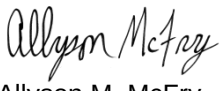
FIELD SAMPLING TEST REPORT	
Customer Information	LST.FAI.HBDCResults@ul.com UL Verification Services, Inc 3251 Old Lee Highway, Suite 100 Fairfax, VA 22030 USA
HB Project Number	2009049NY
Date Received	October 7, 2020
Testing Laboratory Location	UL Environment - Marietta, 2211 Newmarket Parkway, Marietta, 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.

Date Issued: November 11, 2020
Product #: 1001056156-3371160
Report #: 1001056156-3371160R1

Supersedes Report #: 1001056156-3371160

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

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description	Field Blank
Total Volatile Organic Compounds	BQL µg/m³

CAS Number	Compound	Concentration	
		µg/m³	ppb
none			

UL ID:	SV1TFD
Sample Date:	October 4, 2020
Volume (L):	20.2

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description	Burn_03_BR_04_Pre
Total Volatile Organic Compounds	1,770 µg/m³

CAS Number	**Compound**	**Concentration**	
		µg/m³	**ppb**
98-56-6	Benzene, 1-chloro-4-(trifluoromethyl)-*	174	23.6
77-68-9	Propanoic acid, 2-methyl-, 3-hydroxy-2,2,4-trimethylpentyl ester (component of Texanol)	162	18.3
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	132	14.9
541-02-6	Cyclopentasiloxane, decamethyl	110	7.3
1120-21-4	Undecane	89.3	14.0
112-40-3	Dodecane†	75.4	10.8
1330-20-7	Xylenes (Total) †	60.7	14.0
872-50-4	2-Pyrrolidinone, 1-methyl†	55.9	13.8
124-18-5	Decane	50.5	8.7
10573-35-0	Ether, 6-methylheptyl vinyl*	48.2	7.5
10486-19-8	Tridecanal*	38.5	4.7
142-96-1	n-Butyl ether	35.7	6.7
108-10-1	2-Pentanone, 4-methyl (Methyl isobutyl ketone, MIBK)	35.1	8.6
110-62-3	Pentanal	29.1	8.2
20324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy)	28.1	4.6
64-19-7	Acetic acid	27.5	11.2
66-25-1	Hexanal	27.1	6.6
17301-23-4	Undecane, 2,6-dimethyl	25.5	3.4
78-93-3	2-Butanone (Methyl ethyl ketone, MEK)	25.3	8.6
13151-73-0	Decane 2-cyclohexyl-, 2-cyclohexyl*	24.9	2.7
108-88-3	Toluene (Methylbenzene)	24.4	6.5
13287-21-3	Tridecane, 6-methyl*	23.6	2.9
124-19-6	Nonyl aldehyde (Nonanal) †	22.1	3.8
2456-28-2	Decane, 1,1'-oxybis*	21.0	1.7
112-41-4	1-Dodecene	20.8	3.0
286-99-7	13-Oxabicyclo[10.1.0]tridecane*	18.6	2.5
17312-60-6	Undecane, 6-ethyl*	18.4	2.4
7045-71-8	Undecane, 2-methyl	16.9	2.4
54411-00-6	Cyclohexane, 1-methyl-4-(1-methylbutyl)-*	15.7	2.3
1000131-71-0	6,10,13-Trimethyltetradecanol*	15.0	1.4
39178-69-3	Cyclohexanone, 3-butyl-*	13.2	2.1
13151-82-1	Dodecane, 2-cyclohexyl-*	13.2	1.4
1000372-72-3	(Z)-Dec-4-en-1-yl 2-methylbutanoate*	13.0	1.3
17302-32-8	Nonane, 3,7-dimethyl	12.3	1.9
124-13-0	Octanal†	12.1	2.3
96-29-7	2-Butanone, oxime*	11.9	3.3

UL ID:	SV1TFD
Sample Date:	October 4, 2020
Volume (L):	20.2

CAS Number	Compound	Concentration	
		µg/m³	ppb
2980-69-0	Undecane, 4-methyl	11.6	1.7
540-42-1	Propanoic acid, 2-methylpropyl ester*	11.4	2.1
5910-87-2	2,4-Nonadienal, (E,E)-*	11.2	2.0
91-20-3	Naphthalene†	10.8	2.1
2499-95-8	n-Hexyl acrylate*	10.7	1.7
123-72-8	Butanal	10.4	3.5
2216-32-2	Heptane, 4-ethyl*	10.3	2.0
10147-40-7	1-Dodecanesulfonyl chloride*	9.9	0.9
5204-80-8	4-Pentenal, 2-ethyl*	9.8	2.1
110-19-0	Acetic acid, 2-methylpropyl ester (Isobutyl acetate)*	9.2	1.9
616-25-1	1-Penten-3-ol*	8.7	2.5
75039-84-8	trans-2-Undecen-1-ol*	8.4	1.2
71-36-3	1-Butanol (N-Butyl alcohol)	8.3	2.7
29911-28-2	2-Propanol, 1-(2-butoxy-1-methylethoxy)-(Dipropylene glycol monobutyl ether)	8.1	1.0
6712-79-4	Isopinocarveol*	8.0	1.3
629-50-5	Tridecane	7.8	1.0
1678-92-8	Cyclohexane, propyl	7.7	1.5
1000364-61-2	1,1,3,3,5,5,7,7-Octamethyl-7-(2-methylpropoxy)tetrasiloxan-1-ol*	7.7	0.5
1678-91-7	Cyclohexane, ethyl	7.4	1.6
611-14-3	Benzene, 1-ethyl-2-methyl (2-Ethyltoluene)	7.2	1.5
141-78-6	Acetate, ethyl	6.7	1.9
111-77-3	Ethanol, 2-(2-methoxyethoxy)	6.4	1.3
1002-43-3	Undecane, 3-methyl	6.4	0.9
111-84-2	Nonane	6.2	1.2
142-62-1	Hexanoic acid	6.0	1.3
18829-55-5	2-Heptenal, (E)	5.9	1.3
95-13-6	Indene*	5.9	1.2
17301-94-9	Nonane, 4-methyl	5.7	1.0
100-52-7	Benzaldehyde	5.5	1.3
871-83-0	Nonane, 2-methyl	5.4	0.9
5077-67-8	1-Hydroxy-2-butanone*	5.2	1.4
123-86-4	Acetate, butyl	5.2	1.1
80-56-8	Pinene, alpha (2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene)	4.6	0.8
79-20-9	Acetate, methyl (Acetic acid, methyl ester)	4.5	1.5
2051-30-1	Octane, 2,6-dimethyl	4.3	0.7
100-42-5	Styrene†	4.2	1.0
7146-78-3	1-Cyclohexanol, 2-(2-ethylbutyl)-*	3.9	0.5
110-43-0	2-Heptanone	3.6	0.8
1000139-52-3	trans-2-Ethyl-2-hexen-1-ol*	3.6	0.7
98-01-1	Furfural (2-Furaldehyde)	3.5	0.9
71-43-2	Benzene†	3.1	1.0
4390-04-9	Nonane, 2,2,4,4,6,8,8-heptamethyl*	3.0	0.3

UL ID:	SV1TFD
Sample Date:	October 4, 2020
Volume (L):	20.2

CAS Number	Compound	Concentration	
		µg/m³	ppb
111-65-9	Octane	3.0	0.6
14411-56-4	Benzene, 1-(1,1-dimethylethyl)-3-ethyl*	3.0	0.4
627-50-9	Ethylvinyl sulfide*	2.8	0.8
3964-66-7	Cyclohexene,1-hexyl-*	2.6	0.4
17312-57-1	Dodecane, 3-methyl*	2.5	0.3
98-54-4	Phenol, 4-t-butyl (4-(1,1-Dimethylethyl)phenol)	2.4	0.4
64-17-5	Ethanol	2.4	1.3
244074-78-0	Pentanoic acid, 2,2,4-trimethyl-3-hydroxy-, isobutyl ester*	2.1	0.2
2497-25-8	2-Decenal, (Z)-*	2.0	0.3
106-97-8	Butane	2.0	0.8
112-30-1	1-Decanol (N-Decyl alcohol)	2.0	0.3

UL ID:	SV2TFD
Sample Date:	October 4, 2020
Volume (L):	18.0

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description	Burn_03_BR_04_Post
Total Volatile Organic Compounds	16.0 µg/m³

CAS Number	**Compound**	**Concentration**	
		µg/m³	**ppb**
64-19-7	Acetic acid	9.6	3.9
80-56-8	Pinene, alpha (2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene) †	7.4	1.3
71-43-2	Benzene†	7.4	2.3
79-20-9	Acetate, methyl (Acetic acid, methyl ester) †	3.2	1.1
1632-70-8	Undecane, 5-methyl*	2.2	0.3

UL ID:	SV3TFD
Sample Date:	October 4, 2020
Volume (L):	18.1

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description	Burn_04_LR_Hall_Pre
Total Volatile Organic Compounds	990 µg/m³

CAS Number	**Compound**	**Concentration**	
		µg/m³	**ppb**
77-68-9	Propanoic acid, 2-methyl-, 3-hydroxy-2,2,4-trimethylpentyl ester (component of Texanol)	261	29.5
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	224	25.3
64-19-7	Acetic acid	51.0	20.8
142-96-1	n-Butyl ether	45.8	8.6
66-25-1	Hexanal	33.3	8.1
91-20-3	Naphthalene†	30.2	5.8
58175-57-8	2-Propyl-1-pentanol*	23.6	4.4
124-19-6	Nonyl aldehyde (Nonanal) †	22.9	3.9
112-41-4	1-Dodecene	21.5	3.1
80-56-8	Pinene, alpha (2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene)	18.8	3.4
78-93-3	2-Butanone (Methyl ethyl ketone, MEK)	17.6	6.0
590-01-2	Butyl propionate (Propanoic acid, butyl ester)	15.8	3.0
124-13-0	Octanal†	14.7	2.8
98-01-1	Furfural (2-Furaldehyde)	13.7	3.5
71-36-3	1-Butanol (N-Butyl alcohol)	13.5	4.4
108-95-2	Phenol†	13.3	3.5
68-12-2	Formamide, N,N-dimethyl*†	12.4	4.1
127-91-3	Pinene, beta (6,6-Dimethyl-2-methylene-bicyclo[3.1.1]heptane)	11.6	2.1
98-56-6	Benzene, 1-chloro-4-(trifluoromethyl)-*	10.6	1.4
123-86-4	Acetate, butyl	9.7	2.0
100-42-5	Styrene†	8.5	2.0
110-62-3	Pentanal	8.3	2.3
142-62-1	Hexanoic acid	7.6	1.6
98-86-2	Acetophenone (Ethanone, 1-phenyl)*	7.6	1.5
71-41-0	1-Pentanol (N-Pentyl alcohol)	7.5	2.1
123-35-3	1,6-Octadiene,7-methyl-3-methylene (Myrcene)	7.5	1.3
100-52-7	Benzaldehyde	7.0	1.6
110-12-3	2-Hexanone, 5-methyl	6.9	1.5
1000309-21-9	Sulfurous acid, cyclohexylmethyl undecyl ester*	6.5	0.5
108-88-3	Toluene (Methylbenzene)	5.5	1.5
112-40-3	Dodecane	5.2	0.7
92-52-4	1,1'-Biphenyl*	5.1	0.8
111-87-5	1-Octanol	4.9	0.9
13429-07-7	2-Propanol, 1-(2-methoxypropoxy)-*	4.8	0.8
541-02-6	Cyclopentasiloxane, decamethyl	4.5	0.3

UL ID:	SV3TFD
Sample Date:	October 4, 2020
Volume (L):	18.1

CAS Number	Compound	Concentration	
		µg/m³	ppb
629-50-5	Tridecane	4.4	0.6
6846-50-0	TXIB (2,2,4-Trimethyl-1,3-pentanediol diisobutyrate)	4.3	0.4
57-55-6	1,2-Propanediol (Propylene glycol)	4.3	1.4
71-43-2	Benzene†	4.3	1.3
91186-49-1	2,6,6-Trimethylundeca-1,3-dien-9-yn-5-one*	4.1	0.5
112-31-2	Decanal*	3.9	0.6
79-20-9	Acetate, methyl (Acetic acid, methyl ester)	3.9	1.3
818-72-4	1-Octyn-3-ol	3.8	0.7
620-02-0	2-Furancarboxaldehyde, 5-methyl*	3.7	0.8
120-92-3	Cyclopentanone	3.6	1.0
17301-26-7	Undecane, 2,9-dimethyl*	3.6	0.5
80-62-6	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)	3.4	0.8
112-30-1	1-Decanol (N-Decyl alcohol)	3.4	0.5
40933-45-7	2,4-Dimethylhexanedioic acid*	3.3	0.5
25551-13-7	Trimethylbenzene (All Isomers)	3.1	0.6
1000316-00-2	1H-Indazole, 3-methyl-*	3.1	0.6
1196-01-6	Bicyclo[3.1.1]hept-3-en-2-one, 4,6,6-trimethyl-, (1S)-*	2.9	0.5
2162-98-3	1,10-Dichlorodecane*	2.7	0.3
535-77-3	Benzene, 1-methyl-3-isopropyl (m-Cymene)	2.7	0.5
90-12-0	Naphthalene, 1-methyl	2.7	0.5
112-29-8	Decane, 1-bromo*	2.6	0.3
1000192-66-2	2-Hydroxy-2-phenyl-N-(1-phenyl-ethyl)-acetamide*	2.6	0.2
95-13-6	Indene*	2.6	0.5
2548-87-0	2-Octenal, (E)	2.5	0.5
544-76-3	Hexadecane (Cetane) †	2.4	0.3
79-31-2	Propanoic acid, 2-methyl*	2.4	0.7
33900-84-4	Myrtenyl isovalerate*	2.4	0.2
106-46-7	Benzene, 1,4-dichloro	2.4	0.4
75-65-0	2-Propanol, 2-methyl	2.3	0.8
107-98-2	2-Propanol, 1-methoxy-*	2.3	0.6
62108-21-8	Decane, 6-ethyl-2-methyl*	2.2	0.3
3891-99-4	2,6,10-Trimethyltridecane*	2.2	0.2
1000192-68-2	3-(Hydroxy-phenyl-methyl)-2,3-dimethyl-octan-4-one*	2.2	0.2
112-44-7	Undecanal*	2.2	0.3
4117-14-0	2-Decyn-1-ol*	2.1	0.3
1000334-82-1	4,6-Dioxadecane*	2.1	0.3
1000293-49-9	4-Ethylbenzoic acid, 2-ethylhexyl ester*	2.0	0.8
2461-15-6	Oxirane, [[(2-ethylhexyl)oxy]methyl]-*	2.0	0.3
55030-21-2	Cyclohexane, 1,1'-(2-propyl-1,3-propanediyl)bis-*	2.0	0.2

UL ID:	SV4TFD
Sample Date:	October 4, 2020
Volume (L):	21.2

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description	Burn_04_LR_Hall_Post
Total Volatile Organic Compounds	646 µg/m³

CAS Number	**Compound**	**Concentration**	
		µg/m³	**ppb**
64-19-7	Acetic acid	98.3	40.0
71-43-2	Benzene†	72.0	22.5
100-42-5	Styrene†	67.6	15.9
91-20-3	Naphthalene†	47.8	9.1
80-62-6	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)	36.1	8.8
98-01-1	Furfural (2-Furaldehyde)	31.6	8.0
108-95-2	Phenol†	23.8	6.2
108-88-3	Toluene (Methylbenzene)	19.8	5.2
123-91-1	1,4-Dioxane†	17.0	4.7
77-68-9	Propanoic acid, 2-methyl-, 3-hydroxy-2,2,4-trimethylpentyl ester (component of Texanol)	14.7	1.7
66-25-1	Hexanal	13.3	3.2
116-09-6	2-Propanone, 1-hydroxy	12.7	4.2
68-12-2	Formamide, N,N-dimethyl*	11.3	3.8
141-32-2	Butyl acrylate (2-Propenoic Acid, butyl ester)	11.2	2.1
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	10.1	1.1
98-83-9	a-Methylstyrene (iso-Propenylbenzene; (1-Methylethenyl)benzene)	9.6	2.0
90-05-1	Phenol, 2-methoxy*	9.5	1.9
271-89-6	Benzofuran*	8.5	1.7
534-22-5	Furan, 2-methyl-*	8.4	2.5
106-44-5	Phenol, 4-methyl (p-Cresol)*	8.0	1.8
91-57-6	Naphthalene, 2-methyl	7.9	1.4
95-13-6	Indene*	7.7	1.6
100-52-7	Benzaldehyde	7.5	1.7
109-67-1	1-Pentene	7.4	2.6
120-92-3	Cyclopentanone	7.4	2.2
93-51-6	Phenol, 2-methoxy-4-methyl*	6.4	1.1
100-47-0	Benzonitrile	6.3	1.5
25551-13-7	Trimethylbenzene (All Isomers)	5.8	1.2
208-96-8	Acenaphthylene*	5.8	0.9
123-86-4	Acetate, butyl	5.8	1.2
1632-16-2	Heptane, 3-methylene*	5.7	1.2
1002-11-5	Decane, 3-chloro*	5.6	0.8
620-02-0	2-Furancarboxaldehyde, 5-methyl*	5.5	1.2
22410-74-8	2,6-Octadien-1-ol, 2,7-dimethyl*	5.4	0.9
5077-67-8	1-Hydroxy-2-butanone*	5.1	1.4

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Volume (L):	21.2

CAS Number	Compound	Concentration	
		µg/m³	ppb
100-41-4	Benzene, ethyl†	4.8	1.1
80-56-8	Pinene, alpha (2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene)	4.7	0.8
98-86-2	Acetophenone (Ethanone, 1-phenyl)*	4.7	1.0
95-48-7	Phenol, 2-methyl*	4.7	1.1
110-86-1	Pyridine	4.7	1.4
294-62-2	Cyclododecane	4.5	0.7
565-69-5	3-Pentanone, 2-methyl*	4.5	1.1
105-67-9	Phenol, 2,4-dimethyl	4.4	0.9
14003-71-5	1,2,3,4-Cyclopentanetetrol, (1.alpha.,2.beta.,3.beta.,4.alpha.)-*	4.3	0.8
827-54-3	Naphthalene, 2-vinyl	4.3	0.7
576-26-1	Phenol, 2,6-dimethyl-*	4.2	0.8
78-94-4	Methyl vinyl ketone (3-Buten-2-one)	4.1	1.4
1000380-42-5	L-(+)-Threose, aldononitrile, triacetate*	3.9	0.4
14371-10-9	Cinnamaldehyde, (E)-*	3.7	0.7
112-15-2	Ethanol, 2-(2-ethoxyethoxy), acetate*	3.6	0.5
78-93-3	2-Butanone (Methyl ethyl ketone, MEK)	3.5	1.2
814-78-8	3-Buten-2-one, 3-methyl*	3.5	1.0
767-60-2	1H-Indene, 3-methyl*	3.4	0.6
85-01-8	Phenanthrene*	3.3	0.5
1000293-33-2	m-Toluic acid, 2-ethylcyclohexyl ester*	3.3	0.3
6709-39-3	1,5-Heptadiene, 2,6-dimethyl-*	3.2	0.6
2936-08-5	2,2-di-n-Propylacetyl chloride*	3.2	0.5
1000309-61-6	Oxalic acid, 4-chlorophenyl tetradecyl ester*	3.2	0.2
1330-20-7	Xylenes (Total) †	3.1	0.7
5441-52-1	Cyclohexanol, 3,5-dimethyl*	3.1	0.6
91-10-1	Phenol, 2,6-dimethoxy*	3.1	0.5
134563-46-5	1-hydroxy-1,2,3,4-tetrahydronaphthalene trifluoroacetate ester*	3.1	0.3
1120-73-6	2-Cyclopenten-1-one, 2-methyl*	3.1	0.8
3404-67-9	Hexane, 3-methyl-4-methylene*	3.0	0.7
589-82-2	3-Heptanol*	3.0	0.6
2785-89-9	Phenol, 4-ethyl-2-methoxy*	2.9	0.5
98-00-0	2-Furanmethanol*	2.8	0.7
92-52-4	1,1'-Biphenyl*	2.8	0.4
7402-29-1	Butanoic acid, 3-phenylpropyl ester*	2.7	0.3
1192-62-7	Ethanone, 1-(2-furanyl)*	2.7	0.6
4663-21-2	Cyclopropane, 1-propenyl-*	2.6	0.8
78-85-3	2-Propenal, 2-methyl	2.6	0.9
71-41-0	1-Pentanol (N-Pentyl alcohol)	2.6	0.7
27522-11-8	1-Pentanol, 2-ethyl*	2.6	0.5
42781-12-4	2-Propanone, 1-(1-methylethoxy)-*	2.5	0.5
1000211-14-3	8-Methylene-3-oxatricyclo[5.2.0.0(2,4)]nonane*	2.5	0.4
1000309-56-6	Oxalic acid, hexyl 2-isopropylphenyl ester*	2.5	0.2
624-54-4	Propanoic acid, pentyl ester*	2.4	0.4

UL ID:	SV4TFD
Sample Date:	October 4, 2020
Volume (L):	21.2

CAS Number	Compound	Concentration	
		µg/m³	ppb
4794-05-2	Benzene, 2,5-cyclohexadien-1-yl-*	2.4	0.4
7786-61-0	2-Methoxy-4-vinylphenol*	2.3	0.4
621-59-0	Benzaldehyde, 3-hydroxy-4-methoxy-*	2.3	0.4
1121-05-7	2-Cyclopenten-1-one, 2,3-dimethyl-*	2.2	0.5
17059-52-8	Benzofuran, 7-methyl*	2.2	0.4
591-11-7	2(5H)-Furanone, 5-methyl-*	2.2	0.5
95798-22-4	3-Hydroxy-piperidine-1-carboxylic acid, benzyl ester*	2.2	0.2
10031-87-5	Acetic acid, 2-ethylbutyl ester*	2.1	0.4
108-46-3	Resorcinol*	2.1	0.5
637-50-3	Benzene, 1-propenyl-*	2.1	0.4
40771-26-4	1,5-Dihydroxy-1,2,3,4-tetrahydronaphthalene*	2.1	0.3
135-77-3	1.2.4-Trimethoxybenzene*	2.1	0.3
3777-69-3	Furan, 2-pentyl	2.0	0.4

UL ID:	SV5TFD
Sample Date:	October 4, 2020
Volume (L):	18.0

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description	Field Blank
Total Volatile Organic Compounds	BQL

CAS Number	Compound	Concentration	
		µg/m³	ppb
---	none	---	---

Date Issued: November 11, 2020
Product #: 1001056156-3371160
Report #: 1001056156-3371160R1

Supersedes Report #: 1001056156-3371160

UL ID:	SV5TFD
Sample Date:	October 4, 2020
Volume (L):	18.0

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.

†Denotes quantified using multipoint authentic standard curve. Other VOCs quantified relative to toluene.

Values below 2.0 µg/m³ are for information purposes only. Chemical was detected, but below the quantifiable level of 0.04 µg 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.

UL ID:	SV5TFD
Sample Date:	October 4, 2020
Volume (L):	18.0

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Project # 2009049NY

1001056156-3371160

ACTIVE CHEMICAL SAMPLING CHAIN OF CUSTODY

Company: ULVS (Healthy Buildings)	Contact: CARESULTS@UL.COM	Project/P.O./Job Number: 2009049NY
Address: 3251 Old Lee Highway #100 Fairfax, VA 22030	Phone: 571.655.7919	Sample Date: 04OCT2020
	Fax: 703.323.4440	Investigator: SAM.HORNER

Please check the appropriate fields; Use separate COC for each sample method.

VOLATILE ORGANICS: IVOC SCAN: _____ TOP 20 IVOC _____ TVOC ONLY _____ OTHER B.T.E.X.

ALDEHYDE SCAN: _____ FORMALDEHYDE ONLY _____ ANALYSIS: LEED V4 ___ LEED V4.1 ___ OTHER B.T.E.X.

TAT: Standard X Next Day Rush* _____ * Rush charges apply; please call in advance to confirm availability

Comments:

UL ID	SAMPLE ID/ TUBE ID	SAMPLE LOCATION/ DESCRIPTION	START TIME	STOP TIME	TIME SAMPLED (MIN)	PUMP ID #	FLOW RATE (L/MIN)	VOLUME (L)
V01	2009049NY-03A/ s/n B26855	Burn_03_BR_04_Pre	08:46	09:53	67	2018	0.301 L	20.16 L
V02	2009049NY-03B/ s/n B26419	Burn_03_BR_04_Post	12:47	13:47	60	2018	0.299 L	17.97 L
V01F	2009049NY-03C/ s/n B26479	Field Blank						n/a 18

Released By: SAM.HORNER (Print/Sign) — Date/Time: 05OCT2020 — Method of Shipment: UPS Next Day

Received By: — Date/Time: 10/6/20 10:30 am — 1Z 23X 304 01 9905 7141 — Sample Condition

3371160

Description: VOC Tubes

3371160

Customer: UL Environment Inc.

Received Date: 2020-OCT-07 09:11:07 AM

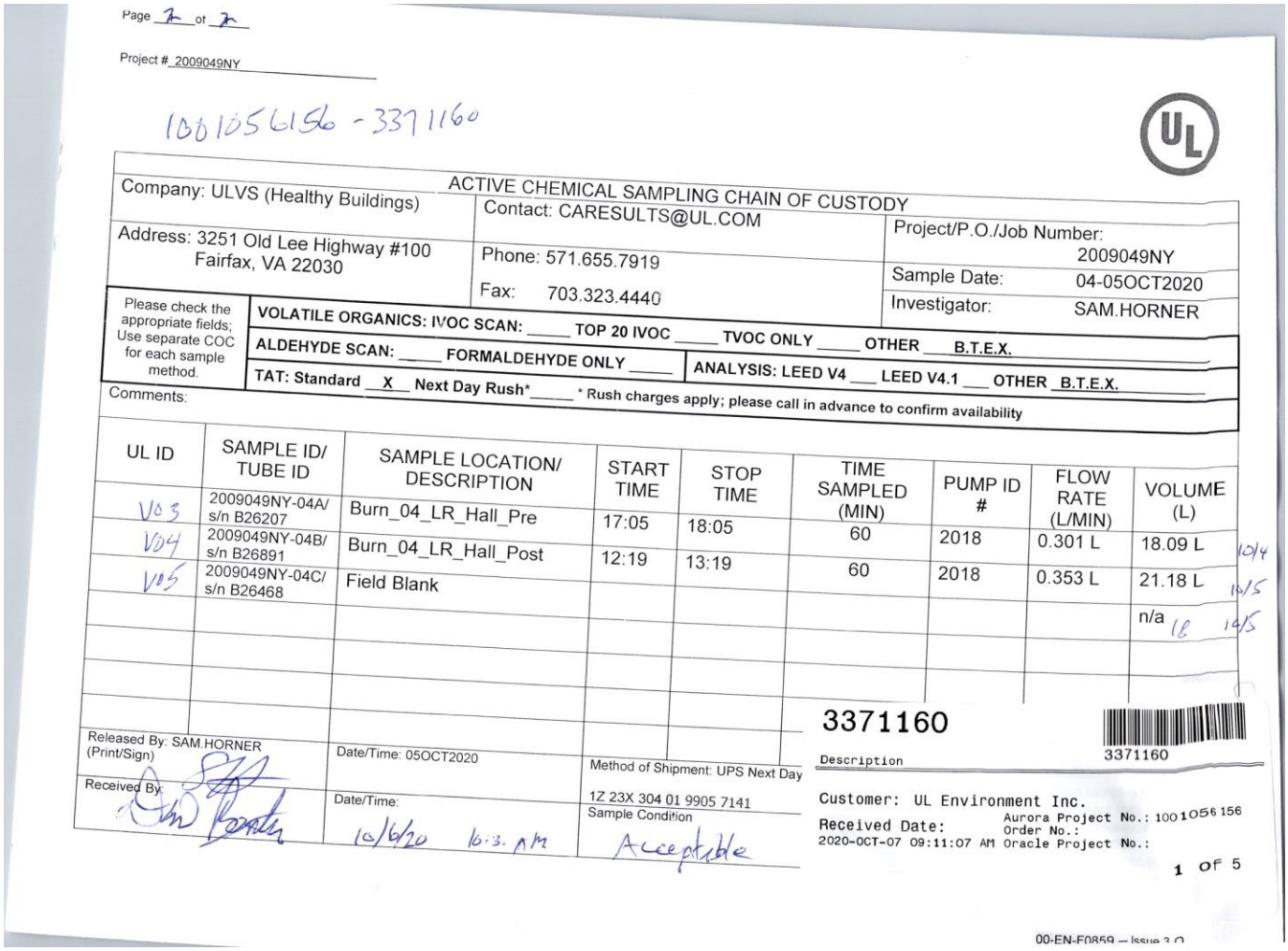
Aurora Project No.: 1001056156
Order No.:
Oracle Project No.:

4 of 5

Date Issued: November 11, 2020
Product #: 1001056156-3371160
Report #: 1001056156-3371160R1

Supersedes Report #: 1001056156-3371160

UL ID:	SV5TFD
Sample Date:	October 4, 2020
Volume (L):	18.0



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Project # 2009049NY

1001056156 - 3371160

ACTIVE CHEMICAL SAMPLING CHAIN OF CUSTODY

Company: ULVS (Healthy Buildings)
Contact: CARESULTS@UL.COM
Project/P.O./Job Number: 2009049NY

Address: 3251 Old Lee Highway #100 Fairfax, VA 22030
Phone: 571.655.7919
Fax: 703.323.4440
Sample Date: 04-05OCT2020
Investigator: SAM.HORNER

Please check the appropriate fields; Use separate COC for each sample method.

VOLATILE ORGANICS: IVOC SCAN: ____ TOP 20 IVOC ____ TVOC ONLY ____ OTHER ___B.T.E.X.

ALDEHYDE SCAN: ____ FORMALDEHYDE ONLY ____

TAT: Standard __X__ Next Day Rush*_____ * Rush charges apply; please call in advance to confirm availability

ANALYSIS: LEED V4 ___ LEED V4.1 ___ OTHER _B.T.E.X.

Comments:

UL ID	SAMPLE ID/ TUBE ID	SAMPLE LOCATION/ DESCRIPTION	START TIME	STOP TIME	TIME SAMPLED (MIN)	PUMP ID #	FLOW RATE (L/MIN)	VOLUME (L)
V03	2009049NY-04A/ s/n B26207	Burn_04_LR_Hall_Pre	17:05	18:05	60	2018	0.301 L	18.09 L 10/4
V04	2009049NY-04B/ s/n B26891	Burn_04_LR_Hall_Post	12:19	13:19	60	2018	0.353 L	21.18 L 10/5
V05	2009049NY-04C/ s/n B26468	Field Blank						n/a 18 10/5

Released By: SAM.HORNER (Print/Sign) — Date/Time: 05OCT2020 — Method of Shipment: UPS Next Day

Received By: — Date/Time: 10/6/20 10:3. AM — 1Z 23X 304 01 9905 7141 — Sample Condition: Acceptable

3371160

Description

3371160

Customer: UL Environment Inc.

Received Date: 2020-OCT-07 09:11:07 AM

Aurora Project No.: 1001056156
Order No.:
Oracle Project No.:

1 OF 5

00-EN-F0859 — Issue 3.0

Date Issued: November 11, 2020
Product #: 1001056156-3371160
Report #: 1001056156-3371160R1

Supersedes Report #: 1001056156-3371160