284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: LOCK01

Lab Code: ACE SDG No.: Q3254

Instrument ID: MSVOA_V Calibration Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:26 16:35

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF010 = VV039137.D RRF020 = VV039138.D RRF050 = VV039139.D
RRF100 = VV039140.D RRF005 = VV039142.D RRF001 = VV039143.D

| COMPOUND | RRF010 | RRF020 | RRF050 | RRF100 | RRF005 | RRF001 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 1.007 | 0.856 | 0.836 | 0.801 | 0.932 | 1.026 | 0.910 | 10.3 |
| Chloroethane | 0.662 | 0.568 | 0.533 | 0.500 | 0.606 | 0.915 | 0.631 | 23.8 |
| Trichlorofluoromethane | 1.394 | 1.253 | 1.193 | 1.151 | 1.365 | 1.546 | 1.317 | 11.2 |
| 1,1-Dichloroethene | 0.804 | 0.721 | 0.674 | 0.663 | 0.789 | 0.873 | 0.754 | 10.9 |
| Acrylonitrile | 0.507 | 0.462 | 0.436 | 0.427 | 0.522 | 0.587 | 0.490 | 12.4 |
| Acetone | 0.537 | 0.458 | 0.449 | 0.414 | 0.569 | 0.712 | 0.523 | 20.8 |
| Carbon Disulfide | 2.453 | 2.181 | 2.081 | 1.986 | 2.462 | 2.670 | 2.306 | 11.4 |
| Methylene Chloride | 0.930 | 0.848 | 0.779 | 0.742 | 1.113 | 1.987 | 1.066 | 44 |
| Vinyl Acetate | 2.393 | 2.241 | 2.204 | 2.128 | 2.313 | 2.243 | 2.254 | 4 |
| 2-Butanone | 0.604 | 0.584 | 0.586 | 0.580 | 0.570 | 0.554 | 0.579 | 2.9 |
| Carbon Tetrachloride | 0.742 | 0.710 | 0.703 | 0.675 | 0.736 | 0.890 | 0.743 | 10.2 |
| cis-1,2-Dichloroethene | 0.908 | 0.842 | 0.868 | 0.860 | 0.832 | 1.001 | 0.885 | 7.1 |
| Bromochloromethane | 0.836 | 0.753 | 0.679 | 0.637 | 0.525 | 0.743 | 0.696 | 15.5 |
| Chloroform | 1.752 | 1.570 | 1.490 | 1.433 | 1.746 | 1.880 | 1.645 | 10.6 |
| 1,1,1-Trichloroethane | 1.562 | 1.321 | 1.298 | 1.263 | 1.513 | 1.590 | 1.424 | 10.3 |
| Benzene | 2.077 | 1.978 | 1.990 | 1.931 | 1.963 | 1.936 | 1.979 | 2.7 |
| 1,2-Dichloropropane | 0.509 | 0.519 | 0.502 | 0.486 | 0.471 | 0.465 | 0.492 | 4.4 |
| Dibromomethane | 0.392 | 0.367 | 0.368 | 0.354 | 0.381 | 0.396 | 0.376 | 4.4 |
| Bromodichloromethane | 0.832 | 0.764 | 0.753 | 0.725 | 0.767 | 0.829 | 0.778 | 5.5 |
| 4-Methyl-2-Pentanone | 0.715 | 0.736 | 0.732 | 0.714 | 0.613 | 0.459 | 0.661 | 16.5 |
| Toluene | 1.211 | 1.199 | 1.229 | 1.214 | 1.130 | 0.901 | 1.147 | 10.9 |
| t-1,3-Dichloropropene | 0.701 | 0.696 | 0.728 | 0.753 | 0.645 | 0.548 | 0.678 | 10.8 |
| cis-1,3-Dichloropropene | 0.803 | 0.777 | 0.811 | 0.803 | 0.704 | 0.595 | 0.749 | 11.4 |
| 2-Hexanone | 0.505 | 0.534 | 0.546 | 0.533 | 0.429 | 0.231 | 0.463 | 26.2 |
| Dibromochloromethane | 0.605 | 0.570 | 0.567 | 0.558 | 0.598 | 0.620 | 0.586 | 4.2 |
| 1,2-Dibromoethane | 0.556 | 0.538 | 0.529 | 0.514 | 0.535 | 0.484 | 0.526 | 4.7 |
| Tetrachloroethene | 0.435 | 0.412 | 0.412 | 0.407 | 0.431 | 0.415 | 0.419 | 2.7 |
| Chlorobenzene | 1.403 | 1.368 | 1.383 | 1.358 | 1.417 | 1.428 | 1.393 | 2 |
| 1,1,1,2-Tetrachloroethane | 0.520 | 0.488 | 0.488 | 0.477 | 0.504 | 0.543 | 0.503 | 4.8 |
| Ethyl Benzene | 2.028 | 2.143 | 2.382 | 2.418 | 1.953 | 1.725 | 2.108 | 12.5 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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| COMPOUND | RRF010 | RRF020 | RRF050 | RRF100 | RRF005 | RRF001 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| m/p-Xylenes | 0.820 | 0.882 | 0.949 | 0.938 | 0.713 | 0.580 | 0.814 | 17.7 |
| o-Xylene | 0.703 | 0.742 | 0.846 | 0.880 | 0.635 | 0.518 | 0.720 | 18.7 |
| Styrene | 1.239 | 1.381 | 1.553 | 1.537 | 1.038 | 0.828 | 1.263 | 22.8 |
| Bromoform | 0.396 | 0.384 | 0.396 | 0.400 | 0.385 | 0.397 | 0.393 | 1.7 |
| 1,1,2,2-Tetrachloroethane | 1.600 | 1.461 | 1.425 | 1.389 | 1.684 | 1.975 | 1.589 | 13.8 |
| 1,2,3-Trichloropropane | 1.136 | 1.048 | 1.049 | 1.023 | 1.201 | 1.375 | 1.138 | 11.7 |
| 1,4-Dichlorobenzene | 2.070 | 1.951 | 1.934 | 1.919 | 2.139 | 2.522 | 2.089 | 11 |
| 1,2-Dichlorobenzene | 1.751 | 1.652 | 1.738 | 1.802 | 1.797 | 1.935 | 1.779 | 5.3 |
| 1,2-Dibromo-3-Chloropropane | 0.299 | 0.283 | 0.285 | 0.302 | 0.333 | 0.476 | 0.330 | 22.4 |
| 1,2-Dichloroethane-d4 | 0.773 | 0.663 | 0.646 | 0.618 | 0.919 | | 0.724 | 17.1 |
| Dibromofluoromethane | 0.435 | 0.382 | 0.377 | 0.360 | 0.454 | | 0.402 | 10.1 |
| Toluene-d8 | 1.166 | 1.092 | 1.136 | 1.097 | 1.411 | | 1.181 | 11.2 |
| 4-Bromofluorobenzene | 0.481 | 0.464 | 0.507 | 0.501 | 0.477 | | 0.486 | 3.6 |
| Methyl Iodide | 0.772 | 0.742 | 0.786 | 0.793 | 0.638 | | 0.746 | 8.5 |
| trans-1,4-Dichloro-2-butene | 0.478 | 0.451 | 0.495 | 0.521 | 0.427 | | 0.474 | 7.8 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.