

FIELD SAMPLING TEST REPORT		
Customer Information  Customer Information		
HB Project Number   2010030NY_B11_D5		
Date Received	November 6, 2020	
Testing Laboratory Location	UL Environment - Marietta, 2211 Newmarket Parkway, Marietta, GA 30067-9399 USA	
Method	USEPA Compendium Method TO-17 ; ASTM 6196	
Authorized by	Allyson M. McFry Chemistry Laboratory Director	

Sampling: Reported data were obtained from samples and sampling information as provided by the on-site investigator. These data and general information are provided to assist the investigator in an overall IAQ assessment. Interpretation of data is left to the client or persons who conducted the field work.

This test is accredited and meets the requirements of ISO/IEC 17025 as verified by ANSI National Accreditation Board. Refer to certificate and scope of accreditation AT-1297.

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Date Issued: Product #: Report #: ©2020 UL LLC

UL ID:	SV1TFDF
Sample Date:	November 4, 2020
Volume (L):	18.0

Sample	Location/Description	tion B11_D5_BR_04_Field Blank		
Total Volatile Organic Compounds				
CAS		mpound	Concentration	
Number	Col	проини	μg/m³ ppb	
	none			

UL ID:	SV1TFD
Sample Date:	November 4, 2020
Volume (L):	18.2

Sample Location/Description	B11_D5_BR_04_AM
Total Volatile Organic Compounds	57.7 μg/m³

CAS Number Compound	Compound	Concentration	
	Compound	μg/m³	ppb
100-42-5	Styrene	11.1	2.6
71-43-2	Benzene	9.6	3.0
116-09-6	2-Propanone, 1-hydroxy	7.8	2.6
541-02-6	Cyclopentasiloxane, decamethyl	4.5	0.3
91-20-3	Naphthalene	4.3	0.8
19549-87-2	1-Heptene, 2,4-dimethyl*	3.6	0.7
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	2.9	0.3
108-88-3	Toluene (Methylbenzene)	2.5	0.7
120-92-3	Cyclopentanone	2.5	0.7
66-25-1	Hexanal	2.4	0.6
98-01-1	Furfural (2-Furaldehyde)	2.4	0.6
141-32-2	Butyl acrylate (2-Propenoic Acid, butyl ester)	2.0	0.4
53957-33-8	Benzenemethanol, 2,5-dimethyl-*	2.0	0.4

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UL ID:	SV2TFD
Sample Date:	November 4, 2020
Volume (L):	18.6

Sample Location/Description	B11-D5_BR_04_60_AM
Total Volatile Organic Compounds	158 μg/m³

CAS	Compound	Concentration	
Number	·	μg/m³	ppb
100-42-5	Styrene	27.5	6.5
541-02-6	Cyclopentasiloxane, decamethyl	20.5	1.3
116-09-6	2-Propanone, 1-hydroxy	11.3	3.7
71-43-2	Benzene	7.9	2.5
91-20-3	Naphthalene	7.7	1.5
19549-87-2	1-Heptene, 2,4-dimethyl*	6.8	1.3
66-25-1	Hexanal	6.4	1.6
64-19-7	Acetic acid	6.3	2.6
108-88-3	Toluene (Methylbenzene)	6.3	1.7
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	5.2	0.6
80-62-6	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)	4.8	1.2
80-56-8	Pinene, alpha (2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene)	4.6	0.8
590-86-3	Butanal, 3-methyl*	4.6	1.3
7287-82-3	1-(2-Methylphenyl)ethanol*	4.6	0.8
71-36-3	1-Butanol (N-Butyl alcohol)	4.4	1.4
98-01-1	Furfural (2-Furaldehyde)	4.4	1.1
141-32-2	Butyl acrylate (2-Propenoic Acid, butyl ester)	4.4	0.8
120-92-3	Cyclopentanone	3.6	1.0
95-13-6	Indene*	3.3	0.7
100-41-4	Benzene, ethyl	2.9	0.7
71-41-0	1-Pentanol (N-Pentyl alcohol)	2.7	0.7
1330-20-7	Xylenes (Total)	2.6	0.6
100-47-0	Benzonitrile	2.5	0.6
5877-42-9	1-Octyn-3-ol, 4-ethyl*	2.4	0.4
5989-27-5	D-Limonene*	2.4	0.4
98-56-6	Benzene, 1-chloro-4-(trifluoromethyl)-*	2.2	0.3
100-52-7	Benzaldehyde	2.0	0.5

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UL ID:	SV3TFD
Sample Date:	November 4, 2020
Volume (L):	18.2

Sample Location/Description	B11_D5_BR_04_PM
Total Volatile Organic Compounds	126 μg/m³

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CAS	Compound	Concentration	
Number	Number		ppb
64-19-7	Acetic acid	15.2	6.2
116-09-6	2-Propanone, 1-hydroxy	14.7	4.9
98-01-1	Furfural (2-Furaldehyde)	12.7	3.2
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	12.0	1.4
91-20-3	Naphthalene	10.4	2.0
108-05-4	Acetate, vinyl (Acetic acid ethenyl ester)	8.4	2.4
100-52-7	Benzaldehyde	6.4	1.5
108-95-2	Phenol	5.9	1.5
96-07-1	Cyclohexanol, 2-(1-methylethyl)-*	5.6	1.0
80-56-8	Pinene, alpha (2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene)	5.3	1.0
120-92-3	Cyclopentanone	5.2	1.5
66-25-1	Hexanal	4.8	1.2
100-42-5	Styrene	4.5	1.1
141-32-2	Butyl acrylate (2-Propenoic Acid, butyl ester)	3.9	0.8
71-36-3	1-Butanol (N-Butyl alcohol)	3.4	1.1
106-44-5	Phenol, 4-methyl (p-Cresol)*	3.2	0.7
3073-92-5	Butane, 1-propoxy*	3.2	0.7
71-41-0	1-Pentanol (N-Pentyl alcohol)	3.2	0.9
98-86-2	Acetophenone (Ethanone, 1-phenyl)*	3.2	0.6
103495-51-8	Tricyclo[3.1.0.0(2,4)]hex-3-ene-3-carbonitrile*	2.5	0.6
71-43-2	Benzene	2.5	0.8
95-48-7	Phenol, 2-methyl*	2.4	0.5
108-88-3	Toluene (Methylbenzene)	2.3	0.6
127-91-3	Pinene, beta (6,6-Dimethyl-2-methylene-bicyclo[3.1.1]heptane)	2.3	0.4
33240-56-1	Hexane, 1-chloro-5-methyl*	2.2	0.4
110-62-3	Pentanal	2.2	0.6
93-51-6	Phenol, 2-methoxy-4-methyl*	2.1	0.4
67-64-1	Acetone	2.0	0.8

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UL ID:	SV4TFD
Sample Date:	November 4, 2020
Volume (L):	18.1

Sample Location/Description	B11_D5_BR_04_60_PM			
Total Volatile Organic Compounds	101 μg/m³			

CAS	Compound	Concentration		
Number	Number .		ppb	
100-42-5	Styrene	19.6	4.6	
116-09-6	2-Propanone, 1-hydroxy	8.8	2.9	
541-02-6	Cyclopentasiloxane, decamethyl	7.3	0.5	
64-19-7	Acetic acid	7.0	2.9	
91-20-3	Naphthalene	6.8	1.3	
66-25-1	Hexanal	4.9	1.2	
71-43-2	Benzene	4.8	1.5	
19549-87-2	1-Heptene, 2,4-dimethyl*	4.8	0.9	
108-88-3	Toluene (Methylbenzene)	4.3	1.1	
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	4.1	0.5	
120-92-3	Cyclopentanone	3.6	1.0	
7287-82-3	1-(2-Methylphenyl)ethanol*	3.4	0.6	
98-01-1	Furfural (2-Furaldehyde)	3.4	0.9	
80-62-6	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)	3.2	0.8	
141-32-2	Butyl acrylate (2-Propenoic Acid, butyl ester)	3.2	0.6	
80-56-8	Pinene, alpha (2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene)	2.7	0.5	
590-86-3	Butanal, 3-methyl*	2.5	0.7	
71-36-3	1-Butanol (N-Butyl alcohol)	2.5	0.8	
95-13-6	Indene*	2.3	0.5	
100-41-4	Benzene, ethyl	2.3	0.5	
1330-20-7	Xylenes (Total)	2.1	0.5	
98-56-6	Benzene, 1-chloro-4-(trifluoromethyl)-*	2.1	0.3	
5989-27-5	D-Limonene*	2.1	0.4	

Individual compounds and TVOC (total volatile organic compounds) are calibrated relative to toluene.

Field Blanks: Reported concentrations based on 18.0 L of volume sampled for VOCs. Actual field blanks are not intended to have a measurable amount of air sampled.

Values below  $2.0 \mu g/m^3$  are for information purposes only. Chemical was detected, but below the quantifiable level of  $0.04 \mu g$  based on a standard of 18 L air collection volume.

UL Environment's quality assurance program monitors blank sorbent media to ensure that the residual background does not exceed UL Environment's quality objective of ≤ 36 ng of total VOC.

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<sup>†</sup>Denotes quantified using multipoint authentic standard curve. Other VOCs quantified relative to toluene.

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		AC	TIVE CHEMICA	L SAMPLIN	G CHAIN OF	CUSTO	ΟY			
Company: L	JLVS (Healthy I		Contact: CARESULTS@UL.COM				Project/P.O./Job Number: 2010030NY_B11_D5			
Address: 3251 Old Lee Highway #100			Phone: 571.655.7919			Sample Date:		04 Nov 2020		
Fairfax, VA 22030		Fax: 703.323.4440				Investigator:		SAM.HORNER		
Please check		ORGANICS: IVO	SCAN: TO	P 20 IVOC	TVOC ONLY	Y O	THER_	B.T.E.X.		
		RMALDEHYDE ONLY ANALYSIS: LEED V4			EED V4	LEED V4.1 OTHER B.T.E.X.				
for each samp method.	TAT: Stand	lard X Next D	ay Rush* * F	Rush charges a	pply; please call	in advance	to confir	m availability		
Comments: O	one (1) Week TAT	Please – Looking f	or results by COB F	riday Novemb	er 13th. Thank y	ou				
UL ID	SAMPLE ID/ TUBE ID	0	LOCATION/ RIPTION	START TIME	STOP TIME	TIMI SAMPI (MIN	ED	PUMP ID #	FLOW RATE (L/MIN)	VOLUME (L)
1/01	2010030NY-11P s/n B26473	B11_D5_BR	_04_AM	08:41	12:41	240	)	2018	0.075965	18.2316
V02	2010030NY-11C s/n B26166	B11_D5_BR	_04_60_AM	08:25	09:25	60		5116	0.304975	18.60348
1/63	2010030NY-11R s/n B26562	B11_D5_BR	_04_PM	12:55	16:55	240	)	2018	0.075965	18.2316
104	2010030NY-11S s/n B26990	B11_D5_BR	_04_60_PM	09:14	10:14	60		4257	0.30131	18.0786
WIF	2001030NY-11T s/n B27006	B11_D5_BR Blank	_04_Field							n/a
							3445030			
Released By: SA (Print/Sign)	AM.HORNER	Date/Time: 05Nov	/2020	Method of Shi	pment: UPS Next D		B11_D5		3445	
Received By Date/Time:		10:25 Ah	Sample Condition			Customer: UL Verification Services, Inc.  Received Date: Aurora Project No.: 1001079085 Order No.: 2020-NOV-06 12:51:56 PM Oracle Project No.:				

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