

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\  
 Method File : 82D050124S.M  
 Title : SW846 8260  
 Last Update : Thu May 02 07:55:11 2024  
 Response Via : Initial Calibration

## Calibration Files

5 =VD078856.D 10 =VD078857.D 20 =VD078858.D 50 =VD078859.D 100 =VD078860.D 150 =VD078861.D

|        | Compound            | 5              | 10    | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluo...   | 0.681          | 0.593 | 0.607 | 0.523 | 0.523 | 0.464 | 0.565 | 13.65  |
| 3) P   | Chloromethane       | 1.065          | 0.898 | 0.818 | 0.868 | 0.766 | 0.626 | 0.840 | 17.36  |
| 4) C   | Vinyl Chloride      | 1.451          | 1.222 | 1.222 | 1.246 | 1.156 | 1.021 | 1.219 | 11.47# |
| 5) T   | Bromomethane        | 1.575          | 1.240 | 1.166 | 1.205 | 1.119 | 0.997 | 1.217 | 16.00  |
| 6) T   | Chloroethane        | 1.181          | 0.970 | 0.996 | 1.077 | 0.970 | 0.834 | 1.005 | 11.60  |
| 7) T   | Trichlorofluor...   | 1.263          | 0.950 | 1.012 | 0.951 | 0.937 | 0.843 | 0.992 | 14.43  |
| 8) T   | Diethyl Ether       | 0.284          | 0.272 | 0.256 | 0.300 | 0.274 | 0.237 | 0.271 | 8.11   |
| 9) T   | 1,1,2-Trichlor...   | 0.702          | 0.595 | 0.585 | 0.594 | 0.581 | 0.520 | 0.596 | 9.88   |
| 10) T  | Methyl Iodide       | 0.430          | 0.463 | 0.537 | 0.771 | 0.780 | 0.702 | 0.614 | 25.50  |
| 11) T  | Tert butyl alc...   | 0.026          | 0.026 | 0.027 | 0.029 | 0.024 | 0.021 | 0.025 | 10.22  |
| 12) CM | 1,1-Dichloroet...   | 0.719          | 0.533 | 0.571 | 0.609 | 0.586 | 0.529 | 0.591 | 11.82# |
| 13) T  | Acrolein            | 0.057          | 0.047 | 0.045 | 0.052 | 0.045 |       | 0.049 | 10.63  |
| 14) T  | Allyl chloride      | 0.620          | 0.571 | 0.566 | 0.654 | 0.620 | 0.530 | 0.593 | 7.68   |
| 15) T  | Acrylonitrile       | 0.123          | 0.100 | 0.104 | 0.123 | 0.107 | 0.090 | 0.108 | 12.07  |
| 16) T  | Acetone             | 0.086          | 0.080 | 0.074 | 0.105 | 0.086 | 0.066 | 0.083 | 16.23  |
| 17) T  | Carbon Disulfide    | 2.328          | 1.874 | 1.906 | 2.068 | 1.913 | 1.641 | 1.955 | 11.69  |
| 18) T  | Methyl Acetate      | 0.248          | 0.216 | 0.207 | 0.218 | 0.186 | 0.156 | 0.205 | 15.18  |
| 19) T  | Methyl tert-bu...   | 1.106          | 1.002 | 1.045 | 1.299 | 1.206 | 1.055 | 1.119 | 10.07  |
| 20) T  | Methylene Chlo...   | 1.091          | 0.811 | 0.720 | 0.782 | 0.668 | 0.560 | 0.772 | 23.32  |
| 21) T  | trans-1,2-Dich...   | 0.756          | 0.618 | 0.617 | 0.727 | 0.679 | 0.581 | 0.663 | 10.42  |
| 22) T  | Diisopropyl ether   | 1.279          | 1.194 | 1.286 | 1.581 | 1.384 | 1.149 | 1.312 | 11.79  |
| 23) T  | Vinyl Acetate       | 0.754          | 0.715 | 0.748 | 0.954 | 0.845 | 0.730 | 0.791 | 11.63  |
| 24) P  | 1,1-Dichloroet...   | 1.284          | 1.053 | 0.991 | 1.140 | 1.004 | 0.865 | 1.056 | 13.55  |
| 25) T  | 2-Butanone          | 0.121          | 0.111 | 0.109 | 0.137 | 0.119 | 0.100 | 0.116 | 11.13  |
| 26) T  | 2,2-Dichloropr...   | 0.996          | 0.866 | 0.835 | 0.953 | 0.911 | 0.786 | 0.891 | 8.70   |
| 27) T  | cis-1,2-Dichlo...   | 0.841          | 0.698 | 0.690 | 0.834 | 0.789 | 0.691 | 0.757 | 9.57   |
| 28) T  | Bromochloromet...   | 0.470          | 0.401 | 0.377 | 0.451 | 0.361 | 0.324 | 0.397 | 13.90  |
| 29) T  | Tetrahydrofuran     | 0.068          | 0.063 | 0.064 | 0.080 | 0.071 | 0.060 | 0.068 | 10.68  |
| 30) C  | Chloroform          | 1.423          | 1.138 | 1.136 | 1.279 | 1.137 | 0.962 | 1.179 | 13.24# |
| 31) T  | Cyclohexane         | 1.052          | 0.791 | 0.804 | 0.781 | 0.795 | 0.720 | 0.824 | 14.05  |
| 32) T  | 1,1,1-Trichlor...   | 1.161          | 0.947 | 0.957 | 1.041 | 0.994 | 0.866 | 0.994 | 10.06  |
| 33) S  | 1,2-Dichloroet...   | 0.594          | 0.611 | 0.514 | 0.640 | 0.520 | 0.451 | 0.555 | 12.94  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorom...   | 0.353          | 0.350 | 0.339 | 0.424 | 0.386 | 0.351 | 0.367 | 8.77   |
| 36) T  | 1,1-Dichloropr...   | 0.490          | 0.397 | 0.467 | 0.501 | 0.504 | 0.474 | 0.472 | 8.36   |
| 37) T  | Ethyl Acetate       | 0.176          | 0.122 | 0.161 | 0.166 | 0.164 | 0.148 | 0.156 | 12.17  |
| 38) T  | Carbon Tetrach...   | 0.577          | 0.473 | 0.544 | 0.557 | 0.563 | 0.547 | 0.544 | 6.70   |
| 39) T  | Methylcyclohexane   | 0.534          | 0.486 | 0.562 | 0.582 | 0.671 | 0.656 | 0.582 | 12.25  |
| 40) TM | Benzene             | 1.678          | 1.373 | 1.450 | 1.672 | 1.626 | 1.480 | 1.546 | 8.34   |
| 41) T  | Methacrylonitrile   | 0.086          | 0.060 | 0.075 | 0.076 | 0.086 | 0.080 | 0.077 | 12.58  |
| 42) TM | 1,2-Dichloroet...   | 0.397          | 0.336 | 0.357 | 0.402 | 0.371 | 0.327 | 0.365 | 8.47   |
| 43) T  | Isopropyl Acetate   | 0.266          | 0.254 | 0.270 | 0.334 | 0.312 | 0.279 | 0.286 | 10.72  |
| 44) TM | Trichloroethene     | 0.402          | 0.342 | 0.382 | 0.414 | 0.416 | 0.381 | 0.390 | 7.08   |
| 45) C  | 1,2-Dichloropr...   | 0.358          | 0.322 | 0.323 | 0.369 | 0.346 | 0.318 | 0.339 | 6.30#  |
| 46) T  | Dibromomethane      | 0.233          | 0.196 | 0.213 | 0.237 | 0.219 | 0.197 | 0.216 | 8.05   |
| 47) T  | Bromodichlorom...   | 0.616          | 0.477 | 0.497 | 0.586 | 0.546 | 0.486 | 0.535 | 10.76  |
| 48) T  | Methyl methacr...   | 0.120          | 0.119 | 0.129 | 0.157 | 0.145 | 0.135 | 0.134 | 11.02  |
| 49) T  | 1,4-Dioxane         | 0.002          | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 19.25  |
| 50) S  | Toluene-d8          | 1.285          | 1.294 | 1.280 | 1.645 | 1.530 | 1.419 | 1.409 | 10.80  |
| 51) T  | 4-Methyl-2-Pen...   | 0.146          | 0.138 | 0.147 | 0.179 | 0.162 | 0.146 | 0.153 | 9.90   |
| 52) CM | Toluene             | 0.937          | 0.815 | 0.907 | 1.096 | 1.084 | 0.989 | 0.971 | 11.12# |
| 53) T  | t-1,3-Dichloro...   | 0.453          | 0.390 | 0.419 | 0.499 | 0.486 | 0.442 | 0.448 | 9.11   |
| 54) T  | cis-1,3-Dichlo...   | 0.561          | 0.476 | 0.494 | 0.601 | 0.583 | 0.532 | 0.541 | 9.14   |
| 55) T  | 1,1,2-Trichlor...   | 0.304          | 0.253 | 0.270 | 0.306 | 0.290 | 0.257 | 0.280 | 8.37   |
| 56) T  | Ethyl methacry...   | 0.244          | 0.220 | 0.268 | 0.344 | 0.338 | 0.312 | 0.288 | 17.91  |

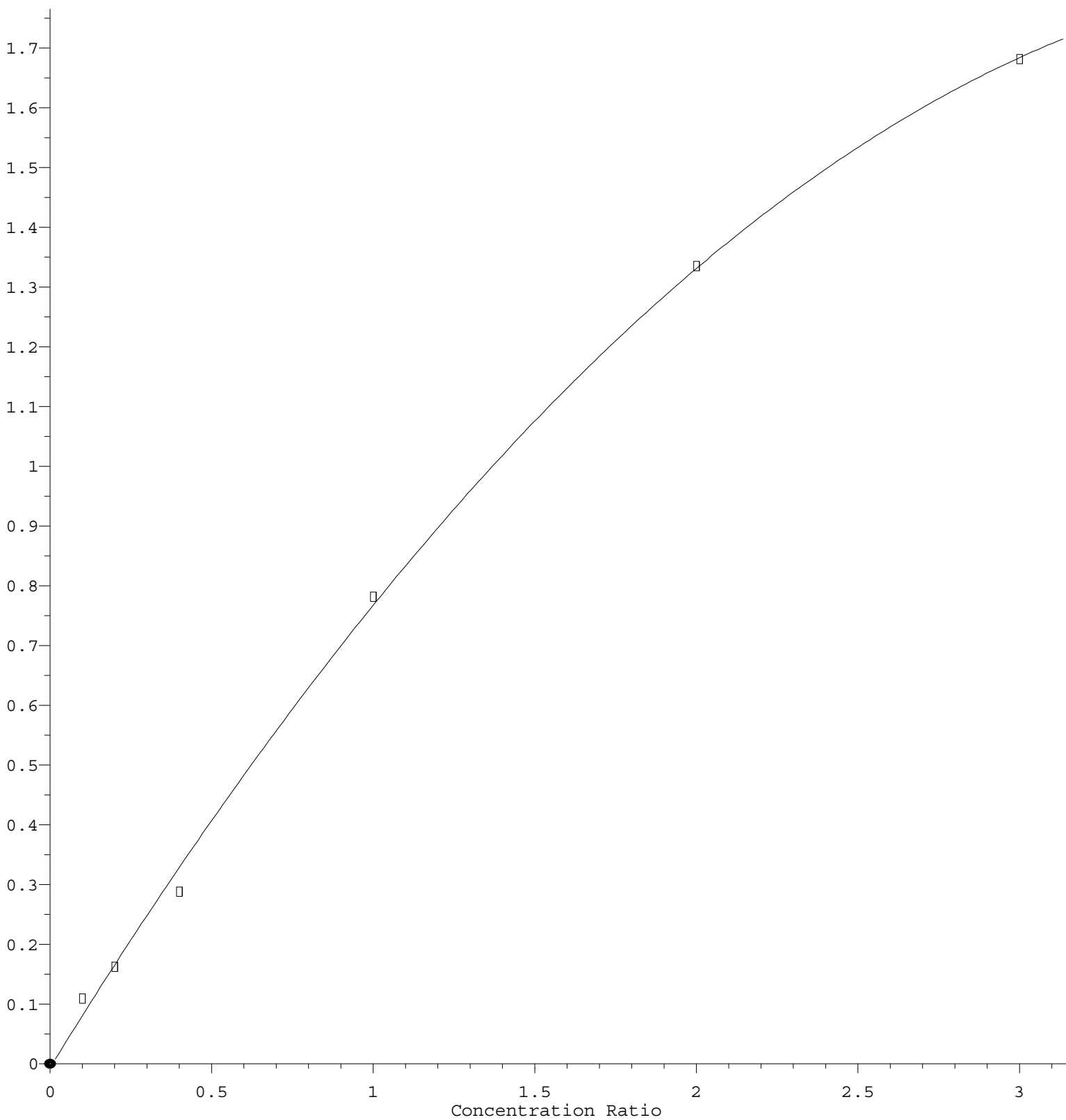
Method Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\  
 Method File : 82D050124S.M

|     |    |                       |                |       |       |       |       |       |       |        |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 57) | T  | 1,3-Dichloropr...     | 0.488          | 0.388 | 0.418 | 0.490 | 0.462 | 0.411 | 0.443 | 9.67   |
| 58) | T  | 2-Chloroethyl ...     | 0.118          | 0.107 | 0.133 | 0.143 | 0.124 | 0.129 | 0.126 | 9.96   |
| 59) | T  | 2-Hexanone            | 0.105          | 0.097 | 0.101 | 0.129 | 0.114 | 0.104 | 0.108 | 10.72  |
| 60) | T  | Dibromochlorom...     | 0.380          | 0.341 | 0.371 | 0.420 | 0.400 | 0.365 | 0.380 | 7.26   |
| 61) | T  | 1,2-Dibromoethane     | 0.270          | 0.246 | 0.241 | 0.285 | 0.270 | 0.246 | 0.260 | 6.84   |
| 62) | S  | 4-Bromofluorob...     | 0.362          | 0.364 | 0.369 | 0.485 | 0.432 | 0.408 | 0.403 | 12.10  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |        |
| 64) | T  | Tetrachloroethene     | 0.339          | 0.303 | 0.323 | 0.364 | 0.370 | 0.346 | 0.341 | 7.36   |
| 65) | PM | Chlorobenzene         | 1.171          | 0.996 | 1.112 | 1.265 | 1.236 | 1.106 | 1.147 | 8.55   |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.431          | 0.354 | 0.371 | 0.428 | 0.431 | 0.392 | 0.401 | 8.46   |
| 67) | C  | Ethyl Benzene         | 1.742          | 1.536 | 1.733 | 2.092 | 2.158 | 2.000 | 1.877 | 12.95# |
| 68) | T  | m/p-Xylenes           | 0.649          | 0.617 | 0.722 | 0.868 | 0.890 | 0.813 | 0.760 | 15.08  |
| 69) | T  | o-Xylene              | 0.634          | 0.539 | 0.630 | 0.794 | 0.818 | 0.754 | 0.695 | 15.88  |
| 70) | T  | Styrene               | 1.018          | 0.978 | 1.155 | 1.413 | 1.461 | 1.305 | 1.222 | 16.60  |
| 71) | P  | Bromoform             | 0.226          | 0.190 | 0.202 | 0.248 | 0.233 | 0.205 | 0.217 | 10.04  |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |        |
| 73) | T  | Isopropylbenzene      | 3.166          | 2.761 | 3.126 | 3.736 | 3.804 | 3.630 | 3.370 | 12.32  |
| 74) | T  | N-amyl acetate        | 0.577          | 0.510 | 0.533 | 0.643 | 0.563 | 0.536 | 0.561 | 8.35   |
| 75) | P  | 1,1,2,2-Tetrac...     | 0.740          | 0.635 | 0.610 | 0.680 | 0.591 | 0.532 | 0.631 | 11.44  |
| 76) | T  | 1,2,3-Trichlor...     | 0.465          | 0.404 | 0.464 | 0.424 | 0.378 | 0.361 | 0.416 | 10.45  |
| 77) | T  | Bromobenzene          | 0.873          | 0.794 | 0.793 | 0.937 | 0.936 | 0.862 | 0.866 | 7.37   |
| 78) | T  | n-propylbenzene       | 3.926          | 3.469 | 3.824 | 4.519 | 4.533 | 4.236 | 4.085 | 10.30  |
| 79) | T  | 2-Chlorotoluene       | 2.313          | 1.989 | 2.133 | 2.523 | 2.446 | 2.275 | 2.280 | 8.64   |
| 80) | T  | 1,3,5-Trimethy...     | 2.535          | 2.305 | 2.601 | 3.172 | 3.185 | 2.995 | 2.799 | 13.17  |
| 81) | T  | trans-1,4-Dich...     | 0.234          | 0.201 | 0.201 | 0.235 | 0.214 | 0.192 | 0.213 | 8.59   |
| 82) | T  | 4-Chlorotoluene       | 2.421          | 2.157 | 2.284 | 2.733 | 2.590 | 2.402 | 2.431 | 8.52   |
| 83) | T  | tert-Butylbenzene     | 2.077          | 1.863 | 2.236 | 2.703 | 2.846 | 2.730 | 2.409 | 16.79  |
| 84) | T  | 1,2,4-Trimethy...     | 2.561          | 2.317 | 2.669 | 3.248 | 3.285 | 3.108 | 2.865 | 14.08  |
| 85) | T  | sec-Butylbenzene      | 3.491          | 3.017 | 3.404 | 3.929 | 4.158 | 3.948 | 3.658 | 11.67  |
| 86) | T  | p-Isopropyltol...     | 2.713          | 2.587 | 2.866 | 3.467 | 3.762 | 3.625 | 3.170 | 16.00  |
| 87) | T  | 1,3-Dichlorobe...     | 1.842          | 1.605 | 1.641 | 1.959 | 1.987 | 1.846 | 1.813 | 8.76   |
| 88) | T  | 1,4-Dichlorobe...     | 1.994          | 1.609 | 1.679 | 1.912 | 1.864 | 1.712 | 1.795 | 8.38   |
| 89) | T  | n-Butylbenzene        | 2.622          | 2.362 | 2.577 | 3.089 | 3.240 | 3.067 | 2.826 | 12.43  |
| 90) | T  | Hexachloroethane      | 0.779          | 0.630 | 0.619 | 0.699 | 0.698 | 0.644 | 0.678 | 8.83   |
| 91) | T  | 1,2-Dichlorobe...     | 1.640          | 1.381 | 1.443 | 1.721 | 1.630 | 1.498 | 1.552 | 8.45   |
| 92) | T  | 1,2-Dibromo-3-...     | 0.099          | 0.089 | 0.079 | 0.094 | 0.081 | 0.074 | 0.086 | 11.07  |
| 93) | T  | 1,2,4-Trichlor...     | 0.783          | 0.745 | 0.745 | 0.961 | 0.996 | 0.943 | 0.862 | 13.53  |
| 94) | T  | Hexachlorobuta...     | 0.438          | 0.365 | 0.426 | 0.443 | 0.497 | 0.482 | 0.442 | 10.53  |
| 95) | T  | Naphthalene           | 1.376          | 1.268 | 1.333 | 1.779 | 1.833 | 1.731 | 1.553 | 16.35  |
| 96) | T  | 1,2,3-Trichlor...     | 0.777          | 0.650 | 0.645 | 0.850 | 0.853 | 0.809 | 0.764 | 12.36  |

(#) = Out of Range

# Methylene Chloride

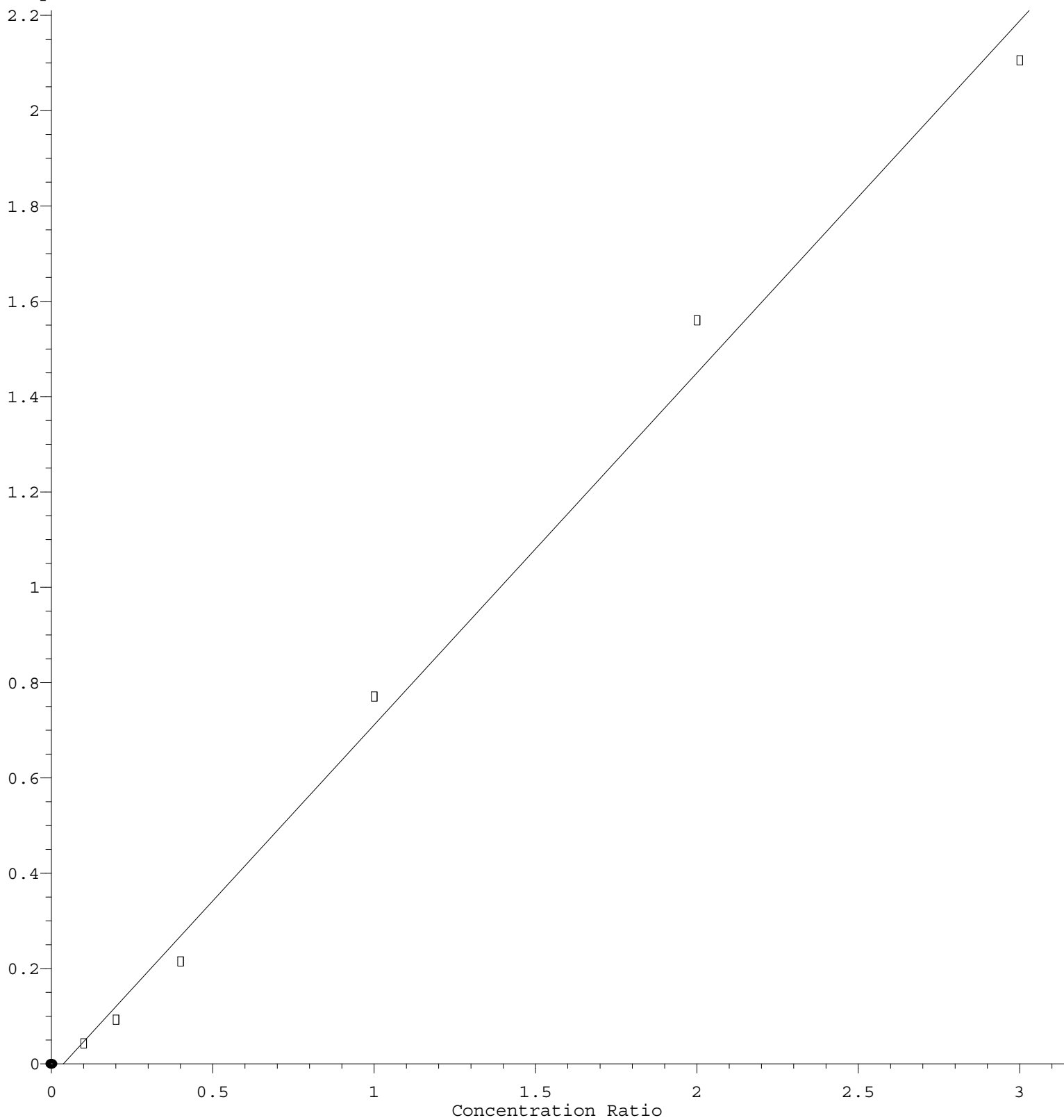
Response Ratio



$R = -1.052e-001 A^2 + 8.791e-001 A - 6.214e-003$   
 Coef of Det ( $r^2$ ) = 0.998763    Curve Fit: Quadratic  
 Method Name:    Z:\voasrv\HPCHEM1\MSVOA D\Method\82D050124S.M  
 Calibration Table Last Updated: Thu May 02 07:55:11 2024

## Methyl Iodide

Response Ratio



$$\text{Response} = 7.388\text{e-}001 * \text{Amt} - 2.724\text{e-}002$$

Coef of Det ( $r^2$ ) = 0.992933 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D050124S.M

Calibration Table Last Updated: Thu May 02 07:55:11 2024