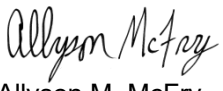
FIELD SAMPLING TEST REPORT	
Customer Information	UL ENVIRONMENT INC. caresults@ul.com 2211 Newmarket Parkway Suite 106 Marietta GA 30067
HB Project Number	2009049NY
Date Received	October 13, 2020
Testing Laboratory Location	UL Environment - Marietta, 2211 Newmarket Parkway, Marietta, GA 30067-9399 USA
Authorized by	 Allyson M. McFry Chemistry Laboratory Director

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. UL Environment employees did not collect samples nor visit the site where samples were collected. Interpretation of data is left to the client or persons who conducted the field work.

Sources of additional information are also available from:

1. Molhave, L., "Volatile Organic Compounds, Indoor Air Quality and Health," The 5th International Conference on Indoor Air Quality and Climate, Toronto, Canada, 1990.
2. State of California Air Resources Board, Indoor Air Quality Guideline for Formaldehyde in the Home, August, 2004. http://www.arb.ca.gov/research/indoor/formaldGL08-04.pdf
3. Morey, P. R., Horner, W. E., Epstien, B. L., Worthan, A. G., and Black, M. S. (2000). Indoor Air Quality in Nonindustrial Occupational Environments, in R.L. Harris (Ed.) Patty's Industrial Hygiene (5th ed., pp. 3149-3241). John Wiley & Sons.

Date Prepared: October 21, 2020
Product #: 1001053392-3387943
Report #: 1001053392-3387943

UL ID:	FLD01 (V)
Sample Date:	October 9, 2020
Volume (L):	17.6

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description	Burn_05_BR_04 Pre
Total Volatile Organic Compounds	1,140 µg/m³

CAS Number	Compound	Concentration	
		µg/m³	ppb
71-43-2	Benzene	4.4	1.4
100-41-4	Benzene, ethyl	2.2	0.5
108-88-3	Toluene (Methylbenzene)	8.2	2.2
1330-20-7	Xylenes (Total)	10.9	2.5

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UL ID:	FLD01F (V)
Sample Date:	October 9, 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
71-43-2	Benzene	BQL	BQL
100-41-4	Benzene, ethyl	BQL	BQL
108-88-3	Toluene (Methylbenzene)	BQL	BQL
1330-20-7	Xylenes (Total)	BQL	BQL

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UL ID:	FLD02 (V)
Sample Date:	October 9, 2020
Volume (L):	17.4

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description	Burn_05_BR_04_Post
Total Volatile Organic Compounds	1,360 µg/m³

CAS Number	Compound	Concentration	
		µg/m³	ppb
71-43-2	Benzene	58.3	18.3
100-41-4	Benzene, ethyl	7.3	1.7
108-88-3	Toluene (Methylbenzene)	27.7	7.4
1330-20-7	Xylenes (Total)	8.1	1.9

VOC samples analyzed by thermal desorption/mass spectrometry according to UL Environment Method 55-CH-W0866 (based on USEPA Compendium Method TO-17 and ASTM 6196).

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

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.

*Indicates best NIST/EPA/NIH library match only.

BQL denotes below quantifiable level of 2 µg/m³ (instrument calibration using authentic standard).

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.

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Project # 2009049NY

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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: 09OCT2020
	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)
Vol	2009049NY-05A/ s/n B26602	Burn_05_BR_04_Pre	08:25	09:25	60	4257	0.293 L	17.59 L
Vo2	2009049NY-05B/ s/n B26989	Burn_05_BR_04_Post	11:56	12:56	60	4257	0.290 L	17.38 L
VolF	2009049NY-05C/ s/n B26919	Burn_05_BR_04_Field Blank						n/a

Released By: SAM.HORNER (Print/Sign)	Date/Time: 12OCT2020	Method of Shipment: UPS Next D 1Z23X3040198642573
Received By:	Date/Time: 10/13/20 10:30 AM	Sample Condition: Acceptable

3387943

3387943

Description 2009049NY

Customer: UL Environment Inc.

Aurora Project No.: 1001053392

Received Date: 2020-OCT-14 09:05:17 AM

Order No.:

Oracle Project No.:

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