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

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM Case No.: Q1883 SAS No.: Q1883 SDG No.: Q1883

Instrument ID: MSVOA_Y Calibration Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Calibration Time(s): 13:39 16:15

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY021953.D RRF010 = VY021954.D RRF020 = VY021955.D
RRF050 = VY021956.D RRF100 = VY021957.D RRF150 = VY021958.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.469 | 0.477 | 0.405 | 0.393 | 0.408 | 0.405 | 0.426 | 8.7 |
| Chloromethane | 0.704 | 0.670 | 0.636 | 0.602 | 0.529 | 0.498 | 0.607 | 13.2 |
| Vinyl Chloride | 0.829 | 0.830 | 0.758 | 0.730 | 0.680 | 0.647 | 0.745 | 10.1 |
| Bromomethane | 0.782 | 0.697 | 0.674 | 0.596 | 0.554 | 0.550 | 0.642 | 14.3 |
| Chloroethane | 0.589 | 0.550 | 0.524 | 0.494 | 0.460 | 0.429 | 0.508 | 11.6 |
| Tetrahydrofuran | 0.067 | 0.065 | 0.072 | 0.073 | 0.066 | 0.067 | 0.068 | 4.9 |
| Trichlorofluoromethane | 1.048 | 1.075 | 0.987 | 0.960 | 0.921 | 0.907 | 0.983 | 6.9 |
| 1,1,2-Trichlorotrifluoroethane | 0.604 | 0.591 | 0.530 | 0.489 | 0.497 | 0.488 | 0.533 | 9.8 |
| 1,1-Dichloroethene | 0.525 | 0.532 | 0.483 | 0.471 | 0.487 | 0.484 | 0.497 | 5 |
| Acrylonitrile | 0.103 | 0.090 | 0.099 | 0.093 | 0.088 | 0.088 | 0.094 | 6.6 |
| Acetone | 0.092 | 0.084 | 0.066 | 0.063 | 0.058 | 0.057 | 0.070 | 20.7 |
| Carbon Disulfide | 1.736 | 1.737 | 1.569 | 1.493 | 1.516 | 1.459 | 1.585 | 7.7 |
| Methyl tert-butyl Ether | 1.098 | 1.067 | 1.102 | 1.133 | 1.141 | 1.134 | 1.113 | 2.6 |
| Methylene Chloride | 0.759 | 0.625 | 0.574 | 0.533 | 0.518 | 0.494 | 0.584 | 16.7 |
| trans-1,2-Dichloroethene | 0.619 | 0.578 | 0.533 | 0.532 | 0.546 | 0.532 | 0.557 | 6.3 |
| 1,1-Dichloroethane | 0.987 | 0.943 | 0.893 | 0.853 | 0.855 | 0.826 | 0.893 | 6.9 |
| 2-Butanone | 0.111 | 0.107 | 0.108 | 0.106 | 0.099 | 0.100 | 0.105 | 4.5 |
| Carbon Tetrachloride | 0.540 | 0.563 | 0.512 | 0.507 | 0.535 | 0.523 | 0.530 | 3.9 |
| 2,2-Dichloropropane | 0.841 | 0.830 | 0.763 | 0.743 | 0.770 | 0.748 | 0.782 | 5.4 |
| cis-1,2-Dichloroethene | 0.626 | 0.638 | 0.604 | 0.612 | 0.633 | 0.621 | 0.622 | 2.1 |
| Chloroform | 1.084 | 1.046 | 0.974 | 0.956 | 0.958 | 0.925 | 0.990 | 6.2 |
| 1,1,1-Trichloroethane | 0.972 | 0.944 | 0.896 | 0.853 | 0.865 | 0.846 | 0.896 | 5.8 |
| 1,1-Dichloropropene | 0.455 | 0.470 | 0.424 | 0.425 | 0.450 | 0.437 | 0.444 | 4.1 |
| Benzene | 1.423 | 1.439 | 1.351 | 1.337 | 1.415 | 1.358 | 1.387 | 3.1 |
| 1,2-Dichloroethane | 0.347 | 0.367 | 0.350 | 0.335 | 0.336 | 0.325 | 0.343 | 4.3 |
| Trichloroethene | 0.402 | 0.405 | 0.369 | 0.367 | 0.387 | 0.375 | 0.384 | 4.3 |
| 1,2-Dichloropropane | 0.320 | 0.317 | 0.302 | 0.300 | 0.308 | 0.294 | 0.307 | 3.4 |
| Dibromomethane | 0.202 | 0.193 | 0.192 | 0.187 | 0.191 | 0.187 | 0.192 | 3 |
| Bromodichloromethane | 0.479 | 0.504 | 0.464 | 0.470 | 0.490 | 0.471 | 0.480 | 3.1 |
| 4-Methyl-2-Pentanone | 0.144 | 0.149 | 0.167 | 0.172 | 0.166 | 0.165 | 0.160 | 6.9 |

* 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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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM Case No.: Q1883 SAS No.: Q1883 SDG No.: Q1883

Instrument ID: MSVOA_Y Calibration Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Calibration Time(s): 13:39 16:15

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY021953.D RRF010 = VY021954.D RRF020 = VY021955.D
RRF050 = VY021956.D RRF100 = VY021957.D RRF150 = VY021958.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.838 | 0.915 | 0.875 | 0.894 | 0.952 | 0.913 | 0.898 | 4.4 |
| t-1,3-Dichloropropene | 0.383 | 0.408 | 0.399 | 0.417 | 0.437 | 0.425 | 0.411 | 4.7 |
| cis-1,3-Dichloropropene | 0.466 | 0.488 | 0.483 | 0.484 | 0.514 | 0.500 | 0.489 | 3.3 |
| 1,1,2-Trichloroethane | 0.250 | 0.261 | 0.261 | 0.256 | 0.258 | 0.252 | 0.256 | 1.8 |
| 1,3-Dichloropropane | 0.413 | 0.420 | 0.405 | 0.409 | 0.417 | 0.404 | 0.411 | 1.6 |
| 2-Hexanone | 0.093 | 0.096 | 0.109 | 0.115 | 0.111 | 0.111 | 0.106 | 8.5 |
| Dibromochloromethane | 0.345 | 0.355 | 0.354 | 0.352 | 0.367 | 0.357 | 0.355 | 2 |
| 1,2-Dibromoethane | 0.238 | 0.243 | 0.243 | 0.241 | 0.247 | 0.240 | 0.242 | 1.3 |
| Tetrachloroethene | 0.500 | 0.516 | 0.462 | 0.455 | 0.466 | 0.430 | 0.472 | 6.6 |
| Chlorobenzene | 1.188 | 1.152 | 1.055 | 1.083 | 1.139 | 1.092 | 1.118 | 4.5 |
| 1,1,1,2-Tetrachloroethane | 0.401 | 0.409 | 0.376 | 0.386 | 0.401 | 0.388 | 0.394 | 3.1 |
| Ethyl Benzene | 1.693 | 1.840 | 1.718 | 1.835 | 1.990 | 1.898 | 1.829 | 6.1 |
| m/p-Xylenes | 0.664 | 0.720 | 0.699 | 0.734 | 0.797 | 0.754 | 0.728 | 6.3 |
| o-Xylene | 0.599 | 0.639 | 0.635 | 0.689 | 0.747 | 0.716 | 0.671 | 8.3 |
| Styrene | 0.950 | 1.080 | 1.078 | 1.169 | 1.272 | 1.209 | 1.126 | 10.2 |
| Bromoform | 0.234 | 0.221 | 0.224 | 0.229 | 0.236 | 0.229 | 0.229 | 2.5 |
| Isopropylbenzene | 3.061 | 3.316 | 3.102 | 3.325 | 3.639 | 3.599 | 3.341 | 7.2 |
| 1,1,2,2-Tetrachloroethane | 0.601 | 0.562 | 0.555 | 0.548 | 0.555 | 0.558 | 0.563 | 3.4 |
| 1,2,3-Trichloropropane | 0.498 | 0.445 | 0.418 | 0.405 | 0.408 | 0.397 | 0.428 | 8.8 |
| Bromobenzene | 0.855 | 0.831 | 0.780 | 0.828 | 0.890 | 0.881 | 0.844 | 4.8 |
| n-propylbenzene | 3.708 | 3.996 | 3.778 | 3.977 | 4.258 | 4.152 | 3.978 | 5.3 |
| 2-Chlorotoluene | 2.253 | 2.343 | 2.179 | 2.280 | 2.435 | 2.391 | 2.314 | 4.1 |
| 1,3,5-Trimethylbenzene | 2.467 | 2.757 | 2.614 | 2.800 | 2.978 | 2.898 | 2.752 | 6.8 |
| 4-Chlorotoluene | 2.313 | 2.501 | 2.270 | 2.380 | 2.521 | 2.445 | 2.405 | 4.2 |
| tert-Butylbenzene | 2.246 | 2.382 | 2.263 | 2.494 | 2.725 | 2.701 | 2.469 | 8.5 |
| 1,2,4-Trimethylbenzene | 2.415 | 2.717 | 2.631 | 2.784 | 3.027 | 2.945 | 2.753 | 8 |
| sec-Butylbenzene | 3.254 | 3.724 | 3.409 | 3.602 | 3.898 | 3.786 | 3.612 | 6.7 |
| p-Isopropyltoluene | 2.717 | 3.016 | 2.869 | 3.094 | 3.386 | 3.321 | 3.067 | 8.4 |
| 1,3-Dichlorobenzene | 1.730 | 1.784 | 1.595 | 1.647 | 1.789 | 1.742 | 1.714 | 4.5 |
| 1,4-Dichlorobenzene | 1.821 | 1.726 | 1.605 | 1.620 | 1.733 | 1.682 | 1.698 | 4.7 |

* Compounds with required minimum RRF and maximum %RSD values.
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Heated Purge: (Y/N) Y Calibration Time(s): 13:39 16:15

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RRF050 = VY021956.D RRF100 = VY021957.D RRF150 = VY021958.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 2.477 | 2.790 | 2.545 | 2.742 | 2.976 | 2.919 | 2.742 | 7.2 |
| 1,2-Dichlorobenzene | 1.523 | 1.522 | 1.434 | 1.452 | 1.537 | 1.505 | 1.495 | 2.8 |
| 1,2-Dibromo-3-Chloropropane | 0.097 | 0.091 | 0.094 | 0.084 | 0.085 | 0.087 | 0.090 | 5.9 |
| 1,2,4-Trichlorobenzene | 0.747 | 0.800 | 0.785 | 0.823 | 0.970 | 0.959 | 0.847 | 11.1 |
| Hexachlorobutadiene | 0.522 | 0.545 | 0.483 | 0.480 | 0.555 | 0.544 | 0.521 | 6.3 |
| 1,2,3-Trichlorobenzene | 0.671 | 0.673 | 0.684 | 0.707 | 0.829 | 0.825 | 0.731 | 10.2 |
| 1,2-Dichloroethane-d4 | 0.525 | 0.477 | 0.459 | 0.466 | 0.418 | 0.427 | 0.462 | 8.3 |
| Dibromofluoromethane | 0.335 | 0.341 | 0.330 | 0.330 | 0.319 | 0.327 | 0.330 | 2.3 |
| Toluene-d8 | 1.220 | 1.260 | 1.211 | 1.276 | 1.244 | 1.261 | 1.245 | 2 |
| 4-Bromofluorobenzene | 0.408 | 0.429 | 0.401 | 0.426 | 0.423 | 0.428 | 0.419 | 2.8 |
| trans-1,4-Dichloro-2-butene | 0.185 | 0.174 | 0.170 | 0.177 | 0.181 | 0.181 | 0.178 | 2.9 |

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