

| 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 13, 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: November 11, 2020
Product #: 1001053392-3387945
Report #: 1001053392-3387945R2

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| UL ID: | SV1TFD |
|--------------|-----------------|
| Sample Date: | October 9, 2020 |
| Volume (L): | 17.3 |

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

| Sample Location/Description | Burn_06_LR_Hall_Pre |
|----------------------------------|---------------------|
| Total Volatile Organic Compounds | 869 μg/m³ |

| CAS | Compound | Concentration | |
|--------------|---|---------------|------|
| Number | Compound | μg/m³ | ppb |
| 77-68-9 | Propanoic acid, 2-methyl-, 3-hydroxy-2,2,4-trimethylpentyl ester (component of Texanol) | 152 | 17.2 |
| 25265-77-4 | 2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate | 125 | 14.1 |
| 124-18-5 | Decane | 52.0 | 8.9 |
| 111-84-2 | Nonane | 22.1 | 4.2 |
| 1120-21-4 | Undecane | 21.6 | 3.4 |
| 629-50-5 | Tridecane | 21.4 | 2.8 |
| 2847-72-5 | Decane, 4-methyl | 21.3 | 3.3 |
| 3234-28-4 | Oxirane, dodecyl-* | 19.8 | 2.3 |
| 275-51-4 | Azulene* | 17.3 | 3.3 |
| 124-19-6 | Nonyl aldehyde (Nonanal)† | 15.8 | 2.7 |
| 1678-92-8 | Cyclohexane, propyl | 15.2 | 2.9 |
| 1678-93-9 | Cyclohexane, butyl | 14.6 | 2.5 |
| 112-40-3 | Dodecane [†] | 14.2 | 2.0 |
| 110-82-7 | Cyclohexane | 12.0 | 3.5 |
| 343855-44-7 | o-Menthan-8-ol* | 11.9 | 1.9 |
| 2051-30-1 | Octane, 2,6-dimethyl | 11.2 | 1.9 |
| 5911-04-6 | Nonane, 3-methyl | 10.0 | 1.7 |
| 64-19-7 | Acetic acid | 9.8 | 4.0 |
| 17301-94-9 | Nonane, 4-methyl | 9.8 | 1.7 |
| 1000193-72-9 | 2,3,4-Trimethyl-hex-3-enal* | 9.8 | 1.7 |
| 67446-07-5 | cis-5-Decen-1-yl acetate* | 9.6 | 1.2 |
| 1000406-16-5 | Undec-10-ynoic acid, dodecyl ester* | 9.5 | 0.7 |
| 5877-42-9 | 1-Octyn-3-ol, 4-ethyl* | 8.7 | 1.4 |
| 6975-98-0 | Decane, 2-methyl | 8.1 | 1.3 |
| 51607-94-4 | Z,E-7,11-Hexadecadien-1-yl acetate* | 8.1 | 0.7 |
| 871-83-0 | Nonane, 2-methyl | 8.0 | 1.4 |
| 1883-13-2 | Dodecanoic acid, 3-hydroxy-* | 7.9 | 0.9 |
| 17302-32-8 | Nonane, 3,7-dimethyl | 7.2 | 1.1 |
| 7058-05-1 | Cyclohexane, 1-ethyl-2,3-dimethyl | 7.2 | 1.2 |
| 62338-08-3 | 3-Hexene, 3-ethyl-2,5-dimethyl* | 7.1 | 1.2 |
| 541-02-6 | Cyclopentasiloxane, decamethyl | 7.0 | 0.5 |
| 81983-71-3 | Cyclohexane, 1,1-dimethyl-2-propyl* | 7.0 | 1.1 |
| 26730-14-3 | Tridecane, 7-methyl* | 6.9 | 0.9 |
| 1000309-21-9 | Sulfurous acid, cyclohexylmethyl undecyl ester* | 6.9 | 0.5 |
| 493-02-7 | t-Decahydronaphthalene | 6.9 | 1.2 |

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| CAS | Compound | Concentration | |
|--------------|---|---------------|-----|
| Number | Compound | μg/m³ | ppb |
| 244074-78-0 | Pentanoic acid, 2,2,4-trimethyl-3-hydroxy-, isobutyl ester* | 6.8 | 0.8 |
| 62016-18-6 | Octane, 5-ethyl-2-methyl* | 6.7 | 1.0 |
| 287-92-3 | Cyclopentane | 6.7 | 2.3 |
| 1560-97-0 | Dodecane, 2-methyl* | 6.5 | 0.9 |
| 629-59-4 | Tetradecane [†] | 6.2 | 0.8 |
| 131141-69-0 | 2,2-Dimethylpropionic acid, dodecyl ester* | 6.1 | 0.6 |
| 108-88-3 | Toluene (Methylbenzene) | 6.1 | 1.6 |
| 61142-23-2 | Cyclohexane, (2,2-dimethylcyclopentyl)* | 6.0 | 0.8 |
| 6117-97-1 | Dodecane, 4-methyl* | 5.9 | 0.8 |
| 21078-65-9 | 1-Decanol, 2-ethyl | 5.8 | 0.8 |
| 66-25-1 | Hexanal | 5.7 | 1.4 |
| 1000152-47-3 | trans-Decalin, 2-methyl-* | 5.6 | 0.9 |
| 17312-57-1 | Dodecane, 3-methyl* | 5.5 | 0.7 |
| 13151-81-0 | Undecane, 6-cyclohexyl- | 5.5 | 0.6 |
| 932-40-1 | trans-1,2-Diethyl cyclopentane* | 5.4 | 1.0 |
| 142-96-1 | n-Butyl ether | 5.3 | 1.0 |
| 100-52-7 | Benzaldehyde | 4.9 | 1.1 |
| 74367-31-0 | Propanoic acid, 2-methyl-, 2-ethyl-3-hydroxyhexyl ester* | 4.4 | 0.5 |
| 1678-82-6 | Cyclohexane, 1-methyl-4-isopropyl, trans | 4.2 | 0.7 |
| 2456-28-2 | Decane, 1,1'-oxybis* | 4.1 | 0.3 |
| 5881-17-4 | Octane, 3-ethyl | 4.1 | 0.7 |
| 13150-81-7 | Decane, 2,6-dimethyl | 3.8 | 0.5 |
| 10059-13-9 | 2-Undecanethiol, 2-methyl* | 3.6 | 0.4 |
| 1000142-34-6 | 2,3-Dioxabicyclo[2.2.1]heptane, 1-methyl-* | 3.6 | 0.8 |
| 1000309-19-5 | Sulfurous acid, dodecyl 2-ethylhexyl ester* | 3.5 | 0.2 |
| 54411-01-7 | Cyclohexane, 1-methyl-2-pentyl* | 3.4 | 0.5 |
| 106-97-8 | Butane | 3.2 | 1.3 |
| 2216-34-4 | Octane, 4-methyl* | 3.2 | 0.6 |
| 92-52-4 | 1,1'-Biphenyl* | 3.1 | 0.5 |
| 62016-30-2 | Octane, 2,3,3-trimethyl-* | 3.1 | 0.5 |
| 78-70-6 | 3,7-Dimethyl-1,6-octadien-3-ol (Linalool) | 3.1 | 0.5 |
| 702-79-4 | Adamantane, 1,3-dimethyl* | 3.1 | 0.5 |
| 91-57-6 | Naphthalene, 2-methyl | 2.9 | 0.5 |
| 111-76-2 | Ethanol, 2-butoxy | 2.9 | 0.6 |
| 15869-89-3 | Octane, 2,5-dimethyl* | 2.9 | 0.5 |
| 112-53-8 | 1-Dodecanol* | 2.8 | 0.4 |
| 13828-37-0 | Cyclohexanemethanol, 4-(1-methylethyl)-, cis-* | 2.8 | 0.4 |
| 7045-71-8 | Undecane, 2-methyl | 2.7 | 0.4 |
| 74645-98-0 | Dodecane, 2,7,10-trimethyl* | 2.7 | 0.3 |
| 71-36-3 | 1-Butanol (N-Butyl alcohol) | 2.7 | 0.9 |
| 1000160-77-0 | 1-Heptanal, 3,5,5-triethyl-* | 2.6 | 0.3 |
| 100-42-5 | Styrene [†] | 2.4 | 0.6 |
| 71-43-2 | Benzene [†] | 2.3 | 0.7 |

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|--------------|-----------------|
| Sample Date: | October 9, 2020 |
| Volume (L): | 17.3 |

| CAS | Compound | Concentration | |
|--------------|---|---------------|-----|
| Number | | μg/m³ | ppb |
| 1000462-96-7 | (+)-cis-Verbenol, 2-methylpropionate* | 2.2 | 0.2 |
| 645-10-3 | Cyclodecane, 1,7-dimethyl-4-(1-methylethyl)-* | 2.2 | 0.3 |
| 123-86-4 | Acetate, butyl | 2.2 | 0.5 |
| 79-41-4 | 2-Propenoic acid, 2-methyl* | 2.0 | 0.6 |

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| Sample Date: | October 9, 2020 |
| Volume (L): | 18.0 |

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

| Sample | mple Location/Description BURN_064_LR_Hall_Field | | d Blank | |
|----------------|--|-------|---------|----------|
| Total Volatile | Organic Compounds | BQL | | |
| CAS | Compound | | Concer | ntration |
| Number | 301 | μg/m³ | | ppb |
| | none | | | |

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| UL ID: | SV2TFD |
|--------------|------------------|
| Sample Date: | October 10, 2020 |
| Volume (L): | 17.3 |

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

| Sample Location/Description | Burn_06_LR_Hall_Post |
|----------------------------------|----------------------|
| Total Volatile Organic Compounds | 79.3 μg/m³ |

| CAS | Compound | Concentration | | |
|----------|---|---------------|-----|--|
| Number | Compound | μg/m³ | ppb | |
| 71-43-2 | Benzene† | 22.9 | 7.2 | |
| 100-42-5 | Styrene [†] | 16.2 | 3.8 | |
| 64-19-7 | Acetic acid | 10.6 | 4.3 | |
| 80-62-6 | Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester) | 7.0 | 1.7 | |
| 98-01-1 | Furfural (2-Furaldehyde) | 6.8 | 1.7 | |
| 91-20-3 | Naphthalene [†] | 5.1 | 1.0 | |
| 116-09-6 | 2-Propanone, 1-hydroxy | 4.7 | 1.5 | |
| 108-88-3 | Toluene (Methylbenzene) | 4.5 | 1.2 | |
| 108-95-2 | Phenol [†] | 4.2 | 1.1 | |
| 66-25-1 | Hexanal | 3.4 | 0.8 | |
| 98-83-9 | a-Methylstyrene (iso-Propenylbenzene; (1- Methylethenyl)benzene) | 2.4 | 0.5 | |
| 141-32-2 | Butyl acrylate (2-Propenoic Acid, butyl ester) | 2.3 | 0.4 | |
| 120-92-3 | Cyclopentanone | 2.2 | 0.6 | |
| 98-00-0 | 2-Furanmethanol* | 2.0 | 0.5 | |
| 90-05-1 | Phenol, 2-methoxy* | 2.0 | 0.4 | |

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 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 \leq 36 ng of total VOC.

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

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|---|---|--|--|---------------------|---|---------------------------------------|------------------------|---------------------------|---------------------------|
| 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: 09-10 OCT 2 | | OCT 2020 | |
| | | Fax: 703.323.4440 | | | Investigator: SAM.HORNI | | ORNER | | |
| | RGANICS: IVO | C SCAN: TOF | 20 IVOC _ | TVOC ON | LY 0 | THER _ | B.T.E.X. | | |
| appropriate fields; Use separate COC for each sample | | FORMALDEHYDE ONLY ANALYSIS: LEED V4 LEED \ | | | | 4.1 OTHE | R B.T.E.X. | | |
| TAT: Standa | rd X Next [| Day Rush** R | ush charges | apply; please ca | II in advance | to confi | m availability | | |
| | | | | | | | | | |
| SAMPLE ID/ TUBE ID | | | START TIME | STOP TIME | SAMP | LED | PUMP ID # | FLOW RATE (L/MIN) | VOLUME (L) |
| 2009049NY-06A/ s/n B26945 | Burn_06_LR | R_Hall_Pre | 09OCT 17:40 | 09OCT 18:40 | 1 | / | 4257 | 0.288 L | 17.26 L |
| 2009049NY-06B/ s/n B27006 | Burn_06_LF | R_Hall_Post | 10OCT 12:15 | 10OCT 13:15 | 60 | | 4257 | 0.288 L | 17.29 L |
| Vo (F 2009049NY-06C/ s/n B26978 Burn_06_ | | LHall_Field Blan | k | | | | | | n/a |
| | | | | | Descri 2009049 | iption | 45 | 33 | 387945 |
| M.HORNER | Date/Time: 1200 | CT2020 | Method of S | hipment: UPS Next | | | L Environme | | * |
| | 1 Old Lee Hight fax, VA 22030 VOLATILE 0 SE TAT: Standa SAMPLE ID/ TUBE ID 2009049NY-06A/ s/n B26945 2009049NY-06B/ s/n B27006 2009049NY-06C/ s/n B26978 | Old Lee Highway #100 | Contact: CARE 1 Old Lee Highway #100 fax, VA 22030 Phone: 571.65 Fax: 703.32 VOLATILE ORGANICS: IVOC SCAN: TOF ALDEHYDE SCAN: FORMALDEHYDE ON TAT: StandardX Next Day Rush* * R SAMPLE ID/ TUBE ID SAMPLE LOCATION/ DESCRIPTION Burn_06_LR_Hall_Pre 2009049NY-06B/ s/n B26945 Burn_06_LR_Hall_Post Burn_06_LR_Hall_Field Blan Burn_06_LR_Hall_Field Blan | Contact: CARESULTS@ | Contact: CARESULTS@UL.COM Contact: CARESULTS@UL.COM | Contact: CARESULTS@UL.COM | 1 Old Lee Highway #100 | Contact: CARESULTS@UL.COM | Contact: CARESULTS@UL.COM |

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