

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 82X102025W.M  
 Title : SW846 8260  
 Last Update : Mon Oct 20 14:13:59 2025  
 Response Via : Initial Calibration

## Calibration Files

1 =VX048229.D 5 =VX048236.D 20 =VX048231.D 50 =VX048232.D 100 =VX048233.D 150 =VX048234.D

|        | Compound            | 1              | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 0.522          | 0.522 | 0.513 | 0.483 | 0.540 | 0.504 | 0.514 | 3.74  |
| 3) P   | Chloromethane       | 0.506          | 0.508 | 0.468 | 0.449 | 0.476 | 0.471 | 0.480 | 4.81  |
| 4) C   | Vinyl Chloride      | 0.447          | 0.458 | 0.437 | 0.416 | 0.462 | 0.445 | 0.444 | 3.69# |
| 5) T   | Bromomethane        |                | 0.346 | 0.323 | 0.282 | 0.280 | 0.276 | 0.302 | 10.42 |
| 6) T   | Chloroethane        | 0.233          | 0.261 | 0.277 | 0.247 | 0.282 | 0.267 | 0.261 | 7.16  |
| 7) T   | Trichlorofluor...   | 0.776          | 0.880 | 0.874 | 0.807 | 0.907 | 0.869 | 0.852 | 5.83  |
| 8) T   | Diethyl Ether       | 0.231          | 0.237 | 0.257 | 0.223 | 0.248 | 0.242 | 0.240 | 5.06  |
| 9) T   | 1,1,2-Trichlor...   | 0.512          | 0.553 | 0.540 | 0.501 | 0.583 | 0.549 | 0.540 | 5.48  |
| 10) T  | Methyl Iodide       |                | 0.569 | 0.636 | 0.663 | 0.781 | 0.742 | 0.678 | 12.47 |
| 11) T  | Tert butyl alc...   |                | 0.087 | 0.069 | 0.062 | 0.067 | 0.064 | 0.070 | 14.22 |
| 12) CM | 1,1-Dichloroet...   | 0.515          | 0.514 | 0.548 | 0.485 | 0.558 | 0.531 | 0.525 | 5.03# |
| 13) T  | Acrolein            |                | 0.079 | 0.063 | 0.065 | 0.074 | 0.073 | 0.071 | 9.21  |
| 14) T  | Allyl chloride      | 0.897          | 0.833 | 0.909 | 0.805 | 0.911 | 0.874 | 0.872 | 5.00  |
| 15) T  | Acrylonitrile       | 0.255          | 0.245 | 0.267 | 0.239 | 0.254 | 0.246 | 0.251 | 3.89  |
| 16) T  | Acetone             | 0.300          | 0.262 | 0.250 | 0.202 | 0.221 | 0.206 | 0.240 | 15.70 |
| 17) T  | Carbon Disulfide    | 2.034          | 1.689 | 1.612 | 1.442 | 1.617 | 1.532 | 1.654 | 12.36 |
| 18) T  | Methyl Acetate      | 0.514          | 0.464 | 0.551 | 0.466 | 0.514 | 0.504 | 0.502 | 6.56  |
| 19) T  | Methyl tert-bu...   | 1.894          | 1.657 | 1.909 | 1.704 | 1.817 | 1.764 | 1.791 | 5.66  |
| 20) T  | Methylene Chlo...   | 0.555          | 0.595 | 0.651 | 0.552 | 0.597 | 0.567 | 0.586 | 6.36  |
| 21) T  | trans-1,2-Dich...   | 0.587          | 0.603 | 0.585 | 0.535 | 0.592 | 0.558 | 0.577 | 4.38  |
| 22) T  | Diisopropyl ether   | 1.697          | 1.701 | 1.881 | 1.662 | 1.787 | 1.701 | 1.738 | 4.69  |
| 23) T  | Vinyl Acetate       | 1.261          | 1.326 | 1.521 | 1.348 | 1.466 | 1.408 | 1.389 | 6.90  |
| 24) P  | 1,1-Dichloroet...   | 1.116          | 1.054 | 1.085 | 0.977 | 1.055 | 1.019 | 1.051 | 4.64  |
| 25) T  | 2-Butanone          | 0.311          | 0.315 | 0.329 | 0.281 | 0.301 | 0.290 | 0.304 | 5.70  |
| 26) T  | 2,2-Dichloropr...   | 1.002          | 0.945 | 0.973 | 0.876 | 0.973 | 0.924 | 0.949 | 4.69  |
| 27) T  | cis-1,2-Dichlo...   | 0.682          | 0.673 | 0.700 | 0.626 | 0.695 | 0.661 | 0.673 | 4.03  |
| 28) T  | Bromochloromet...   | 0.388          | 0.469 | 0.404 | 0.441 | 0.462 | 0.452 | 0.436 | 7.52  |
| 29) T  | Tetrahydrofuran     | 0.178          | 0.183 | 0.198 | 0.171 | 0.184 | 0.180 | 0.182 | 5.00  |
| 30) C  | Chloroform          | 1.147          | 1.143 | 1.208 | 1.046 | 1.127 | 1.067 | 1.123 | 5.22# |
| 31) T  | Cyclohexane         |                | 0.843 | 0.894 | 0.821 | 0.926 | 0.866 | 0.870 | 4.76  |
| 32) T  | 1,1,1-Trichlor...   | 1.049          | 1.041 | 1.085 | 0.973 | 1.055 | 1.007 | 1.035 | 3.83  |
| 33) S  | 1,2-Dichloroet...   |                | 0.725 | 0.709 | 0.682 | 0.690 | 0.698 | 0.701 | 2.40  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   |                | 0.338 | 0.345 | 0.330 | 0.346 | 0.348 | 0.341 | 2.17  |
| 36) T  | 1,1-Dichloropr...   | 0.562          | 0.475 | 0.491 | 0.433 | 0.490 | 0.460 | 0.485 | 8.96  |
| 37) T  | Ethyl Acetate       | 0.459          | 0.396 | 0.396 | 0.368 | 0.410 | 0.384 | 0.402 | 7.71  |
| 38) T  | Carbon Tetrach...   | 0.650          | 0.622 | 0.594 | 0.553 | 0.604 | 0.567 | 0.599 | 5.95  |
| 39) T  | Methylcyclohexane   | 0.551          | 0.590 | 0.548 | 0.540 | 0.626 | 0.582 | 0.573 | 5.73  |
| 40) TM | Benzene             | 1.493          | 1.405 | 1.480 | 1.301 | 1.426 | 1.347 | 1.409 | 5.30  |
| 41) T  | Methacrylonitrile   | 0.192          | 0.198 | 0.237 | 0.205 | 0.223 | 0.213 | 0.211 | 7.85  |
| 42) TM | 1,2-Dichloroet...   | 0.529          | 0.499 | 0.566 | 0.500 | 0.528 | 0.496 | 0.520 | 5.23  |
| 43) T  | Isopropyl Acetate   | 0.659          | 0.612 | 0.709 | 0.635 | 0.682 | 0.665 | 0.661 | 5.16  |
| 44) TM | Trichloroethene     | 0.400          | 0.366 | 0.373 | 0.348 | 0.380 | 0.363 | 0.372 | 4.73  |
| 45) C  | 1,2-Dichloropr...   | 0.309          | 0.337 | 0.362 | 0.321 | 0.347 | 0.333 | 0.335 | 5.54# |
| 46) T  | Dibromomethane      | 0.267          | 0.264 | 0.277 | 0.247 | 0.261 | 0.249 | 0.261 | 4.35  |
| 47) T  | Bromodichlorom...   | 0.570          | 0.567 | 0.592 | 0.538 | 0.573 | 0.538 | 0.563 | 3.79  |
| 48) T  | Methyl methacr...   | 0.332          | 0.300 | 0.356 | 0.322 | 0.350 | 0.340 | 0.333 | 6.07  |
| 49) T  | 1,4-Dioxane         | 0.003          | 0.004 | 0.005 | 0.004 | 0.005 | 0.005 | 0.004 | 12.99 |
| 50) S  | Toluene-d8          |                | 1.221 | 1.185 | 1.185 | 1.195 | 1.195 | 1.196 | 1.22  |
| 51) T  | 4-Methyl-2-Pen...   | 0.366          | 0.374 | 0.422 | 0.377 | 0.384 | 0.362 | 0.381 | 5.71  |
| 52) CM | Toluene             | 0.881          | 0.925 | 0.944 | 0.861 | 0.910 | 0.849 | 0.895 | 4.15# |
| 53) T  | t-1,3-Dichloro...   | 0.477          | 0.526 | 0.582 | 0.545 | 0.574 | 0.553 | 0.543 | 7.02  |
| 54) T  | cis-1,3-Dichlo...   | 0.582          | 0.556 | 0.604 | 0.572 | 0.615 | 0.585 | 0.586 | 3.67  |
| 55) T  | 1,1,2-Trichlor...   | 0.318          | 0.355 | 0.357 | 0.321 | 0.333 | 0.313 | 0.333 | 5.78  |
| 56) T  | Ethyl methacry...   | 0.418          | 0.451 | 0.536 | 0.490 | 0.524 | 0.502 | 0.487 | 9.17  |

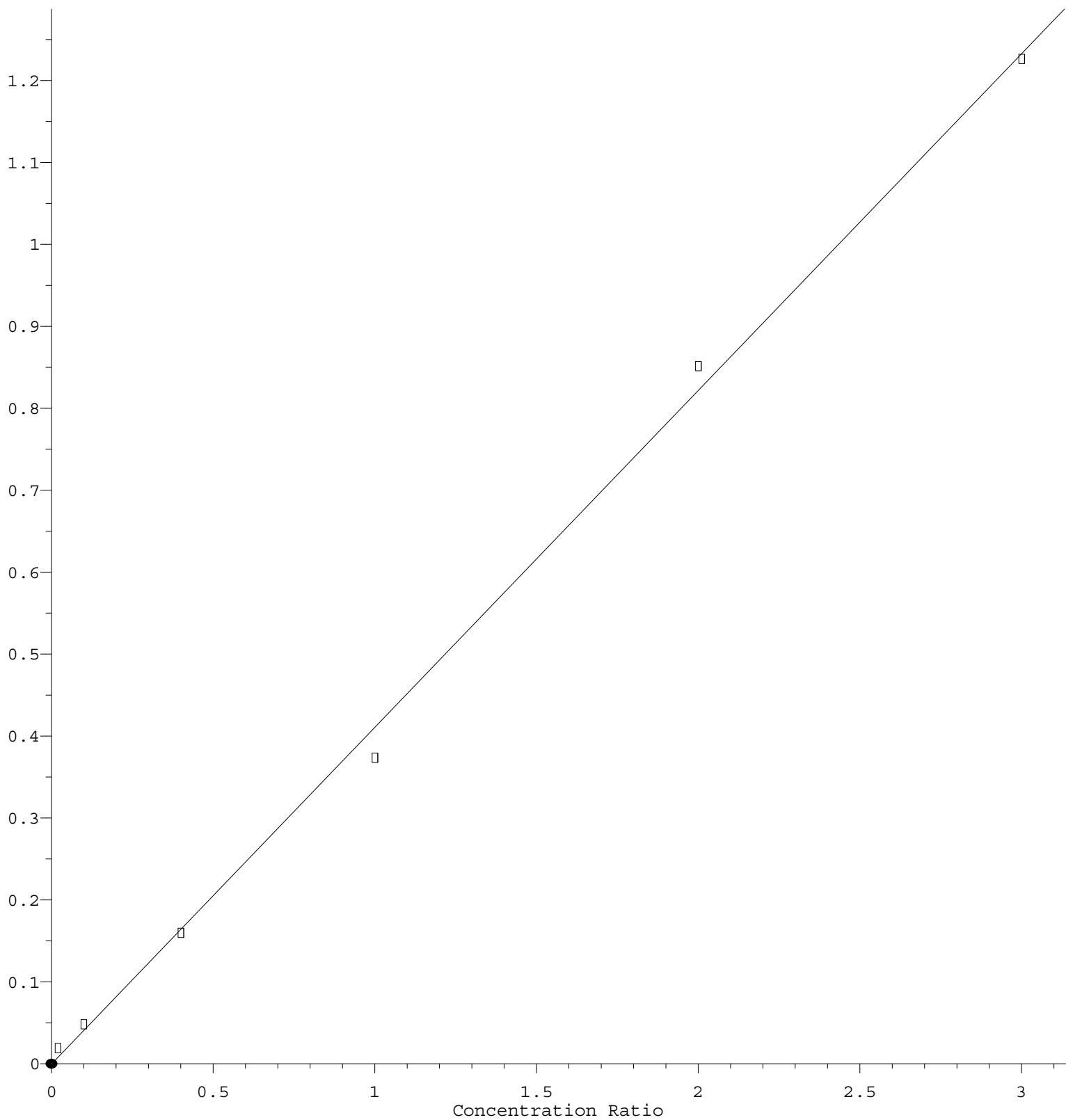
Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 82X102025W.M

|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.563          | 0.572 | 0.614 | 0.548 | 0.572 | 0.541 | 0.568 | 4.51  |
| 58) | T  | 2-Chloroethyl ...     | 0.154          | 0.182 | 0.269 | 0.260 | 0.269 | 0.260 | 0.232 | 21.93 |
| 59) | T  | 2-Hexanone            | 0.231          | 0.271 | 0.298 | 0.267 | 0.271 | 0.256 | 0.266 | 8.30  |
| 60) | T  | Dibromochlorom...     | 0.482          | 0.441 | 0.476 | 0.425 | 0.442 | 0.418 | 0.447 | 5.89  |
| 61) | T  | 1,2-Dibromoethane     | 0.346          | 0.353 | 0.393 | 0.342 | 0.359 | 0.336 | 0.355 | 5.72  |
| 62) | S  | 4-Bromofluorob...     | 0.500          | 0.445 | 0.444 | 0.446 | 0.441 | 0.455 |       | 5.51  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.418          | 0.385 | 0.378 | 0.328 | 0.370 | 0.361 | 0.373 | 7.92  |
| 65) | PM | Chlorobenzene         | 1.149          | 1.145 | 1.159 | 1.045 | 1.148 | 1.102 | 1.125 | 3.89  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.422          | 0.405 | 0.423 | 0.390 | 0.430 | 0.409 | 0.413 | 3.53  |
| 67) | C  | Ethyl Benzene         | 1.905          | 1.876 | 1.954 | 1.825 | 2.008 | 1.922 | 1.915 | 3.30# |
| 68) | T  | m/p-Xylenes           | 0.647          | 0.727 | 0.750 | 0.687 | 0.750 | 0.707 | 0.712 | 5.60  |
| 69) | T  | o-Xylene              | 0.652          | 0.684 | 0.712 | 0.664 | 0.723 | 0.686 | 0.687 | 3.93  |
| 70) | T  | Styrene               | 1.054          | 1.165 | 1.236 | 1.143 | 1.247 | 1.173 | 1.170 | 5.98  |
| 71) | P  | Bromoform             | 0.338          | 0.325 | 0.350 | 0.308 | 0.335 | 0.326 | 0.330 | 4.27  |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.618          | 3.579 | 3.656 | 3.430 | 3.875 | 3.754 | 3.652 | 4.17  |
| 74) | T  | N-ethyl acetate       | 1.229          | 1.150 | 1.339 | 1.248 | 1.415 | 1.392 | 1.295 | 7.97  |
| 75) | P  | 1,1,2,2-Tetrac...     | 0.988          | 0.974 | 1.065 | 0.946 | 1.018 | 0.992 | 0.997 | 4.08  |
| 76) | T  | 1,2,3-Trichlor...     | 0.929          | 0.767 | 0.822 | 0.735 | 0.810 | 0.802 | 0.811 | 8.14  |
| 77) | T  | Bromobenzene          | 0.940          | 0.897 | 0.930 | 0.858 | 0.953 | 0.916 | 0.916 | 3.73  |
| 78) | T  | n-propylbenzene       | 4.000          | 4.169 | 4.255 | 4.017 | 4.544 | 4.385 | 4.228 | 5.02  |
| 79) | T  | 2-Chlorotoluene       | 2.575          | 2.512 | 2.615 | 2.397 | 2.693 | 2.590 | 2.564 | 3.92  |
| 80) | T  | 1,3,5-Trimethy...     | 2.988          | 2.889 | 3.079 | 2.861 | 3.222 | 3.094 | 3.022 | 4.53  |
| 81) | T  | trans-1,4-Dich...     | 0.287          | 0.330 | 0.316 | 0.366 | 0.368 | 0.333 |       | 10.35 |
| 82) | T  | 4-Chlorotoluene       | 3.097          | 2.958 | 3.119 | 2.883 | 3.143 | 3.059 | 3.043 | 3.34  |
| 83) | T  | tert-Butylbenzene     | 3.128          | 3.047 | 3.086 | 2.915 | 3.282 | 3.173 | 3.105 | 3.98  |
| 84) | T  | 1,2,4-Trimethy...     | 2.791          | 2.991 | 3.077 | 2.864 | 3.247 | 3.126 | 3.016 | 5.61  |
| 85) | T  | sec-Butylbenzene      | 3.789          | 3.690 | 3.683 | 3.476 | 3.969 | 3.809 | 3.736 | 4.39  |
| 86) | T  | p-Isopropyltol...     | 3.342          | 3.222 | 3.159 | 2.986 | 3.399 | 3.265 | 3.229 | 4.53  |
| 87) | T  | 1,3-Dichlorobe...     | 1.863          | 1.750 | 1.742 | 1.550 | 1.747 | 1.707 | 1.726 | 5.86  |
| 88) | T  | 1,4-Dichlorobe...     | 2.143          | 1.772 | 1.803 | 1.577 | 1.724 | 1.710 | 1.788 | 10.65 |
| 89) | T  | n-Butylbenzene        | 3.328          | 2.869 | 2.807 | 2.622 | 3.073 | 2.936 | 2.939 | 8.22  |
| 90) | T  | Hexachloroethane      | 0.680          | 0.647 | 0.621 | 0.569 | 0.664 | 0.645 | 0.638 | 6.11  |
| 91) | T  | 1,2-Dichlorobe...     | 1.803          | 1.590 | 1.631 | 1.494 | 1.619 | 1.588 | 1.621 | 6.25  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.167          | 0.187 | 0.219 | 0.195 | 0.224 | 0.223 | 0.202 | 11.51 |
| 93) | T  | 1,2,4-Trichlor...     | 1.441          | 0.994 | 0.975 | 0.959 | 1.114 | 1.094 | 1.096 | 16.47 |
| 94) | T  | Hexachlorobuta...     | 0.953          | 0.482 | 0.399 | 0.373 | 0.426 | 0.409 | 0.507 | 43.70 |
| 95) | T  | Naphthalene           | 2.942          | 2.473 | 2.880 | 2.776 | 3.171 | 3.181 | 2.904 | 9.14  |
| 96) | T  | 1,2,3-Trichlor...     | 1.154          | 0.947 | 0.942 | 0.909 | 1.050 | 1.033 | 1.006 | 9.04  |

(#) = Out of Range

## Hexachlorobutadiene

Response Ratio



$$\text{Response} = 4.113\text{e-}001 * \text{Amt} - 5.482\text{e-}004$$

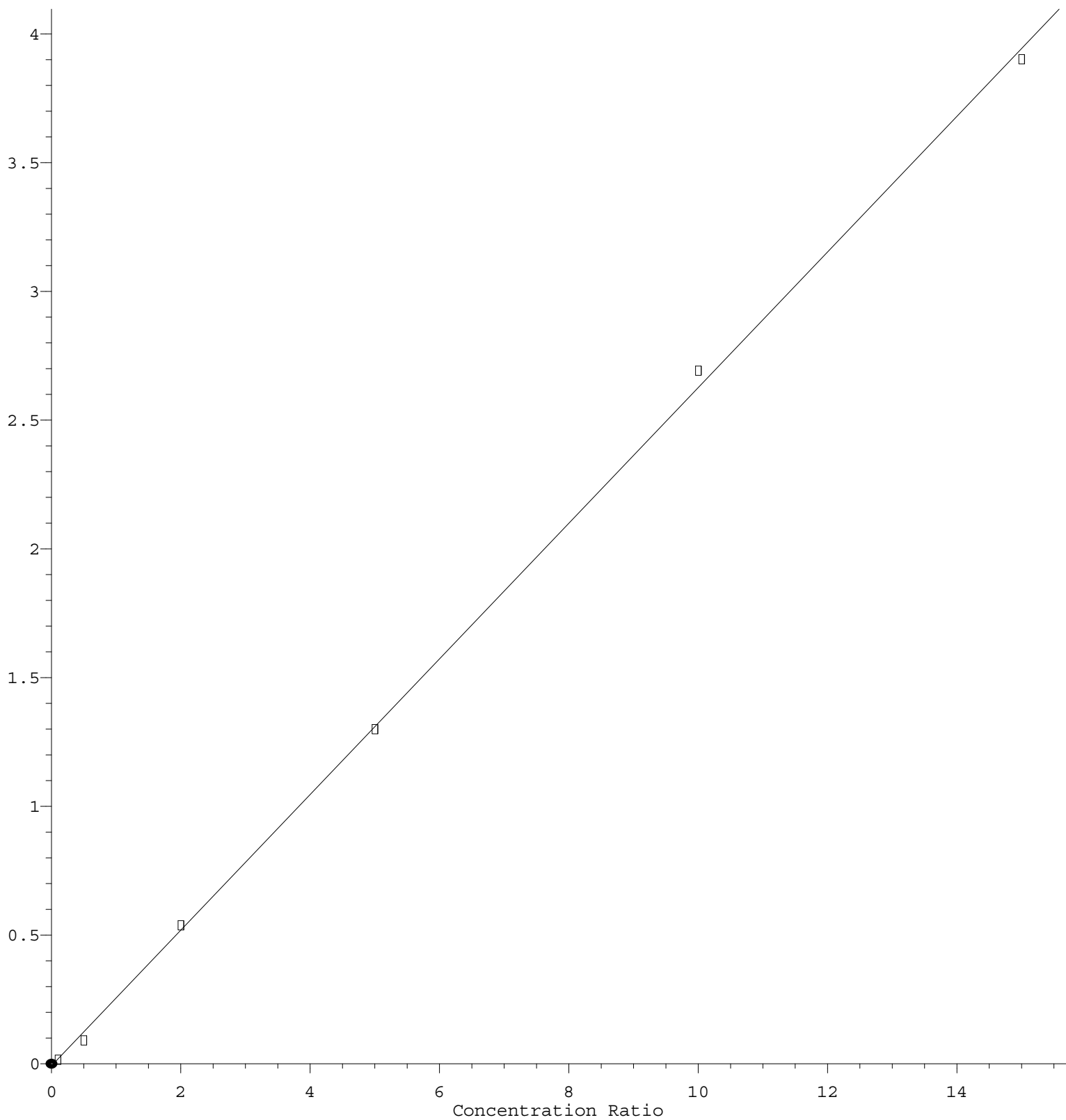
Coef of Det ( $r^2$ ) = 0.997907 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X102025W.M

Calibration Table Last Updated: Mon Oct 20 14:13:59 2025

## 2-Chloroethyl Vinyl ether

Response Ratio



Response =  $2.635 \times 10^{-1} \times \text{Amt} - 8.946 \times 10^{-3}$   
Coef of Det ( $r^2$ ) = 0.999382 Curve Fit: Linear  
Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X102025W.M  
Calibration Table Last Updated: Mon Oct 20 14:13:59 2025