	13.7	20.0	8.0	20.7	6.3	9.96	3.0	9227	261	927	86
	5.0	10.0	5.8	1.8	4.0	11.0	4.9	1.5	9.96	3.0	143	4	14	1
2nd floor	40.0	7.0	40.6	12.4	53.0	9.0	53.8	16.4	9.13	2.8	19905	564	2181	203
subtraction	7.0	3.0	7.3	2.2	19.0	11.0	19.9	6.1	9.13	2.8	-1318	-37	-144	-13
subtraction	11.0	11.0	11.9	3.6	8.0	3.0	8.3	2.5	9.13	2.8	-897	-25	-98	-9
addition	3.0	6.3	3.5	1.1	3.0	6.3	3.5	1.1	9.13	2.8	57	2	6	1
Total										main & 2nd floor:	34002	963	3577	332
										Incl. basement:	47714	1353	5182	481

Table E. 2 Volume calculation for H2

	Length				Width				Floor height		Volume		Area	
	ft	in	ft	m	ft	in	ft	m	ft	m	ft^3	m^3	ft^2	m^2
Basement	35	4	35	11	21	4	21	7	8.54	2.6	6439	182	754	70
	11	4	11	3	46	12	47	14	8.54	2.6	4550	129	533	49
	36	2	36	11	8	6	9	3	8.54	2.6	2626	74	307	29
Main floor	33	25	34	10	20	8	20	6	9.96	3.0	6810	193	684	64
	35	10	36	11	19	6	20	6	9.96	3.0	6958	197	699	65
	10	10	11	3	12	4	12	4	9.96	3.0	1331	38	134	12
2nd floor	55	10	56	17	20	8	21	6	9.13	2.8	10529	298	1154	107
	35	10	36	11	19	6	20	6	9.13	2.8	6376	181	699	65
	10	10	11	3	12	4	12	4	9.13	2.8	1219	35	134	12
Total										main and 2nd floor:	33223	941	3502	325
										Incl. basement:	46837	1326	5096	473

E.2 Calculation of material areas exposed to air

E.2.1 I-joist

The area of I-joists exposed to air was calculated by multiplying three parameters, i.e., the perimeter of an I-joist (the red line in Figure E. 1), the length of an I-joist, and the number of I-joists. The perimeter of an I-joist was estimated to be 0.65 m according to Figure E. 1. The length of an I-joist was assumed to be the length of the basement (13.21 m for H1 and 12.45 m for H2). The number of I-joists was 13 in H1 and 40 in H2. H1 had a smaller amount of I-joist exposure to air than H2 since H1 had a partially finished basement.

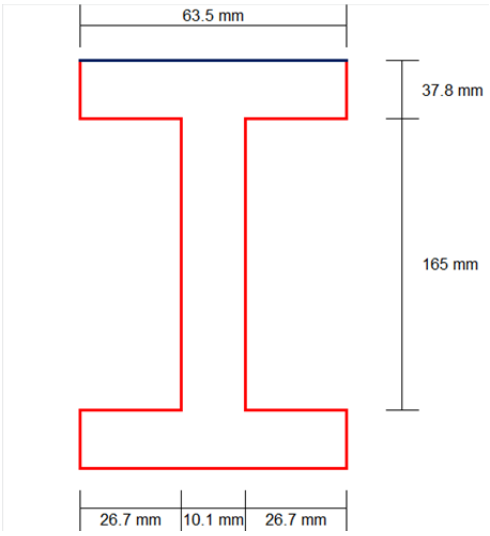

Figure E. 1 Dimensions of an I-joist

Table E. 3 Area of I-joist in H1 and H2

	H1: Basement (all unfinished)	H2: Basement (unfinished only)
Perimeter of a joist (m)	0.65	0.65
Span of a joist (m)	13.21	12.45
Quantity of joists (#/floor)	14	30
Floor joist loading area (m^2/unit)	8.61	8.11
Floor joist area (m^2)	120.47	373.4

E.2.2 Tile floor

The kitchen, bathroom, and entrances of both houses had tile floors whose areas were calculated based on the dimensions from the floor plans as shown in Table E. 4 and Table E. 5. Since the tile was tested as an assembly of tile, adhesive, plywood, and OSB subfloor with both top and bottom sides exposed to air, the tile floor on the first floor was used to represent the tested assembly. The area (e.g., 41.6 m^2 in H1) was doubled in the simulation to account for the top and bottom sides (e.g., 83.3 m^2 in H1).

Table E. 4 Dimensions of tile floor in H1

	1st floor				2nd floor			Total	
	kitchen	bathroom	entrance 1	entrance 2	ensuite	bath2	bath3	Area with exposed subfloor	Area without exposed subfloor
Width (m)	5.2	1.5	1.4	2.0	3.3	2.6	2.5		
Length (m)	6.3	1.9	1.4	1.9	4.4	2.6	2.5		
Area (m^2)	32.8	2.9	2.1	3.8	14.6	7.0	6.3	41.6	27.8

Table E. 5 Dimensions of tile floor in H2

	1st floor				2nd floor			Total	
	kitchen	bathroom	entrance 1	foyer	ensuite	main bath 1	main bath 2	Area with exposed subfloor	Area without exposed subfloor
Width (m)	3.3	2.1	2.4	3.6	4.6	3.3	2.1		
Length (m)	6.5	1.6	3.1	3.1	2.9	1.8	1.8		
Area (m^2)	21.3	3.3	7.3	11.1	13.6	6.0	3.9	43.0	23.6

E.2.3 OSB subfloor

Since the basement was not completely finished, the OSB subfloor was exposed to air. The OSB subfloor area was calculated by taking the ceiling area of the unfinished basement and subtracting the area occupied by I-joists and the subfloor area taken into account in the calculation of the tile floor.

Table E. 6 Area of OSB subfloor in H1

	1st floor	2nd floor	Total
Exterior wall perimeter (m)	45.5	26.2	
Interior wall perimeter (m)	34.1	50.3	
Trim thickness (")	5.6	5.6	
Trim thickness (m)	0.14	0.14	
Trim area (m^2)	11.3	10.9	34.0

Table E. 7 Area of OSB subfloor in H2

Total width of I-joists overlapping with subfloor (m)	1.9
Area occupied by I-joists (m^2)	23.7
Unfinished basement ceiling area (m^2)	148.1
Area of OSB subfloor (m^2)	124.4
Area of OSB subfloor, excluding subfloor of tile (m^2)	81.3

E.2.4 Carpet floor

H1 had carpet in bedrooms on the second floor and in the basement, while no carpet was present in H2. Although the carpet in the basement was different from that on the second floor, all carpeted areas were included in the area calculation for carpet. The carpeted area was calculated based on the room dimensions from the floor plan (Table E. 8).

Table E. 8 Dimensions of carpet floor in H1

	2nd floor (individual rooms)										
	master	mb (entrance)	closet (mb)	bed2	bed2 (entrance)	closet (bed2)	bed3	bed3 (entrance)	bed3 (closet)	bed4	closet (bed4)
Width (m)	4.3	1.2	1.8	4.2	2.3	1.6	5.1	1.4	2.1	3.0	1.6
Length (m)	6.0	0.5	4.4	3.7	0.7	1.7	3.4	0.9	1.4	3.7	0.6
Area (m^2)	25.6	0.6	7.9	15.4	1.5	2.7	17.0	1.2	2.9	11.1	0.9
	2nd floor (total)		Basement		Total						
Width (m)	5.4										
Length (m)	8.1										
Area (m^2)	86.8		43.6		217.1						

E.2.5 Hardwood floor

The hardwood floor area was calculated by subtracting the area of carpet and tile floors from the total floor area.

Table E. 9 Area of hardwood in H1

	1st floor			2nd floor				Total
	total	tile	hardwood	total	tile	carpet	hardwood	hardwood
Width (m)								
Length (m)								
Area (m^2)	152.2	41.6	110.5	180.7	27.8	86.8	66.1	176.6

Table E. 10 Area of hardwood in H2

	1st floor			2nd floor			Total
	total	tile	hardwood	total	tile	hardwood	hardwood
Width (m)							
Length (m)							
Area (m^2)	140.9	43.0	97.8	184.5	23.6	161.0	258.8

E.2.6 Kitchen cabinets and countertops

The surface area of kitchen cabinets was estimated based on the measured dimensions of multiple components as shown in Table E. 11 and Table E. 12.

Table E. 11 Dimensions of kitchen cabinet components in H1

	Length (m)	Depth (m)	Door area (m^2)	Side area (m^2)	Bottom area (m^2)	Total area (m^2)
Microwave wall cabinet	0.99	0.32	1.34	0.43	0.32	2.1
Microwave bottom	0.99	0.65	0.88	0.58	0.00	1.5
Microwave side (ref side): 1	0.65		0.58	0.00	0.00	0.6
Microwave side (ref side): 2	0.09		0.00	0.08	0.00	0.1
Microwave side (ref side): thin strip	0.02		0.00	0.05	0.00	0.1
Refrigerator wall cabinet	1.77	0.32	1.61	0.00	0.56	2.2
Refrigerator wall cabinet 1: open*4	0.96	0.74	0.00	5.33	0.00	5.3
Next to refrigerator: open*3 bottoms	0.81	0.73			1.76	1.8
Next to refrigerator: bottom cabinet	0.81		0.30		0.00	0.3
Next to refrigerator: thin strip	0.04		0.00	0.13	0.00	0.1
Left of hood	0.68	0.31	0.92	0.41	0.21	1.5
Right of hood	1.77	0.31	2.39	0.41	0.54	3.3
Right of window						2.1
Bottom cabinet	0.97	0.32	1.31	0.43	0.31	3.2
Bottom cabinet (window side)	2.93	0.65	2.60	0.58		2.0
Bottom cabinet (window side): space opened	1.58	0.65	1.40	0.58		1.3
Island: 3 sides	0.61	0.65		0.79	0.54	3.6
Island: 1 side	1.28	0.88	1.31	2.24		2.1
Countertop 1	2.36					0.6
Countertop 2	0.99	0.66				1.9
Countertop 3	2.93	0.65				0.8
Island countertop	1.22	0.65				2.1
Sink (to be subtracted)	1.55	1.33				-0.4
Kitchen cabinet (total, m^2)						33.0
Kitchen countertop (total, m^2)						5.0
Kitchen cabinet + countertop (total, m^2)						38.0

Table E. 12 Dimensions of kitchen cabinet components in H2

	Length (m)	Depth (m)	Door area (m^2)	Side area (m^2)	Bottom area (m^2)	Total area (m^2)
Cabinet with slots: wall	1.10	0.32	1.09	0.63	0.35	2.1
Cabinet with slots: bottom	1.10	0.63	0.97	0.55	0.00	1.5
Refrigerator wall cabinet	0.98	0.66	0.57	0.38	0.64	1.6
Refrigerator wall cabinet 1: open*4	0.96	0.74	0.00	5.33	0.00	5.3
Next to refrigerator: wall*2 units	0.63	0.66	0.68	1.43	0.83	2.9
Next to refrigerator: bottom cabinet	2.21	0.66	2.15	0.64	0.00	2.8
Left of dishwasher	0.75	0.66	1.68	1.48	0.50	3.7
Above dishwasher: wall cabinet	1.00	0.30	0.58	0.17	0.30	1.1
Next to dishwasher: bottom	0.49	0.64	0.37	0.48	0.00	0.9
Above dishwasher: open area for side		0.64		0.00		0.0
Right of window	0.97	0.66	1.31	0.89	0.64	2.8
Bottom cabinet	1.67	0.66	1.27	0.57	1.10	2.9
Island: 1 door side & 3 sides	1.93	0.89	0.68	2.83		3.5
Countertop 1	1.08	0.63				0.7
Countertop 2	2.21	0.66				1.5
Countertop 3	2.67	0.66				1.8
Island countertop	1.93	1.23				2.4
Sink (to be subtracted)	0.55	0.63				-0.3
Kitchen cabinet (total, m^2)						31.1
Kitchen countertop (total, m^2)						5.9
Kitchen cabinet + countertop (total, m^2)						37.0

E.2.7 Bathroom cabinets and countertops

Table E. 13 Dimensions of bathroom cabinets and countertops in H1

	Dimensions Length (m)	Depth (m)	Outside area (m^2)
2nd floor, ensuite			
Ensuite: Base cabinet (door)	1.48	0.55	2.26
Ensuite: Base cabinet (side)	0.55		0.96
Ensuite: wall cabinet (door)	0.34		0.41
Ensuite: wall cabinet (back)	0.38		0.09
Ensuite: wall cabinet, edge 1	2.07		0.10
Ensuite: wall cabinet, edge 2	1.89		0.09
Ensuite: countertop	1.51	0.58	1.74
Ensuite: edge 1	1.54	0.03	0.09
Ensuite: edge 2	0.60	0.03	0.04
Ensuite: edge 3			
Ensuite: sink			-0.26
2nd floor, Bath 2			
Bath 2: Base cabinet (door)	2.50	0.58	1.73
Bath 2: Base cabinet side	0.58		0.47
Bath 2: wall cabinet (door)	0.34		0.21
Bath 2: wall cabinet (back)	0.38		0.04
Bath 2: edge 1	2.07		0.05
Bath 2: edge 2	1.89		0.05
Bath 2: countertop	2.50	0.58	1.45
Bath 2: edge 1	2.53	0.03	0.08
Bath 2: edge 2	0.61	0.03	0.02
Bath 2: edge 3			
Bath 2: sink			-0.26
2nd floor, Bath 3			
Bath 3: Base cabinet (door)	0.91	0.56	0.63
Bath 3: Base cabinet side	0.56		0.45
Bath 3: wall cabinet (back)	0.34		0.21
Bath 3: wall cabinet	0.38	0.00	0.04
Bath 3: edge 1	2.07		0.05
Bath 3: edge 2	1.89		0.05
Bath 3: countertop	0.91	0.59	0.54
Bath 3: edge 1	0.94	0.03	0.03
Bath 3: edge 2	0.62	0.03	0.02
Bath 3: edge 3			
Bath 3: sink			-0.13
Bathroom cabinet (total, m^2)			7.9
Bathroom countertop (total, m^2)			3.2
Bathroom cabinet & countertop (total, m^2)			11.1

Table E. 14 Dimensions of bathroom cabinets and countertops in H2

	Dimensions Length (m)	Depth (m)	Outside area (m^2)
1st floor			
1st floor, bath, Base cabinet	0.00	0.00	0.00
1st floor, bath, Base cabinet side	0.00		0.00
1st floor, bath, Wall cabinet (door)	0.40	0.15	0.26
wall cabinet, Edge 1	1.30		0.07
wall cabinet, Edge 2	0.79		0.04
1st floor, bath, Countertop	0.00	0.00	0.00
Edge 1	0.03	0.03	0.00
Edge 2	0.03	0.03	0.00
Edge 3			
Sink			-0.12
2nd floor, ensuite			
Ensuite: Base cabinet	2.31	0.56	1.77
Ensuite: Base cabinet side	0.56		0.43
Ensuite: wall cabinet (door)	0.34		0.21
Ensuite: wall cabinet (background)	0.38		0.04
Ensuite: wall cabinet, edge 1	2.07		0.04
Ensuite: wall cabinet, edge 2	1.89		0.04
Ensuite: countertop	2.31	0.56	1.29
Ensuite: edge 1	2.34	0.03	0.07
Ensuite: edge 2	0.59	0.03	0.02
Ensuite: edge 3			
Ensuite: sink			-0.23
2nd floor, Bath 2: main bath			
Bath 2: Base cabinet	2.10	0.56	1.44
Bath 2: Base cabinet side	0.56		0.45
Bath 2: wall cabinet (door)	0.34		0.21
Bath 2: wall cabinet (background)	0.38		0.04
Bath 2: edge 1	2.07		0.04
Bath 2: edge 2	1.89		0.04
Bath 2: countertop	2.10	0.56	1.17
Bath 2: edge 1	2.12	0.03	0.06
Bath 2: edge 2	0.59	0.03	0.02
Bath 2: edge 3			
Bath 2: sink			-0.12
Bathroom cabinet (total, m^2)			5.1
Bathroom countertop (total, m^2)			2.4
Bathroom cabinet & countertop (total, m^2)			7.5

E.2.8 Interior and closet doors

Door areas were calculated based on the dimensions from the floor plans as shown in Table E. 15 and Table E. 16.

Table E. 15 Dimensions of interior and closet doors in H1

	Interior doors															
	1st floor					2nd floor								Basement		Total	
	mudroom	powder room	Den: French door	Entrance from garage	Entrance	to master bed	ensuite, pocket	ensuite, bathroom door	bed2	bed3	bed4	bath2	bath3	door1	door2	HDF	Solid wood
Quantity	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2		
Door width (m)	0.78	0.71	1.22	0.78	1.17	1.23	0.98	0.61	0.76	0.77	0.76	0.66	0.66	0.81	0.71		
Door height (m)	2.03	2.45	2.46	2.03	2.03	2.05	2.02	2.04	2.05	2.06	2.06	2.05	2.05	2.05	2.05		
Door area (m^2)/unit	3.17	3.48	3.00	1.58	2.38	5.04	3.96	2.49	1.56	1.59	1.57	1.35	1.35	1.66	1.46		
Door area (m^2)	3.17	3.48	3.00	1.58		5.04	3.96	2.49	1.56	1.59	1.57	2.71	1.35	3.32	2.91	34.73	3.00

	Closet doors								Interior + Closet		
	1st floor			2nd floor					Total	Total	
	Pantry	mudroom: slide	entrance closet	master, closet	outside of ensuite, linen closet	Linen closet	bed3 closet	bed2 closet	HDF	HDF	Solid wood & glass
Quantity	1	1	1	2	1	1	2	1			
Door width (m)	0.61	1.37	1.01	0.81	0.81	1.02	0.81	0.71			
Door height (m)	2.44	2.03	2.45	2.05	2.05	2.05	2.05	2.05			
Door area (m^2)/unit	2.97	5.56	4.95	3.32	3.33	4.18	3.33	2.91			
Door area (m^2)	2.97	5.56	4.95	6.64	3.33	4.18	6.66	2.91	37.22	71.95	3.00

Table E. 16 Dimensions of interior and closet doors in H2

	Interior																
	1st floor						2nd floor									Total	
	mudroom	powder room	Den: French door	door to the basement	Entrance from garage	Entrance	to master bed	ensuite, from corridor	ensuite, bathroom door	main bath	to bath tub	door to bed3	laundry	bed2	bed4	HDF	Solid wood & glass
Quantity	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1		
Door width (m)	0.81	0.71	1.22	0.81	0.88	1.70	1.22	0.71	0.61	0.71	0.61	0.76	0.81	1.22	0.76		
Door height (m)	2.00	2.00	2.10	2.00	2.13	2.13	2.00	2.00	2.00	2.13	2.53	2.53	2.00	2.10	2.00		
Door area (m^2) / unit	3.25	2.84	2.56	1.63	1.86	3.62	4.88	2.84	2.44	1.51	1.54	1.93	1.63	2.56	1.52		
Door area (m^2)	3.25	2.84	2.56	1.63	1.86		4.88	2.84	2.44	3.03	1.54	1.93	1.63	2.56	1.52	31.96	2.56

	Closet								Interior + Closet		
	1st floor			2nd floor					Total	Total	
	Pantry	mudroom: bifold	entrance closet, bifold	master, closet	outside of ensuite, linen closet	bed4 closet	bed3 closet	bed2 closet	HDF	HDF	Solid wood & glass
Quantity	1	1	1	2	1	1	1	1			
Door width (m)	0.61	0.91	1.63	0.81	0.81	1.22	1.22	1.42			
Door height (m)	2.00	2.00	2.10	2.10	2.00	2.00	2.00	2.00			
Door area (m^2) / unit	2.44	3.66	6.83	3.41	3.25	4.88	4.88	5.69			
Door area (m^2)	2.44	3.66	6.83	6.83	3.25	4.88	4.88	5.69	38.45	70.40	2.56

E.2.9 Window trims

Window trim areas were calculated based on the dimensions from the floor plans as shown in Table E. 17 and Table E. 18.

Table E. 17 Dimensions of widows and window trims in H1

	1st floor								2nd floor										Total
	dining room	kitchen	kitchen	family	family	den	living	laundry	master bedroom	master bedroom	ensuite	bed2	bath3	bed3	bath2	bed4	open	open	
Quantity	2	1	1	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	
Width (m)	0.57	0.77	2.25	0.77	1.51	1.64	1.51	0.77	0.57	2.25	1.31	1.51	1.10	1.94	0.67	1.31	0.77	1.51	
Height (m)	1.99	1.33	1.63	1.68	1.68	1.63	2.09	0.92	1.38	1.78	1.07	1.23	1.23	2.12	1.23	1.23	1.84	1.84	
Perimeter/unit (m)	5.11	4.19	7.77	4.90	6.39	6.55	7.20	3.38	3.89	8.08	4.76	5.47	4.66	8.12	3.78	5.07	5.21	6.69	
Perimeter (m)	10.21	4.19	7.77	9.80	12.78	6.55	7.20	3.38	7.77	8.08	4.76	5.47	4.66	8.12	3.78	5.07	5.21	6.69	
Window trim thickness (")	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	
Window trim area (m^2)	0.91	0.37	0.69	0.87	1.14	0.58	0.64	0.30	0.69	0.72	0.42	0.49	0.41	0.72	0.34	0.45	0.46	0.59	10.8

Table E. 18 Dimensions of widows and window trims in H2

	1st floor								2nd floor										Total
	dining room 1	dining room 2	kitchen	entrance	den	living 1	living 2	living 3	mud room	master bedroom	ensuite	ensuite	bed2	bed2	bed3	bed4	main	open	
Quantity	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1	
Width (m)	1.21	1.84	0.77	0.77	2.00	0.77	1.61	1.61	1.31	2.66	1.51	0.57	0.57	2.00	2.00	1.31	0.57	0.77	
Height (m)	2.09	2.46	1.33	1.07	1.94	1.78	1.78	2.09	0.43	1.78	1.07	0.92	1.53	1.84	1.38	1.23	1.07	1.78	
Perimeter/unit (m)	6.59	8.60	4.19	3.68	7.87	5.11	6.79	7.40	3.48	8.89	5.17	2.97	4.19	7.67	6.76	5.07	3.28	5.11	
Perimeter (m)	13.18	8.60	4.19	3.68	7.87	5.11	6.79	7.40	3.48	8.89	5.17	2.97	8.38	7.67	6.76	5.07	6.55	5.11	
Window trim thickness (")	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
Window trim area (m^2)	1.00	0.66	0.32	0.28	0.60	0.39	0.52	0.56	0.27	0.68	0.39	0.23	0.64	0.58	0.51	0.39	0.50	0.39	8.9

E.2.10 Baseboard trims

The baseboard trim area was calculated by multiplying the perimeter (exterior and interior) by the trim thickness. The perimeter was estimated based on the floor plan, while the trim thickness was measured on-site.

Table E. 19 Dimensions of baseboard trims in H1

	1st floor	2nd floor	Total
Exterior wall perimeter (m)	45.5	26.2	
Interior wall perimeter (m)	34.1	50.3	
Trim thickness (")	5.6	5.6	
Trim thickness (m)	0.14	0.14	
Trim area (m^2)	11.3	10.9	34.0

Table E. 20 Dimensions of baseboard trims in H2

	1st floor	2nd floor	Total
Exterior wall perimeter (m)	53.1	52.1	
Interior wall perimeter (m)	31.6	54.2	
Trim thickness (")	4.0	4.0	
Trim thickness (m)	0.1	0.1	
Trim area (m^2)	8.6	10.8	28.2

E.2.11 Door trims

The door trim area was calculated by multiplying the perimeter (exterior and interior) by the trim thickness. The perimeter was measured on-site for H1 and estimated based on the floor plan for H2. The trim thickness was measured on-site.

Table E. 21 Dimensions of door trims in H1

	1st floor					2nd floor								Basement		Total
	mudroom	powder room	Den: French door	Entrance from garage	Entrance	to master bed	ensuite, pocket	ensuite, bathroom door	bed2	bed3	bed4	bath2	bath3	door1	door2	
Quantity	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	2.0	2.0	
Door perimeter (m), excluding bottom	4.8	5.6	6.1	4.8	5.2	5.3	5.0	4.7	4.9	4.9	4.9	4.8	4.8	4.8	4.8	
Trim thickness (")	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
Trim thickness (m)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
# of side	2.0	2.0	2.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Trim area (m^2)	0.9	1.0	1.1	0.4	0.5	0.9	0.9	0.8	0.9	0.9	0.9	1.7	0.8	1.7	1.7	15.1

Table E. 22 Dimensions of door trims in H2

	1st floor					2nd floor									Total
	mudroom	powder room	Den: French door	door to the basement	Entrance from garage	to master bed	ensuite, from corridor	ensuite, bathroom door	main bath	bath2	door to bed3	laundry	bed2	bed4	
Quantity	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	
Door perimeter (m), excluding bottom	4.8	4.7	5.4	4.8	5.1	5.2	4.7	4.6	5.0	5.7	5.8	4.8	5.4	4.8	
Trim thickness (")	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Trim thickness (m)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
# of side	2.0	2.0	2.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Trim area (m^2)	0.7	0.7	0.8	0.4	0.4	0.8	0.7	0.7	1.5	0.9	0.9	0.7	0.8	0.7	10.8

E.2.12 Door jambs

The door jamb area was calculated by multiplying the perimeter of a door by the door jamb width.

Table E. 23 Dimensions of door jambs in H1

	1st floor					2nd floor								Basement		Total
	mudroom	powder room	Den: French door	Entrance from garage	Entrance	to master bed	ensuite, pocket	ensuite, bathroom door	bed2	bed3	bed4	bath2	bath3	door1	door2	
Quantity	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	2.0	2.0	
Door jam width (cm)	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	
Door perimeter (m)	5.6	6.3	7.4	5.6	6.4	6.6	6.0	5.3	5.4	5.4	5.7	5.6	5.6	6.1	6.8	
Door jam area (m^2)	0.8	0.0	1.1	0.8	0.9	1.0	0.9	0.8	0.8	0.8	0.8	1.6	0.8	1.8	2.0	14.8

Table E. 24 Dimensions of door jambs in H2

	1st floor					2nd floor									Total
	mudroom	powder room	Den: French door	door to the basement	Entrance from garage	to master bed	ensuite, from corridor	ensuite, bathroom door	main bath	bath2	door to bed3	laundry	bed2	bed4	
Quantity	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0
Door jamb width (cm)	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
Door perimeter (m)	5.6	5.4	6.6	5.6	6.0	6.4	5.4	5.2	5.7	6.3	6.6	5.6	6.6	5.5	0.0
Door jamb area (m^2)	0.8	0.8	1.0	0.8	0.9	0.9	0.8	0.8	1.6	0.9	1.0	0.8	1.0	0.8	12.8

E.2.13 Caulking for trim

One type of caulk was assumed to be used for the baseboard, window, and door trims. The thickness of the caulk was assumed to be 0.25 inch.

Table E. 25 Caulking area in H1

	Door trim	Window trim	Total
Baseboard length (m)	75.5	121.5	
Thickness (in)	0.25	0.25	
Thickness (m)	0.0064	0.0064	
Area (m^2)	0.5	0.8	2.8

Table E. 26 Caulking area in H2

	Door trim	Window trim	Total
Baseboard length (m)	70.9	116.9	
Caulking thickness (in)	0.25	0.25	
Caulking thickness (m)	0.0064	0.0064	
Area (m^2)	0.5	0.7	3.0

E.2.14 Painted walls

The painted wall area was calculated by multiplying the interior and exterior perimeter by the ceiling height. The window area was subtracted from the exterior wall area.

Table E. 27 Painted wall area in H1

	1st floor	2nd floor	Total
Exterior wall perimeter (m)	45.5	26.2	
Interior wall perimeter (m)	34.1	50.3	
Ceiling height (m)	3.0	2.8	
Window area (m^2)	21.2	20.9	
Exterior wall (m^2)	138.2	73.0	
Exterior wall (m^2), excluding window	117.0	52.1	
Interior wall (m^2)	103.5	139.8	
Total (m^2)	220.5	191.8	412.4

Table E. 28 Painted wall area in H2

	1st floor	2nd floor	Total
Exterior wall perimeter (m)	53.1	52.1	
Interior wall perimeter (m)	31.6	54.2	
Ceiling height (m)	3.0	2.8	
Window area (m^2)	23.5	19.2	
Exterior wall (m^2)	161.1	144.9	
Exterior wall (m^2), excluding window	137.6	125.7	
Interior wall (m^2)	96.0	150.8	
Total (m^2)	233.7	276.5	510.2

E.2.15 Painted ceilings

The painted ceiling area was assumed to be the same as the floor area. The area of open space was subtracted.

Table E. 29 Painted ceiling area in H1

	1st	2nd	Open	Total
Area (m^2)	152.2	180.7	-42.3	290.6

Table E. 30 Painted ceiling area in H2

	1st	2nd	Open	Total
Area (m^2)	140.9	184.5	-72.8	252.5

Appendix F - Schedule of construction activities

This appendix lists tables showing the schedule of construction activities. This information was used to estimate the elapsed time between material installation and indoor air quality sampling. Time zero for installation was defined as the completion of backfill.

Table F. 1 Schedule of construction activities for H1

	Construction activity	Date	Test ID	Ref. date: June 21, 2016 Installation time (h)	Ref. date: Nov. 16, 2016 Elapsed time btw installation & sampling	ACH (h^{-1})
Day 1	Stake	27-May-16				
2	Excavate	30-May-16				
4	Pin footings	01-Jun-16				
5	Pour footings	02-Jun-16				
8	Form walls	07-Jun-16				
9	Pour walls	08-Jun-16				
10	Strip walls	09-Jun-16				
11	Set grades	10-Jun-16				
13	Basement wrap	14-Jun-16				
14	Inspection	15-Jun-16				
16	Backfill	17-Jun-16				
17	Plates	20-Jun-16				
18	Weather	21-Jun-16		0	3552	5
19	1 st subfloor	22-Jun-16	Floor_OSB	24	3528	5
20	1 st subfloor	23-Jun-16	Floor_Joist	48	3504	5
23	1 st walls	28-Jun-16		168	3384	5
25	Weather	30-Jun-16		216	3336	5
26	2 nd subfloor	01-Jul-16		240	3312	5
29	2 nd walls	06-Jul-16	Wall_OSB	360	3192	5
30	Load trusses	07-Jul-16		384	3168	5
32	Weather	11-Jul-16		480	3072	5
35	Trusses	14-Jul-16		552	3000	5
37	Sheating	18-Jul-16		648	2904	5
40	Shingles/mech. rough	21-Jul-16		720	2832	5
41	Backing/windows	22-Jul-16		744	2808	5
42	Backing/stairs	25-Jul-16		816	2736	1
44	Backing	27-Jul-16		864	2688	1
45	Backing/Bsmt framing	28-Jul-16		888	2664	1
46	Backing	29-Jul-16		912	2640	1
47	Backing/insp.	02-Aug-16		1008	2544	1
50	Backing	05-Aug-16		1080	2472	1

Table F. 1 (continued)

	Construction activity	Date	Test ID	Ref. Date: June 21, 2016 Installation time (h)	Ref. Date: Nov. 16, 2016 Elapsed time btw installation & sampling	ACH (h^{-1})
53	Electrical rough-in	10-Aug-16		1200	2352	1
58	Insulation/brick	17-Aug-16		1368	2184	1
59	Inspection	18-Aug-16		1392	2160	1
67	Drywall boarding	30-Aug-16	Wall_Drywall	1680	1872	1
76	Taping	13-Sep-16		2016	1536	1
77	Stipple	14-Sep-16		2040	1512	1
78	Clean-up	15-Sep-16		2064	1488	1
79	Sand and screw	16-Sep-16		2088	1464	1
80	Underlay	19-Sep-16		2160	1392	1
84	Trim	23-Sep-16	Trim_Baseboard	2256	1296	1
85	Prime check/paint	26-Sep-16		2328	1224	1
92	Paint	05-Oct-16	Wall_Paint	2544	1008	1
93	Cabinets	06-Oct-16		2568	984	0.059
98	Cabinets/granite	14-Oct-16	Cabinet_CT_Kitchen	2760	792	0.059
99	Railing	17-Oct-16		2832	720	0.059
102	Ceramics	20-Oct-16	Floor_Tile	2904	648	0.059
103	Plumbing finish	21-Oct-16		2928	624	0.059
104	Electrical finish	24-Oct-16		3000	552	0.059
107	Hardwood	27-Oct-16	Floor_Hardwood	3072	480	0.059
109	Granite	31-Oct-16	Cabinet_CT_Bathroom	3168	384	0.059
112	Carpet	03-Nov-16	Floor_Carpet	3240	312	0.059
118	Final trim check	11-Nov-16		3432	120	0.059
119	Cleaning	14-Nov-16		3504	48	0.059
120	Paint touch-ups	15-Nov-16		3528	24	0.059
121	IAQ sampling	16-Nov-16		3552	0	0.059

Table F. 2 Schedule of construction activities for H2

	Construction activity	Date	Test ID	Ref. Date: May 17, 2017 Installation time (h)	Ref. Date: Nov. 16, 2016 Elapsed time btw installation & sampling	ACH (h^{-1})
Day 1	Stake	22-Apr-16				
3	Excavate	26-Apr-16				
4	Pin footings	27-Apr-16				
5	Pour footings	28-Apr-16				
8	Form walls	3-May-16				
9	Pour walls	4-May-16				
10	Strip walls	5-May-16				
11	Set grades	6-May-16				
13	Basement wrap	10-May-16				
14	Inspection	11-May-16				
16	Backfill	13-May-16				
17	Plates	16-May-16				
18	Weather	17-May-16		0	4392	5
20	1 st subfloor	19-May-16	Floor_OSB	48	4344	5
20	1 st subfloor	19-May-16	Floor_Joist	48	4344	5
23	1 st walls	24-May-16		168	4224	5
24	2 nd subfloor	25-May-16		192	4200	5
25	Weather	26-May-16		216	4176	5
26	2 nd subfloor	27-May-16		240	4152	5
29	2 nd walls	1-Jun-16	Wall_OSB	360	4032	5
30	Load Trusses	2-Jun-16		384	4008	5
32	Weather	6-Jun-16		480	3912	5
35	Trusses	9-Jun-16		552	3840	5
37	Sheating	13-Jun-16		648	3744	5
40	Shingles/mech. rough	16-Jun-16		720	3672	5
41	Backing/windows	17-Jun-16		744	3648	5
42	Backing/stairs	20-Jun-16		816	3576	1
44	Backing	22-Jun-16		864	3528	1
45	Backing/bsmt framing	23-Jun-16		888	3504	1
46	Backing	24-Jun-16		912	3480	1

Table F. 2 (continued)

	Construction activity	Date	Test ID	Ref. Date: May 17, 2017	Ref. Date: Nov. 16, 2016	
				Installation time (h)	Elapsed time btw installation & sampling	ACH (h^{-1})
47	Backing/insp.	27-Jun-16		984	3408	1
50	Backing	30-Jun-16		1056	3336	1
53	Electrical rough-in	5-Jul-16		1176	3216	1
54	Inspection	6-Jul-16		1200	3192	1
58	Insulation/brick	12-Jul-16		1344	3048	1
59	Inspection	13-Jul-16		1368	3024	1
67	Drywall boarding	25-Jul-16	Wall_Drywall	1656	2736	1
76	Taping	8-Aug-16		1992	2400	1
77	Stipple	9-Aug-16		2016	2376	1
78	Clean-up	10-Aug-16		2040	2352	1
79	Sand and screw	11-Aug-16		2064	2328	1
80	Underlay	12-Aug-16		2088	2304	1
84	Trim	18-Aug-16	Trim_Baseboard	2232	2160	1
85	Prime check/paint	19-Aug-16		2256	2136	1
92	Paint	30-Aug-16	Wall_Paint	2520	1872	1
93	Cabinets	31-Aug-16		2544	1848	0.15
98	Cabinets/granite	8-Sep-16	Cabinet_CT_Kitchen	2736	1656	0.15
99	Railing	9-Sep-16		2760	1632	0.15
102	Ceramics	14-Sep-16	Floor_Tile	2880	1512	0.15
103	Plumbing finish	15-Sep-16		2904	1488	0.15
104	Electrical finish	16-Sep-16		2928	1464	0.15
107	Hardwood	21-Sep-16	Floor_Hardwood	3048	1344	0.15
109	Granite	23-Sep-16	Cabinet_CT_Bathroom	3096	1296	0.15
112	Carpet	28-Sep-16	Floor_Carpet	3216	1176	0.15
118	Final trim check	6-Oct-16		3408	984	0.15
119	Cleaning	7-Oct-16		3432	960	0.15
123	Paint touch-ups	14-Oct-16		3600	792	0.15
129	Final prep.	24-Oct-16		3840	552	0.15
130	Pre-move	25-Oct-16		3864	528	0.15
139	Final clean	7-Nov-16		4176	216	0.15
139	IAQ sampling	16-Nov-16		4392	0	0.15

Appendix G - Prediction of indoor air concentrations at steady state

This appendix lists tables for the indoor air concentration predicted for an individual chemical, with the assumption that steady state was reached when sampling was conducted. These tables include input parameters such as the *m* and *b* constants for the emission model, the surface area (A), and the time elapsed between material installation and sampling. The air change rate was 0.059 h^{-1} for H1 and 0.15 h^{-1} for H2. The house volume was 1353 m^3 for H1 and 1326 m^3 for H2 (including the basement). The results include the air concentration "C" from each material, which was calculated using equation 8. The percent contribution "Contribution (%)" was calculated using equation 9. The predicted indoor air concentration was calculated using equation 7 and compared with the measured concentration at the bottom of a table. The ratio of the predicted (C_p) and measured concentration (C_m) was also calculated.

G.1 Aldehydes

Table G. 1 Formaldehyde concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.06	7.34	24	3600	4.39	34.0	149.5	1.9	2
Floor_Joist	I-joist	-0.23	43.16	48	3576	6.60	120.5	795.2	9.9	10
Trim_Window & others	Window trim, door trim & jam	0.00	49.06	2256	1368	48.15	40.7	1959.2	24.4	24
Trim_Baseboard	Baseboard trim	-0.06	38.15	2256	1368	25.16	34.0	855.0	10.7	10
Door_HDF	Interior door	-0.09	30.00	2064	1560	15.89	71.9	1143.1	14.3	14
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.30	5.55E-05	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.03	63.39	2760	864	63.39	38.0	2411.7	30.1	29
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.33	9.36	3168	456	9.36	11.1	103.9	1.3	1
Wall_Ceiling_Paint	Painted wall & ceiling	-0.76	125.98	2544	1080	0.62	702.9	437.9	5.5	5
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.19	14.10	2904	720	3.98	83.3	331.1	4.1	4
Caulking	Caulking for trim	-1.97	148848.19	2256	1368	0.10	2.8	0.3	0.0	0
Predicted (Cp)									102.1	100
Measured (Cm)									87.1	
Ratio of Cp to Cm									1.2	

Table G. 2 Formaldehyde concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.06	7.34	48	4416	4.34	81.3	352.8	1.8	5
Floor_Joist	I-joist	-0.23	43.16	48	4416	6.29	373.4	2348.1	11.8	30
Trim_Window & others	Window trim, door trim & jam	-0.003	49.06	2232	2232	48.09	41.4	1992.5	10.0	26
Trim_Baseboard	Baseboard trim	-0.06	38.15	2232	2232	24.46	28.2	690.3	3.5	9
Door_HDF	Interior door	-0.09	30.00	2064	2400	15.31	70.4	1077.7	5.4	14
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.30	5.55E-05	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.25	1.08E+01	2736	1728	10.79	37.0	399.4	2.0	5
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	-0.002	34.16	3096	1368	33.72	7.5	252.9	1.3	3
Wall_Ceiling_Paint	Painted wall & ceiling	-0.76	125.98	2520	1944	0.40	762.7	304.0	1.5	4
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.19	14.10	2880	1584	3.42	86.1	294.1	1.5	4
Caulking	Caulking for trim	-1.97	148848.19	2232	2232	0.04	3.0	0.1	0.0	0
Predicted (Cp)									38.8	100
Measured (Cm)									37.3	
Ratio of Cp to Cm									1.0	

Table G. 3 Acetaldehyde concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.56	486.28	24	3600	5.00	34.0	170.1	2.1	2
Floor_Joist	I-joist	-0.52	1405.33	48	3576	19.17	120.5	2309.9	28.8	28
Trim_Window & others	Window trim, door trim & jam	-0.31	42.75	2256	1368	4.51	40.7	183.7	2.3	2
Trim_Baseboard	Baseboard trim	-0.04	24.00	2256	1368	17.67	34.0	600.3	7.5	7
Door_HDF	Interior door	-2.81	2.90E+05	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.27	83.65	3072	552	15.23	176.6	2689.5	33.5	33
Floor_Carpet	Carpet floor	-2.37	152074.19	3240	384	0.12	217.1	25.0	0.3	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	-0.01	8.29	2760	864	7.93	38.0	301.5	3.8	4
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.25	2.05	3168	456	2.05	11.1	22.8	0.3	0
Wall_Ceiling_Paint	Painted wall & ceiling	-3.45	9.87E+05	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.21	91.79	2904	720	23.24	83.3	1935.7	24.1	23
Caulking	Caulking for trim	-8.74	6.8E+15	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									102.7	100
Measured (Cm)									203.6	
Ratio of Cp to Cm									0.5	

Table G. 4 Acetaldehyde concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.56	486.28	48	4416	4.46	81.3	362.6	1.8	4
Floor_Joist	I-joist	-0.52	1405.33	48	4416	17.16	373.4	6408.8	32.2	70
Trim_Window & others	Window trim, door trim & jam	-0.31	42.75	2232	2232	3.88	41.4	160.6	0.8	2
Trim_Baseboard	Baseboard trim	-0.04	24.00	2232	2232	17.30	28.2	488.3	2.5	5
Door_HDF	Interior door	-2.81	2.90E+05	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	-2.37	152074.19	3216	1248	0.01	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.37	8.30E-01	2736	1728	0.83	37.0	30.7	0.2	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.07	4.95	3096	1368	4.95	7.5	37.1	0.2	0
Wall_Ceiling_Paint	Painted wall & ceiling	-3.45	9.87E+05	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.21	91.79	2880	1584	19.72	86.1	1697.4	8.5	18
Caulking	Caulking for trim	-8.74	6.8E+15	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									46.2	100
Measured (Cm)									61.7	
Ratio of Cp to Cm									0.7	

Table G. 5 Propanal concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.49	201.17	24	3600	3.69	34.0	125.7	1.6	6
Floor_Joist	I-joist	-0.67	179.27	48	3576	0.78	120.5	93.6	1.2	5
Trim_Window & others	Window trim, door trim & jam	-1.04	66.96	2256	1368	0.04	40.7	1.5	0.0	0
Trim_Baseboard	Baseboard trim	-0.04	1.70	2256	1368	1.29	34.0	44.0	0.5	2
Door_HDF	Interior door	8.32	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.40	0.97	3072	552	0.97	176.6	172.0	2.1	8
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	-0.45	4.09	2760	864	0.20	38.0	7.5	0.1	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	-7.37	3.96E+12	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	19.46	2904	720	19.00	83.3	1582.7	19.7	78
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									25.3	100
Measured (Cm)									32.6	
Ratio of Cp to Cm									0.8	

Table G. 6 Propanal concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.49	201.17	48	4416	3.34	81.3	271.9	1.4	11
Floor_Joist	I-joist	-0.67	179.27	48	4416	0.68	373.4	252.0	1.3	10
Trim_Window & others	Window trim, door trim & jam	-1.04	66.96	2232	2232	0.02	41.4	0.9	0.0	0
Trim_Baseboard	Baseboard trim	-0.04	1.70	2232	2232	1.27	28.2	35.9	0.2	1
Door_HDF	Interior door	8.32	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	6.31	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	-0.12	10.21	2736	1728	4.30	37.0	159.3	0.8	7
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.04	7.06	3096	1368	7.06	7.5	52.9	0.3	2
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	19.46	2880	1584	18.95	86.1	1631.6	8.2	68
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									12.1	100
Measured (Cm)									11.9	
Ratio of Cp to Cm									1.0	

Table G. 7 Butanal concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.02	5.76	24	3600	5.76	34.0	196.0	2.4	40
Floor_Joist	I-joist	-0.03	1.57	48	3576	1.20	120.5	145.1	1.8	30
Trim_Window & others	Window trim, door trim & jam	0.03	0.51	2256	1368	0.51	40.7	20.8	0.3	4
Trim_Baseboard	Baseboard trim	-0.02	0.86	2256	1368	0.76	34.0	25.9	0.3	5
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	-0.08	0.61	2760	864	0.35	38.0	13.5	0.2	3
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.27	1.00	2904	720	1.00	83.3	83.4	1.0	17
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									6.0	100
Measured (Cm)									24.4	
Ratio of Cp to Cm									0.2	

Table G. 8 Butanal concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.02	5.76	48	4416	5.76	81.3	468.3	2.4	45
Floor_Joist	I-joist	-0.03	1.57	48	4416	1.20	373.4	446.6	2.2	43
Trim_Window & others	Window trim, door trim & jam	0.03	0.51	2232	2232	0.51	41.4	21.2	0.1	2
Trim_Baseboard	Baseboard trim	-0.02	0.86	2232	2232	0.76	28.2	21.4	0.1	2
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.19	0.01	3048	1416	0.01	258.8	1.4	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.27	1.00	2880	1584	1.00	86.1	86.2	0.4	8
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									5.3	100
Measured (Cm)									11.0	
Ratio of Cp to Cm									0.5	

Table G. 9 Hexanal concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.17	716.32	24	3600	178.13	34.0	6061.7	75.6	22
Floor_Joist	I-joist	-0.20	438.94	48	3576	85.19	120.5	10263.0	128.0	38
Trim_Window & others	Window trim, door trim & jam	-0.2847	199.43	2256	1368	25.52	40.7	1038.3	12.9	4
Trim_Baseboard	Baseboard trim	-0.04	63.16	2256	1368	46.64	34.0	1585.0	19.8	6
Door_HDF	Interior door	0.33	0.79	2064	1560	0.79	71.9	56.6	0.7	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.20	6.77	2760	864	6.77	38.0	257.7	3.2	1
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.23	4.69	3168	456	4.69	11.1	52.1	0.6	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.05	94.24	2904	720	94.24	83.3	7848.8	97.9	29
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									338.8	100
Measured (Cm)									271.7	
Ratio of Cp to Cm									1.2	

Table G. 10 Hexanal concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.17	716.32	48	4416	172.06	81.3	13990.9	70.3	25
Floor_Joist	I-joist	-0.20	438.94	48	4416	81.66	373.4	30491.9	153.3	55
Trim_Window & others	Window trim, door trim & jam	-0.28	199.43	2232	2232	22.20	41.4	919.7	4.6	2
Trim_Baseboard	Baseboard trim	-0.04	63.16	2232	2232	45.70	28.2	1289.6	6.5	2
Door_HDF	Interior door	0.33	0.79	2064	2400	0.79	70.4	55.3	0.3	0
Floor_Hardwood	Hardwood floor (HWF2)	0.15	0.01	3048	1416	0.01	258.8	3.2	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.15	6.66	2736	1728	6.66	37.0	246.4	1.2	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.2601	6.68	3096	1368	6.68	7.5	50.1	0.3	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.05	94.24	2880	1584	94.24	86.1	8114.2	40.8	15
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									277.3	100
Measured (Cm)									143.4	
Ratio of Cp to Cm									1.9	

Table G. 11 Pentanal concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.09	109.77	24	3600	53.06	34.0	1805.5	22.5	40
Floor_Joist	I-joist	-0.25	85.74	48	3576	11.20	120.5	1349.0	16.8	30
Trim_Window & others	Window trim, door trim & jam	-0.1485	11.33	2256	1368	3.88	40.7	157.8	2.0	3
Trim_Baseboard	Baseboard trim	-0.03	11.35	2256	1368	9.20	34.0	312.5	3.9	7
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.17	3.01	2760	864	3.01	38.0	114.3	1.4	3
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.19	1.95	3168	456	1.95	11.1	21.6	0.3	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.22	9.35	2904	720	9.35	83.3	778.8	9.7	17
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									56.6	100
Measured (Cm)									62.8	
Ratio of Cp to Cm									0.9	

Table G. 12 Pentanal concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.09	109.77	48	4416	52.10	81.3	4236.8	21.3	45
Floor_Joist	I-joist	-0.25	85.74	48	4416	10.63	373.4	3967.3	19.9	42
Trim_Window & others	Window trim, door trim & jam	-0.15	11.33	2232	2232	3.61	41.4	149.4	0.8	2
Trim_Baseboard	Baseboard trim	-0.03	11.35	2232	2232	9.07	28.2	255.9	1.3	3
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	3.40	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.24	1.15	2736	1728	1.15	37.0	42.7	0.2	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.24	2.22	3096	1368	2.22	7.5	16.6	0.1	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.22	9.35	2880	1584	9.35	86.1	805.1	4.0	8
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									47.6	100
Measured (Cm)									31.4	
Ratio of Cp to Cm									1.5	

G.2 Alcohols and ketones

Table G. 13 1-Butanol concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.09	21.77	24	3600	10.77	34.0	366.4	4.6	11
Floor_Joist	I-joist	-0.17	8.16	48	3576	2.04	120.5	245.3	3.1	7
Trim_Window & others	Window trim, door trim & jam	-0.17	4.35	2256	1368	1.30	40.7	52.8	0.7	2
Trim_Baseboard	Baseboard trim	-0.01	3.00	2256	1368	2.76	34.0	93.8	1.2	3
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	5.28	2.76E-13	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.07	21.69	2760	864	21.69	38.0	825.2	10.3	24
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	-0.07	3.51	3168	456	2.34	11.1	25.9	0.3	1
Wall_Ceiling_Paint	Painted wall & ceiling	-0.26	5.40	2544	1080	0.90	702.9	629.5	7.9	19
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.12	30.43	2904	720	13.63	83.3	1135.1	14.2	34
Caulking	Caulking for trim	-1.09	8389.15	2256	1368	3.10	2.8	8.6	0.1	0
Predicted (Cp)									42.2	100
Measured (Cm)									1194.4	
Ratio of Cp to Cm									0.0	

Table G. 14 1-Butanol concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.09	21.77	48	4416	10.58	81.3	860.2	4.3	25
Floor_Joist	I-joist	-0.17	8.16	48	4416	1.96	373.4	733.6	3.7	21
Trim_Window & others	Window trim, door trim & jam	-0.17	4.35	2232	2232	1.19	41.4	49.5	0.2	1
Trim_Baseboard	Baseboard trim	-0.01	3.00	2232	2232	2.74	28.2	77.4	0.4	2
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.27	0.16	3048	1416	0.16	258.8	40.3	0.2	1
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-0.26	5.40	2520	1944	0.77	762.7	587.2	3.0	17
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.12	30.43	2880	1584	12.38	86.1	1065.8	5.4	31
Caulking	Caulking for trim	-1.09	8389.15	2232	2232	1.82	3.0	5.4	0.0	0
Predicted (Cp)									17.2	100
Measured (Cm)									323.6	
Ratio of Cp to Cm									0.1	

Table G. 15 2-Propanol concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.27	17.23	24	3600	1.87	34.0	63.6	0.8	18
Floor_Joist	I-joist	-0.51	9.89	48	3576	0.15	120.5	17.8	0.2	5
Trim_Window & others	Window trim, door trim & jam	-0.44	21.86	2256	1368	0.91	40.7	37.1	0.5	10
Trim_Baseboard	Baseboard trim	-0.04	4.34	2256	1368	3.34	34.0	113.6	1.4	31
Door_HDF	Interior door	5.79	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.07	1.67	2760	864	1.67	38.0	63.5	0.8	18
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.49	0.12	3168	456	0.12	11.1	1.4	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-4.43	4.83E+05	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.23	0.67	2904	720	0.67	83.3	55.7	0.7	15
Caulking	Caulking for trim	-0.96	3348.76	2256	1368	3.20	2.8	8.8	0.1	2
Predicted (Cp)									4.5	100
Measured (Cm)									105.0	
Ratio of Cp to Cm									0.0	

Table G. 16 2-Propanol concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.27	17.23	48	4416	1.77	81.3	143.7	0.7	34
Floor_Joist	I-joist	-0.51	9.89	48	4416	0.13	373.4	49.6	0.2	12
Trim_Window & others	Window trim, door trim & jam	-0.44	21.86	2232	2232	0.73	41.4	30.4	0.2	7
Trim_Baseboard	Baseboard trim	-0.04	4.34	2232	2232	3.28	28.2	92.7	0.5	22
Door_HDF	Interior door	5.79	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	-0.24	3.20	2736	1728	0.55	37.0	20.4	0.1	5
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.05	3.01	3096	1368	3.01	7.5	22.6	0.1	5
Wall_Ceiling_Paint	Painted wall & ceiling	-4.43	4.83E+05	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.23	0.67	2880	1584	0.67	86.1	57.5	0.3	14
Caulking	Caulking for trim	-0.96	3348.76	2232	2232	2.00	3.0	5.9	0.0	1
Predicted (Cp)									2.1	100
Measured (Cm)									13.6	
Ratio of Cp to Cm									0.2	

Table G. 17 Methylethyl ketone concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.25	17.34	24	3600	2.27	34.0	77.2	1.0	39
Floor_Joist	I-joist	-0.47	5.33	48	3576	0.12	120.5	14.2	0.2	7
Trim_Window & others	Window trim, door trim & jam	-4.13	1.58E+06	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.03	0.48	2256	1368	0.39	34.0	13.2	0.2	7
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.31	0.28	3072	552	0.28	176.6	48.8	0.6	25
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	5.27	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-2.03	105.00	2544	1080	0.00	702.9	0.1	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.27	0.53	2904	720	0.53	83.3	44.1	0.5	22
Caulking	Caulking for trim	3.69	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									2.5	100
Measured (Cm)									153.7	
Ratio of Cp to Cm									0.0	

Table G. 18 Methylethyl ketone concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.25	17.34	48	4416	2.16	81.3	175.3	0.9	62
Floor_Joist	I-joist	-0.47	5.33	48	4416	0.11	373.4	40.0	0.2	14
Trim_Window & others	Window trim, door trim & jam	-4.13	1.58E+06	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.03	0.48	2232	2232	0.38	28.2	10.8	0.1	4
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.21	0.07	2736	1728	0.07	37.0	2.5	0.0	1
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	-0.06	1.33	3096	1368	0.87	7.5	6.6	0.0	2
Wall_Ceiling_Paint	Painted wall & ceiling	-2.03	105.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.27	0.53	2880	1584	0.53	86.1	45.6	0.2	16
Caulking	Caulking for trim	3.69	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									1.4	100
Measured (Cm)									16.6	
Ratio of Cp to Cm									0.1	

Table G. 19 Acetone concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.15	148.17	24	3600	44.02	34.0	1497.9	18.7	20
Floor_Joist	I-joist	-0.26	49.66	48	3576	5.88	120.5	708.0	8.8	9
Trim_Window & others	Window trim, door trim & jam	-0.47	388.47	2256	1368	13.28	40.7	540.2	6.7	7
Trim_Baseboard	Baseboard trim	-0.02	75.07	2256	1368	63.61	34.0	2161.5	27.0	29
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.17	10.55	3072	552	3.71	176.6	655.8	8.2	9
Floor_Carpet	Carpet floor	-1.76	1348.98	3240	384	0.04	217.1	8.1	0.1	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.27	6.05	3168	456	6.05	11.1	67.2	0.8	1
Wall_Ceiling_Paint	Painted wall & ceiling	-1.97	7461.88	2544	1080	0.01	702.9	5.4	0.1	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.14	49.09	2904	720	19.48	83.3	1622.6	20.2	22
Caulking	Caulking for trim	-0.97	85516.46	2256	1368	76.84	2.8	212.7	2.7	3
Predicted (Cp)									93.3	100
Measured (Cm)									237.6	
Ratio of Cp to Cm									0.4	

Table G. 20 Acetone concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.15	148.17	48	4416	42.70	81.3	3472.5	17.5	23
Floor_Joist	I-joist	-0.26	49.66	48	4416	5.56	373.4	2076.7	10.4	14
Trim_Window & others	Window trim, door trim & jam	-0.47	388.47	2232	2232	10.56	41.4	437.6	2.2	3
Trim_Baseboard	Baseboard trim	-0.02	75.07	2232	2232	62.90	28.2	1775.0	8.9	12
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.34	217.08	3048	1416	18.69	258.8	4836.5	24.3	33
Floor_Carpet	Carpet floor	-1.76	1348.98	3216	1248	4.64E-03	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	-0.23	77.33	2736	1728	13.52	37.0	500.5	2.5	3
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.27	11.54	3096	1368	11.54	7.5	86.6	0.4	1
Wall_Ceiling_Paint	Painted wall & ceiling	-1.97	7461.88	2520	1944	0.00	762.7	1.8	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.14	49.09	2880	1584	17.44	86.1	1501.6	7.5	10
Caulking	Caulking for trim	-0.97	85516.46	2232	2232	47.76	3.0	141.2	0.7	1
Predicted (Cp)									74.5	100
Measured (Cm)									197.0	
Ratio of Cp to Cm									0.4	

Table G. 21 Cyclohexanone concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	16.55	2256	1368	16.55	34.0	562.5	7.0	21
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.24	54.39	3072	552	12.02	176.6	2122.1	26.5	79
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									33.5	100
Measured (Cm)									46.4	
Ratio of Cp to Cm									0.7	

Table G. 22 Cyclohexanone concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	16.55	2232	2232	16.55	28.2	467.2	2.3	29
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.27	32.86	3048	1416	4.51	258.8	1166.9	5.9	71
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									8.2	100
Measured (Cm)									7.5	
Ratio of Cp to Cm									1.1	

Table G. 23 Methylisobutyl ketone concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	-0.31	1.91	48	3576	0.16	120.5	19.0	0.2	51
Trim_Window & others	Window trim, door trim & jam	0.42	0.02	2256	1368	0.02	40.7	0.9	0.0	2
Trim_Baseboard	Baseboard trim	-0.27	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.09	0.39	2904	720	0.21	83.3	17.5	0.2	47
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									0.5	100
Measured (Cm)									15.1	
Ratio of Cp to Cm									0.0	

Table G. 24 Methylisobutyl ketone concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	-0.31	1.91	48	4416	0.15	373.4	55.1	0.3	76
Trim_Window & others	Window trim, door trim & jam	0.42	0.02	2232	2232	0.02	41.4	0.9	0.0	1
Trim_Baseboard	Baseboard trim	-0.27	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.09	0.39	2880	1584	0.20	86.1	16.8	0.1	23
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									0.4	100
Measured (Cm)									1.7	
Ratio of Cp to Cm									0.2	

G.3 Esters and glycols

Table G. 25 “Acetic acid, butyl ester” concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.07	2.44	3072	552	1.54	176.6	271.4	3.4	65
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.19	3.14	2760	864	3.14	38.0	119.6	1.5	29
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.46	5.96	2904	720	0.28	83.3	23.4	0.3	6
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									5.2	100
Measured (Cm)									498.7	
Ratio of Cp to Cm									0.0	

Table G. 26 “Acetic acid, butyl ester” concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.46	5.96	2880	1584	0.19	86.1	16.8	0.1	100
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									0.1	100
Measured (Cm)									78.3	
Ratio of Cp to Cm									0.0	

Table G. 27 “Acetic acid, ethyl ester” concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.41	4.26	24	3600	0.15	34.0	5.1	0.1	5
Floor_Joist	I-joist	-0.51	13.33	48	3576	0.20	120.5	24.5	0.3	22
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.25	0.26	3072	552	0.26	176.6	45.2	0.6	41
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.32	0.16	2904	720	0.16	83.3	12.9	0.2	12
Caulking	Caulking for trim	-1.04	14981.72	2256	1368	8.12	2.8	22.5	0.3	20
Predicted (Cp)									1.4	100
Measured (Cm)									291.5	
Ratio of Cp to Cm									0.0	

Table G. 28 “Acetic acid, ethyl ester” concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.41	4.26	48	4416	0.14	81.3	11.2	0.1	10
Floor_Joist	I-joist	-0.51	13.33	48	4416	0.18	373.4	68.3	0.3	64
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.32	0.16	2880	1584	0.16	86.1	13.4	0.1	12
Caulking	Caulking for trim	-1.04	14981.72	2232	2232	4.87	3.0	14.4	0.1	13
Predicted (Cp)									0.5	100
Measured (Cm)									46.8	
Ratio of Cp to Cm									0.0	

Table G. 29 Texanol concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF ($mg\ m^{-2}\ h^{-1}$)	A (m^2)	EF*A ($\mu g\ h^{-1}$)	C ($\mu g\ m^{-3}$)	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.11	467.44	2256	1368	467.44	34.0	15884.4	198.1	83
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-1.77	1.08E+06	2544	1080	4.71	702.9	3314.2	41.3	17
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									239.4	100
Measured (Cm)									133.7	
Ratio of Cp to Cm									1.8	

Table G. 30 Texanol concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF ($mg\ m^{-2}\ h^{-1}$)	A (m^2)	EF*A ($\mu g\ h^{-1}$)	C ($\mu g\ m^{-3}$)	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.11	467.44	2232	2232	467.44	28.2	13191.7	66.3	91
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-1.77	1.08E+06	2520	1944	1.67	762.7	1273.0	6.4	9
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									72.7	100
Measured (Cm)									57.3	
Ratio of Cp to Cm									1.3	

Table G. 31 “Propanol, 1-methoxy-2-” concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.12	1.73	2760	864	1.73	38.0	65.7	0.8	100
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									0.8	100
Measured (Cm)									114.4	
Ratio of Cp to Cm									0.0	

Table G. 32 “Propanol, 1-methoxy-2-” concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	
Predicted (Cp)									0.0	
Measured (Cm)									2.8	
Ratio of Cp to Cm									0.0	

Table G. 33 “Propanol, 2-methyl-2-” concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.05	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	3.24	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-0.39	3.59	2544	1080	0.23	702.9	164.3	2.0	20
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.25	23.20	2904	720	4.49	83.3	373.8	4.7	45
Caulking	Caulking for trim	-1.26	9.77E+05	2256	1368	107.56	2.8	297.7	3.7	36
Predicted (Cp)									10.4	100
Measured (Cm)									24.1	
Ratio of Cp to Cm									0.4	

Table G. 34 “Propanol, 2-methyl-2-” concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.05	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	-5.29	3.75E+09	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-0.39	3.59	2520	1944	0.19	762.7	141.7	0.7	22
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.25	23.20	2880	1584	3.69	86.1	317.4	1.6	50
Caulking	Caulking for trim	-1.26	9.77E+05	2232	2232	57.99	3.0	171.4	0.9	27
Predicted (Cp)									3.2	100
Measured (Cm)									3.1	
Ratio of Cp to Cm									1.0	

G.4 Terpenes

Table G. 35 Alpha-pinene concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-3.72	2.05E+06	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	-0.64	7343.85	48	3576	38.09	120.5	4589.1	57.2	67
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	14.99	2064	1560	14.99	71.9	1078.3	13.4	16
Floor_Hardwood	Hardwood floor (HWF2)	-5.79	4.00E+08	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	-1.05	39.17	2760	864	0.03	38.0	1.2	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.05	13.63	2904	720	13.63	83.3	1134.8	14.2	17
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									84.8	100
Measured (Cm)									557.2	
Ratio of Cp to Cm									0.2	

Table G. 36 Alpha-pinene concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-3.72	2.05E+06	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	-0.64	7343.85	48	4416	33.26	373.4	12418.6	62.4	1
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	14.99	2064	2400	14.99	70.4	1055.1	5.3	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.12	11769.98	3048	1416	5098.03	258.8	1319242.1	6631.3	99
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	-0.07	1.12	2736	1728	0.66	37.0	24.4	0.1	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	-0.36	1.49	3096	1368	0.11	7.5	0.8	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.05	13.63	2880	1584	13.63	86.1	1173.1	5.9	0
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									6705.0	100
Measured (Cm)									1460.7	
Ratio of Cp to Cm									4.6	

Table G. 37 Beta-pinene concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	-0.68	1295.68	48	3576	5.00	120.5	601.9	7.5	73
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.02	1.60	2064	1560	1.60	71.9	115.4	1.4	14
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00E+00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	-4.55	1.53E+07	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.14	3.17	2904	720	1.25	83.3	104.4	1.3	13
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									10.2	100
Measured (Cm)									106.6	
Ratio of Cp to Cm									0.1	

Table G. 38 Beta-pinene concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	-0.68	1295.68	48	3576	5.00	120.5	601.9	7.5	73
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.02	1.60	2064	1560	1.60	71.9	115.4	1.4	14
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00E+00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	-4.55	1.53E+07	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.14	3.17	2904	720	1.25	83.3	104.4	1.3	13
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									10.2	100
Measured (Cm)									106.6	
Ratio of Cp to Cm									0.1	

Table G. 39 3-Carene concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	-0.58	42.00	48	3576	0.37	120.5	44.1	0.6	85
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	-4.58	1.53E+06	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.48	0.10	2904	720	0.10	83.3	8.0	0.1	15
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									0.6	100
Measured (Cm)									68.8	
Ratio of Cp to Cm									0.0	

Table G. 40 3-Carene concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	-0.58	42.00	48	4416	0.32	373.4	121.0	0.6	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	-4.58	1.53E+06	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.18	534.30	3048	1416	145.87	258.8	37747.4	189.7	100
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.48	0.10	2880	1584	0.10	86.1	8.3	0.0	0
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									190.4	100
Measured (Cm)									289.9	
Ratio of Cp to Cm									0.7	

Table G. 41 Camphene concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	-0.73	212.91	48	3576	0.53	120.5	64.3	0.8	55
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	-3.40	2.15E+05	3240	384	0.00	217.1	0.1	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.20	0.63	2904	720	0.63	83.3	52.2	0.7	45
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									1.5	100
Measured (Cm)									14.3	
Ratio of Cp to Cm									0.1	

Table G. 42 Camphene concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	-0.73	212.91	48	4416	0.46	373.4	170.9	0.9	1
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.11	212.54	3048	1416	97.37	258.8	25196.8	126.7	99
Floor_Carpet	Carpet floor	-3.40	2.15E+05	3216	1248	6.24E-06	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.20	0.63	2880	1584	0.63	86.1	53.9	0.3	0
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									127.8	100
Measured (Cm)									55.0	
Ratio of Cp to Cm									2.3	

Table G. 43 Limonene concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	-0.48	255.13	48	3576	5.04	120.5	607.2	7.6	85
Trim_Window & others	Window trim, door trim & jam	-4.10	1.02E+05	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.01	1.30	2064	1560	1.30	71.9	93.7	1.2	13
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	-5.64	1.85E+09	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.81	0.11	2904	720	0.11	83.3	9.5	0.1	1
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									8.9	100
Measured (Cm)									58.4	
Ratio of Cp to Cm									0.2	

Table G. 44 Limonene concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	-0.48	255.13	48	4416	4.55	373.4	1700.7	8.5	3
Trim_Window & others	Window trim, door trim & jam	-4.10	1.02E+05	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.01	1.30	2064	2400	1.30	70.4	91.7	0.5	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.02	219.67	3048	1416	184.50	258.8	47743.2	240.0	96
Floor_Carpet	Carpet floor	-5.64	1.85E+09	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.81	0.11	2880	1584	0.11	86.1	9.8	0.0	0
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									249.0	100
Measured (Cm)									110.8	
Ratio of Cp to Cm									2.2	

G.5 Aliphatic hydrocarbons

Table G. 45 Decane concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-6.25	6.32E+09	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	-0.72	2322.46	2256	1368	12.53	2.8	34.7	0.4	100
Predicted (Cp)									0.4	100
Measured (Cm)									58.8	
Ratio of Cp to Cm									0.0	

Table G. 46 Decane concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-6.25	6.32E+09	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.0000	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00E+00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	-0.72	2322.46	2232	2232	8.79	3.0	26.0	0.1	100
Predicted (Cp)									0.1	100
Measured (Cm)									35.5	
Ratio of Cp to Cm									0.0	

Table G. 47 Dodecane concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.25	0.67	24	3600	0.09	34.0	2.9	0.0	100
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	-5.64	9.56E+08	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	-4.41	8.27E+08	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									0.0	100
Measured (Cm)									20.0	
Ratio of Cp to Cm									0.0	

Table G. 48 Dodecane concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.25	0.67	48	4416	0.08	81.3	6.6	0.0	100
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	-5.64	9.56E+08	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	-4.41	8.27E+08	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									0.0	100
Measured (Cm)									23.3	
Ratio of Cp to Cm									0.0	

Table G. 49 Hexane concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.86	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	-0.04	1.18	48	3576	0.86	120.5	103.5	1.3	74
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.05	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-1.01	341.70	2904	720	0.45	83.3	37.2	0.5	26
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									1.8	100
Measured (Cm)									10.9	
Ratio of Cp to Cm									0.2	

Table G. 50 Hexane concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.86	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	-0.04	1.18	48	4416	0.85	373.4	318.1	1.6	95
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.05	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-1.01	341.70	2880	1584	0.20	86.1	17.4	0.1	5
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									1.7	100
Measured (Cm)									12.5	
Ratio of Cp to Cm									0.1	

Table G. 51 Nonane concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-4.27	4.12E+06	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	-0.71	2175.36	2256	1368	12.46	2.8	34.5	0.4	100
Predicted (Cp)									0.4	100
Measured (Cm)									16.1	
Ratio of Cp to Cm									0.0	

Table G. 52 Nonane concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-4.27	4.12E+06	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	-0.71	2175.36	2232	2232	8.78	3.0	26.0	0.1	100
Predicted (Cp)									0.1	100
Measured (Cm)									10.7	
Ratio of Cp to Cm									0.0	

Table G. 53 Undecane concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF ($mg\ m^{-2}\ h^{-1}$)	A (m^2)	EF*A ($\mu g\ h^{-1}$)	C ($\mu g\ m^{-3}$)	Contribution (%)
Floor_OSB	OSB subfloor	-0.37	5.05	24	3600	0.24	34.0	8.0	0.1	50
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	-0.66	335.29	2256	1368	2.92	2.8	8.1	0.1	50
Predicted (Cp)									0.2	100
Measured (Cm)									52.0	
Ratio of Cp to Cm									0.0	

Table G. 54 Undecane concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF ($mg\ m^{-2}\ h^{-1}$)	A (m^2)	EF*A ($\mu g\ h^{-1}$)	C ($\mu g\ m^{-3}$)	Contribution (%)
Floor_OSB	OSB subfloor	-0.37	5.05	48	4416	0.22	81.3	17.8	0.1	74
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	-0.66	335.29	2232	2232	2.12	3.0	6.3	0.0	26
Predicted (Cp)									0.1	100
Measured (Cm)									38.6	
Ratio of Cp to Cm									0.0	

G.6 Aromatic hydrocarbons

Table G. 55 “Benzene, 1,2,4,5-tetramethyl-” concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	-5.39	4.13E+08	3240	384	0.00	217.1	0.0	0.0	100
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									0.0	100
Measured (Cm)									27.9	
Ratio of Cp to Cm									0.0	

Table G. 56 “Benzene, 1,2,4,5-tetramethyl-” concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	
Floor_Carpet	Carpet floor	-5.39	4.13E+08	3216	1248	0.00	0.0	0.0	0.0	
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	
Predicted (Cp)									0.0	
Measured (Cm)									4.9	
Ratio of Cp to Cm									0.0	

Table G. 57 “Toluene, 3-ethyl-” concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	-5.50	8.35E+08	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.28	0.03	2904	720	0.03	83.3	2.7	0.0	100
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									0.0	100
Measured (Cm)									26.5	
Ratio of Cp to Cm									0.0	

Table G. 58 “Toluene, 3-ethyl-” concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.14	0.12	3048	1416	0.12	258.8	32.0	0.2	92
Floor_Carpet	Carpet floor	-5.50	8.35E+08	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.28	0.03	2880	1584	0.03	86.1	2.8	0.0	8
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									0.2	100
Measured (Cm)									2.1	
Ratio of Cp to Cm									0.1	

Table G. 59 “Toluene, 4-ethyl-” concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.30	0.01	2904	720	0.01	83.3	1.2	0.0	100
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									0.0	100
Measured (Cm)									11.1	
Ratio of Cp to Cm									0.0	

Table G. 60 “Toluene, 4-ethyl-” concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.30	0.01	2880	1584	0.01	86.1	1.3	0.0	100
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									0.0	100
Measured (Cm)									1.0	
Ratio of Cp to Cm									0.0	

Table G. 61 “Benzene, 1,2,3-trimethyl-” concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	
Predicted (Cp)									0.0	
Measured (Cm)									12.8	
Ratio of Cp to Cm									0.0	

Table G. 62 “Benzene, 1,2,3-trimethyl-” concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-1.07	105.16	3048	1416	0.05	258.8	11.9	0.1	100
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									0.1	100
Measured (Cm)									3.0	
Ratio of Cp to Cm									0.0	

Table G. 63 “Benzene, 1,2,4-trimethyl-” concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	-5.21	2.68E+08	3240	384	0.00	217.1	0.0	0.0	100
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									0.0	100
Measured (Cm)									51.5	
Ratio of Cp to Cm									0.0	

Table G. 64 “Benzene, 1,2,4-trimethyl-” concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.15	1.81	3048	1416	0.62	258.8	161.7	0.8	100
Floor_Carpet	Carpet floor	-5.21	2.68E+08	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.0000	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									0.8	100
Measured (Cm)									5.8	
Ratio of Cp to Cm									0.1	

Table G. 65 “Benzene, 1,2-dimethyl-” concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.12	1.53	3072	552	0.73	176.6	129.1	1.6	89
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-4.95	5.74E+07	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.21	0.19	2904	720	0.19	83.3	16.1	0.2	11
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									1.8	100
Measured (Cm)									63.0	
Ratio of Cp to Cm									0.0	

Table G. 66 “Benzene, 1,2-dimethyl-” concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-4.95	5.74E+07	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.21	0.19	2880	1584	0.19	86.1	16.6	0.1	100
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									0.1	100
Measured (Cm)									10.1	
Ratio of Cp to Cm									0.0	

Table G. 67 “Benzene, 1,3,5-trimethyl-” concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	-5.34	2.92E+08	3240	384	0.00	217.1	0.0	0.0	100
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									0.0	100
Measured (Cm)									16.3	
Ratio of Cp to Cm									0.0	

Table G. 68 “Benzene, 1,3,5-trimethyl-” concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	
Floor_Carpet	Carpet floor	-5.34	2.92E+08	3216	1248	0.00	0.0	0.0	0.0	
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	
Predicted (Cp)									0.0	
Measured (Cm)										
Ratio of Cp to Cm										

Table G. 69 “Benzene, 1,3- & 1,4-dimethyl-” concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF ($mg\ m^{-2}\ h^{-1}$)	A (m^2)	EF*A ($\mu g\ h^{-1}$)	C ($\mu g\ m^{-3}$)	Contribution (%)
Floor_OSB	OSB subfloor	-0.33	0.36	24	3600	0.02	34.0	0.8	0.0	0
Floor_Joist	I-joist	-0.31	0.13	48	3576	0.01	120.5	1.3	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.07	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.11	4.66	3072	552	2.29	176.6	404.9	5.0	86
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-4.12	2.05E+06	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.19	0.68	2904	720	0.68	83.3	57.0	0.7	12
Caulking	Caulking for trim	-0.10	3.64	2256	1368	1.77	2.8	4.9	0.1	1
Predicted (Cp)									5.8	100
Measured (Cm)									154.9	
Ratio of Cp to Cm									0.0	

Table G. 70 “Benzene, 1,3- & 1,4-dimethyl-” concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF ($mg\ m^{-2}\ h^{-1}$)	A (m^2)	EF*A ($\mu g\ h^{-1}$)	C ($\mu g\ m^{-3}$)	Contribution (%)
Floor_OSB	OSB subfloor	-0.33	0.36	48	4416	0.02	81.3	1.8	0.0	1
Floor_Joist	I-joist	-0.31	0.13	48	4416	0.01	373.4	3.8	0.0	2
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.07	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.01	0.45	3048	1416	0.42	258.8	109.7	0.6	60
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.11	0.09	2736	1728	0.09	37.0	3.3	0.0	2
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.74	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-4.12	2.05E+06	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.19	0.68	2880	1584	0.68	86.1	58.9	0.3	32
Caulking	Caulking for trim	-0.10	3.64	2232	2232	1.68	3.0	5.0	0.0	3
Predicted (Cp)									0.9	100
Measured (Cm)									27.8	
Ratio of Cp to Cm									0.0	

Table G. 71 Ethylbenzene concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.14	0.09	24	3600	0.03	34.0	0.9	0.0	1
Floor_Joist	I-joist	-0.36	0.03	48	3576	0.00	120.5	0.2	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.03	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.09	1.42	3072	552	0.80	176.6	140.6	1.8	81
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-1.29	24.25	2544	1080	0.00	702.9	2.1	0.0	1
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.15	0.36	2904	720	0.36	83.3	30.0	0.4	17
Caulking	Caulking for trim	-1.91	1928.88	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									2.2	100
Measured (Cm)									39.1	
Ratio of Cp to Cm									0.1	

Table G. 72 Ethylbenzene concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.14	0.09	48	4416	0.03	81.3	2.1	0.0	4
Floor_Joist	I-joist	-0.36	0.03	48	4416	0.00	373.4	0.6	0.0	1
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.03	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.39	1.02	3048	1416	0.06	258.8	15.0	0.1	30
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	-3.12	4469.93	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-1.29	24.25	2520	1944	0.00	762.7	1.1	0.0	2
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.15	0.36	2880	1584	0.36	86.1	31.0	0.2	62
Caulking	Caulking for trim	-1.91	1928.88	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									0.3	100
Measured (Cm)									8.5	
Ratio of Cp to Cm									0.0	

Table G. 73 Styrene concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.14	0.19	24	3600	0.06	34.0	2.0	0.0	0
Floor_Joist	I-joist	-0.18	0.34	48	3576	0.08	120.5	9.5	0.1	2
Trim_Window & others	Window trim, door trim & jam	-0.11	0.20	2256	1368	0.09	40.7	3.8	0.0	1
Trim_Baseboard	Baseboard trim	0.00	0.34	2256	1368	0.34	34.0	11.7	0.1	2
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.11	5.83	3072	552	2.93	176.6	517.0	6.4	88
Floor_Carpet	Carpet floor	-0.55	5.33	3240	384	0.20	217.1	44.2	0.6	7
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.84	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-5.83	1.20E+09	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.25	0.03	2904	720	0.03	83.3	2.4	0.0	0
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									7.4	100
Measured (Cm)									15.1	
Ratio of Cp to Cm									0.5	

Table G. 74 Styrene concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.14	0.19	48	4416	0.06	81.3	4.6	0.0	4
Floor_Joist	I-joist	-0.18	0.34	48	4416	0.08	373.4	28.4	0.1	23
Trim_Window & others	Window trim, door trim & jam	-0.11	0.20	2232	2232	0.09	41.4	3.6	0.0	3
Trim_Baseboard	Baseboard trim	0.00	0.34	2232	2232	0.34	28.2	9.7	0.0	8
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.02	0.28	3048	1416	0.28	258.8	72.0	0.4	60
Floor_Carpet	Carpet floor	-0.55	5.33	3216	1248	0.11	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-5.83	1.20E+09	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.25	0.03	2880	1584	0.03	86.1	2.5	0.0	2
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									0.6	100
Measured (Cm)									1.9	
Ratio of Cp to Cm									0.3	

Table G. 75 Toluene concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.37	1.23	24	3600	0.06	34.0	2.0	0.0	1
Floor_Joist	I-joist	-2.13	1916.14	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.28	0.01	2256	1368	0.01	40.7	0.5	0.0	0
Trim_Baseboard	Baseboard trim	-0.12	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	2.22	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.13	2.46	3072	552	1.11	176.6	195.3	2.4	60
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.10	0.00	3168	456	0.00	11.1	0.1	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.11	3.09	2904	720	1.53	83.3	127.4	1.6	39
Caulking	Caulking for trim	-2.28	370.56	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									4.1	100
Measured (Cm)									790.3	
Ratio of Cp to Cm									0.0	

Table G. 76 Toluene concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.37	1.23	48	4416	0.05	81.3	4.3	0.0	0
Floor_Joist	I-joist	-2.13	1916.14	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.28	0.01	2232	2232	0.01	41.4	0.5	0.0	0
Trim_Baseboard	Baseboard trim	-0.12	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	2.22	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.08	7.37	3048	1416	4.07	258.8	1053.2	5.3	89
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	-2.18	1097.18	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	-1.5100	89.27	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.11	3.09	2880	1584	1.41	86.1	121.1	0.6	10
Caulking	Caulking for trim	-2.28	370.56	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									5.9	100
Measured (Cm)									276.1	
Ratio of Cp to Cm									0.0	

G.7 Others

Table G. 77 Acetic acid concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.11	3170.37	24	3600	1303.45	34.0	44355.0	553.2	49
Floor_Joist	I-joist	-0.28	1638.80	48	3576	169.21	120.5	20385.2	254.2	22
Trim_Window & others	Window trim, door trim & jam	-0.02	241.07	2256	1368	201.59	40.7	8203.1	102.3	9
Trim_Baseboard	Baseboard trim	-0.06	312.31	2256	1368	206.41	34.0	7014.1	87.5	8
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.52	1.67	3072	552	1.67	176.6	295.0	3.7	0
Floor_Carpet	Carpet floor	-4.04	5.40E+05	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	6.35	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	4.36	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	4.81	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.33	1126.15	2904	720	127.19	83.3	10592.4	132.1	12
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									1133.0	100
Measured (Cm)									656.3	
Ratio of Cp to Cm									1.7	

Table G. 78 Acetic acid concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.11	3170.37	48	4416	1274.86	81.3	103666.4	521.1	54
Floor_Joist	I-joist	-0.28	1638.80	48	4416	159.59	373.4	59587.8	299.5	31
Trim_Window & others	Window trim, door trim & jam	-0.02	241.07	2232	2232	199.16	41.4	8252.5	41.5	4
Trim_Baseboard	Baseboard trim	-0.06	312.31	2232	2232	200.69	28.2	5663.8	28.5	3
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.05	23.49	3048	1416	16.51	258.8	4272.9	21.5	2
Floor_Carpet	Carpet floor	-4.04	5.40E+05	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	-0.20	92.72	2736	1728	20.93	37.0	774.7	3.9	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.31	19.40	3096	1368	19.40	7.5	145.5	0.7	0
Wall_Ceiling_Paint	Painted wall & ceiling	4.81	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.33	1126.15	2880	1584	97.93	86.1	8431.9	42.4	4
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									959.0	100
Measured (Cm)									463.7	
Ratio of Cp to Cm									2.1	

Table G. 79 “Furan, 2-pentyl” concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.39	128.82	24	3600	5.18	34.0	176.2	2.2	53
Floor_Joist	I-joist	-0.71	94.66	48	3576	0.27	120.5	32.9	0.4	10
Trim_Window & others	Window trim, door trim & jam	-0.36	6.61	2256	1368	0.50	40.7	20.4	0.3	6
Trim_Baseboard	Baseboard trim	-0.29	0.03	2256	1368	0.00	34.0	0.1	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.21	4.94	2904	720	1.26	83.3	105.3	1.3	31
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Predicted (Cp)									4.2	100
Measured (Cm)									13.1	
Ratio of Cp to Cm									0.3	

Table G. 80 “Furan, 2-pentyl” concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.39	128.82	48	4416	4.78	81.3	388.6	2.0	66
Floor_Joist	I-joist	-0.71	94.66	48	4416	0.23	373.4	87.7	0.4	15
Trim_Window & others	Window trim, door trim & jam	-0.36	6.61	2232	2232	0.42	41.4	17.4	0.1	3
Trim_Baseboard	Baseboard trim	-0.29	0.03	2232	2232	0.00	28.2	0.1	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.21	4.94	2880	1584	1.07	86.1	92.5	0.5	16
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Predicted (Cp)									2.9	100
Measured (Cm)									4.1	
Ratio of Cp to Cm									0.7	

Table G. 81 Butyl ether concentration at steady state in H1

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.03	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-0.43	79.26	2544	1080	3.80	702.9	2673.3	33.3	96
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.23	1.12	2904	720	1.12	83.3	93.0	1.2	3
Caulking	Caulking for trim	-0.77	1024.46	2256	1368	3.82	2.8	10.6	0.1	0
Predicted (Cp)									34.6	100
Measured (Cm)									21.7	
Ratio of Cp to Cm									1.6	

Table G. 82 Butyl ether concentration at steady state in H2

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.03	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-0.43	79.26	2520	1944	2.95	762.7	2246.6	11.3	96
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.23	1.12	2880	1584	1.12	86.1	96.1	0.5	4
Caulking	Caulking for trim	-0.77	1024.46	2232	2232	2.61	3.0	7.7	0.0	0
Predicted (Cp)									11.8	100
Measured (Cm)									2.6	
Ratio of Cp to Cm									4.5	

G.8 Aliphatic hydrocarbons with an additional oil-based source

Table G. 83 Decane concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-6.25	6.32E+09	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	-0.72	2322.46	2256	1368	12.53	2.8	34.7	0.4	0
Additional Surface	Oil-based polyurethane (UR9)	-1.54	2.53E+06	3600	24	19266.51	1.0	19266.5	240.3	100
Predicted (Cp)									240.7	100
Measured (Cm)									58.8	
Ratio of Cp to Cm									4.1	

Table G. 84 Decane concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-6.25	6.32E+09	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.0000	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00E+00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	-0.72	2322.46	2232	2232	8.79	3.0	26.0	0.1	0
Additional Surface	Oil-based polyurethane (UR9)	-1.54	2.53E+06	4440	24	19266.51	1.0	19266.5	96.8	100
Predicted (Cp)									97.0	100
Measured (Cm)									35.5	
Ratio of Cp to Cm									2.7	

Table G. 85 Dodecane concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.25	0.67	24	3600	0.09	34.0	2.9	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	-5.64	9.56E+08	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	-4.41	8.27E+08	2256	1368	0.00	2.8	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.11	4.59E+04	3600	24	1365.81	1.0	1365.8	17.0	100
Predicted (Cp)									17.1	100
Measured (Cm)									20.0	
Ratio of Cp to Cm									0.9	

Table G. 86 Dodecane concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.25	0.67	48	4416	0.08	81.3	6.6	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	-5.64	9.56E+08	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	-4.41	8.27E+08	2232	2232	0.00	3.0	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.11	4.59E+04	4440	24	1365.81	1.0	1365.8	6.9	100
Predicted (Cp)									6.9	100
Measured (Cm)									23.3	
Ratio of Cp to Cm									0.3	

Table G. 87 Hexane concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.86	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	-0.04	1.18	48	3576	0.86	120.5	103.5	1.3	61
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.05	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-1.01	341.70	2904	720	0.45	83.3	37.2	0.5	22
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.34	2.12E+03	3600	24	30.25	1.0	30.2	0.4	18
Predicted (Cp)									2.1	100
Measured (Cm)									10.9	
Ratio of Cp to Cm									0.2	

Table G. 88 Hexane concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.86	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	-0.04	1.18	48	4416	0.85	373.4	318.1	1.6	87
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.05	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-1.01	341.70	2880	1584	0.20	86.1	17.4	0.1	5
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.34	2.12E+03	4440	24	30.25	1.0	30.2	0.2	8
Predicted (Cp)									1.8	100
Measured (Cm)									12.5	
Ratio of Cp to Cm									0.1	

Table G. 89 Nonane concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-4.27	4.12E+06	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	-0.71	2175.36	2256	1368	12.46	2.8	34.5	0.4	1
Additional Surface	Oil-based polyurethane (UR9)	-1.55	7.11E+05	3600	24	5239.57	1.0	5239.6	65.3	99
Predicted (Cp)									65.8	100
Measured (Cm)									16.1	
Ratio of Cp to Cm									4.1	

Table G. 90 Nonane concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-4.27	4.12E+06	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	-0.71	2175.36	2232	2232	8.78	3.0	26.0	0.1	0
Additional Surface	Oil-based polyurethane (UR9)	-1.55	7.11E+05	4440	24	5239.57	1.0	5239.6	26.3	100
Predicted (Cp)									26.5	100
Measured (Cm)									10.7	
Ratio of Cp to Cm									2.5	

Table G. 91 Undecane concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.37	5.05	24	3600	0.24	34.0	8.0	0.1	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	-0.66	335.29	2256	1368	2.92	2.8	8.1	0.1	0
Additional Surface	Oil-based polyurethane (UR9)	-1.53	1.07E+06	3600	24	8321.52	1.0	8321.5	103.8	100
Predicted (Cp)									104.0	100
Measured (Cm)									52.0	
Ratio of Cp to Cm									2.0	

Table G. 92 Undecane concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.37	5.05	48	4416	0.22	81.3	17.8	0.1	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	-0.66	335.29	2232	2232	2.12	3.0	6.3	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.53	1.07E+06	4440	24	8321.52	1.0	8321.5	41.8	100
Predicted (Cp)									41.9	100
Measured (Cm)									38.6	
Ratio of Cp to Cm									1.1	

G.9 Aromatic hydrocarbons with an additional oil-based source

Table G. 93 "Benzene, 1,2,4,5-tetramethyl-" concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	-5.39	4.13E+08	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.31	1.17E+03	3600	24	18.38	1.0	18.4	0.2	100
Predicted (Cp)									0.2	100
Measured (Cm)									27.9	
Ratio of Cp to Cm									0.0	

Table G. 94 "Benzene, 1,2,4,5-tetramethyl-" concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	-5.39	4.13E+08	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.31	1.17E+03	4440	24	18.38	1.0	18.4	0.1	100
Predicted (Cp)									0.1	100
Measured (Cm)									4.9	
Ratio of Cp to Cm									0.0	

Table G. 95 "Toluene, 3-ethyl-" concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	-5.50	8.35E+08	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.28	0.03	2904	720	0.03	83.3	2.7	0.0	0
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.59	3.50E+05	3600	24	2240.86	1.0	2240.9	27.9	100
Predicted (Cp)									28.0	100
Measured (Cm)									26.5	
Ratio of Cp to Cm									1.1	

Table G. 96 "Toluene, 3-ethyl-" concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.14	0.12	3048	1416	0.12	258.8	32.0	0.2	1
Floor_Carpet	Carpet floor	-5.50	8.35E+08	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.28	0.03	2880	1584	0.03	86.1	2.8	0.0	0
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.59	3.50E+05	4440	24	2240.86	1.0	2240.9	11.3	98
Predicted (Cp)									11.4	100
Measured (Cm)									2.1	
Ratio of Cp to Cm									5.4	

Table G. 97 "Toluene, 4-ethyl-" concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.30	0.01	2904	720	0.01	83.3	1.2	0.0	0
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.45	1.08E+05	3600	24	1070.75	1.0	1070.7	13.4	100
Predicted (Cp)									13.4	100
Measured (Cm)									11.1	
Ratio of Cp to Cm									1.2	

Table G. 98 "Toluene, 4-ethyl-" concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.30	0.01	2880	1584	0.01	86.1	1.3	0.0	0
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.45	1.08E+05	4440	24	1070.75	1.0	1070.7	5.4	100
Predicted (Cp)									5.4	100
Measured (Cm)									1.0	
Ratio of Cp to Cm									5.2	

Table G. 99 "Benzene, 1,2,3-trimethyl-" concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.53	9.77E+04	3600	24	766.70	1.0	766.7	9.6	100
Predicted (Cp)									9.6	100
Measured (Cm)									12.8	
Ratio of Cp to Cm									0.7	

Table G. 100 "Benzene, 1,2,3-trimethyl-" concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-1.07	105.16	3048	1416	0.05	258.8	11.9	0.1	2
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.53	9.77E+04	4440	24	766.70	1.0	766.7	3.9	98
Predicted (Cp)									3.9	100
Measured (Cm)									3.0	
Ratio of Cp to Cm									1.3	

Table G. 101 "Benzene, 1,2,4-trimethyl-" concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	-5.21	2.68E+08	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.54	5.19E+05	3600	24	3829.13	1.0	3829.1	47.8	100
Predicted (Cp)									47.8	100
Measured (Cm)									51.5	
Ratio of Cp to Cm									0.9	

Table G. 102 "Benzene, 1,2,4-trimethyl-" concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.15	1.81	3048	1416	0.62	258.8	161.7	0.8	4
Floor_Carpet	Carpet floor	-5.21	2.68E+08	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.0000	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.54	5.19E+05	4440	24	3829.13	1.0	3829.1	19.2	96
Predicted (Cp)									20.1	100
Measured (Cm)									5.8	
Ratio of Cp to Cm									3.5	

Table G. 103 "Benzene, 1,2-dimethyl-" concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.12	1.53	3072	552	0.73	176.6	129.1	1.6	28
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-4.95	5.74E+07	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.21	0.19	2904	720	0.19	83.3	16.1	0.2	4
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.53	3.97E+04	3600	24	310.15	1.0	310.1	3.9	68
Predicted (Cp)									5.7	100
Measured (Cm)									63.0	
Ratio of Cp to Cm									0.1	

Table G. 104 "Benzene, 1,2-dimethyl-" concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-4.95	5.74E+07	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.21	0.19	2880	1584	0.19	86.1	16.6	0.1	5
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.53	3.97E+04	4440	24	310.15	1.0	310.1	1.6	95
Predicted (Cp)									1.6	100
Measured (Cm)									10.1	
Ratio of Cp to Cm									0.2	

Table G. 105 "Benzene, 1,3,5-trimethyl-" concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	24	3600	0.00	34.0	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3072	552	0.00	176.6	0.0	0.0	0
Floor_Carpet	Carpet floor	-5.34	2.92E+08	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2904	720	0.00	83.3	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.55	1.44E+05	3600	24	1047.99	1.0	1048.0	13.1	100
Predicted (Cp)									13.1	100
Measured (Cm)									16.3	
Ratio of Cp to Cm									0.8	

Table G. 106 "Benzene, 1,3,5-trimethyl-" concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	0.00	0.00	48	4416	0.00	81.3	0.0	0.0	0
Floor_Joist	I-joist	0.00	0.00	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	0.00	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.00	0.00	3048	1416	0.00	258.8	0.0	0.0	0
Floor_Carpet	Carpet floor	-5.34	2.92E+08	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.00	0.00	2880	1584	0.00	86.1	0.0	0.0	0
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.55	1.44E+05	4440	24	1047.99	1.0	1048.0	5.3	100
Predicted (Cp)									5.3	100
Measured (Cm)									0.0	
Ratio of Cp to Cm										

Table G. 107 "Benzene, 1,3- & 1,4-dimethyl-" concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.33	0.36	24	3600	0.02	34.0	0.8	0.0	0
Floor_Joist	I-joist	-0.31	0.13	48	3576	0.01	120.5	1.3	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.07	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.11	4.66	3072	552	2.29	176.6	404.9	5.0	14
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-4.12	2.05E+06	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.19	0.68	2904	720	0.68	83.3	57.0	0.7	2
Caulking	Caulking for trim	-0.10	3.64	2256	1368	1.77	2.8	4.9	0.1	0
Additional Surface	Oil-based polyurethane (UR9)	-1.51	2.86E+05	3600	24	2340.06	1.0	2340.1	29.2	83
Predicted (Cp)									35.0	100
Measured (Cm)									154.9	
Ratio of Cp to Cm									0.2	

Table G. 108 "Benzene, 1,3- & 1,4-dimethyl-" concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.33	0.36	48	4416	0.02	81.3	1.8	0.0	0
Floor_Joist	I-joist	-0.31	0.13	48	4416	0.01	373.4	3.8	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.07	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.01	0.45	3048	1416	0.42	258.8	109.7	0.6	4
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.11	0.09	2736	1728	0.09	37.0	3.3	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.74	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-4.12	2.05E+06	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.19	0.68	2880	1584	0.68	86.1	58.9	0.3	2
Caulking	Caulking for trim	-0.10	3.64	2232	2232	1.68	3.0	5.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.51	2.86E+05	4440	24	2340.06	1.0	2340.1	11.8	93
Predicted (Cp)									12.7	100
Measured (Cm)									27.8	
Ratio of Cp to Cm									0.5	

Table G. 109 Ethylbenzene concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.14	0.09	24	3600	0.03	34.0	0.9	0.0	0
Floor_Joist	I-joist	-0.36	0.03	48	3576	0.00	120.5	0.2	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2256	1368	0.00	40.7	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.03	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.09	1.42	3072	552	0.80	176.6	140.6	1.8	22
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-1.29	24.25	2544	1080	0.00	702.9	2.1	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.15	0.36	2904	720	0.36	83.3	30.0	0.4	5
Caulking	Caulking for trim	-1.91	1928.88	2256	1368	0.00	2.8	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.53	6.11E+04	3600	24	478.75	1.0	478.7	6.0	73
Predicted (Cp)									8.1	100
Measured (Cm)									39.1	
Ratio of Cp to Cm									0.2	

Table G. 110 Ethylbenzene concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.14	0.09	48	4416	0.03	81.3	2.1	0.0	0
Floor_Joist	I-joist	-0.36	0.03	48	4416	0.00	373.4	0.6	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.00	0.00	2232	2232	0.00	41.4	0.0	0.0	0
Trim_Baseboard	Baseboard trim	-0.03	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.39	1.02	3048	1416	0.06	258.8	15.0	0.1	3
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	-3.12	4469.93	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-1.29	24.25	2520	1944	0.00	762.7	1.1	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.15	0.36	2880	1584	0.36	86.1	31.0	0.2	6
Caulking	Caulking for trim	-1.91	1928.88	2232	2232	0.00	3.0	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.53	6.11E+04	4440	24	478.75	1.0	478.7	2.4	91
Predicted (Cp)									2.7	100
Measured (Cm)									8.5	
Ratio of Cp to Cm									0.3	

Table G. 111 Styrene concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.14	0.19	24	3600	0.06	34.0	2.0	0.0	0
Floor_Joist	I-joist	-0.18	0.34	48	3576	0.08	120.5	9.5	0.1	2
Trim_Window & others	Window trim, door trim & jam	-0.11	0.20	2256	1368	0.09	40.7	3.8	0.0	1
Trim_Baseboard	Baseboard trim	0.00	0.34	2256	1368	0.34	34.0	11.7	0.1	2
Door_HDF	Interior door	0.00	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.11	5.83	3072	552	2.93	176.6	517.0	6.4	88
Floor_Carpet	Carpet floor	-0.55	5.33	3240	384	0.20	217.1	44.2	0.6	7
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.84	0.00	3168	456	0.00	11.1	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-5.83	1.20E+09	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.25	0.03	2904	720	0.03	83.3	2.4	0.0	0
Caulking	Caulking for trim	0.00	0.00	2256	1368	0.00	2.8	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	0.00	0.00	3600	24	0.00	1.0	0.0	0.0	0
Predicted (Cp)									7.4	100
Measured (Cm)									15.1	
Ratio of Cp to Cm									0.5	

Table G. 112 Styrene concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.14	0.19	48	4416	0.06	81.3	4.6	0.0	4
Floor_Joist	I-joist	-0.18	0.34	48	4416	0.08	373.4	28.4	0.1	23
Trim_Window & others	Window trim, door trim & jam	-0.11	0.20	2232	2232	0.09	41.4	3.6	0.0	3
Trim_Baseboard	Baseboard trim	0.00	0.34	2232	2232	0.34	28.2	9.7	0.0	8
Door_HDF	Interior door	0.00	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	0.02	0.28	3048	1416	0.28	258.8	72.0	0.4	60
Floor_Carpet	Carpet floor	-0.55	5.33	3216	1248	0.11	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.00	0.00	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	-5.83	1.20E+09	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	0.25	0.03	2880	1584	0.03	86.1	2.5	0.0	2
Caulking	Caulking for trim	0.00	0.00	2232	2232	0.00	3.0	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	0.00	0.00	4440	24	0.00	1.0	0.0	0.0	0
Predicted (Cp)									0.6	100
Measured (Cm)									1.9	
Ratio of Cp to Cm									0.3	

Table G. 113 Toluene concentration at steady state in H1 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.37	1.23	24	3600	0.06	34.0	2.0	0.0	1
Floor_Joist	I-joist	-2.13	1916.14	48	3576	0.00	120.5	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.28	0.01	2256	1368	0.01	40.7	0.5	0.0	0
Trim_Baseboard	Baseboard trim	-0.12	0.00	2256	1368	0.00	34.0	0.0	0.0	0
Door_HDF	Interior door	2.22	0.00	2064	1560	0.00	71.9	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.13	2.46	3072	552	1.11	176.6	195.3	2.4	58
Floor_Carpet	Carpet floor	0.00	0.00	3240	384	0.00	217.1	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	0.00	0.00	2760	864	0.00	38.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	0.10	0.00	3168	456	0.00	11.1	0.1	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2544	1080	0.00	702.9	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.11	3.09	2904	720	1.53	83.3	127.4	1.6	38
Caulking	Caulking for trim	-2.28	370.56	2256	1368	0.00	2.8	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.74	2686.20	3600	24	10.78	1.0	10.8	0.1	3
Predicted (Cp)									4.2	100
Measured (Cm)									790.3	
Ratio of Cp to Cm									0.0	

Table G. 114 Toluene concentration at steady state in H2 with an additional oil-based source

Surface ID	Description	m	b	Installation (h)	Elapsed time (h)	EF (mg m^{-2} h^{-1})	A (m^2)	EF*A (µg h^{-1})	C (µg m^{-3})	Contribution (%)
Floor_OSB	OSB subfloor	-0.37	1.23	48	4416	0.05	81.3	4.3	0.0	0
Floor_Joist	I-joist	-2.13	1916.14	48	4416	0.00	373.4	0.0	0.0	0
Trim_Window & others	Window trim, door trim & jam	0.28	0.01	2232	2232	0.01	41.4	0.5	0.0	0
Trim_Baseboard	Baseboard trim	-0.12	0.00	2232	2232	0.00	28.2	0.0	0.0	0
Door_HDF	Interior door	2.22	0.00	2064	2400	0.00	70.4	0.0	0.0	0
Floor_Hardwood	Hardwood floor (HWF2)	-0.08	7.37	3048	1416	4.07	258.8	1053.2	5.3	89
Floor_Carpet	Carpet floor	0.00	0.00	3216	1248	0.00	0.0	0.0	0.0	0
Cabinet_CT_Kitchen	Kitchen cabinet & CT (Cab2)	-2.18	1097.18	2736	1728	0.00	37.0	0.0	0.0	0
Cabinet_CT_Bathroom	Bathroom cabinet & CT (Cab1)	-1.5100	89.27	3096	1368	0.00	7.5	0.0	0.0	0
Wall_Ceiling_Paint	Painted wall & ceiling	0.00	0.00	2520	1944	0.00	762.7	0.0	0.0	0
Floor_tile_1st	Ceramic tile (+ ad + fl)	-0.11	3.09	2880	1584	1.41	86.1	121.1	0.6	10
Caulking	Caulking for trim	-2.28	370.56	2232	2232	0.00	3.0	0.0	0.0	0
Additional Surface	Oil-based polyurethane (UR9)	-1.74	2686.20	4440	24	10.78	1.0	10.8	0.1	1
Predicted (Cp)									6.0	100
Measured (Cm)									276.1	
Ratio of Cp to Cm									0.0	