

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\  
 Method File : 82D083024S.M  
 Title : SW846 8260  
 Last Update : Fri Aug 30 15:57:30 2024  
 Response Via : Initial Calibration

## Calibration Files

5 =VD079747.D 10 =VD079748.D 20 =VD079749.D 50 =VD079750.D 100 =VD079751.D 150 =VD079752.D

|        | Compound            | 5              | 10    | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 0.669          | 0.655 | 0.604 | 0.547 | 0.553 | 0.574 | 0.600 | 8.66  |
| 3) P   | Chloromethane       | 1.350          | 1.333 | 1.264 | 1.155 | 1.184 | 1.219 | 1.251 | 6.33  |
| 4) C   | Vinyl Chloride      | 1.611          | 1.556 | 1.565 | 1.437 | 1.403 | 1.469 | 1.507 | 5.45# |
| 5) T   | Bromomethane        | 1.150          | 1.137 | 1.069 | 0.942 | 0.949 | 1.011 | 1.043 | 8.71  |
| 6) T   | Chloroethane        | 1.045          | 1.074 | 1.079 | 0.969 | 0.977 | 0.986 | 1.022 | 4.93  |
| 7) T   | Trichlorofluor...   | 1.254          | 1.249 | 1.144 | 1.073 | 1.040 | 1.065 | 1.137 | 8.33  |
| 8) T   | Diethyl Ether       | 0.355          | 0.351 | 0.354 | 0.337 | 0.367 | 0.401 | 0.361 | 6.12  |
| 9) T   | 1,1,2-Trichlor...   | 0.749          | 0.672 | 0.618 | 0.600 | 0.581 | 0.601 | 0.637 | 9.92  |
| 10) T  | Methyl Iodide       | 0.588          | 0.673 | 0.725 | 0.769 | 0.813 | 0.836 | 0.734 | 12.62 |
| 11) T  | Tert butyl alc...   | 0.035          | 0.033 | 0.035 | 0.033 | 0.031 | 0.036 | 0.034 | 5.83  |
| 12) CM | 1,1-Dichloroet...   | 0.675          | 0.672 | 0.648 | 0.652 | 0.667 | 0.698 | 0.669 | 2.68# |
| 13) T  | Acrolein            | 0.065          | 0.068 | 0.069 | 0.058 | 0.063 | 0.070 | 0.066 | 6.63  |
| 14) T  | Allyl chloride      | 0.847          | 0.954 | 0.973 | 0.977 | 1.038 | 1.122 | 0.985 | 9.25  |
| 15) T  | Acrylonitrile       | 0.158          | 0.148 | 0.162 | 0.158 | 0.163 | 0.186 | 0.163 | 7.78  |
| 16) T  | Acetone             | 0.141          | 0.144 | 0.136 | 0.145 | 0.132 | 0.150 | 0.141 | 4.66  |
| 17) T  | Carbon Disulfide    | 2.508          | 2.567 | 2.455 | 2.361 | 2.358 | 2.421 | 2.445 | 3.38  |
| 18) T  | Methyl Acetate      | 0.418          | 0.405 | 0.438 | 0.382 | 0.371 | 0.418 | 0.406 | 6.18  |
| 19) T  | Methyl tert-bu...   | 1.345          | 1.314 | 1.416 | 1.469 | 1.553 | 1.682 | 1.463 | 9.39  |
| 20) T  | Methylene Chlo...   | 1.465          | 1.100 | 0.905 | 0.831 | 0.805 | 0.836 | 0.990 | 25.87 |
| 21) T  | trans-1,2-Dich...   | 0.718          | 0.751 | 0.733 | 0.722 | 0.751 | 0.777 | 0.742 | 2.99  |
| 22) T  | Diisopropyl ether   | 1.601          | 1.935 | 2.105 | 2.134 | 2.268 | 2.395 | 2.073 | 13.44 |
| 23) T  | Vinyl Acetate       | 0.947          | 1.043 | 1.107 | 1.188 | 1.318 | 1.446 | 1.175 | 15.60 |
| 24) P  | 1,1-Dichloroet...   | 1.361          | 1.392 | 1.341 | 1.299 | 1.335 | 1.405 | 1.356 | 2.87  |
| 25) T  | 2-Butanone          | 0.173          | 0.179 | 0.181 | 0.186 | 0.191 | 0.223 | 0.189 | 9.50  |
| 26) T  | 2,2-Dichloropr...   | 1.032          | 1.093 | 1.029 | 1.036 | 1.053 | 1.088 | 1.055 | 2.71  |
| 27) T  | cis-1,2-Dichlo...   | 0.810          | 0.834 | 0.838 | 0.831 | 0.865 | 0.930 | 0.851 | 4.97  |
| 28) T  | Bromochloromet...   | 0.597          | 0.602 | 0.612 | 0.567 | 0.606 | 0.631 | 0.603 | 3.50  |
| 29) T  | Tetrahydrofuran     | 0.104          | 0.101 | 0.115 | 0.117 | 0.123 | 0.139 | 0.117 | 11.77 |
| 30) C  | Chloroform          | 1.362          | 1.401 | 1.352 | 1.302 | 1.303 | 1.355 | 1.346 | 2.81# |
| 31) T  | Cyclohexane         | 1.257          | 1.104 | 1.093 | 1.128 | 1.102 | 1.154 | 1.140 | 5.40  |
| 32) T  | 1,1,1-Trichlor...   | 1.181          | 1.153 | 1.098 | 1.105 | 1.064 | 1.125 | 1.121 | 3.69  |
| 33) S  | 1,2-Dichloroet...   | 0.689          | 0.634 | 0.721 | 0.677 | 0.666 | 0.704 | 0.682 | 4.47  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   | 0.330          | 0.304 | 0.317 | 0.336 | 0.326 | 0.337 | 0.325 | 3.87  |
| 36) T  | 1,1-Dichloropr...   | 0.425          | 0.484 | 0.453 | 0.507 | 0.504 | 0.518 | 0.482 | 7.43  |
| 37) T  | Ethyl Acetate       | 0.202          | 0.176 | 0.214 | 0.216 | 0.224 | 0.244 | 0.213 | 10.71 |
| 38) T  | Carbon Tetrach...   | 0.539          | 0.520 | 0.482 | 0.518 | 0.509 | 0.515 | 0.514 | 3.63  |
| 39) T  | Methylcyclohexane   | 0.556          | 0.545 | 0.528 | 0.620 | 0.629 | 0.643 | 0.587 | 8.41  |
| 40) TM | Benzene             | 1.469          | 1.597 | 1.550 | 1.641 | 1.672 | 1.709 | 1.606 | 5.44  |
| 41) T  | Methacrylonitrile   | 0.113          | 0.112 | 0.120 | 0.133 | 0.128 | 0.125 | 0.122 | 6.89  |
| 42) TM | 1,2-Dichloroet...   | 0.360          | 0.412 | 0.393 | 0.399 | 0.392 | 0.409 | 0.394 | 4.67  |
| 43) T  | Isopropyl Acetate   | 0.344          | 0.368 | 0.375 | 0.403 | 0.426 | 0.467 | 0.397 | 11.17 |
| 44) TM | Trichloroethene     | 0.356          | 0.337 | 0.327 | 0.336 | 0.349 | 0.353 | 0.343 | 3.33  |
| 45) C  | 1,2-Dichloropr...   | 0.343          | 0.393 | 0.374 | 0.394 | 0.406 | 0.416 | 0.388 | 6.76# |
| 46) T  | Dibromomethane      | 0.209          | 0.197 | 0.205 | 0.201 | 0.204 | 0.215 | 0.205 | 3.05  |
| 47) T  | Bromodichlorom...   | 0.508          | 0.506 | 0.501 | 0.506 | 0.521 | 0.532 | 0.512 | 2.30  |
| 48) T  | Methyl methacr...   | 0.168          | 0.175 | 0.183 | 0.193 | 0.205 | 0.226 | 0.192 | 11.25 |
| 49) T  | 1,4-Dioxane         | 0.002          | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 6.96  |
| 50) S  | Toluene-d8          | 1.238          | 1.283 | 1.343 | 1.511 | 1.479 | 1.509 | 1.394 | 8.70  |
| 51) T  | 4-Methyl-2-Pen...   | 0.175          | 0.183 | 0.196 | 0.215 | 0.226 | 0.250 | 0.207 | 13.67 |
| 52) CM | Toluene             | 0.821          | 0.924 | 0.947 | 1.025 | 1.041 | 1.071 | 0.972 | 9.56# |
| 53) T  | t-1,3-Dichloro...   | 0.420          | 0.467 | 0.451 | 0.489 | 0.517 | 0.552 | 0.483 | 9.79  |
| 54) T  | cis-1,3-Dichlo...   | 0.499          | 0.546 | 0.552 | 0.595 | 0.612 | 0.648 | 0.575 | 9.28  |
| 55) T  | 1,1,2-Trichlor...   | 0.270          | 0.256 | 0.258 | 0.266 | 0.274 | 0.285 | 0.268 | 3.97  |
| 56) T  | Ethyl methacry...   | 0.282          | 0.303 | 0.304 | 0.343 | 0.378 | 0.407 | 0.336 | 14.50 |

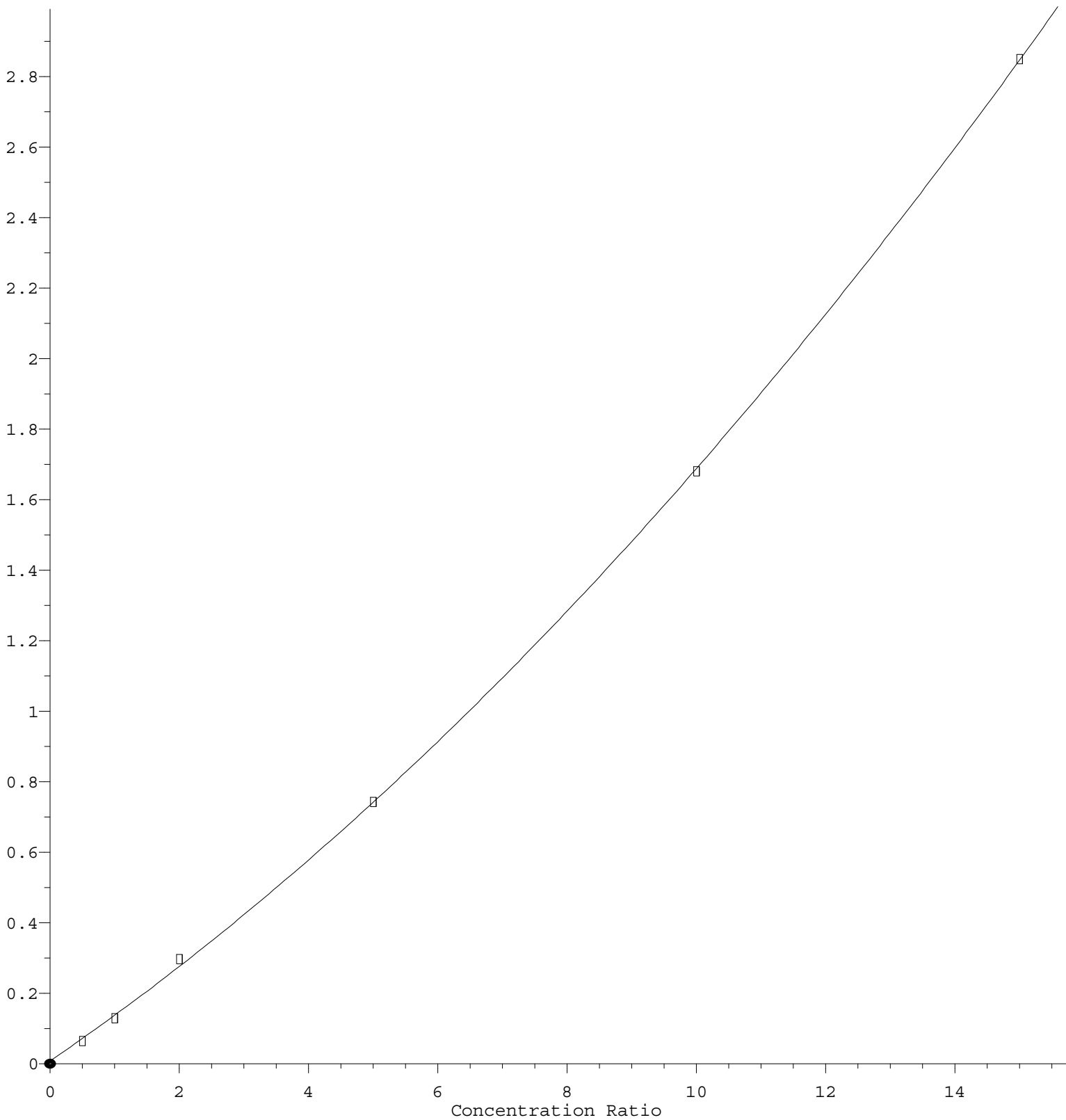
Method Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\  
 Method File : 82D083024S.M

|     |    |                       |                |       |       |       |       |       |       |        |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 57) | T  | 1,3-Dichloropr...     | 0.474          | 0.474 | 0.450 | 0.484 | 0.500 | 0.521 | 0.484 | 5.02   |
| 58) | T  | 2-Chloroethyl ...     | 0.129          | 0.129 | 0.148 | 0.148 | 0.168 | 0.190 | 0.152 | 15.53  |
| 59) | T  | 2-Hexanone            | 0.116          | 0.125 | 0.136 | 0.154 | 0.157 | 0.175 | 0.144 | 15.29  |
| 60) | T  | Dibromochlorom...     | 0.318          | 0.327 | 0.321 | 0.330 | 0.336 | 0.349 | 0.330 | 3.43   |
| 61) | T  | 1,2-Dibromoethane     | 0.212          | 0.239 | 0.229 | 0.235 | 0.242 | 0.254 | 0.235 | 5.96   |
| 62) | S  | 4-Bromofluorob...     | 0.363          | 0.341 | 0.367 | 0.416 | 0.422 | 0.432 | 0.390 | 9.64   |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |        |
| 64) | T  | Tetrachloroethene     | 0.297          | 0.305 | 0.273 | 0.298 | 0.293 | 0.297 | 0.294 | 3.69   |
| 65) | PM | Chlorobenzene         | 1.062          | 1.094 | 1.085 | 1.141 | 1.128 | 1.147 | 1.109 | 3.09   |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.353          | 0.344 | 0.366 | 0.369 | 0.372 | 0.382 | 0.364 | 3.74   |
| 67) | C  | Ethyl Benzene         | 1.696          | 1.799 | 1.820 | 2.077 | 2.145 | 2.198 | 1.956 | 10.71# |
| 68) | T  | m/p-Xylenes           | 0.616          | 0.692 | 0.714 | 0.809 | 0.830 | 0.844 | 0.751 | 12.13  |
| 69) | T  | o-Xylene              | 0.579          | 0.648 | 0.666 | 0.743 | 0.775 | 0.787 | 0.700 | 11.68  |
| 70) | T  | Styrene               | 0.952          | 1.114 | 1.161 | 1.326 | 1.375 | 1.400 | 1.221 | 14.39  |
| 71) | P  | Bromoform             | 0.187          | 0.181 | 0.187 | 0.184 | 0.179 | 0.179 | 0.183 | 2.03   |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |        |
| 73) | T  | Isopropylbenzene      | 3.165          | 3.311 | 3.262 | 3.693 | 3.910 | 4.011 | 3.559 | 10.13  |
| 74) | T  | N-amyl acetate        | 0.748          | 0.770 | 0.774 | 0.843 | 0.935 | 1.004 | 0.846 | 12.25  |
| 75) | P  | 1,1,2,2-Tetrac...     | 0.689          | 0.680 | 0.680 | 0.665 | 0.675 | 0.710 | 0.683 | 2.26   |
| 76) | T  | 1,2,3-Trichlor...     | 0.461          | 0.336 | 0.398 | 0.504 | 0.414 | 0.451 | 0.427 | 13.67  |
| 77) | T  | Bromobenzene          | 0.782          | 0.762 | 0.738 | 0.804 | 0.829 | 0.836 | 0.792 | 4.85   |
| 78) | T  | n-propylbenzene       | 3.687          | 4.184 | 4.009 | 4.655 | 4.902 | 4.946 | 4.397 | 11.70  |
| 79) | T  | 2-Chlorotoluene       | 2.153          | 2.353 | 2.275 | 2.541 | 2.658 | 2.717 | 2.450 | 9.14   |
| 80) | T  | 1,3,5-Trimethy...     | 2.625          | 2.642 | 2.732 | 3.115 | 3.291 | 3.345 | 2.958 | 11.18  |
| 81) | T  | trans-1,4-Dich...     | 0.259          | 0.245 | 0.242 | 0.253 | 0.263 | 0.276 | 0.256 | 4.83   |
| 82) | T  | 4-Chlorotoluene       | 2.181          | 2.477 | 2.386 | 2.666 | 2.757 | 2.843 | 2.552 | 9.77   |
| 83) | T  | tert-Butylbenzene     | 2.028          | 2.326 | 2.192 | 2.598 | 2.764 | 2.843 | 2.458 | 13.30  |
| 84) | T  | 1,2,4-Trimethy...     | 2.531          | 2.731 | 2.735 | 3.255 | 3.464 | 3.597 | 3.052 | 14.53  |
| 85) | T  | sec-Butylbenzene      | 3.087          | 3.557 | 3.436 | 4.011 | 4.179 | 4.283 | 3.759 | 12.54  |
| 86) | T  | p-Isopropyltol...     | 2.569          | 2.863 | 2.937 | 3.410 | 3.690 | 3.833 | 3.217 | 15.63  |
| 87) | T  | 1,3-Dichlorobe...     | 1.675          | 1.615 | 1.569 | 1.687 | 1.788 | 1.868 | 1.700 | 6.49   |
| 88) | T  | 1,4-Dichlorobe...     | 1.798          | 1.731 | 1.575 | 1.666 | 1.690 | 1.741 | 1.700 | 4.49   |
| 89) | T  | n-Butylbenzene        | 2.526          | 2.722 | 2.681 | 3.184 | 3.443 | 3.512 | 3.011 | 14.04  |
| 90) | T  | Hexachloroethane      | 0.616          | 0.644 | 0.576 | 0.639 | 0.662 | 0.676 | 0.636 | 5.61   |
| 91) | T  | 1,2-Dichlorobe...     | 1.454          | 1.454 | 1.377 | 1.465 | 1.481 | 1.504 | 1.456 | 2.95   |
| 92) | T  | 1,2-Dibromo-3-...     | 0.120          | 0.089 | 0.092 | 0.099 | 0.097 | 0.102 | 0.100 | 10.82  |
| 93) | T  | 1,2,4-Trichlor...     | 0.739          | 0.731 | 0.716 | 0.799 | 0.886 | 0.928 | 0.800 | 11.12  |
| 94) | T  | Hexachlorobuta...     | 0.374          | 0.356 | 0.349 | 0.383 | 0.417 | 0.428 | 0.385 | 8.29   |
| 95) | T  | Naphthalene           | 1.535          | 1.462 | 1.435 | 1.743 | 1.940 |       | 1.623 | 13.22  |
| 96) | T  | 1,2,3-Trichlor...     | 0.661          | 0.621 | 0.619 | 0.717 | 0.765 | 0.810 | 0.699 | 11.21  |

(#) = Out of Range

# 2-Chloroethyl Vinyl ether

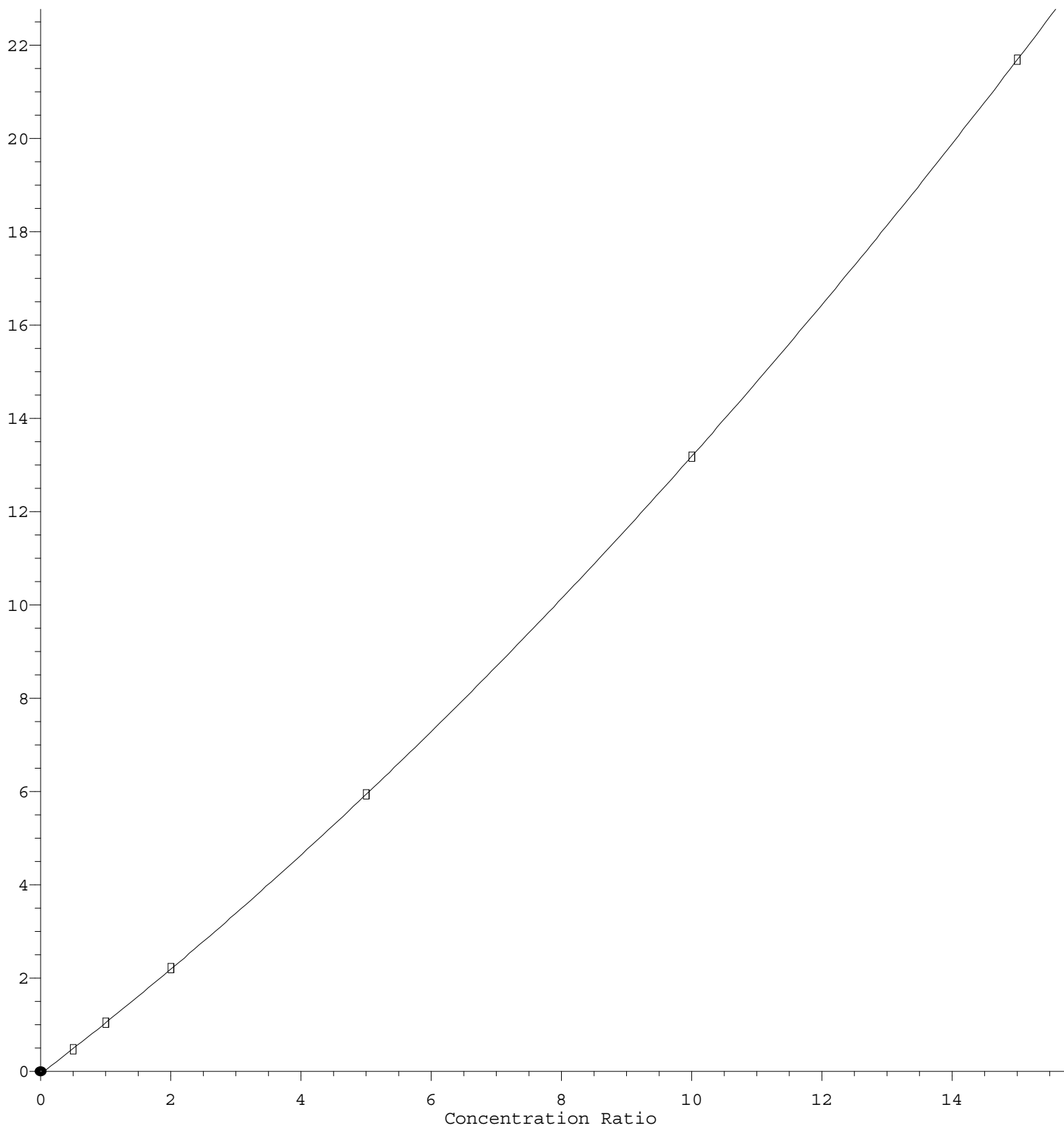
Response Ratio



$R = 4.246e-003 A^2 + 1.255e-001 A + 8.102e-003$   
 Coef of Det ( $r^2$ ) = 0.999898    Curve Fit: Quadratic  
 Method Name:    Z:\voasrv\HPCHEM1\MSVOA D\Method\82D083024S.M  
 Calibration Table Last Updated: Fri Aug 30 15:57:30 2024

# Vinyl Acetate

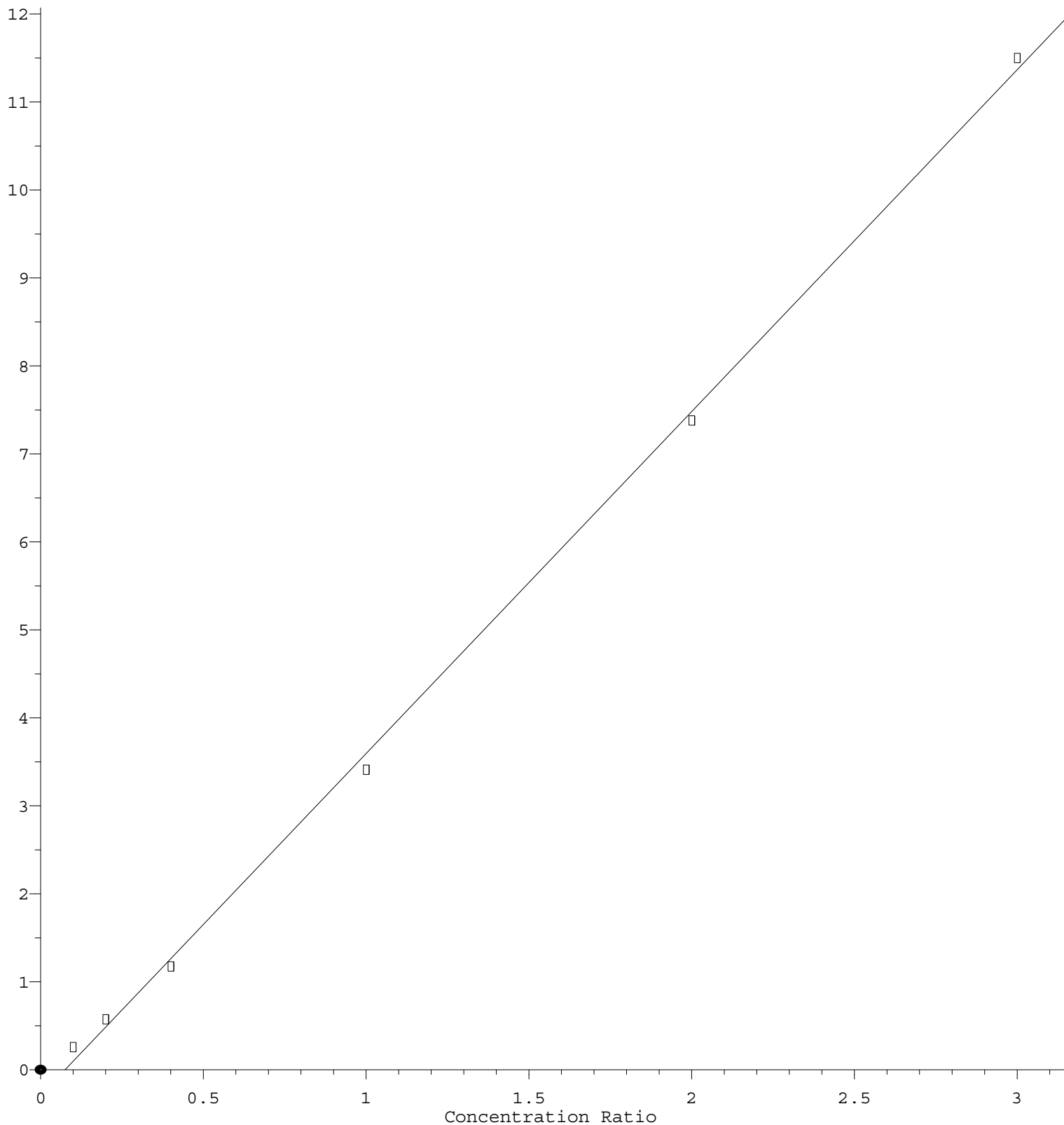
Response Ratio



$R = 2.508e-002 A^2 + 1.073e+000 A - 5.387e-002$   
 Coef of Det ( $r^2$ ) = 0.999998    Curve Fit: Quadratic  
 Method Name:    Z:\voasrv\HPCHEM1\MSVOA D\Method\82D083024S.M  
 Calibration Table Last Updated: Fri Aug 30 15:57:30 2024

# p-Isopropyltoluene

Response Ratio



$$\text{Response} = 3.886\text{e}+000 * \text{Amt} - 2.910\text{e}-001$$

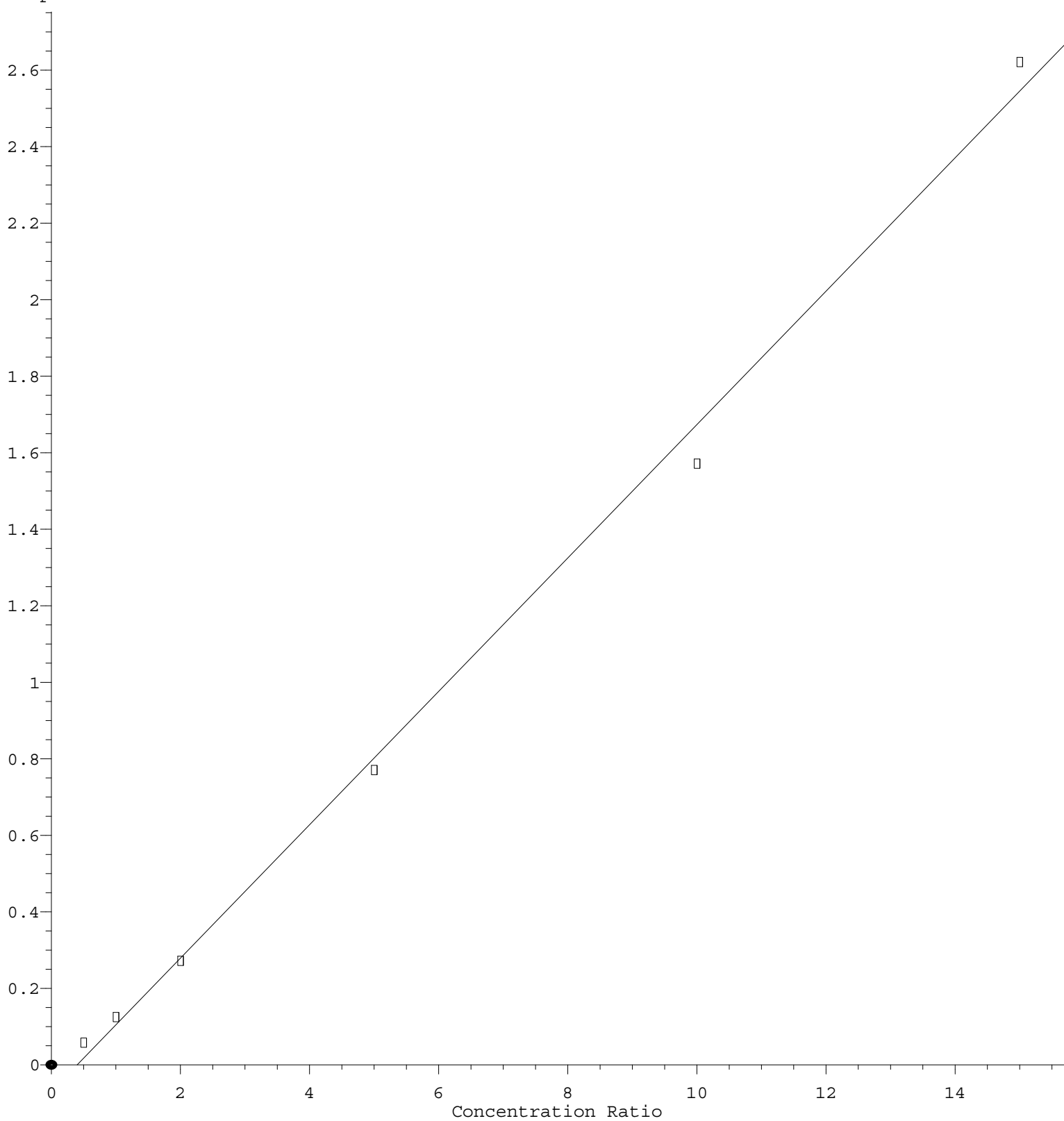
Coef of Det (r^2) = 0.998991 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D083024S.M

Calibration Table Last Updated: Fri Aug 30 15:57:30 2024

## 2-Hexanone

Response Ratio



$$\text{Response} = 1.744\text{e-}001 * \text{Amt} - 7.056\text{e-}002$$

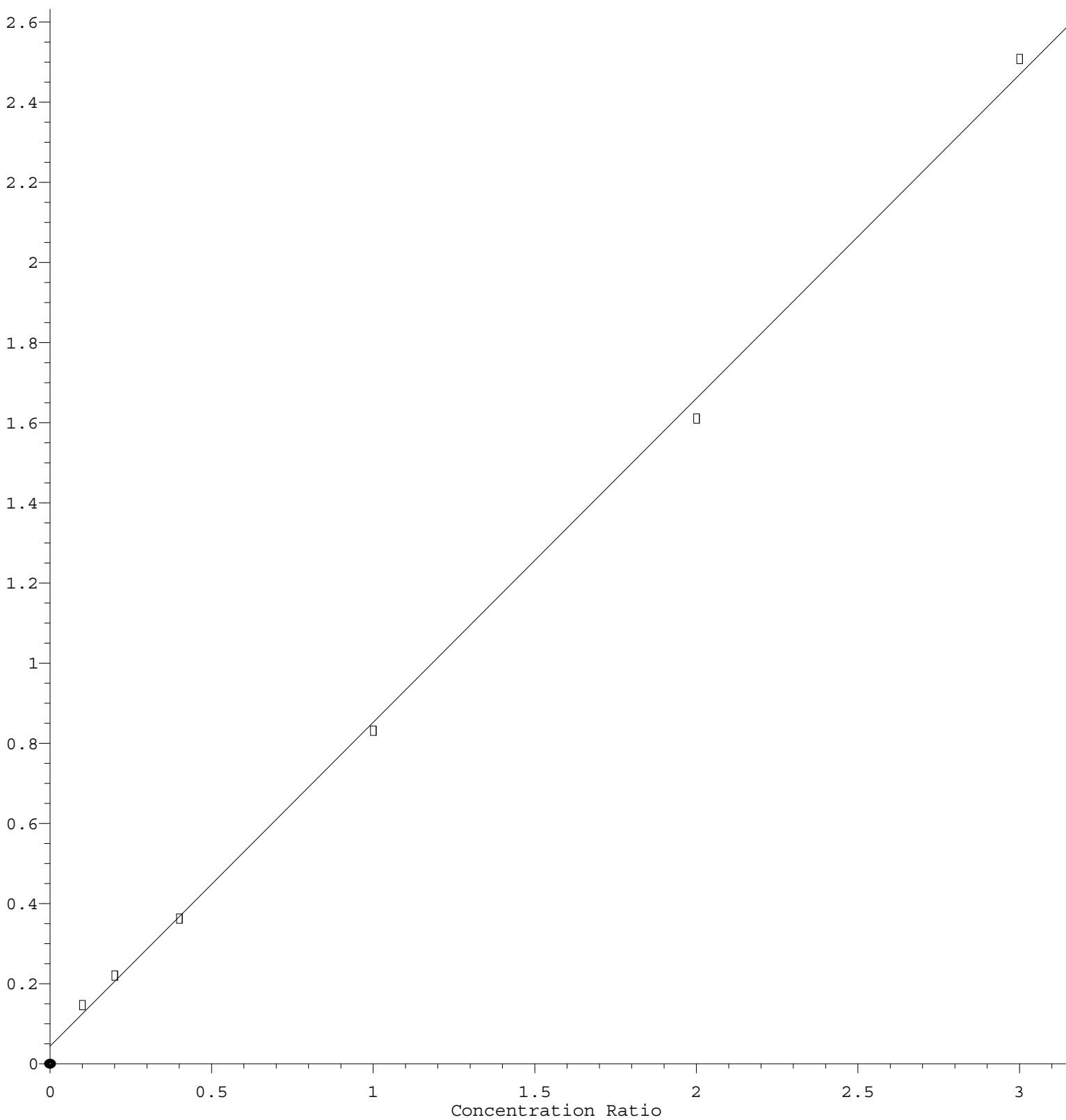
Coef of Det ( $r^2$ ) = 0.996239 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D083024S.M

Calibration Table Last Updated: Fri Aug 30 15:57:30 2024

# Methylene Chloride

Response Ratio



$$\text{Response} = 8.082\text{e-}001 * \text{Amt} + 4.382\text{e-}002$$

Coef of Det (r^2) = 0.998825 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D083024S.M

Calibration Table Last Updated: Fri Aug 30 15:57:30 2024