

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\  
 Method File : 82Y102822S.M  
 Title : SW846 8260  
 Last Update : Fri Oct 28 23:42:14 2022  
 Response Via : Initial Calibration

## Calibration Files

5 =VY011146.D 10 =VY011147.D 20 =VY011148.D 50 =VY011149.D 100 =VY011150.D 150 =VY011151.D

|        | Compound            | 5              | 10    | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluo...   | 0.355          | 0.275 | 0.276 | 0.255 | 0.237 | 0.235 | 0.272 | 16.30  |
| 3) P   | Chloromethane       | 0.498          | 0.396 | 0.373 | 0.328 | 0.307 | 0.302 | 0.367 | 20.12  |
| 4) C   | Vinyl Chloride      | 0.576          | 0.454 | 0.432 | 0.398 | 0.375 | 0.366 | 0.434 | 17.85# |
| 5) T   | Bromomethane        | 0.434          | 0.349 | 0.294 | 0.262 | 0.245 | 0.246 | 0.305 | 24.43  |
| 6) T   | Chloroethane        | 0.383          | 0.314 | 0.305 | 0.278 | 0.263 | 0.260 | 0.300 | 15.25  |
| 7) T   | Trichlorofluor...   | 0.873          | 0.736 | 0.718 | 0.661 | 0.630 | 0.623 | 0.707 | 13.22  |
| 8) T   | Diethyl Ether       | 0.278          | 0.268 | 0.247 | 0.235 | 0.246 | 0.254 | 0.255 | 6.20   |
| 9) T   | 1,1,2-Trichlor...   | 0.523          | 0.461 | 0.452 | 0.433 | 0.407 | 0.403 | 0.446 | 9.88   |
| 10) T  | Methyl Iodide       | 0.498          | 0.473 | 0.494 | 0.492 | 0.484 | 0.492 | 0.489 | 1.82   |
| 11) T  | Tert butyl alc...   | 0.072          | 0.069 | 0.059 | 0.039 | 0.050 | 0.050 | 0.057 | 22.66  |
| 12) CM | 1,1-Dichloroet...   | 0.472          | 0.418 | 0.409 | 0.381 | 0.366 | 0.365 | 0.402 | 10.17# |
| 13) T  | Acrolein            | 0.040          | 0.044 | 0.043 | 0.028 | 0.031 | 0.032 | 0.036 | 18.33  |
| 14) T  | Allyl chloride      | 0.641          | 0.650 | 0.628 | 0.613 | 0.602 | 0.608 | 0.624 | 3.09   |
| 15) T  | Acrylonitrile       | 0.149          | 0.146 | 0.141 | 0.126 | 0.139 | 0.142 | 0.140 | 5.54   |
| 16) T  | Acetone             | 0.143          | 0.132 | 0.122 | 0.112 | 0.127 | 0.123 | 0.126 | 8.40   |
| 17) T  | Carbon Disulfide    | 1.475          | 1.129 | 1.086 | 0.888 | 0.844 | 0.833 | 1.043 | 23.62  |
| 18) T  | Methyl Acetate      | 0.645          | 0.414 | 0.393 | 0.293 | 0.320 | 0.333 | 0.400 | 32.16  |
| 19) T  | Methyl tert-bu...   | 1.181          | 1.188 | 1.168 | 1.140 | 1.200 | 1.237 | 1.186 | 2.74   |
| 20) T  | Methylene Chlo...   | 0.967          | 0.820 | 0.663 | 0.523 | 0.491 | 0.473 | 0.656 | 30.65  |
| 21) T  | trans-1,2-Dich...   | 0.547          | 0.488 | 0.466 | 0.433 | 0.417 | 0.413 | 0.461 | 11.16  |
| 22) T  | Diisopropyl ether   | 1.401          | 1.497 | 1.474 | 1.444 | 1.395 | 1.392 | 1.434 | 3.12   |
| 23) T  | Vinyl Acetate       | 0.668          | 0.817 | 0.819 | 0.836 | 0.871 | 0.880 | 0.815 | 9.41   |
| 24) P  | 1,1-Dichloroet...   | 0.991          | 0.936 | 0.895 | 0.857 | 0.819 | 0.818 | 0.886 | 7.72   |
| 25) T  | 2-Butanone          | 0.190          | 0.192 | 0.178 | 0.160 | 0.184 | 0.184 | 0.181 | 6.42   |
| 26) T  | 2,2-Dichloropr...   | 0.894          | 0.830 | 0.785 | 0.764 | 0.742 | 0.735 | 0.792 | 7.68   |
| 27) T  | cis-1,2-Dichlo...   | 0.628          | 0.578 | 0.552 | 0.536 | 0.527 | 0.528 | 0.558 | 7.03   |
| 28) T  | Bromochloromet...   | 0.391          | 0.411 | 0.391 | 0.415 | 0.410 | 0.409 | 0.405 | 2.61   |
| 29) T  | Tetrahydrofuran     | 0.111          | 0.110 | 0.110 | 0.097 | 0.109 | 0.111 | 0.108 | 5.22   |
| 30) C  | Chloroform          | 1.054          | 0.996 | 0.925 | 0.895 | 0.855 | 0.855 | 0.930 | 8.65#  |
| 31) T  | Cyclohexane         | 0.963          | 0.766 | 0.741 | 0.656 | 0.623 | 0.617 | 0.728 | 17.93  |
| 32) T  | 1,1,1-Trichlor...   | 0.892          | 0.813 | 0.794 | 0.772 | 0.739 | 0.738 | 0.791 | 7.29   |
| 33) S  | 1,2-Dichloroet...   | 0.530          | 0.555 | 0.509 | 0.493 | 0.501 | 0.514 | 0.517 | 4.36   |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorom...   | 0.307          | 0.320 | 0.300 | 0.302 | 0.307 | 0.310 | 0.307 | 2.37   |
| 36) T  | 1,1-Dichloropr...   | 0.470          | 0.409 | 0.402 | 0.386 | 0.374 | 0.364 | 0.401 | 9.45   |
| 37) T  | Ethyl Acetate       | 0.233          | 0.237 | 0.224 | 0.203 | 0.232 | 0.232 | 0.227 | 5.49   |
| 38) T  | Carbon Tetrach...   | 0.509          | 0.439 | 0.434 | 0.426 | 0.410 | 0.403 | 0.437 | 8.70   |
| 39) T  | Methylcyclohexane   | 0.506          | 0.421 | 0.456 | 0.436 | 0.435 | 0.429 | 0.447 | 6.91   |
| 40) TM | Benzene             | 1.362          | 1.246 | 1.209 | 1.148 | 1.128 | 1.108 | 1.200 | 7.88   |
| 41) T  | Methacrylonitrile   | 0.122          | 0.115 | 0.120 | 0.095 | 0.127 | 0.132 | 0.119 | 10.83  |
| 42) TM | 1,2-Dichloroet...   | 0.380          | 0.355 | 0.345 | 0.321 | 0.324 | 0.324 | 0.341 | 6.76   |
| 43) T  | Isopropyl Acetate   | 0.402          | 0.404 | 0.402 | 0.371 | 0.418 | 0.429 | 0.404 | 4.84   |
| 44) TM | Trichloroethene     | 0.366          | 0.330 | 0.321 | 0.309 | 0.305 | 0.303 | 0.323 | 7.36   |
| 45) C  | 1,2-Dichloropr...   | 0.346          | 0.322 | 0.315 | 0.306 | 0.304 | 0.302 | 0.316 | 5.30#  |
| 46) T  | Dibromomethane      | 0.201          | 0.182 | 0.176 | 0.164 | 0.167 | 0.169 | 0.177 | 7.64   |
| 47) T  | Bromodichlorom...   | 0.476          | 0.443 | 0.430 | 0.424 | 0.424 | 0.421 | 0.436 | 4.75   |
| 48) T  | Methyl methacr...   | 0.179          | 0.174 | 0.182 | 0.166 | 0.189 | 0.192 | 0.180 | 5.40   |
| 49) T  | 1,4-Dioxane         | 0.003          | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.002 | 5.12   |
| 50) S  | Toluene-d8          | 1.187          | 1.228 | 1.216 | 1.229 | 1.229 | 1.220 | 1.218 | 1.33   |
| 51) T  | 4-Methyl-2-Pen...   | 0.221          | 0.227 | 0.229 | 0.212 | 0.240 | 0.239 | 0.228 | 4.67   |
| 52) CM | Toluene             | 0.816          | 0.769 | 0.760 | 0.739 | 0.717 | 0.706 | 0.751 | 5.32#  |
| 53) T  | t-1,3-Dichloro...   | 0.465          | 0.434 | 0.428 | 0.422 | 0.435 | 0.440 | 0.438 | 3.40   |
| 54) T  | cis-1,3-Dichlo...   | 0.517          | 0.494 | 0.494 | 0.485 | 0.490 | 0.496 | 0.496 | 2.24   |
| 55) T  | 1,1,2-Trichlor...   | 0.290          | 0.274 | 0.262 | 0.245 | 0.254 | 0.252 | 0.263 | 6.35   |
| 56) T  | Ethyl methacry...   | 0.312          | 0.312 | 0.322 | 0.319 | 0.357 | 0.363 | 0.331 | 6.95   |

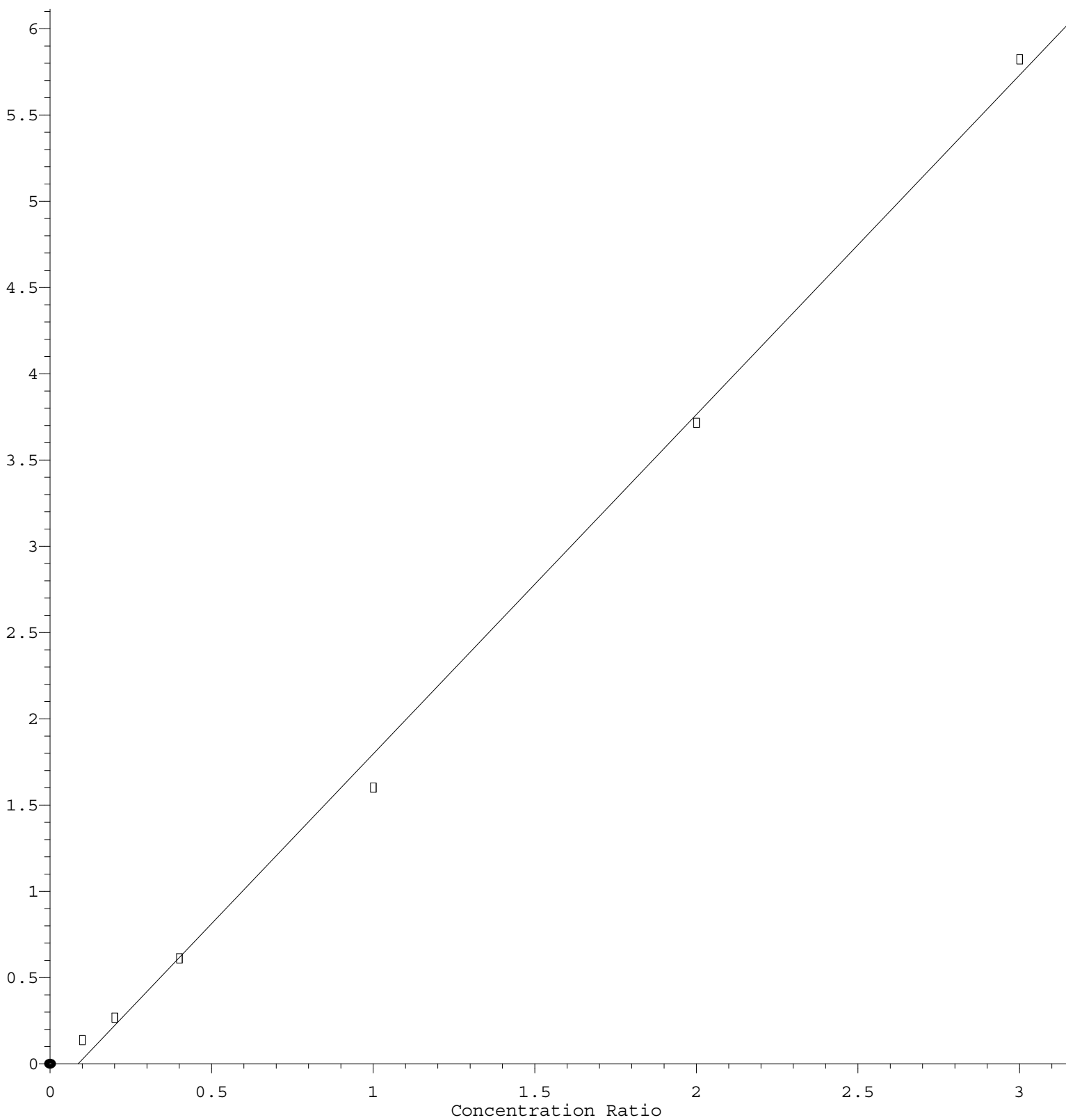
Method Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\  
 Method File : 82Y102822S.M

|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.471          | 0.456 | 0.440 | 0.415 | 0.425 | 0.426 | 0.439 | 4.89  |
| 58) | T  | 2-Chloroethyl ...     | 0.146          | 0.099 | 0.105 | 0.153 | 0.165 | 0.171 | 0.140 | 21.88 |
| 59) | T  | 2-Hexanone            | 0.145          | 0.152 | 0.159 | 0.147 | 0.172 | 0.169 | 0.157 | 7.38  |
| 60) | T  | Dibromochlorom...     | 0.331          | 0.320 | 0.309 | 0.296 | 0.304 | 0.305 | 0.311 | 4.03  |
| 61) | T  | 1,2-Dibromoethane     | 0.257          | 0.248 | 0.240 | 0.222 | 0.231 | 0.233 | 0.239 | 5.26  |
| 62) | S  | 4-Bromofluorob...     | 0.387          | 0.396 | 0.391 | 0.396 | 0.411 | 0.411 | 0.399 | 2.55  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.410          | 0.348 | 0.351 | 0.332 | 0.320 | 0.309 | 0.345 | 10.36 |
| 65) | PM | Chlorobenzene         | 1.024          | 0.931 | 0.926 | 0.901 | 0.877 | 0.866 | 0.921 | 6.16  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.395          | 0.364 | 0.353 | 0.348 | 0.344 | 0.339 | 0.357 | 5.76  |
| 67) | C  | Ethyl Benzene         | 1.687          | 1.591 | 1.608 | 1.614 | 1.593 | 1.558 | 1.608 | 2.68# |
| 68) | T  | m/p-Xylenes           | 0.641          | 0.604 | 0.625 | 0.617 | 0.600 | 0.591 | 0.613 | 2.99  |
| 69) | T  | o-Xylene              | 0.588          | 0.575 | 0.584 | 0.595 | 0.588 | 0.578 | 0.585 | 1.26  |
| 70) | T  | Styrene               | 0.967          | 0.972 | 1.016 | 1.030 | 1.012 | 0.997 | 0.999 | 2.51  |
| 71) | P  | Bromoform             | 0.231          | 0.221 | 0.218 | 0.208 | 0.218 | 0.217 | 0.219 | 3.41  |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.295          | 3.167 | 3.244 | 3.376 | 3.247 | 3.259 | 3.265 | 2.10  |
| 74) | T  | N-amyl acetate        | 0.746          | 0.761 | 0.779 | 0.777 | 0.859 | 0.887 | 0.801 | 7.14  |
| 75) | P  | 1,1,2,2-Tetrac...     | 0.765          | 0.751 | 0.699 | 0.663 | 0.691 | 0.705 | 0.712 | 5.43  |
| 76) | T  | 1,2,3-Trichlor...     | 0.576          | 0.543 | 0.516 | 0.478 | 0.496 | 0.511 | 0.520 | 6.73  |
| 77) | T  | Bromobenzene          | 0.821          | 0.761 | 0.758 | 0.764 | 0.749 | 0.753 | 0.768 | 3.49  |
| 78) | T  | n-propylbenzene       | 4.031          | 3.890 | 4.014 | 4.094 | 3.906 | 3.884 | 3.970 | 2.22  |
| 79) | T  | 2-Chlorotoluene       | 2.362          | 2.286 | 2.273 | 2.284 | 2.203 | 2.217 | 2.271 | 2.51  |
| 80) | T  | 1,3,5-Trimethy...     | 2.769          | 2.731 | 2.801 | 2.820 | 2.693 | 2.689 | 2.751 | 2.01  |
| 81) | T  | trans-1,4-Dich...     | 0.246          | 0.246 | 0.238 | 0.232 | 0.250 | 0.257 | 0.245 | 3.49  |
| 82) | T  | 4-Chlorotoluene       | 2.442          | 2.423 | 2.353 | 2.368 | 2.263 | 2.283 | 2.355 | 3.07  |
| 83) | T  | tert-Butylbenzene     | 2.384          | 2.309 | 2.387 | 2.494 | 2.419 | 2.413 | 2.401 | 2.51  |
| 84) | T  | 1,2,4-Trimethy...     | 2.684          | 2.669 | 2.764 | 2.778 | 2.679 | 2.671 | 2.707 | 1.84  |
| 85) | T  | sec-Butylbenzene      | 3.640          | 3.507 | 3.629 | 3.713 | 3.542 | 3.510 | 3.590 | 2.33  |
| 86) | T  | p-Isopropyltol...     | 2.925          | 2.831 | 2.953 | 3.090 | 2.958 | 2.938 | 2.949 | 2.82  |
| 87) | T  | 1,3-Dichlorobe...     | 1.705          | 1.587 | 1.557 | 1.529 | 1.487 | 1.488 | 1.559 | 5.24  |
| 88) | T  | 1,4-Dichlorobe...     | 1.781          | 1.570 | 1.546 | 1.516 | 1.471 | 1.472 | 1.559 | 7.42  |
| 89) | T  | n-Butylbenzene        | 2.754          | 2.591 | 2.803 | 2.876 | 2.776 | 2.729 | 2.755 | 3.45  |
| 90) | T  | Hexachloroethane      | 0.702          | 0.614 | 0.610 | 0.607 | 0.582 | 0.580 | 0.616 | 7.25  |
| 91) | T  | 1,2-Dichlorobe...     | 1.521          | 1.424 | 1.403 | 1.375 | 1.343 | 1.347 | 1.402 | 4.72  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.123          | 0.113 | 0.114 | 0.103 | 0.115 | 0.119 | 0.115 | 5.90  |
| 93) | T  | 1,2,4-Trichlor...     | 0.785          | 0.729 | 0.778 | 0.813 | 0.851 | 0.858 | 0.802 | 6.05  |
| 94) | T  | Hexachlorobuta...     | 0.542          | 0.454 | 0.486 | 0.489 | 0.470 | 0.468 | 0.485 | 6.33  |
| 95) | T  | Naphthalene           | 1.373          | 1.337 | 1.528 | 1.601 | 1.857 | 1.941 | 1.606 | 15.46 |
| 96) | T  | 1,2,3-Trichlor...     | 0.680          | 0.614 | 0.682 | 0.699 | 0.749 | 0.767 | 0.699 | 7.84  |

(#) = Out of Range

# Naphthalene

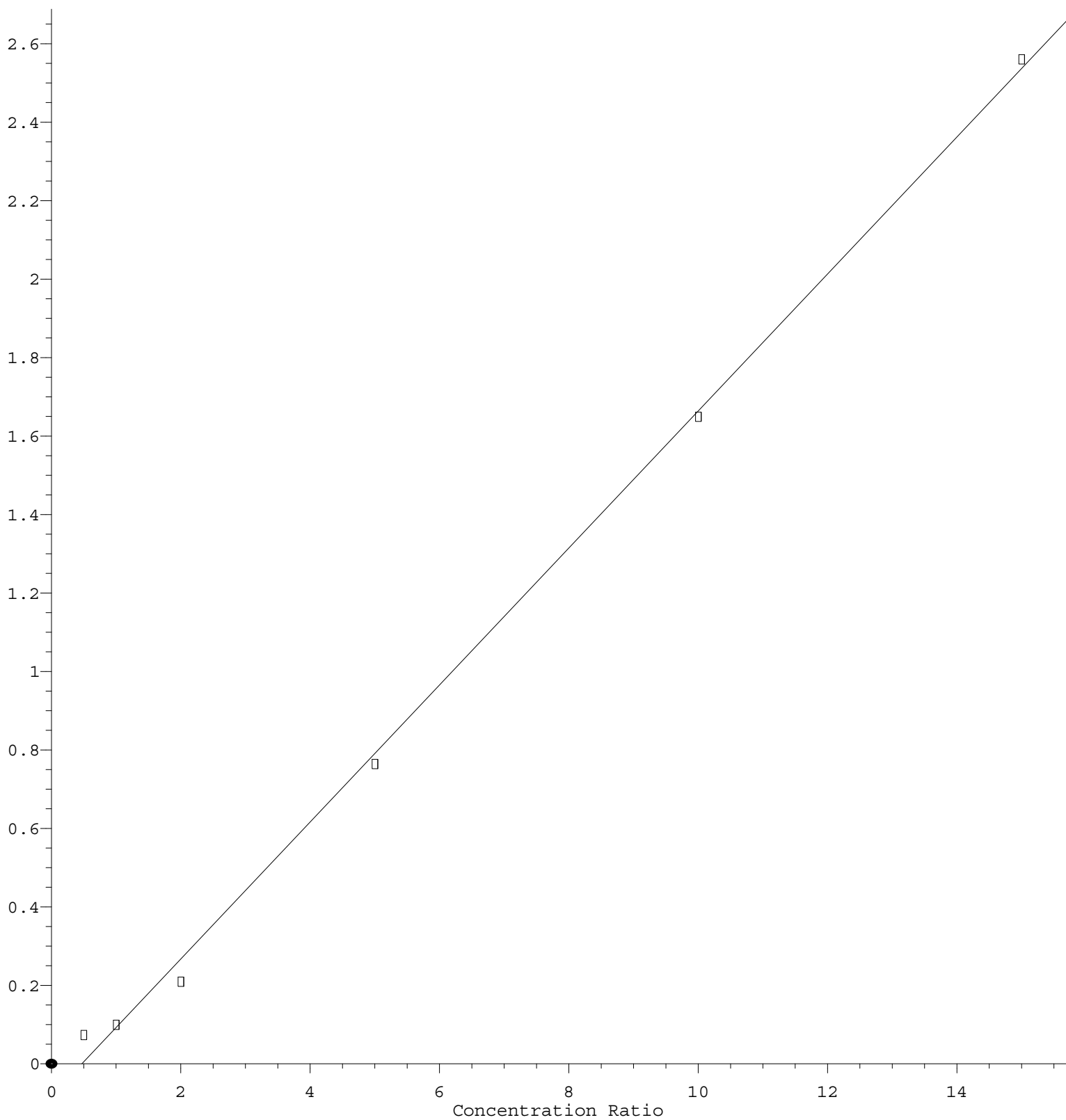
Response Ratio



$\text{Response} = 1.967\text{e}+000 * \text{Amt} - 1.713\text{e}-001$   
 Coef of Det ( $r^2$ ) = 0.997568    Curve Fit: Linear  
 Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y102822S.M  
 Calibration Table Last Updated: Fri Oct 28 23:42:14 2022

## 2-Chloroethyl Vinyl ether

Response Ratio



$$\text{Response} = 1.746\text{e-}001 * \text{Amt} - 8.240\text{e-}002$$

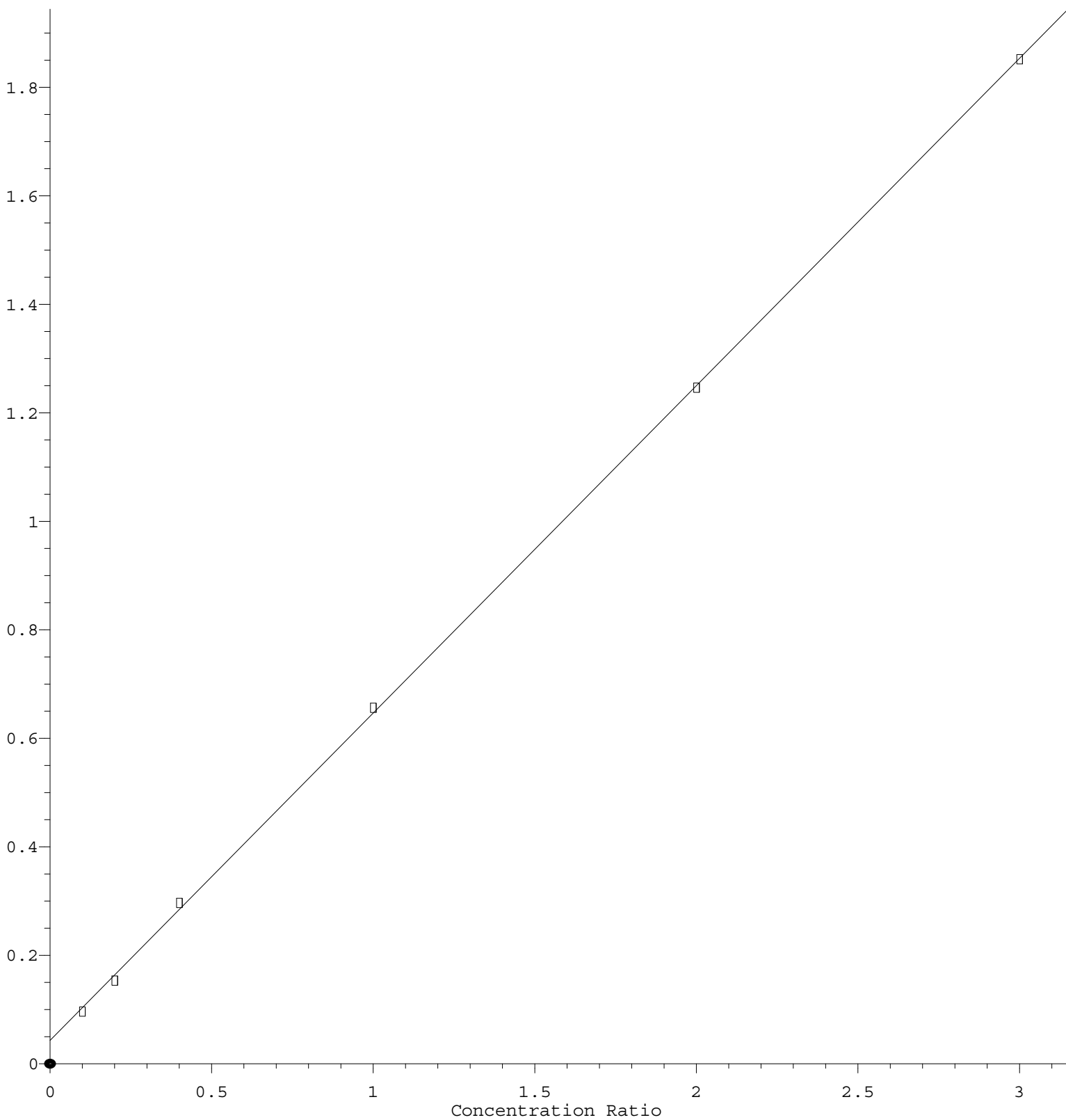
Coef of Det ( $r^2$ ) = 0.998149 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y102822S.M

Calibration Table Last Updated: Fri Oct 28 23:42:14 2022

# Cyclohexane

Response Ratio



$$\text{Response} = 6.035\text{e-}001 * \text{Amt} + 4.274\text{e-}002$$

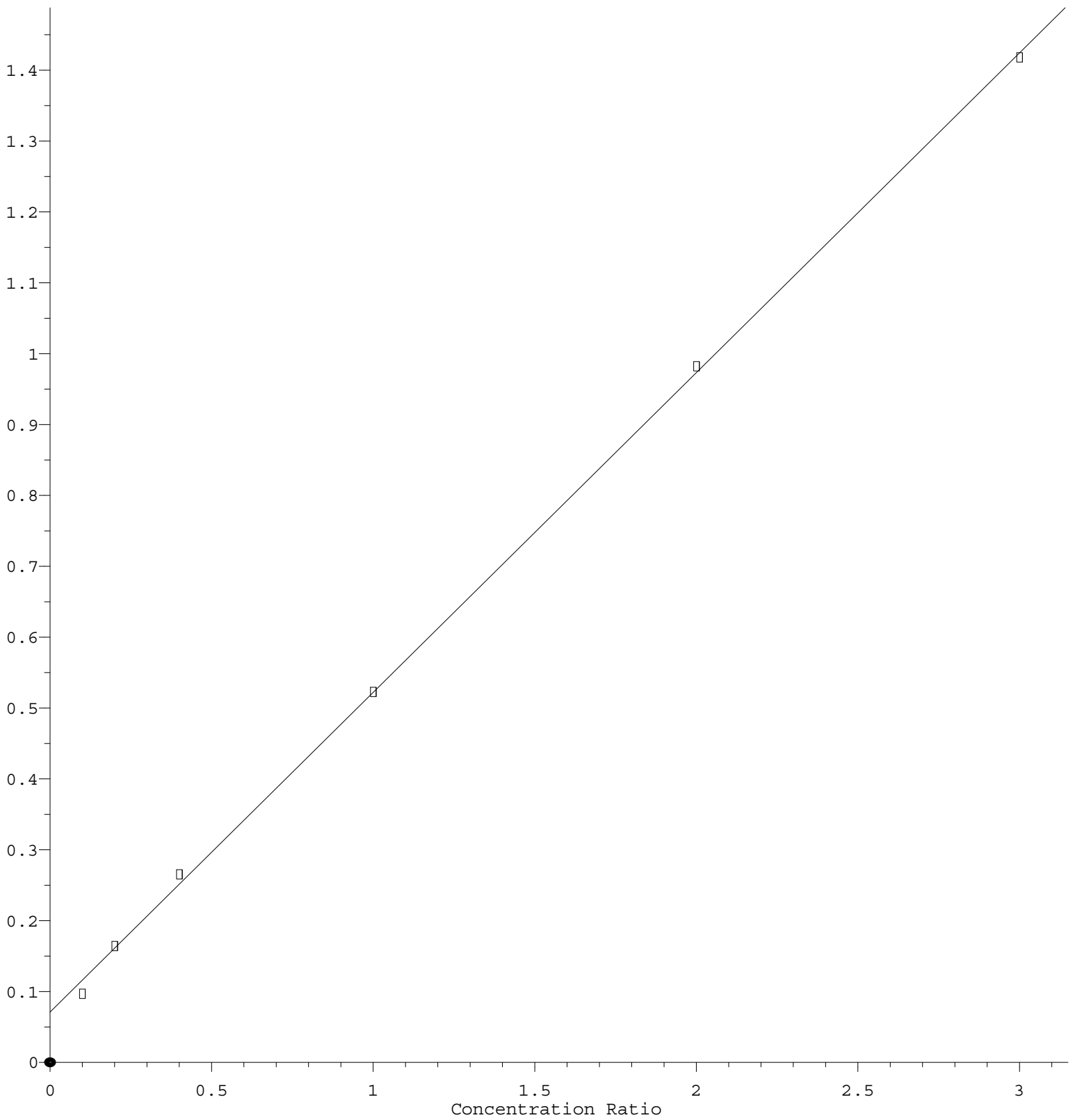
Coef of Det (r^2) = 0.999829 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y102822S.M

Calibration Table Last Updated: Fri Oct 28 23:42:14 2022

# Methylene Chloride

Response Ratio



$$\text{Response} = 4.516\text{e-}001 * \text{Amt} + 7.053\text{e-}002$$

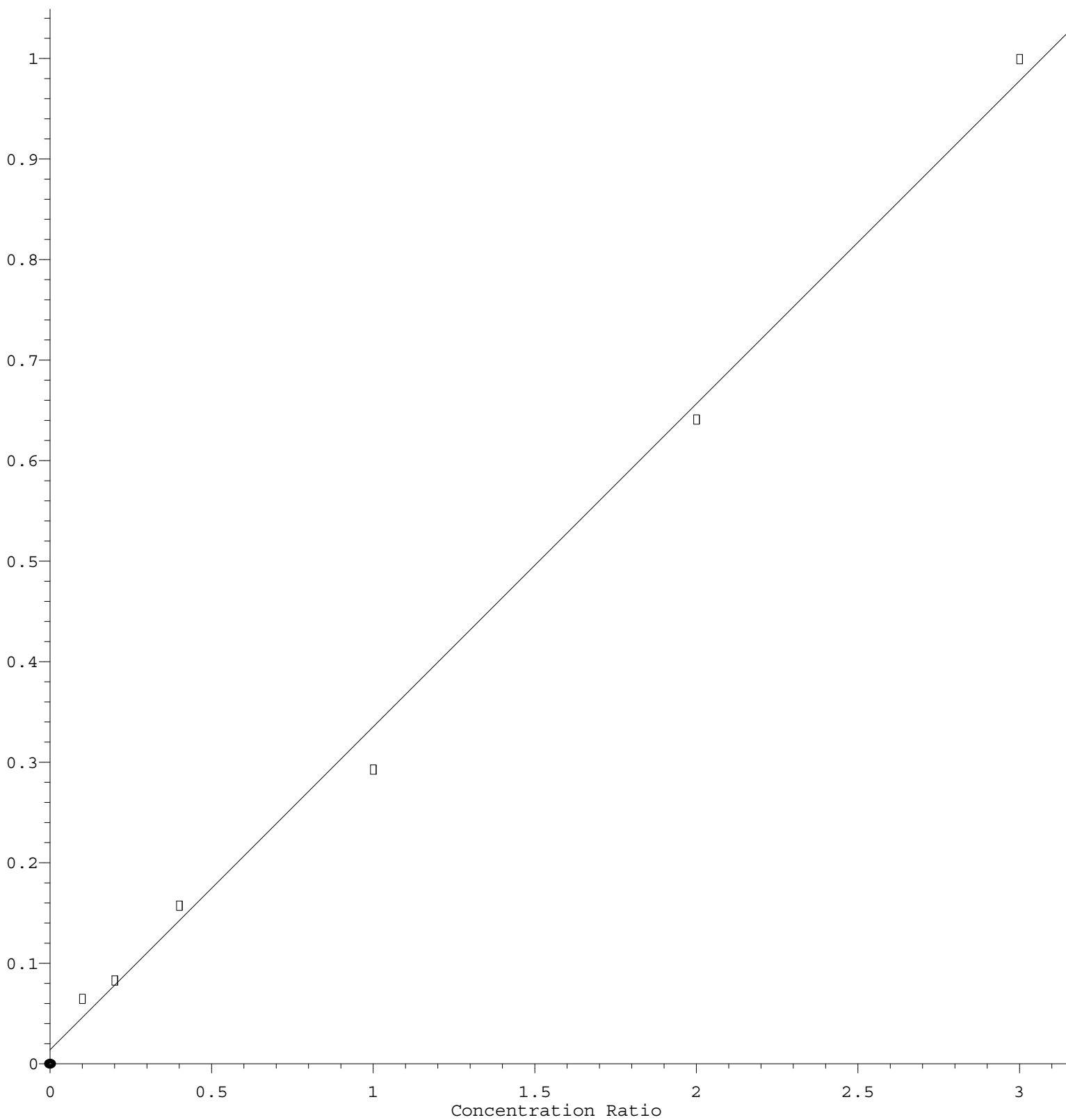
Coef of Det (r^2) = 0.999495 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y102822S.M

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# Methyl Acetate

Response Ratio



$$\text{Response} = 3.210\text{e-}001 * \text{Amt} + 1.443\text{e-}002$$

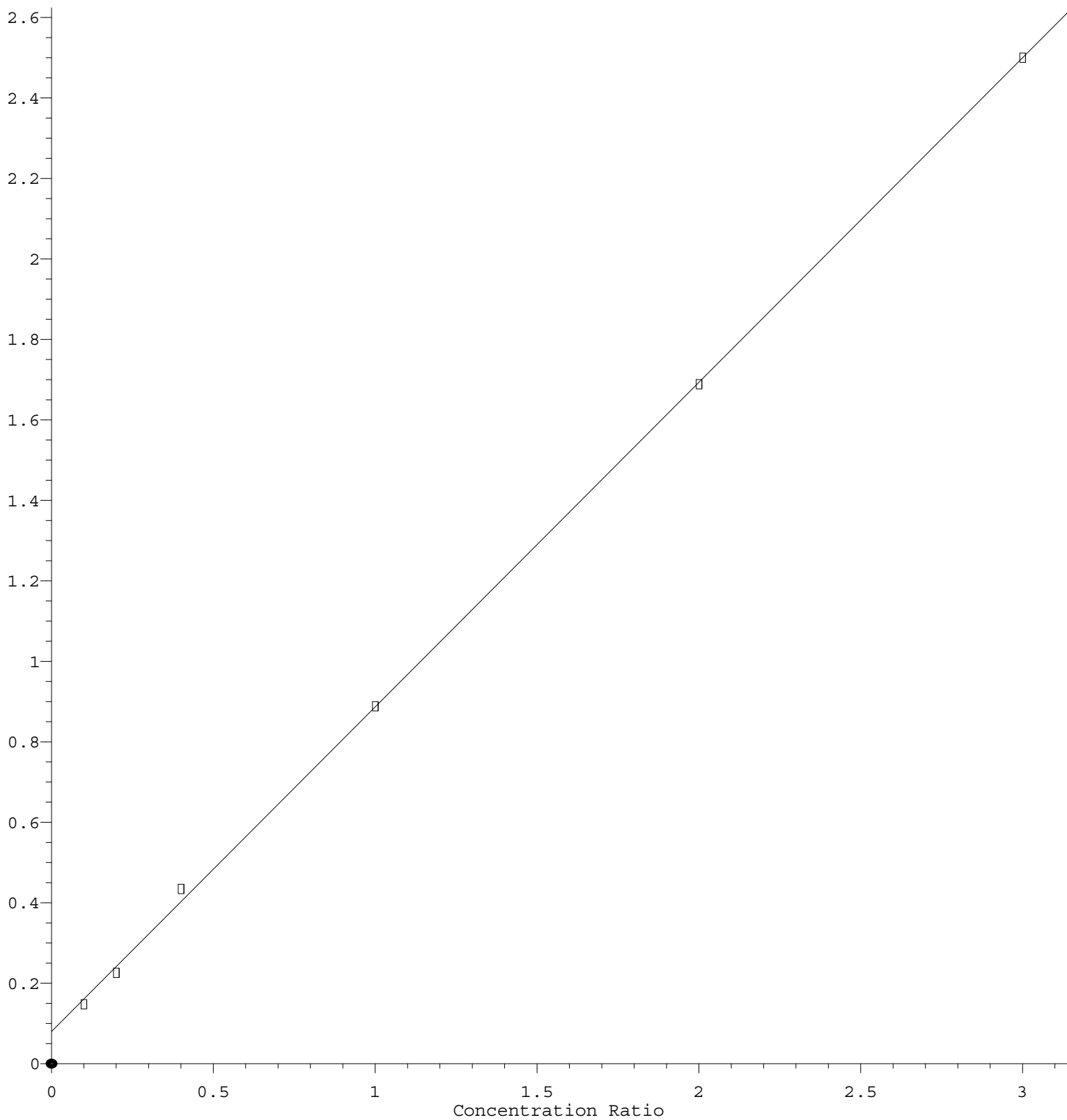
Coef of Det ( $r^2$ ) = 0.995539 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y102822S.M

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## Carbon Disulfide

Response Ratio



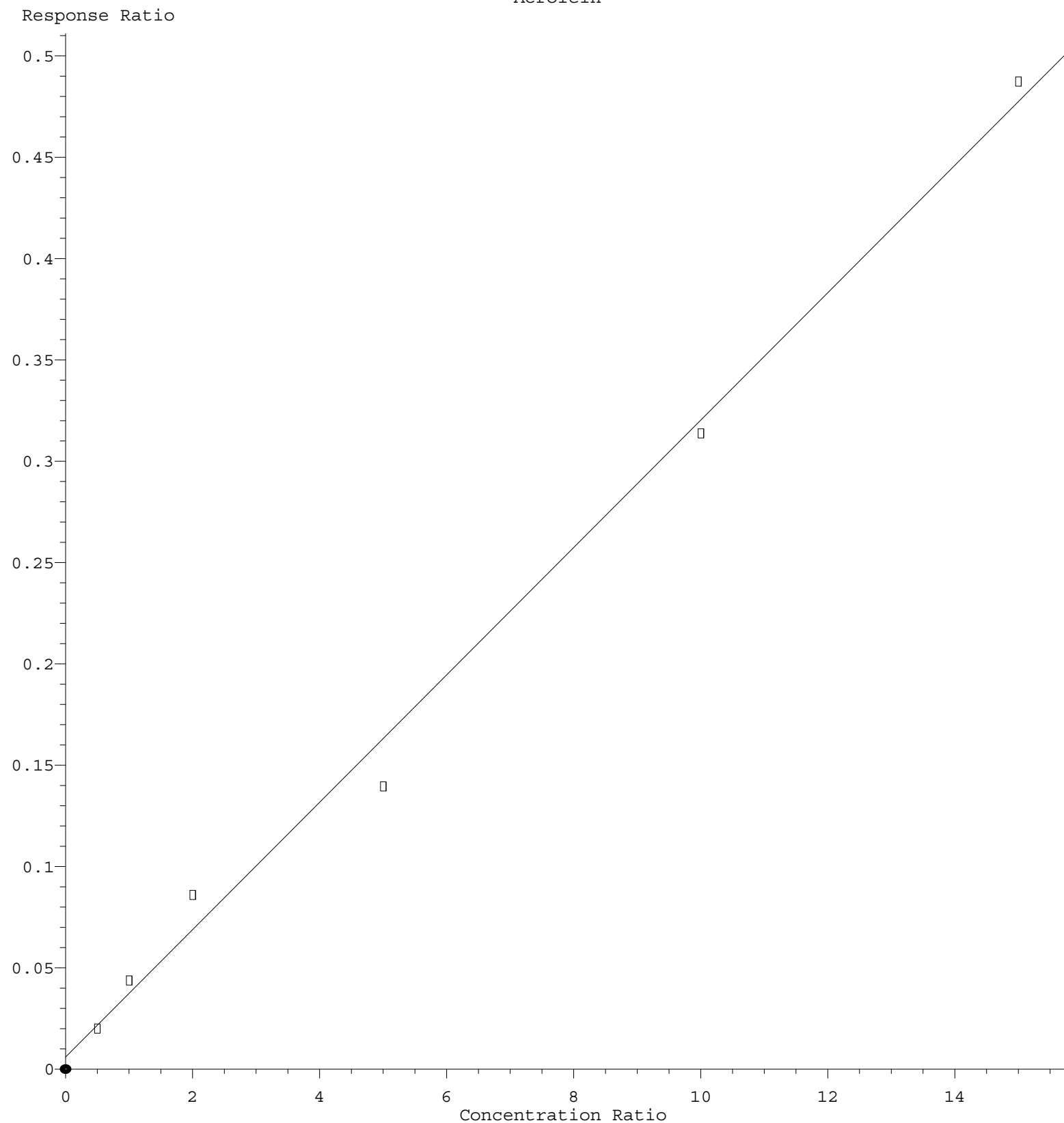
$$\text{Response} = 8.067\text{e-}001 * \text{Amt} + 7.989\text{e-}002$$

Coef of Det ( $r^2$ ) = 0.999670 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y102822S.M

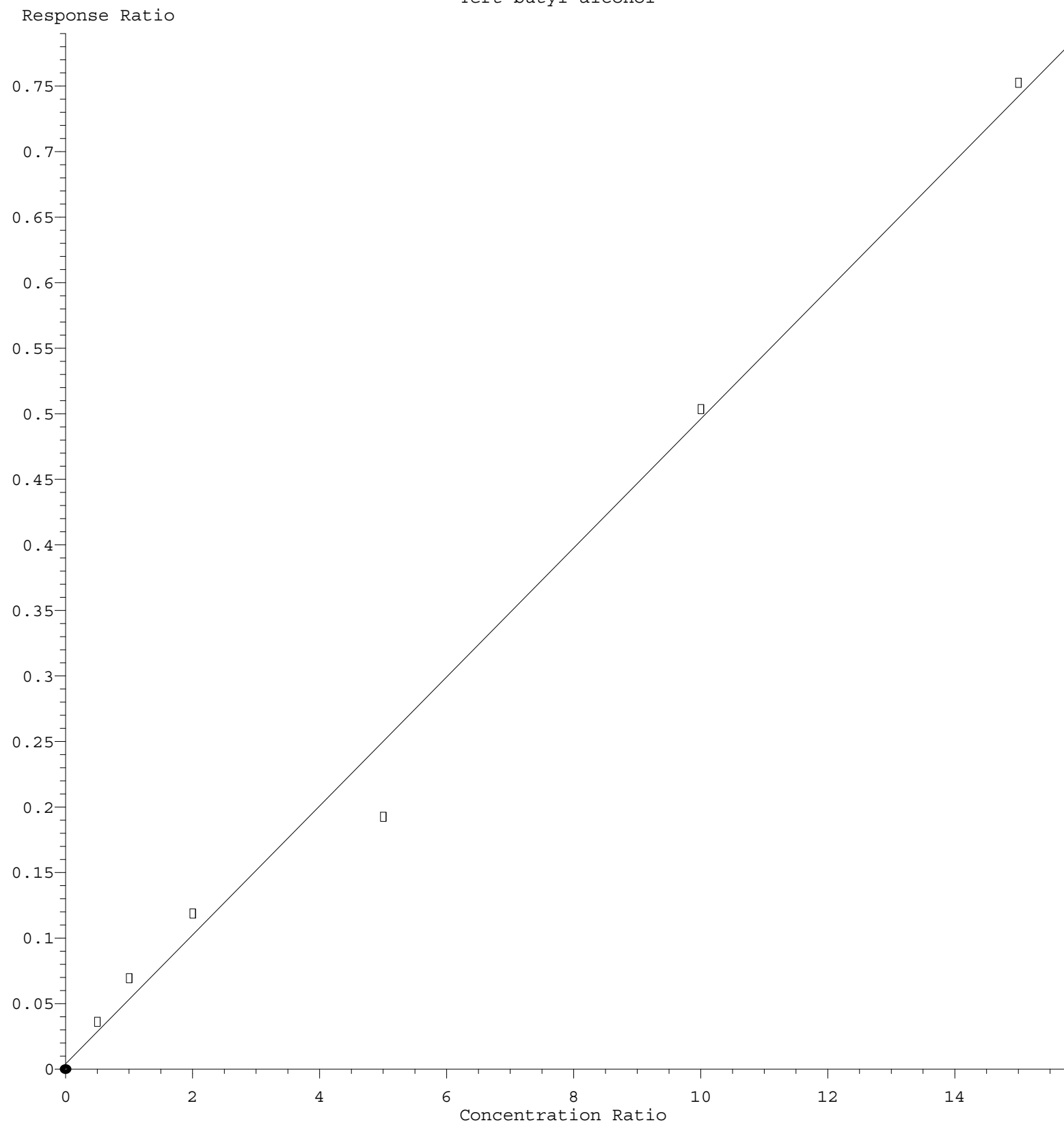
Calibration Table Last Updated: Fri Oct 28 23:42:14 2022

# Acrolein



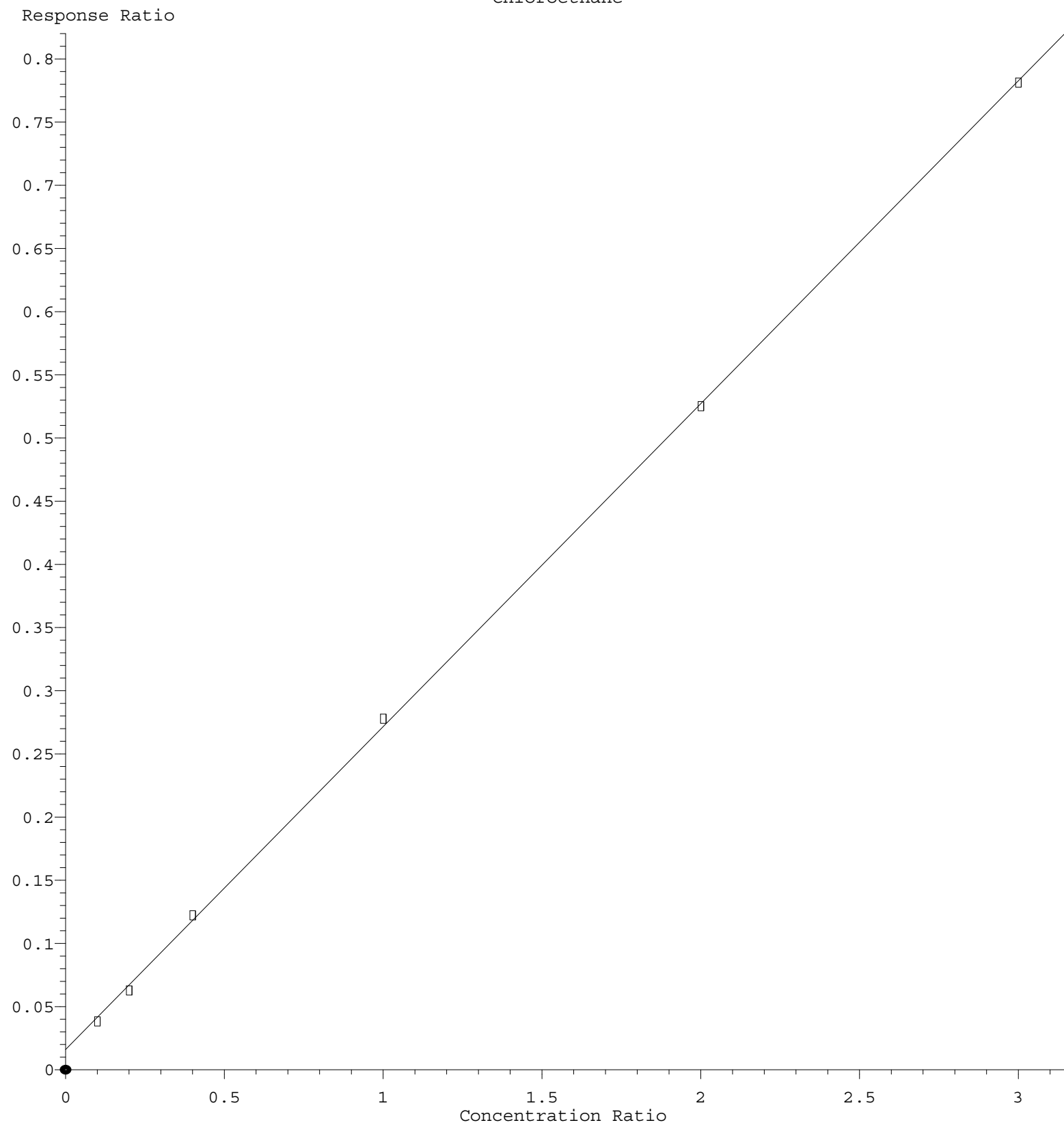
Response =  $3.141\text{e-}002 * \text{Amt} + 6.348\text{e-}003$   
 Coef of Det ( $r^2$ ) = 0.993803    Curve Fit: Linear  
 Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y102822S.M  
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# Tert butyl alcohol



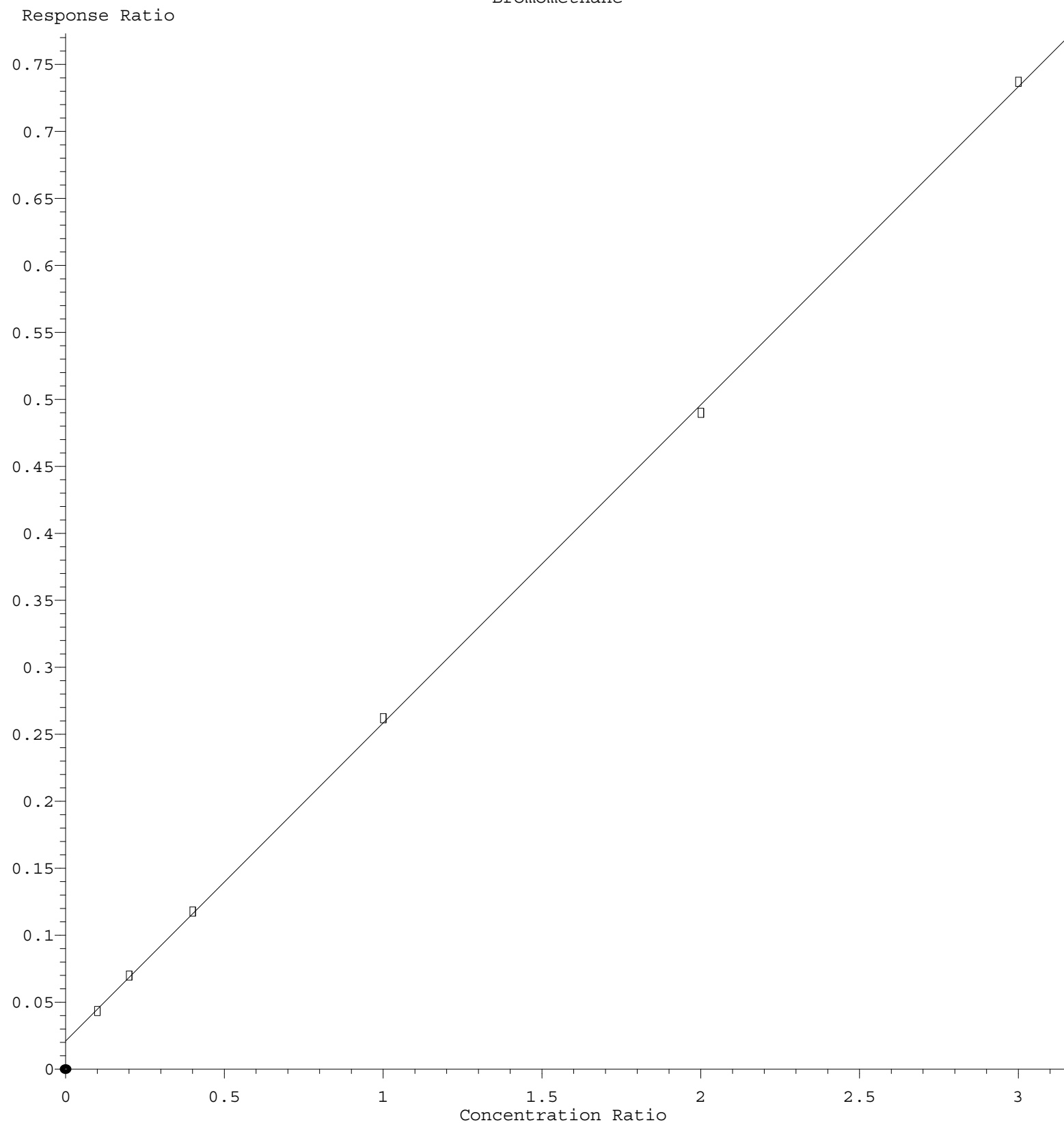
Response =  $4.916 \times 10^{-2} \times \text{Amt} + 4.282 \times 10^{-3}$   
 Coef of Det ( $r^2$ ) = 0.990132    Curve Fit: Linear  
 Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y102822S.M  
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## Chloroethane



Response = 2.555e-001 \* Amt + 1.597e-002  
Coef of Det (r^2) = 0.999794 Curve Fit: Linear  
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y102822S.M  
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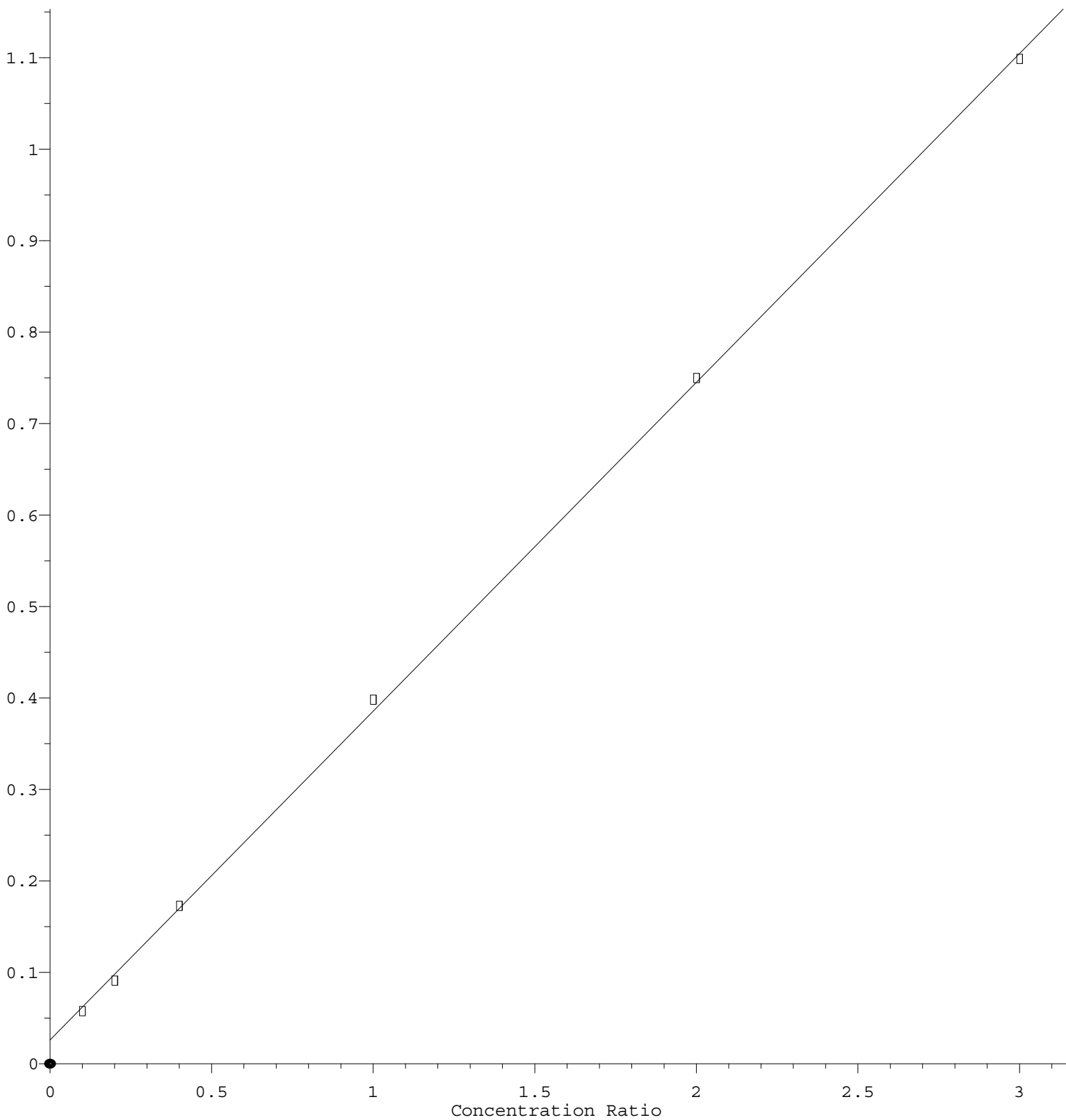
# Bromomethane



Response = 2.375e-001 \* Amt + 2.145e-002  
 Coef of Det (r^2) = 0.999824    Curve Fit: Linear  
 Method Name:    Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y102822S.M  
 Calibration Table Last Updated: Fri Oct 28 23:42:14 2022

# Vinyl Chloride

Response Ratio



$$\text{Response} = 3.596\text{e-}001 * \text{Amt} + 2.642\text{e-}002$$

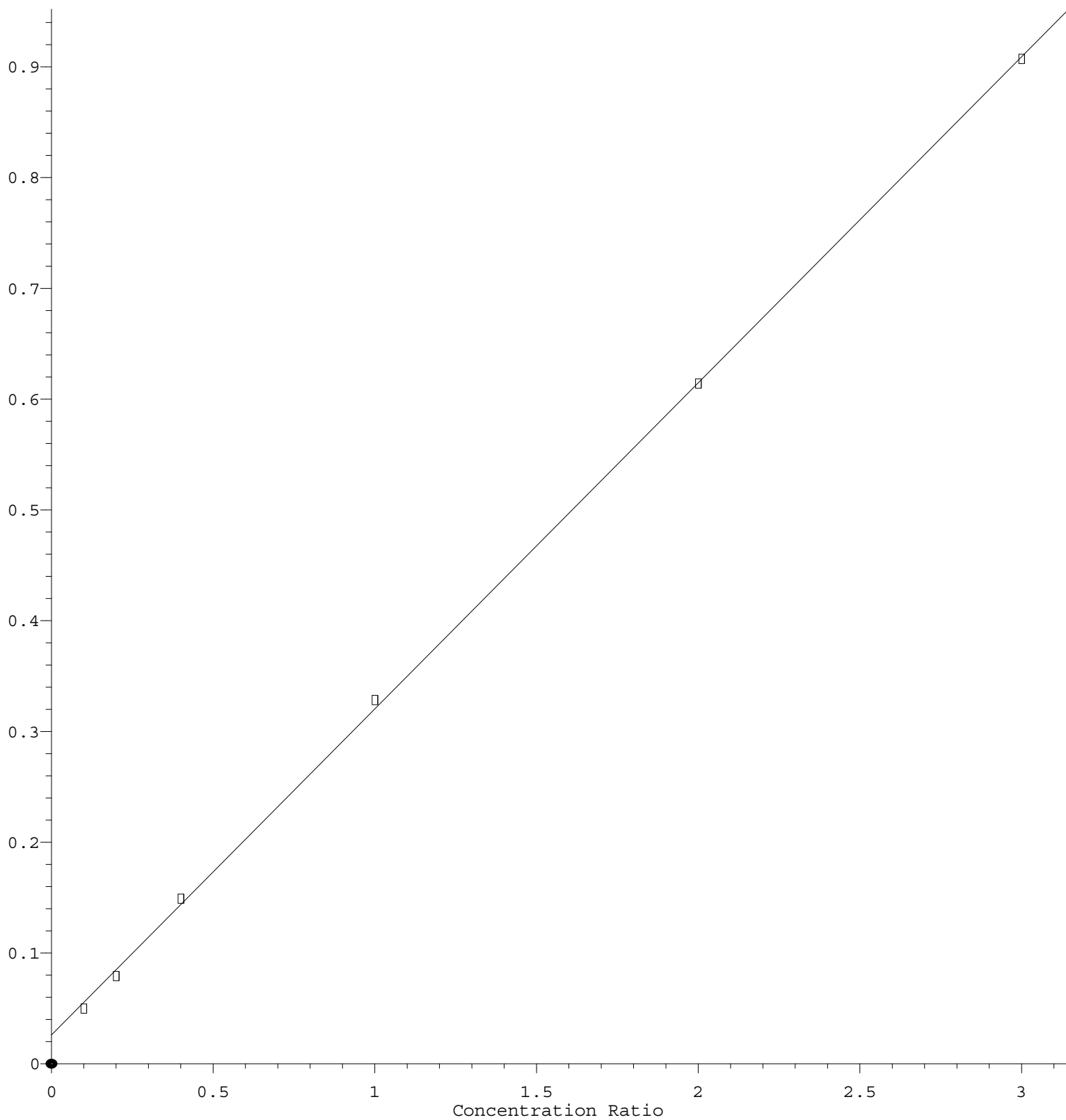
Coef of Det ( $r^2$ ) = 0.999667 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y102822S.M

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## Chloromethane

Response Ratio



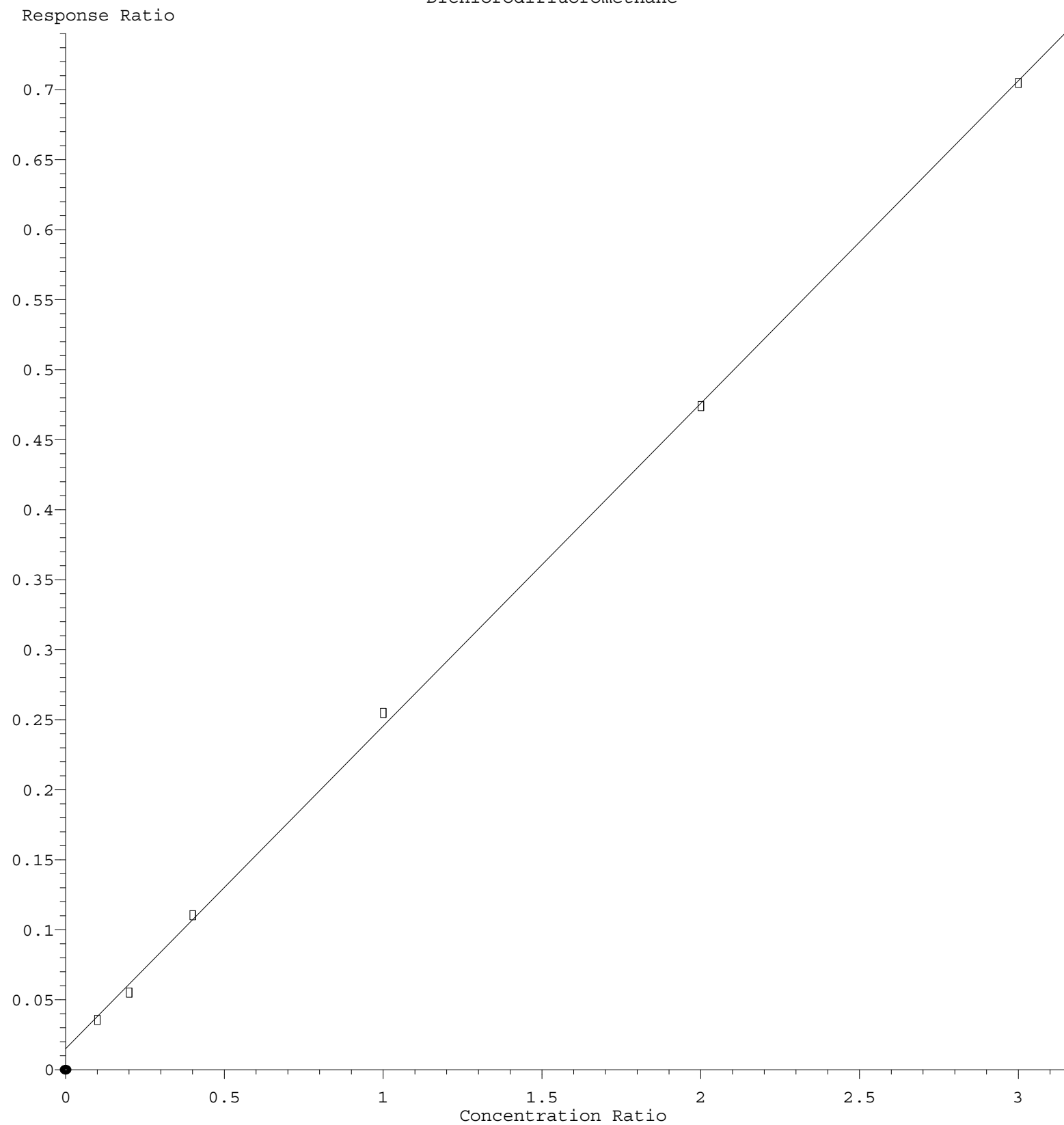
$$\text{Response} = 2.946\text{e-}001 * \text{Amt} + 2.557\text{e-}002$$

Coef of Det ( $r^2$ ) = 0.999728 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y102822S.M

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# Dichlorodifluoromethane



Response = 2.305e-001 \* Amt + 1.507e-002  
 Coef of Det (r^2) = 0.999590    Curve Fit: Linear  
 Method Name:    Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y102822S.M  
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