

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 82X101922W.M  
 Title : SW846 8260  
 Last Update : Wed Oct 19 16:51:09 2022  
 Response Via : Initial Calibration

## Calibration Files

1 =VX032197.D 5 =VX032198.D 20 =VX032200.D 50 =VX032201.D 100 =VX032202.D 150 =VX032203.D

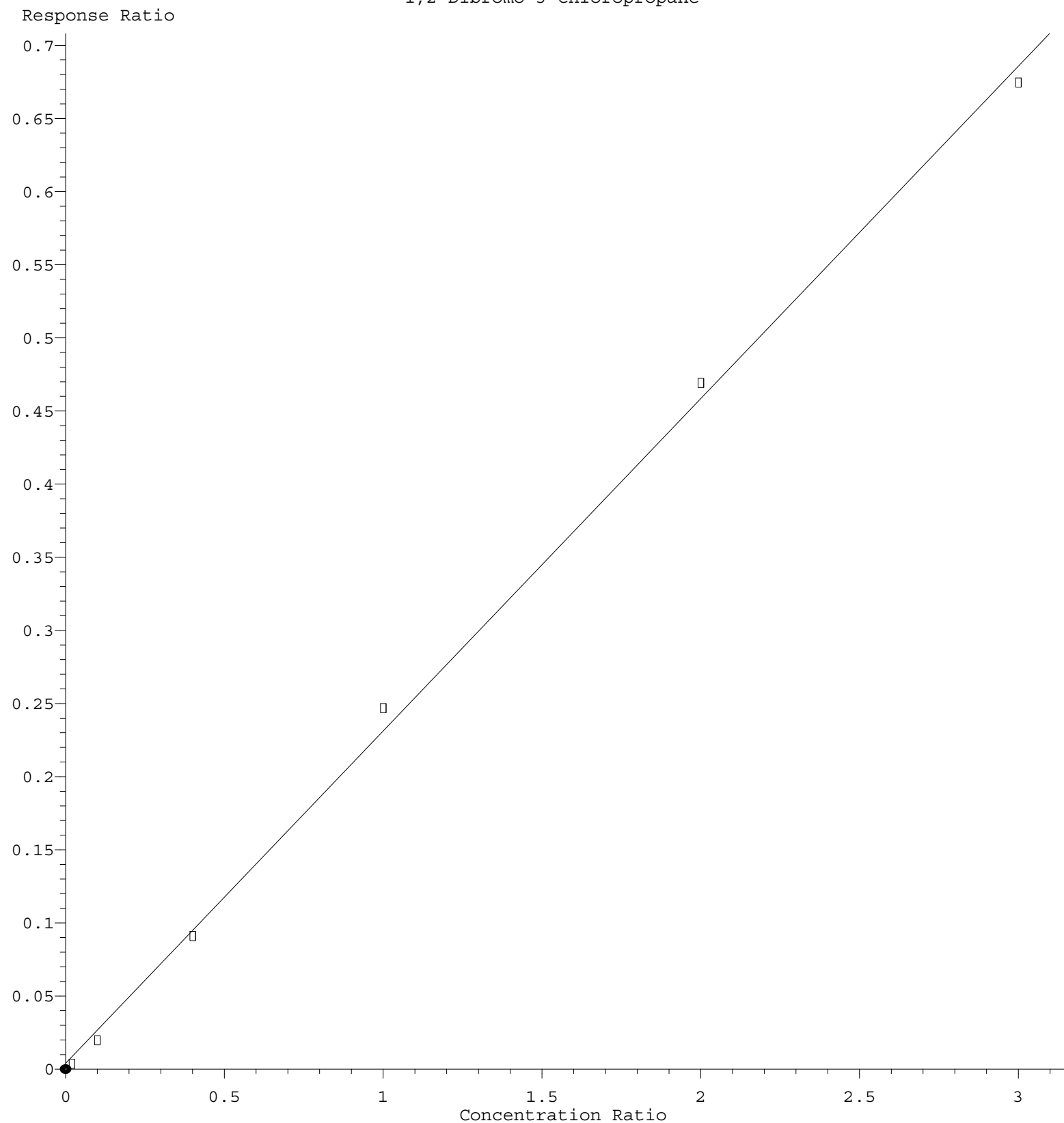
|        | Compound            | 1              | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| -----  |                     |                |       |       |       |       |       |       |       |
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 0.484          | 0.457 | 0.446 | 0.453 | 0.457 | 0.448 | 0.457 | 3.06  |
| 3) P   | Chloromethane       | 0.628          | 0.467 | 0.451 | 0.477 | 0.447 | 0.423 | 0.482 | 15.27 |
| 4) C   | Vinyl Chloride      | 0.527          | 0.491 | 0.477 | 0.519 | 0.480 | 0.462 | 0.493 | 5.16# |
| 5) T   | Bromomethane        |                | 0.548 | 0.528 | 0.541 | 0.504 | 0.457 | 0.516 | 7.17  |
| 6) T   | Chloroethane        | 0.461          | 0.464 | 0.320 | 0.437 | 0.384 | 0.307 | 0.395 | 17.64 |
| 7) T   | Trichlorofluor...   | 0.891          | 0.869 | 0.849 | 0.879 | 0.866 | 0.901 | 0.876 | 2.14  |
| 8) T   | Diethyl Ether       | 0.288          | 0.282 | 0.290 | 0.315 | 0.306 | 0.305 | 0.298 | 4.35  |
| 9) T   | 1,1,2-Trichlor...   | 0.510          | 0.495 | 0.459 | 0.469 | 0.462 | 0.455 | 0.475 | 4.73  |
| 10) T  | Methyl Iodide       |                | 0.631 | 0.674 | 0.741 | 0.707 | 0.678 | 0.686 | 5.95  |
| 11) T  | Tert butyl alc...   |                | 0.157 | 0.102 | 0.094 | 0.088 | 0.086 | 0.105 | 27.97 |
| 12) CM | 1,1-Dichloroet...   | 0.456          | 0.437 | 0.439 | 0.470 | 0.441 | 0.434 | 0.446 | 3.10# |
| 13) T  | Acrolein            |                | 0.082 | 0.078 | 0.080 | 0.079 | 0.077 | 0.079 | 2.48  |
| 14) T  | Allyl chloride      | 0.664          | 0.644 | 0.691 | 0.747 | 0.732 | 0.727 | 0.701 | 5.89  |
| 15) T  | Acrylonitrile       | 0.249          | 0.238 | 0.242 | 0.259 | 0.241 | 0.235 | 0.244 | 3.52  |
| 16) T  | Acetone             | 0.238          | 0.208 | 0.207 | 0.214 | 0.199 | 0.200 | 0.211 | 6.83  |
| 17) T  | Carbon Disulfide    | 1.060          | 0.935 | 0.989 | 1.112 | 1.083 | 1.089 | 1.045 | 6.52  |
| 18) T  | Methyl Acetate      | 0.754          | 0.653 | 0.723 | 0.761 | 0.714 | 0.695 | 0.717 | 5.58  |
| 19) T  | Methyl tert-bu...   | 1.566          | 1.449 | 1.468 | 1.615 | 1.574 | 1.555 | 1.538 | 4.24  |
| 20) T  | Methylene Chlo...   | 0.668          | 0.542 | 0.503 | 0.538 | 0.506 | 0.494 | 0.542 | 11.97 |
| 21) T  | trans-1,2-Dich...   | 0.453          | 0.496 | 0.478 | 0.518 | 0.487 | 0.483 | 0.486 | 4.43  |
| 22) T  | Diisopropyl ether   | 1.514          | 1.453 | 1.463 | 1.605 | 1.589 | 1.586 | 1.535 | 4.39  |
| 23) T  | Vinyl Acetate       | 1.121          | 1.116 | 1.186 | 1.321 | 1.308 | 1.308 | 1.227 | 7.94  |
| 24) P  | 1,1-Dichloroet...   | 0.911          | 0.868 | 0.867 | 0.917 | 0.885 | 0.874 | 0.887 | 2.49  |
| 25) T  | 2-Butanone          | 0.337          | 0.324 | 0.326 | 0.346 | 0.324 | 0.319 | 0.330 | 3.05  |
| 26) T  | 2,2-Dichloropr...   | 0.536          | 0.557 | 0.611 | 0.698 | 0.691 | 0.741 | 0.639 | 12.99 |
| 27) T  | cis-1,2-Dichlo...   | 0.515          | 0.571 | 0.570 | 0.608 | 0.581 | 0.570 | 0.569 | 5.37  |
| 28) T  | Bromochloromet...   | 0.384          | 0.393 | 0.364 | 0.358 | 0.352 | 0.345 | 0.366 | 5.14  |
| 29) T  | Tetrahydrofuran     | 0.208          | 0.209 | 0.210 | 0.227 | 0.214 | 0.209 | 0.213 | 3.34  |
| 30) C  | Chloroform          | 0.957          | 0.939 | 0.941 | 1.009 | 0.983 | 0.963 | 0.965 | 2.78# |
| 31) T  | Cyclohexane         |                | 0.739 | 0.735 | 0.760 | 0.746 | 0.738 | 0.744 | 1.38  |
| 32) T  | 1,1,1-Trichlor...   | 0.727          | 0.780 | 0.799 | 0.887 | 0.870 | 0.875 | 0.823 | 7.81  |
| 33) S  | 1,2-Dichloroet...   |                | 0.668 | 0.635 | 0.682 | 0.641 | 0.626 | 0.650 | 3.61  |
|        |                     |                |       |       |       |       |       |       |       |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   |                | 0.362 | 0.342 | 0.367 | 0.340 | 0.328 | 0.348 | 4.65  |
| 36) T  | 1,1-Dichloropr...   | 0.481          | 0.426 | 0.440 | 0.465 | 0.440 | 0.433 | 0.448 | 4.70  |
| 37) T  | Ethyl Acetate       | 0.489          | 0.405 | 0.426 | 0.452 | 0.435 | 0.423 | 0.438 | 6.66  |
| 38) T  | Carbon Tetrach...   | 0.460          | 0.429 | 0.460 | 0.506 | 0.492 | 0.488 | 0.472 | 5.93  |
| 39) T  | Methylcyclohexane   | 0.529          | 0.532 | 0.516 | 0.547 | 0.548 | 0.535 | 0.535 | 2.23  |
| 40) TM | Benzene             | 1.346          | 1.290 | 1.272 | 1.358 | 1.281 | 1.235 | 1.297 | 3.58  |
| 41) T  | Methacrylonitrile   | 0.212          | 0.212 | 0.233 | 0.259 | 0.242 | 0.230 | 0.231 | 7.81  |
| 42) TM | 1,2-Dichloroet...   | 0.488          | 0.485 | 0.487 | 0.524 | 0.508 | 0.489 | 0.497 | 3.18  |
| 43) T  | Isopropyl Acetate   | 0.642          | 0.634 | 0.663 | 0.748 | 0.733 | 0.706 | 0.688 | 7.02  |
| 44) TM | Trichloroethene     | 0.372          | 0.344 | 0.354 | 0.376 | 0.353 | 0.344 | 0.357 | 3.84  |
| 45) C  | 1,2-Dichloropr...   | 0.329          | 0.308 | 0.330 | 0.347 | 0.332 | 0.317 | 0.327 | 4.01# |
| 46) T  | Dibromomethane      | 0.240          | 0.227 | 0.244 | 0.260 | 0.253 | 0.240 | 0.244 | 4.74  |
| 47) T  | Bromodichlorom...   | 0.406          | 0.417 | 0.439 | 0.485 | 0.485 | 0.473 | 0.451 | 7.76  |
| 48) T  | Methyl methacr...   | 0.310          | 0.315 | 0.337 | 0.375 | 0.367 | 0.354 | 0.343 | 7.84  |
| 49) T  | 1,4-Dioxane         | 0.006          | 0.007 | 0.008 | 0.008 | 0.006 | 0.006 | 0.007 | 10.74 |
| 50) S  | Toluene-d8          |                | 1.258 | 1.226 | 1.353 | 1.218 | 1.206 | 1.252 | 4.74  |
| 51) T  | 4-Methyl-2-Pen...   | 0.397          | 0.414 | 0.438 | 0.471 | 0.442 | 0.424 | 0.431 | 5.93  |
| 52) CM | Toluene             | 0.855          | 0.816 | 0.818 | 0.884 | 0.838 | 0.830 | 0.840 | 3.05# |
| 53) T  | t-1,3-Dichloro...   | 0.367          | 0.370 | 0.424 | 0.506 | 0.520 | 0.521 | 0.451 | 16.27 |
| 54) T  | cis-1,3-Dichlo...   | 0.447          | 0.435 | 0.483 | 0.553 | 0.553 | 0.542 | 0.502 | 10.81 |
| 55) T  | 1,1,2-Trichlor...   | 0.331          | 0.325 | 0.339 | 0.364 | 0.349 | 0.339 | 0.341 | 4.05  |
| 56) T  | Ethyl methacry...   | 0.458          | 0.426 | 0.478 | 0.533 | 0.532 | 0.523 | 0.492 | 9.04  |

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|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.542          | 0.536 | 0.544 | 0.589 | 0.563 | 0.544 | 0.553 | 3.63  |
| 58) | T  | 2-Chloroethyl ...     | 0.217          | 0.232 | 0.213 | 0.237 | 0.231 | 0.223 | 0.225 | 4.20  |
| 59) | T  | 2-Hexanone            | 0.316          | 0.300 | 0.323 | 0.350 | 0.328 | 0.313 | 0.322 | 5.22  |
| 60) | T  | Dibromochlorom...     | 0.284          | 0.307 | 0.338 | 0.390 | 0.390 | 0.391 | 0.350 | 13.55 |
| 61) | T  | 1,2-Dibromoethane     | 0.353          | 0.332 | 0.353 | 0.389 | 0.381 | 0.364 | 0.362 | 5.74  |
| 62) | S  | 4-Bromofluorob...     | 0.401          | 0.433 | 0.500 | 0.466 | 0.494 | 0.459 |       | 9.15  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.331          | 0.344 | 0.326 | 0.339 | 0.322 | 0.319 | 0.330 | 2.94  |
| 65) | PM | Chlorobenzene         | 1.071          | 1.018 | 0.993 | 1.069 | 1.005 | 0.994 | 1.025 | 3.52  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.330          | 0.342 | 0.358 | 0.398 | 0.389 | 0.384 | 0.367 | 7.52  |
| 67) | C  | Ethyl Benzene         | 1.827          | 1.732 | 1.787 | 1.916 | 1.821 | 1.808 | 1.815 | 3.33# |
| 68) | T  | m/p-Xylenes           | 0.716          | 0.675 | 0.697 | 0.749 | 0.718 | 0.745 | 0.717 | 3.94  |
| 69) | T  | o-Xylene              | 0.633          | 0.650 | 0.677 | 0.730 | 0.704 | 0.727 | 0.687 | 5.87  |
| 70) | T  | Styrene               | 1.087          | 1.036 | 1.102 | 1.230 | 1.213 | 1.280 | 1.158 | 8.33  |
| 71) | P  | Bromoform             | 0.236          | 0.229 | 0.258 | 0.306 | 0.316 | 0.323 | 0.278 | 15.11 |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.674          | 3.601 | 3.558 | 3.681 | 3.446 | 3.446 | 3.568 | 2.94  |
| 74) | T  | N-amyl acetate        | 1.216          | 1.230 | 1.326 | 1.441 | 1.384 | 1.312 | 1.318 | 6.60  |
| 75) | P  | 1,1,2,2-Tetrac...     | 1.256          | 1.152 | 1.154 | 1.185 | 1.082 | 1.053 | 1.147 | 6.32  |
| 76) | T  | 1,2,3-Trichlor...     | 1.050          | 0.944 | 0.986 | 1.025 | 0.939 | 1.000 | 0.991 | 4.43  |
| 77) | T  | Bromobenzene          | 0.895          | 0.902 | 0.869 | 0.900 | 0.841 | 0.840 | 0.875 | 3.30  |
| 78) | T  | n-propylbenzene       | 3.951          | 4.045 | 4.136 | 4.299 | 4.034 | 4.046 | 4.085 | 2.94  |
| 79) | T  | 2-Chlorotoluene       | 2.642          | 2.473 | 2.422 | 2.541 | 2.340 | 2.355 | 2.462 | 4.69  |
| 80) | T  | 1,3,5-Trimethy...     | 3.074          | 3.014 | 3.028 | 3.192 | 3.110 | 3.073 | 3.082 | 2.08  |
| 81) | T  | trans-1,4-Dich...     | 0.225          | 0.262 | 0.317 | 0.325 | 0.328 | 0.291 |       | 15.71 |
| 82) | T  | 4-Chlorotoluene       | 2.819          | 2.755 | 2.830 | 2.993 | 2.921 | 2.882 | 2.867 | 2.93  |
| 83) | T  | tert-Butylbenzene     | 3.170          | 3.000 | 3.092 | 3.193 | 3.027 | 3.017 | 3.083 | 2.68  |
| 84) | T  | 1,2,4-Trimethy...     | 2.788          | 3.056 | 3.054 | 3.184 | 2.947 | 2.947 | 2.996 | 4.48  |
| 85) | T  | sec-Butylbenzene      | 3.637          | 3.709 | 3.740 | 3.911 | 3.690 | 3.669 | 3.726 | 2.61  |
| 86) | T  | p-Isopropyltol...     | 2.949          | 3.121 | 3.164 | 3.352 | 3.245 | 3.192 | 3.171 | 4.24  |
| 87) | T  | 1,3-Dichlorobe...     | 1.865          | 1.677 | 1.645 | 1.721 | 1.597 | 1.595 | 1.683 | 6.00  |
| 88) | T  | 1,4-Dichlorobe...     | 1.921          | 1.748 | 1.664 | 1.761 | 1.660 | 1.620 | 1.729 | 6.29  |
| 89) | T  | n-Butylbenzene        | 2.608          | 2.560 | 2.697 | 2.978 | 2.959 | 2.953 | 2.793 | 6.88  |
| 90) | T  | Hexachloroethane      | 0.470          | 0.440 | 0.481 | 0.525 | 0.519 | 0.517 | 0.492 | 6.83  |
| 91) | T  | 1,2-Dichlorobe...     | 1.669          | 1.693 | 1.637 | 1.695 | 1.642 | 1.578 | 1.652 | 2.65  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.184          | 0.197 | 0.227 | 0.247 | 0.235 | 0.225 | 0.219 | 10.85 |
| 93) | T  | 1,2,4-Trichlor...     | 1.143          | 1.049 | 1.057 | 1.121 | 1.039 | 1.045 | 1.076 | 4.16  |
| 94) | T  | Hexachlorobuta...     | 0.549          | 0.471 | 0.451 | 0.473 | 0.432 | 0.425 | 0.467 | 9.61  |
| 95) | T  | Naphthalene           | 3.272          | 3.353 | 3.616 | 3.717 | 3.434 | 3.279 | 3.445 | 5.34  |
| 96) | T  | 1,2,3-Trichlor...     | 1.141          | 1.056 | 1.079 | 1.124 | 1.057 | 1.034 | 1.082 | 3.91  |

(#) = Out of Range

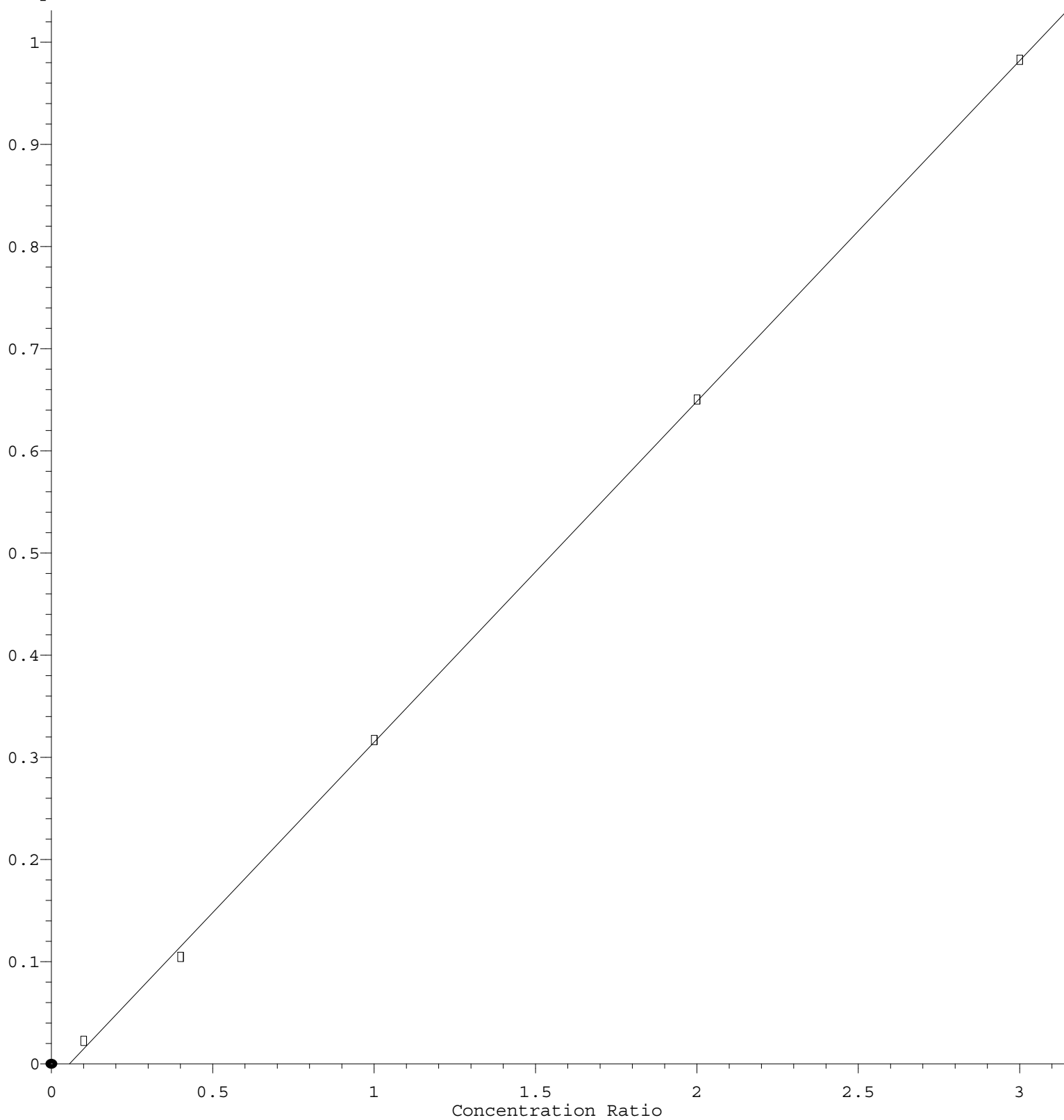
# 1,2-Dibromo-3-Chloropropane



$\text{Response} = 2.275\text{e-}001 * \text{Amt} + 3.606\text{e-}003$   
 Coef of Det ( $r^2$ ) = 0.998456    Curve Fit: Linear  
 Method Name:    Z:\voasrv\HPCHEM1\MSVOA X\Method\82X101922W.M  
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## trans-1,4-Dichloro-2-butene

Response Ratio



$$\text{Response} = 3.338\text{e-}001 * \text{Amt} - 1.854\text{e-}002$$

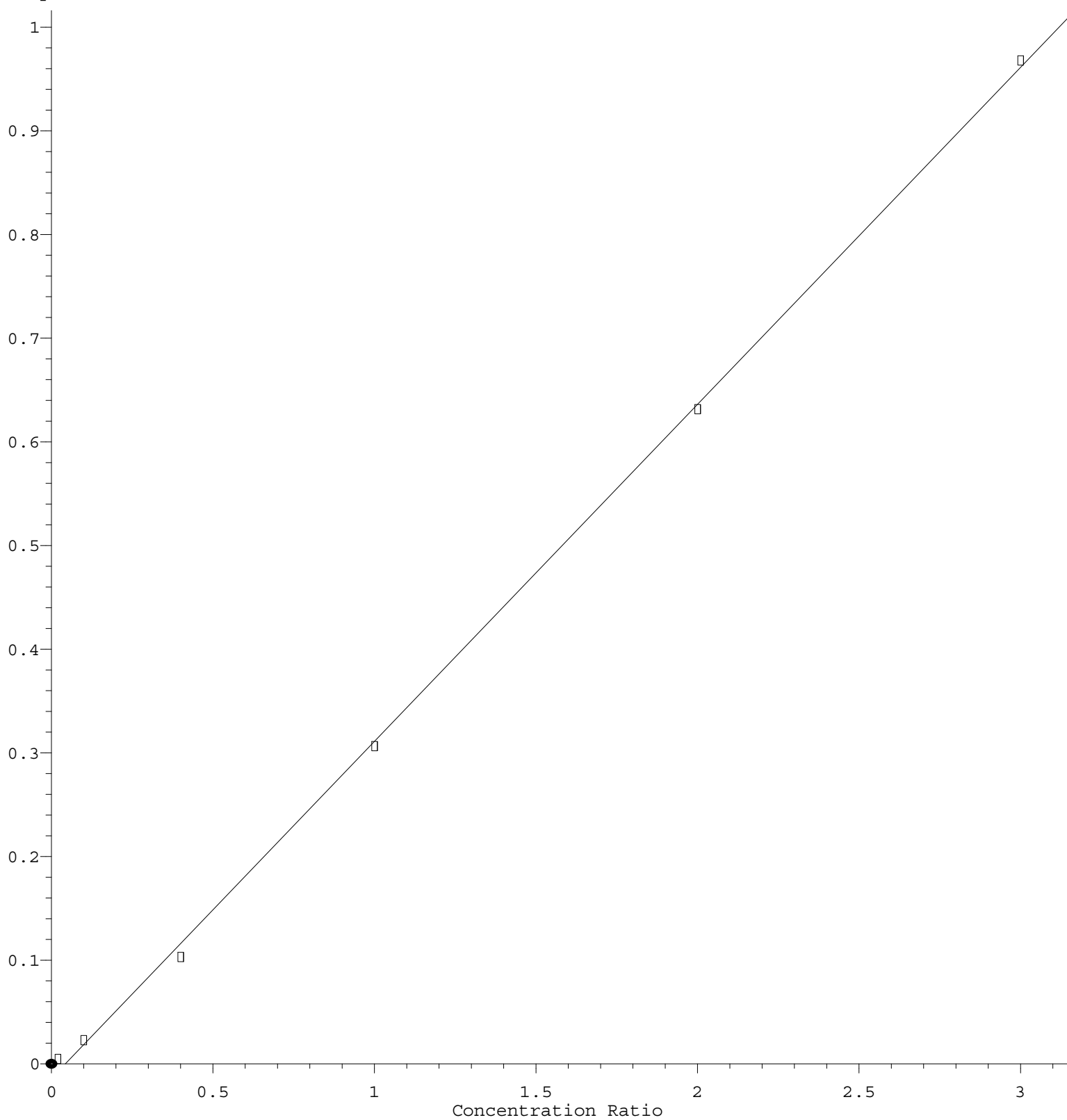
Coef of Det ( $r^2$ ) = 0.999734 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X101922W.M

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# Bromoform

Response Ratio



$$\text{Response} = 3.251\text{e-}001 * \text{Amt} - 1.392\text{e-}002$$

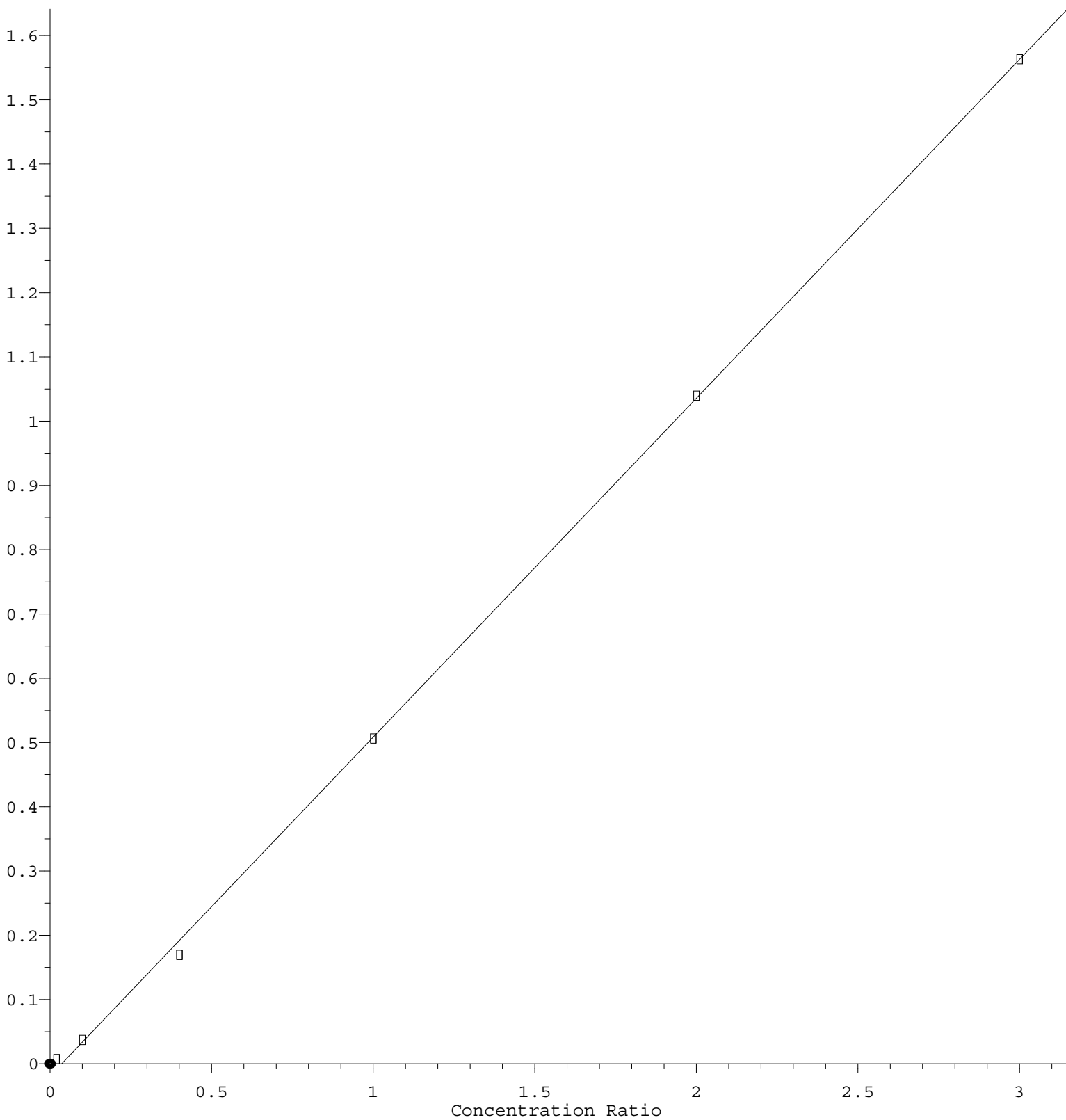
Coef of Det ( $r^2$ ) = 0.999433 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X101922W.M

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# t-1,3-Dichloropropene

Response Ratio



$$\text{Response} = 5.272\text{e-}001 * \text{Amt} - 1.918\text{e-}002$$

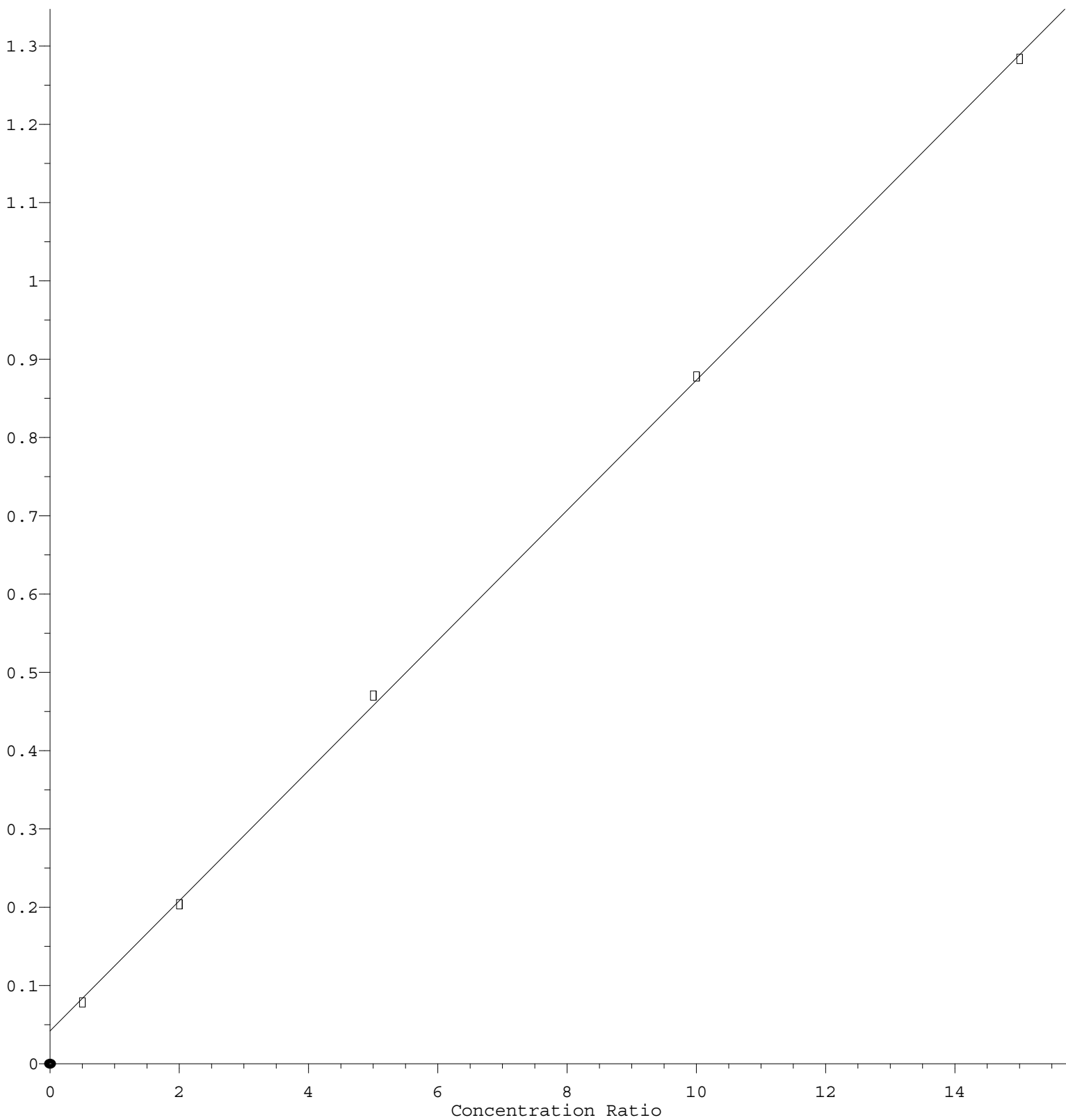
Coef of Det ( $r^2$ ) = 0.999600 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X101922W.M

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# Tert butyl alcohol

Response Ratio



$$\text{Response} = 8.314\text{e-}002 * \text{Amt} + 4.231\text{e-}002$$

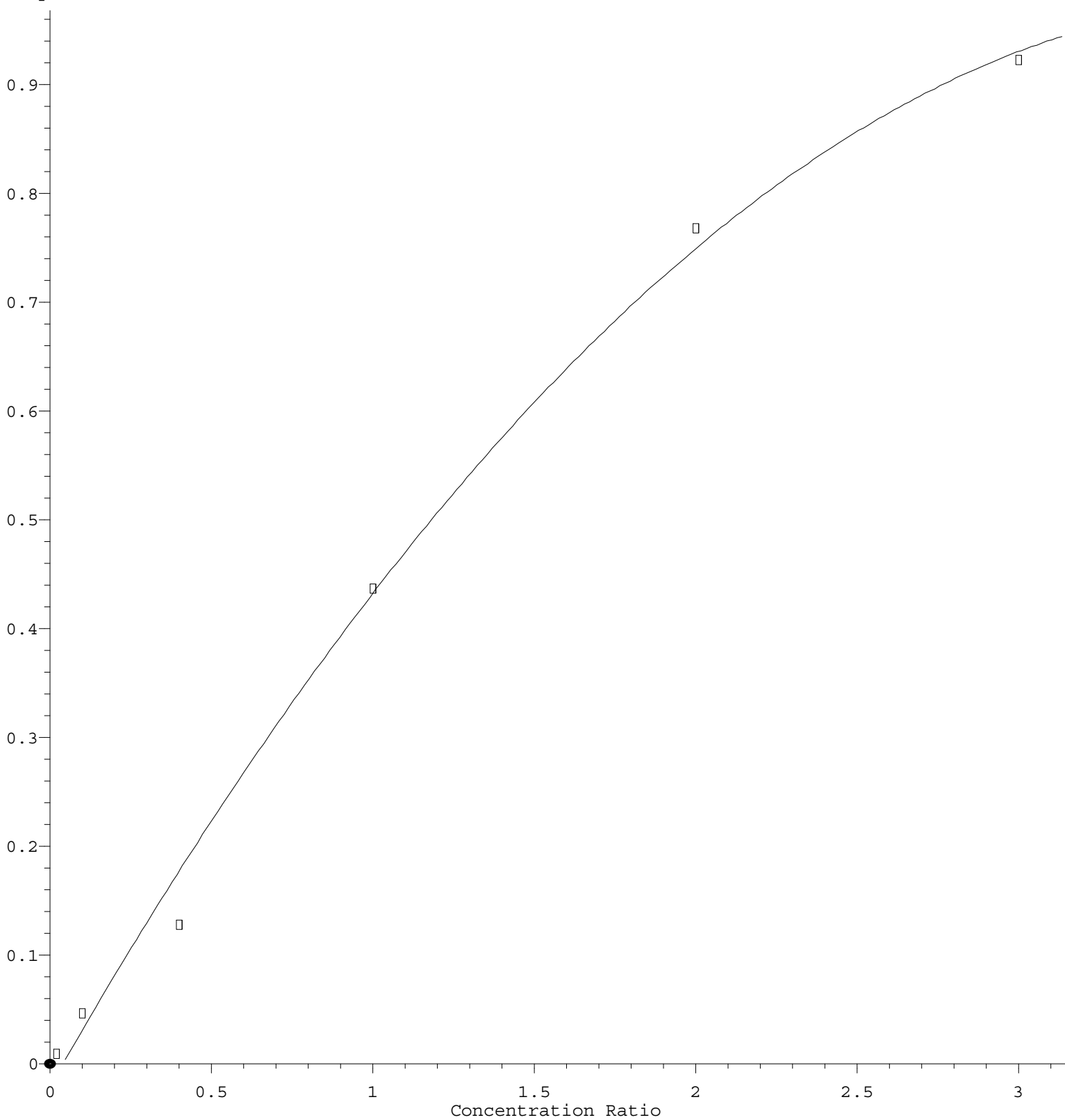
Coef of Det ( $r^2$ ) = 0.999737 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X101922W.M

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# Chloroethane

Response Ratio

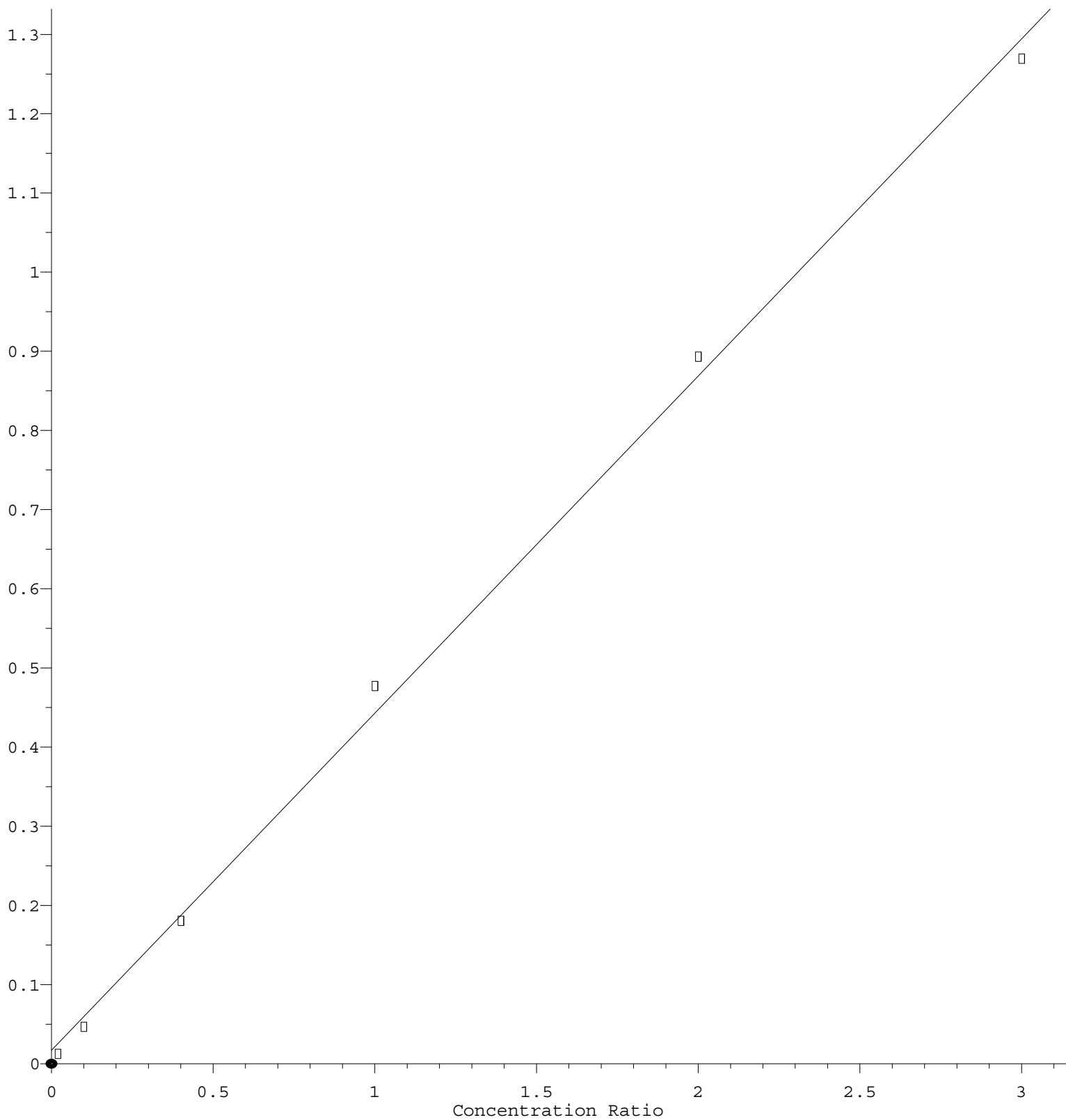


$R = -6.791e-002 A^2 + 5.206e-001 A - 2.023e-002$   
 Coef of Det ( $r^2$ ) = 0.995461    Curve Fit: Quadratic  
 Method Name:    Z:\voasrv\HPCHEM1\MSVOA X\Method\82X101922W.M  
 Calibration Table Last Updated: Wed Oct 19 16:51:09 2022



## Chloromethane

Response Ratio



Response = 4.262e-001 \* Amt + 1.675e-002  
Coef of Det (r^2) = 0.997844 Curve Fit: Linear  
Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X101922W.M  
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