

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 82X091422W.M  
 Title : SW846 8260  
 Last Update : Thu Sep 15 01:50:07 2022  
 Response Via : Initial Calibration

## Calibration Files

1 =VX031303.D 5 =VX031304.D 20 =VX031306.D 50 =VX031307.D 100 =VX031308.D 10 =VX031305.D

|        | Compound            | 1              | 5     | 20    | 50    | 100   | 10    | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluo...   | 0.567          | 0.559 | 0.564 | 0.542 | 0.451 | 0.557 | 0.540 | 8.24   |
| 3) P   | Chloromethane       | 1.103          | 0.778 | 0.749 | 0.839 | 0.706 | 0.782 | 0.826 | 17.27  |
| 4) C   | Vinyl Chloride      | 0.891          | 0.835 | 0.874 | 0.958 | 0.789 | 0.894 | 0.874 | 6.55#  |
| 5) T   | Bromomethane        |                | 0.696 | 0.633 | 0.680 | 0.557 | 0.710 | 0.655 | 9.44   |
| 6) T   | Chloroethane        | 0.938          | 0.708 | 0.671 | 0.697 |       | 0.683 | 0.739 | 15.10  |
| 7) T   | Trichlorofluor...   | 1.700          | 1.536 | 1.642 | 1.686 | 1.400 | 1.644 | 1.601 | 7.15   |
| 8) T   | Diethyl Ether       | 0.895          | 0.684 | 0.671 | 0.671 | 0.550 | 0.704 | 0.696 | 16.06  |
| 9) T   | 1,1,2-Trichlor...   | 0.826          | 0.771 | 0.745 | 0.769 | 0.658 | 0.775 | 0.757 | 7.36   |
| 10) T  | Methyl Iodide       |                | 0.596 | 0.719 | 0.896 | 0.797 | 0.662 | 0.734 | 15.96  |
| 11) T  | Tert butyl alc...   |                | 0.423 | 0.328 | 0.280 | 0.233 | 0.365 | 0.326 | 22.61  |
| 12) CM | 1,1-Dichloroet...   | 0.818          | 0.663 | 0.665 | 0.738 | 0.617 | 0.688 | 0.698 | 10.13# |
| 13) T  | Acrolein            |                | 0.194 | 0.140 | 0.130 | 0.103 | 0.140 | 0.142 | 23.23  |
| 14) T  | Allyl chloride      | 1.782          | 1.598 | 1.501 | 1.554 | 1.278 | 1.542 | 1.542 | 10.55  |
| 15) T  | Acrylonitrile       | 0.648          | 0.524 | 0.584 | 0.572 | 0.474 | 0.595 | 0.566 | 10.63  |
| 16) T  | Acetone             | 0.649          | 0.499 | 0.522 | 0.514 | 0.424 | 0.535 | 0.524 | 13.86  |
| 17) T  | Carbon Disulfide    | 1.644          | 1.299 | 1.339 | 1.894 | 1.643 | 1.335 | 1.526 | 15.68  |
| 18) T  | Methyl Acetate      | 1.714          | 1.517 | 1.626 | 1.540 | 1.269 | 1.657 | 1.554 | 10.15  |
| 19) T  | Methyl tert-bu...   | 3.836          | 3.052 | 3.295 | 3.302 | 2.732 | 3.180 | 3.233 | 11.23  |
| 20) T  | Methylene Chlo...   | 1.567          | 0.946 | 0.894 | 0.920 | 0.778 | 0.933 | 1.006 | 27.96  |
| 21) T  | trans-1,2-Dich...   | 1.162          | 0.801 | 0.785 | 0.883 | 0.751 | 0.845 | 0.871 | 17.21  |
| 22) T  | Diisopropyl ether   | 3.553          | 3.227 | 3.305 | 3.241 | 2.652 | 3.386 | 3.227 | 9.48   |
| 23) T  | Vinyl Acetate       | 2.841          | 2.503 | 2.770 | 2.838 | 2.335 | 2.805 | 2.682 | 7.90   |
| 24) P  | 1,1-Dichloroet...   | 1.818          | 1.653 | 1.746 | 1.750 | 1.444 | 1.751 | 1.694 | 7.86   |
| 25) T  | 2-Butanone          | 1.038          | 0.807 | 0.872 | 0.858 | 0.703 | 0.907 | 0.864 | 12.81  |
| 26) T  | 2,2-Dichloropr...   | 1.800          | 1.579 | 1.607 | 1.640 | 1.360 | 1.654 | 1.607 | 8.90   |
| 27) T  | cis-1,2-Dichlo...   | 1.223          | 0.977 | 0.978 | 1.042 | 0.899 | 1.052 | 1.028 | 10.69  |
| 28) T  | Bromochloromet...   | 0.854          | 0.900 | 0.836 | 0.749 | 0.612 | 0.787 | 0.789 | 12.89  |
| 29) T  | Tetrahydrofuran     | 0.662          | 0.479 | 0.540 | 0.541 | 0.446 | 0.543 | 0.535 | 13.77  |
| 30) C  | Chloroform          | 1.985          | 1.721 | 1.803 | 1.866 | 1.558 | 1.829 | 1.793 | 8.03#  |
| 31) T  | Cyclohexane         |                | 1.306 | 1.315 | 1.470 | 1.210 | 1.291 | 1.319 | 7.14   |
| 32) T  | 1,1,1-Trichlor...   | 1.779          | 1.478 | 1.606 | 1.707 | 1.435 | 1.637 | 1.607 | 8.19   |
| 33) S  | 1,2-Dichloroet...   |                | 1.350 | 1.399 | 1.195 | 1.052 | 1.140 | 1.227 | 11.81  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorom...   |                | 0.522 | 0.594 | 0.551 | 0.524 | 0.496 | 0.537 | 6.96   |
| 36) T  | 1,1-Dichloropr...   | 0.834          | 0.685 | 0.711 | 0.795 | 0.686 | 0.703 | 0.736 | 8.58   |
| 37) T  | Ethyl Acetate       | 1.088          | 0.902 | 0.972 | 1.004 | 0.857 | 0.977 | 0.967 | 8.32   |
| 38) T  | Carbon Tetrach...   | 0.822          | 0.715 | 0.799 | 0.892 | 0.802 | 0.768 | 0.800 | 7.36   |
| 39) T  | Methylcyclohexane   | 0.792          | 0.764 | 0.787 | 0.939 | 0.821 | 0.759 | 0.810 | 8.26   |
| 40) TM | Benzene             | 2.164          | 1.940 | 2.161 | 2.321 | 2.004 | 2.084 | 2.112 | 6.38   |
| 41) T  | Methacrylonitrile   | 0.634          | 0.454 | 0.539 | 0.537 | 0.458 | 0.520 | 0.524 | 12.60  |
| 42) TM | 1,2-Dichloroet...   | 0.809          | 0.815 | 0.901 | 0.924 | 0.796 | 0.868 | 0.852 | 6.22   |
| 43) T  | Isopropyl Acetate   | 1.883          | 1.502 | 1.696 | 1.684 | 1.433 | 1.703 | 1.650 | 9.76   |
| 44) TM | Trichloroethene     | 0.583          | 0.483 | 0.529 | 0.593 | 0.529 | 0.515 | 0.539 | 7.79   |
| 45) C  | 1,2-Dichloropr...   | 0.594          | 0.536 | 0.601 | 0.619 | 0.530 | 0.590 | 0.578 | 6.32#  |
| 46) T  | Dibromomethane      | 0.431          | 0.373 | 0.413 | 0.442 | 0.391 | 0.411 | 0.410 | 6.17   |
| 47) T  | Bromodichlorom...   | 0.885          | 0.772 | 0.884 | 0.915 | 0.810 | 0.852 | 0.853 | 6.27   |
| 48) T  | Methyl methacr...   | 0.849          | 0.701 | 0.773 | 0.777 | 0.661 | 0.746 | 0.751 | 8.71   |
| 49) T  | 1,4-Dioxane         | 0.016          | 0.014 | 0.015 | 0.016 | 0.014 | 0.016 | 0.015 | 7.16   |
| 50) S  | Toluene-d8          |                | 1.982 | 2.299 | 2.083 | 1.947 | 1.770 | 2.016 | 9.65   |
| 51) T  | 4-Methyl-2-Pen...   | 1.066          | 0.929 | 1.051 | 1.039 | 0.879 | 1.054 | 1.003 | 7.84   |
| 52) CM | Toluene             | 1.338          | 1.151 | 1.387 | 1.510 | 1.324 | 1.308 | 1.336 | 8.73#  |
| 53) T  | t-1,3-Dichloro...   | 0.944          | 0.887 | 0.997 | 1.046 | 0.919 | 0.967 | 0.960 | 5.91   |
| 54) T  | cis-1,3-Dichlo...   | 1.071          | 0.885 | 1.004 | 1.063 | 0.928 | 0.969 | 0.987 | 7.52   |
| 55) T  | 1,1,2-Trichlor...   | 0.621          | 0.524 | 0.602 | 0.634 | 0.557 | 0.602 | 0.590 | 7.03   |
| 56) T  | Ethyl methacry...   | 0.939          | 0.875 | 0.999 | 1.040 | 0.905 | 0.972 | 0.955 | 6.41   |

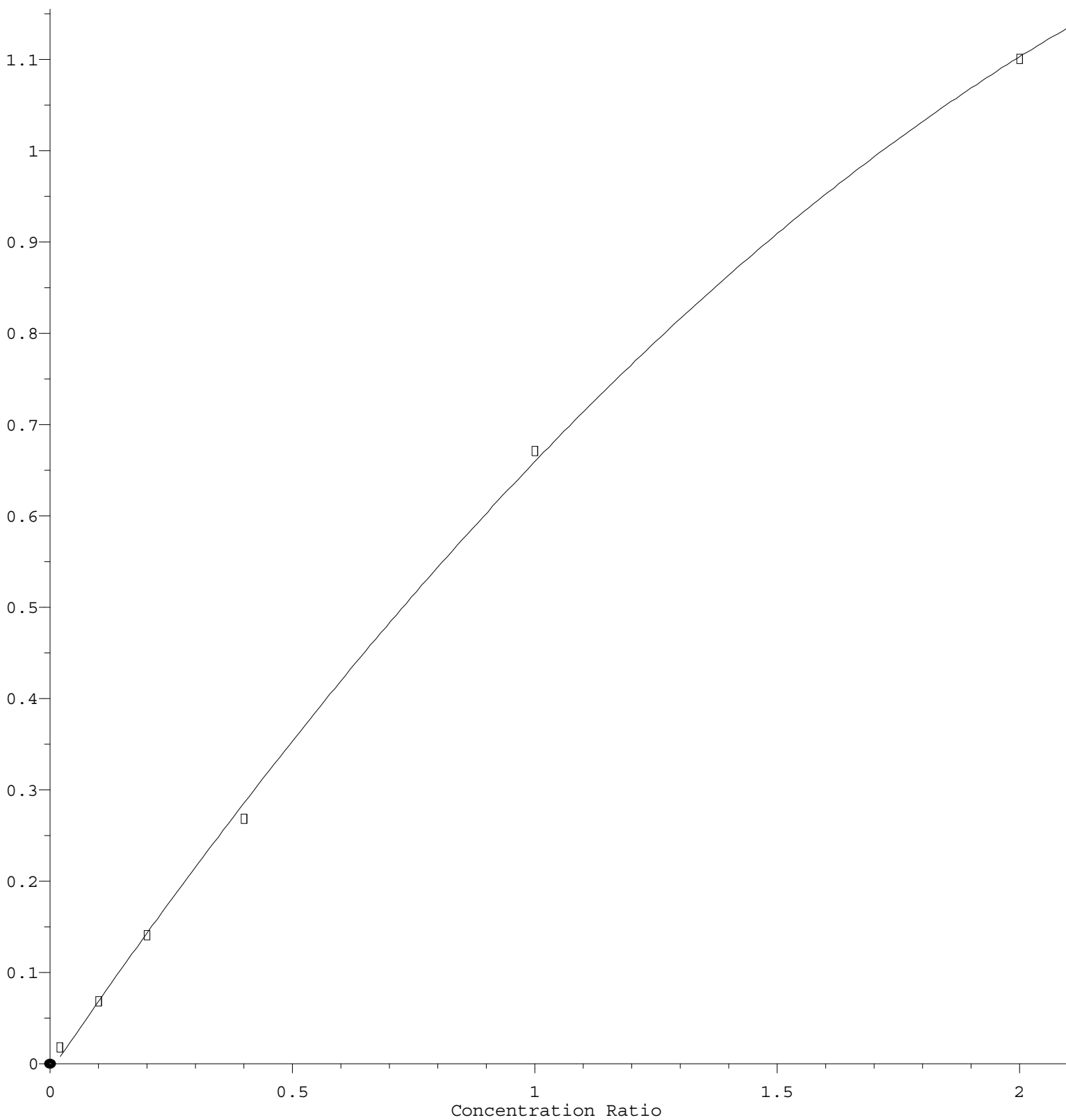
Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 82X091422W.M

|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 1.049          | 0.945 | 1.038 | 1.081 | 0.934 | 1.034 | 1.014 | 5.91  |
| 58) | T  | 2-Chloroethyl ...     | 0.428          | 0.460 | 0.469 | 0.478 | 0.381 | 0.453 | 0.445 | 8.00  |
| 59) | T  | 2-Hexanone            | 0.828          | 0.722 | 0.792 | 0.790 | 0.657 | 0.804 | 0.766 | 8.31  |
| 60) | T  | Dibromochlorom...     | 0.612          | 0.566 | 0.643 | 0.727 | 0.651 | 0.617 | 0.636 | 8.45  |
| 61) | T  | 1,2-Dibromoethane     | 0.577          | 0.524 | 0.638 | 0.694 | 0.606 | 0.591 | 0.605 | 9.49  |
| 62) | S  | 4-Bromofluorob...     | 0.709          | 0.835 | 0.780 | 0.728 | 0.638 | 0.738 | 10.09 |       |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.478          | 0.416 | 0.447 | 0.509 | 0.454 | 0.438 | 0.457 | 7.15  |
| 65) | PM | Chlorobenzene         | 1.349          | 1.211 | 1.339 | 1.462 | 1.290 | 1.294 | 1.324 | 6.30  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.488          | 0.492 | 0.531 | 0.582 | 0.515 | 0.523 | 0.522 | 6.50  |
| 67) | C  | Ethyl Benzene         | 2.271          | 2.217 | 2.463 | 2.649 | 2.344 | 2.447 | 2.399 | 6.50# |
| 68) | T  | m/p-Xylenes           | 0.828          | 0.825 | 0.930 | 1.028 | 0.934 | 0.919 | 0.911 | 8.34  |
| 69) | T  | o-Xylene              | 0.923          | 0.843 | 0.945 | 1.018 | 0.915 | 0.907 | 0.925 | 6.13  |
| 70) | T  | Styrene               | 1.370          | 1.373 | 1.560 | 1.707 | 1.544 | 1.472 | 1.504 | 8.51  |
| 71) | P  | Bromoform             | 0.400          | 0.353 | 0.405 | 0.488 | 0.445 | 0.402 | 0.415 | 11.05 |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.833          | 3.580 | 3.746 | 3.812 | 3.471 | 3.716 | 3.693 | 3.81  |
| 74) | T  | N-amyl acetate        | 2.033          | 1.837 | 1.854 | 1.783 | 1.563 | 1.946 | 1.836 | 8.73  |
| 75) | P  | 1,1,2,2-Tetrac...     | 1.509          | 1.309 | 1.347 | 1.269 | 1.113 | 1.417 | 1.327 | 10.18 |
| 76) | T  | 1,2,3-Trichlor...     | 1.258          | 1.268 | 1.332 | 1.241 | 1.068 | 1.395 | 1.260 | 8.74  |
| 77) | T  | Bromobenzene          | 0.869          | 0.769 | 0.839 | 0.922 | 0.838 | 0.816 | 0.842 | 6.10  |
| 78) | T  | n-propylbenzene       | 4.500          | 4.131 | 4.434 | 4.481 | 4.054 | 4.404 | 4.334 | 4.42  |
| 79) | T  | 2-Chlorotoluene       | 2.975          | 2.575 | 2.687 | 2.627 | 2.384 | 2.664 | 2.652 | 7.23  |
| 80) | T  | 1,3,5-Trimethy...     | 3.072          | 2.891 | 3.196 | 3.276 | 2.960 | 3.169 | 3.094 | 4.77  |
| 81) | T  | trans-1,4-Dich...     | 0.440          | 0.476 | 0.471 | 0.418 | 0.472 | 0.455 | 0.455 | 5.52  |
| 82) | T  | 4-Chlorotoluene       | 3.125          | 2.958 | 3.138 | 3.110 | 2.801 | 3.107 | 3.040 | 4.42  |
| 83) | T  | tert-Butylbenzene     | 3.159          | 2.891 | 3.168 | 3.273 | 2.963 | 3.121 | 3.096 | 4.58  |
| 84) | T  | 1,2,4-Trimethy...     | 3.069          | 2.908 | 3.199 | 3.244 | 2.941 | 3.090 | 3.075 | 4.36  |
| 85) | T  | sec-Butylbenzene      | 3.858          | 3.650 | 4.053 | 4.093 | 3.716 | 3.887 | 3.876 | 4.55  |
| 86) | T  | p-Isopropyltol...     | 3.002          | 2.917 | 3.290 | 3.436 | 3.156 | 3.152 | 3.159 | 5.96  |
| 87) | T  | 1,3-Dichlorobe...     | 1.606          | 1.480 | 1.600 | 1.759 | 1.600 | 1.588 | 1.605 | 5.55  |
| 88) | T  | 1,4-Dichlorobe...     | 1.676          | 1.550 | 1.653 | 1.760 | 1.596 | 1.664 | 1.650 | 4.35  |
| 89) | T  | n-Butylbenzene        | 2.671          | 2.675 | 2.904 | 2.994 | 2.765 | 2.796 | 2.801 | 4.57  |
| 90) | T  | Hexachloroethane      | 0.647          | 0.588 | 0.636 | 0.667 | 0.614 | 0.633 | 0.631 | 4.34  |
| 91) | T  | 1,2-Dichlorobe...     | 1.672          | 1.574 | 1.661 | 1.727 | 1.537 | 1.636 | 1.634 | 4.22  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.472          | 0.327 | 0.339 | 0.329 | 0.292 | 0.347 | 0.351 | 17.79 |
| 93) | T  | 1,2,4-Trichlor...     | 0.785          | 0.849 | 0.882 | 0.999 | 0.951 | 0.844 | 0.885 | 8.80  |
| 94) | T  | Hexachlorobuta...     | 0.352          | 0.315 | 0.334 | 0.372 | 0.364 | 0.335 | 0.345 | 6.12  |
| 95) | T  | Naphthalene           | 3.672          | 3.288 | 3.619 | 3.874 | 3.604 | 3.517 | 3.596 | 5.34  |
| 96) | T  | 1,2,3-Trichlor...     | 1.018          | 0.864 | 0.900 | 1.032 | 0.988 | 0.885 | 0.948 | 7.72  |

(#) = Out of Range

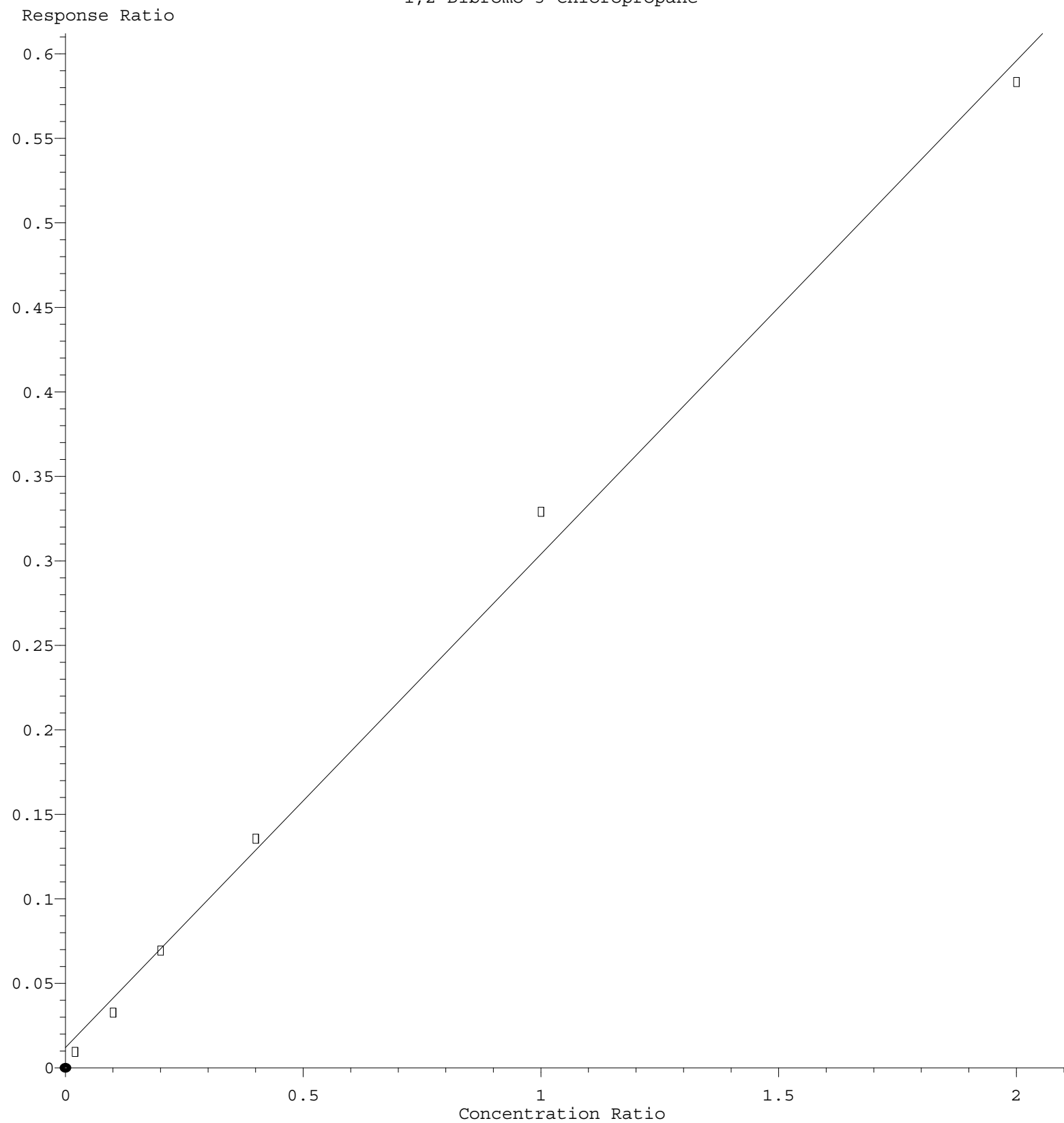
# Diethyl Ether

Response Ratio



$R = -1.122e-001 A^2 + 7.798e-001 A - 8.253e-003$   
 Coef of Det ( $r^2$ ) = 0.999379    Curve Fit: Quadratic  
 Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X091422W.M  
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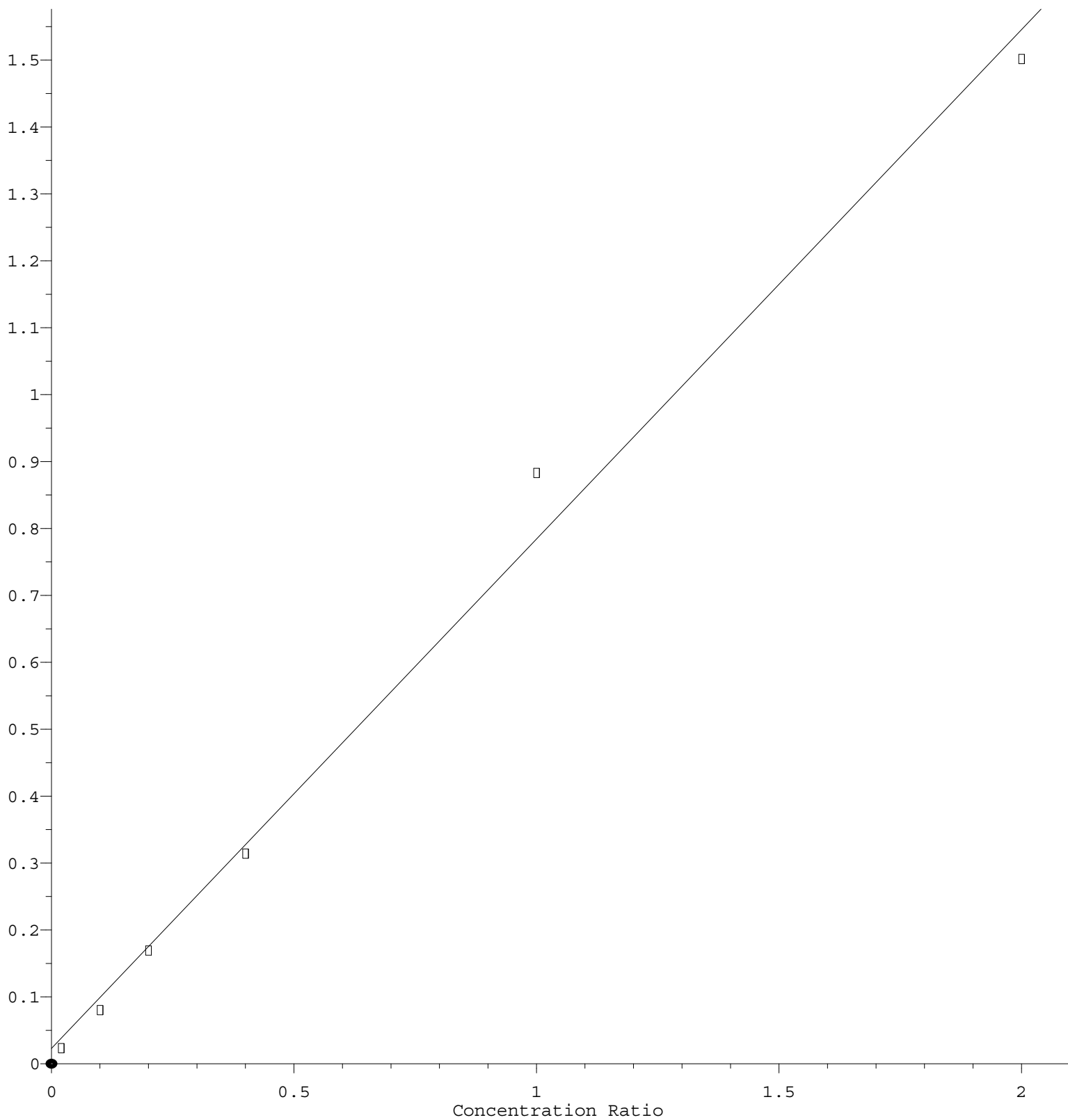
# 1,2-Dibromo-3-Chloropropane



Response = 2.922e-001 \* Amt + 1.210e-002  
 Coef of Det (r^2) = 0.996071 Curve Fit: Linear  
 Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X091422W.M  
 Calibration Table Last Updated: Thu Sep 15 01:50:07 2022

## trans-1,2-Dichloroethene

Response Ratio



$$\text{Response} = 7.616\text{e-}001 * \text{Amt} + 2.293\text{e-}002$$

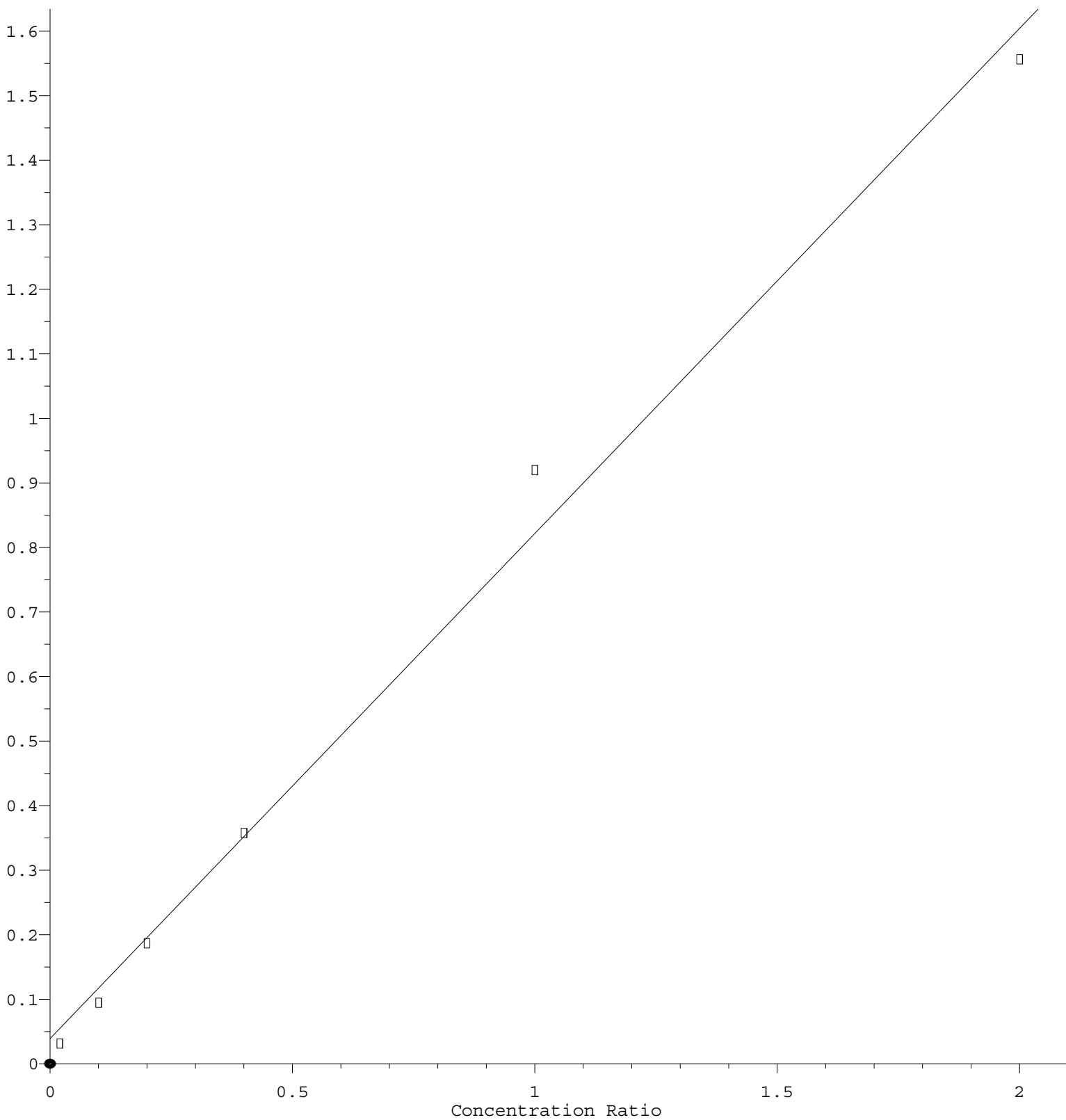
Coef of Det ( $r^2$ ) = 0.992655 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X091422W.M

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# Methylene Chloride

Response Ratio



$$\text{Response} = 7.824\text{e-}001 * \text{Amt} + 3.924\text{e-}002$$

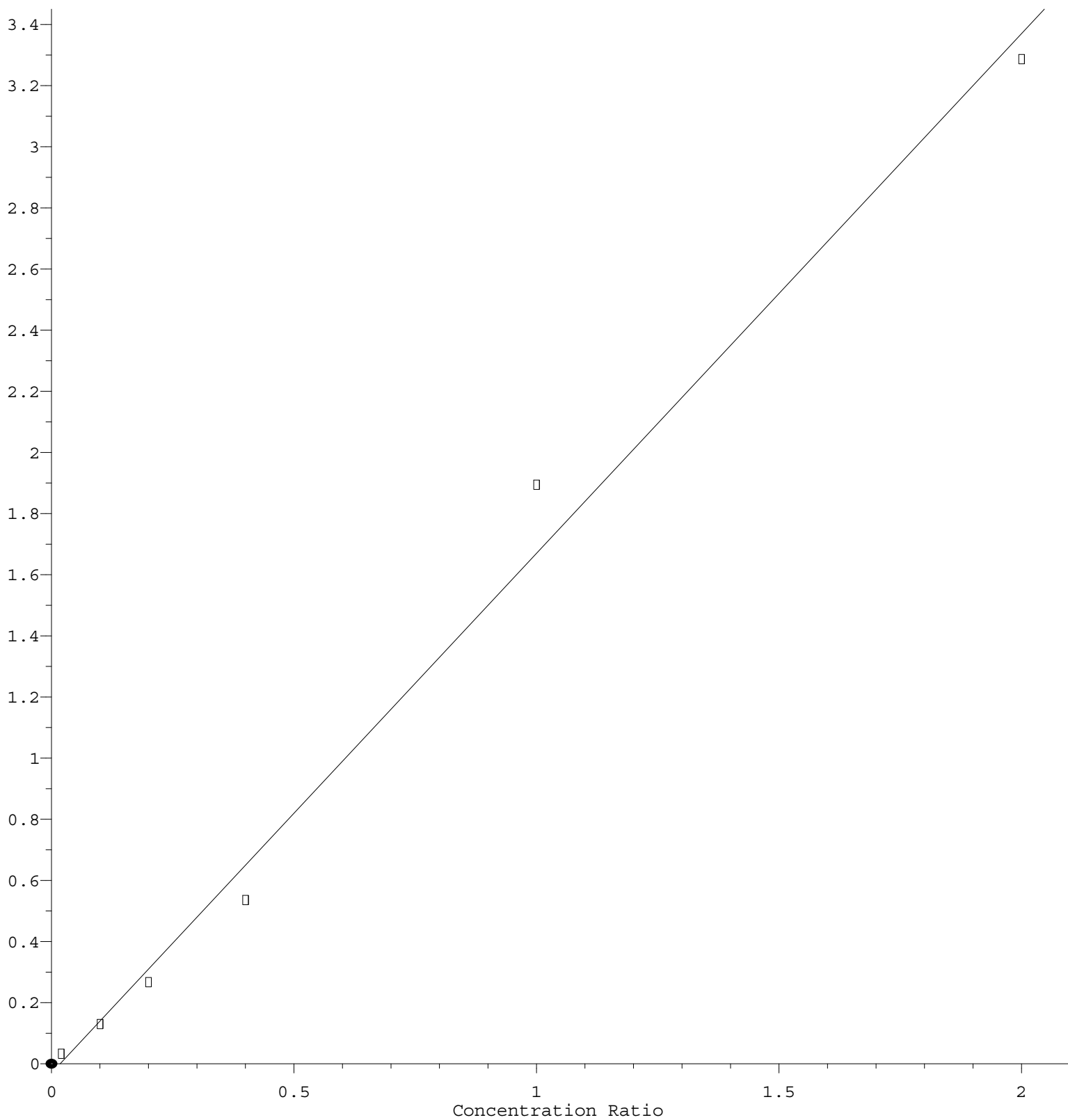
Coef of Det ( $r^2$ ) = 0.992683 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X091422W.M

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## Carbon Disulfide

Response Ratio



$$\text{Response} = 1.700\text{e}+000 * \text{Amt} - 2.991\text{e}-002$$

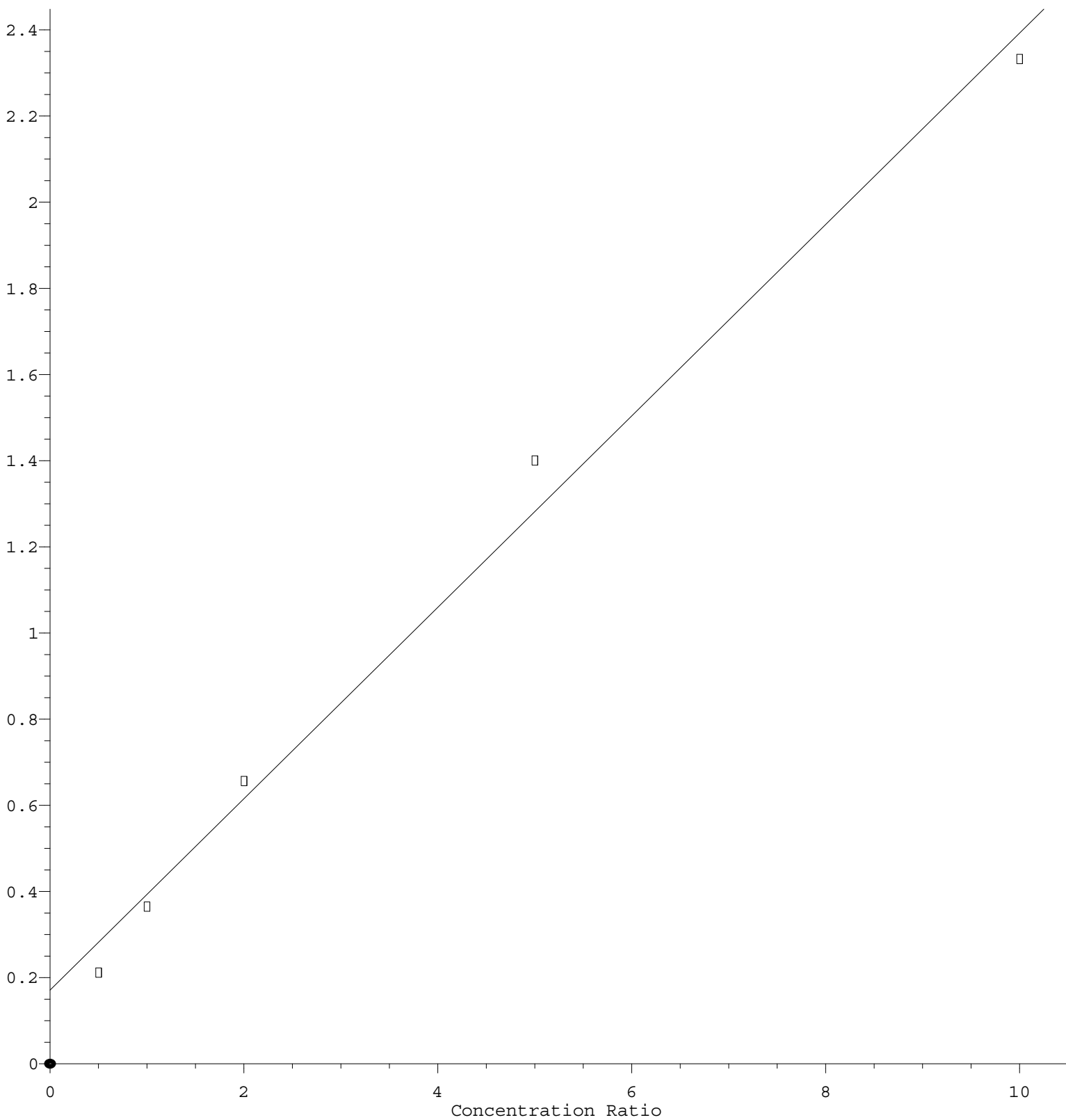
Coef of Det ( $r^2$ ) = 0.991382 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X091422W.M

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# Tert butyl alcohol

Response Ratio



$$\text{Response} = 2.223\text{e-}001 * \text{Amt} + 1.708\text{e-}001$$

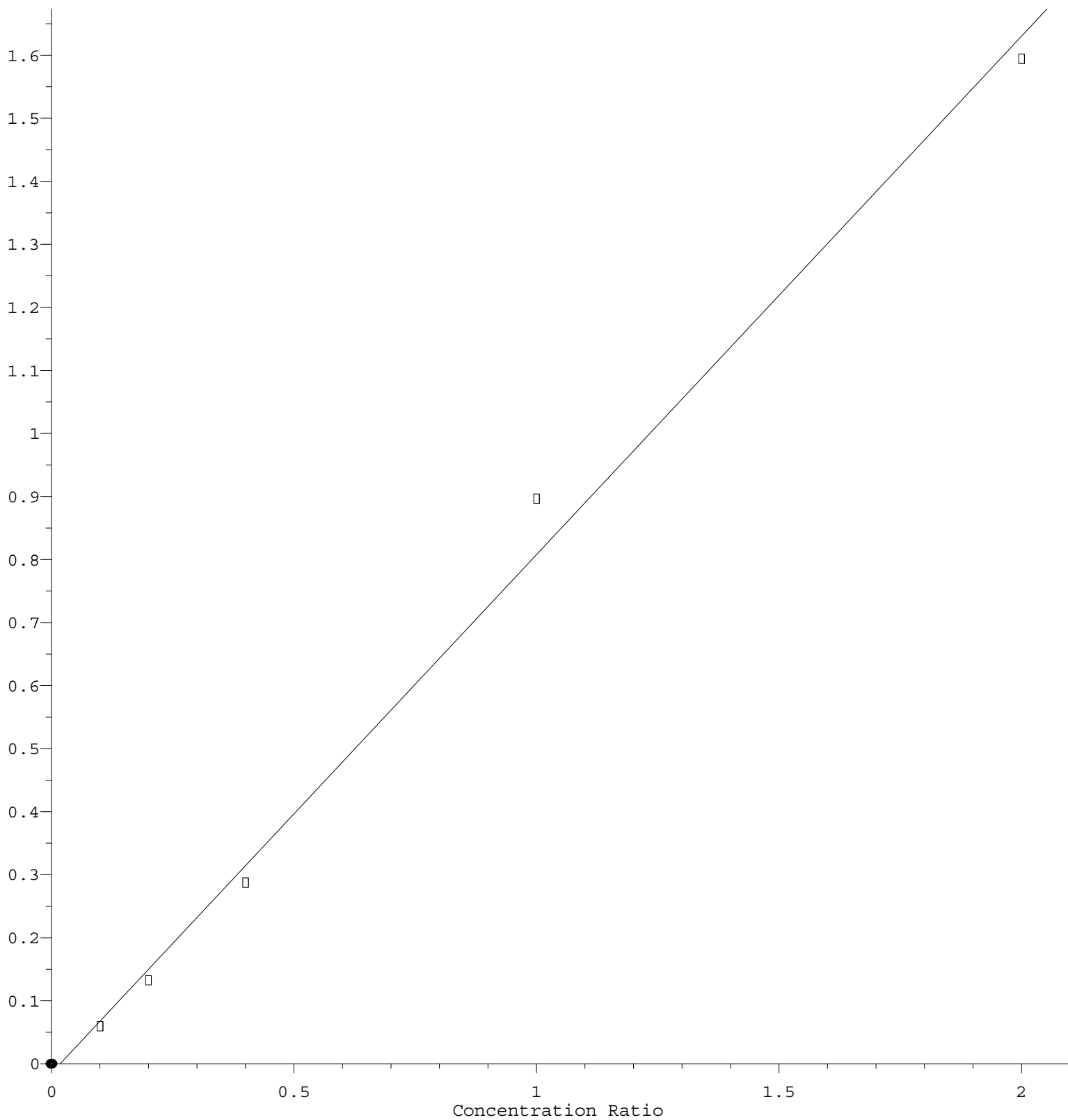
Coef of Det ( $r^2$ ) = 0.991823 Curve Fit: Linear

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## Methyl Iodide

Response Ratio



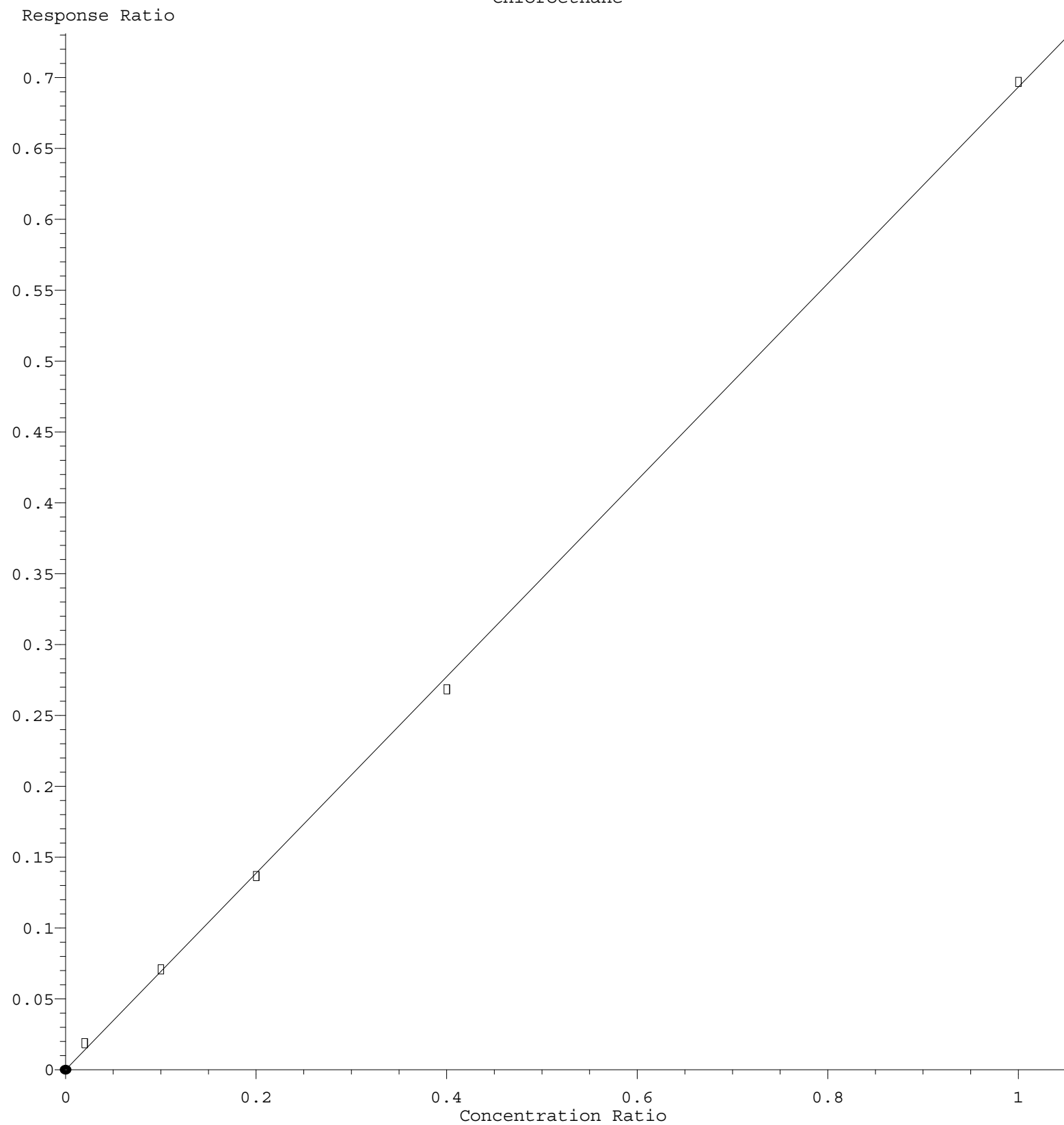
$$\text{Response} = 8.230\text{e-}001 * \text{Amt} - 1.495\text{e-}002$$

Coef of Det ( $r^2$ ) = 0.993912 Curve Fit: Linear

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## Chloroethane



Response =  $6.936 \times 10^{-1} \times \text{Amt} - 3.008 \times 10^{-4}$   
Coef of Det ( $r^2$ ) = 0.999590 Curve Fit: Linear  
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