

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\  
 Method File : 82Y033023S.M  
 Title : SW846 8260  
 Last Update : Mon Apr 03 13:40:57 2023  
 Response Via : Initial Calibration

## Calibration Files

5 =VY013141.D 10 =VY013142.D 20 =VY013143.D 50 =VY013144.D 100 =VY013145.D 150 =VY013146.D

|        | Compound            | 5              | 10    | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 0.477          | 0.544 | 0.522 | 0.480 | 0.461 | 0.458 | 0.490 | 7.08  |
| 3) P   | Chloromethane       | 0.574          | 0.546 | 0.518 | 0.482 | 0.469 | 0.479 | 0.511 | 8.24  |
| 4) C   | Vinyl Chloride      | 0.565          | 0.542 | 0.519 | 0.491 | 0.480 | 0.477 | 0.512 | 7.03# |
| 5) T   | Bromomethane        | 0.444          | 0.396 | 0.349 | 0.339 | 0.321 | 0.321 | 0.362 | 13.50 |
| 6) T   | Chloroethane        | 0.356          | 0.347 | 0.317 | 0.306 | 0.300 | 0.300 | 0.321 | 7.65  |
| 7) T   | Trichlorofluor...   | 0.970          | 0.947 | 0.936 | 0.898 | 0.870 | 0.852 | 0.912 | 5.09  |
| 8) T   | Diethyl Ether       | 0.298          | 0.290 | 0.284 | 0.283 | 0.281 | 0.282 | 0.286 | 2.23  |
| 9) T   | 1,1,2-Trichlor...   | 0.544          | 0.523 | 0.515 | 0.483 | 0.479 | 0.473 | 0.503 | 5.71  |
| 10) T  | Methyl Iodide       | 0.574          | 0.628 | 0.650 | 0.687 | 0.697 | 0.692 | 0.655 | 7.33  |
| 11) T  | Tert butyl alc...   | 0.051          | 0.055 | 0.050 | 0.046 | 0.044 | 0.044 | 0.048 | 9.43  |
| 12) CM | 1,1-Dichloroet...   | 0.511          | 0.486 | 0.493 | 0.478 | 0.471 | 0.476 | 0.486 | 3.00# |
| 13) T  | Acrolein            | 0.069          | 0.072 | 0.067 | 0.067 | 0.067 | 0.066 | 0.068 | 3.45  |
| 14) T  | Allyl chloride      | 0.813          | 0.839 | 0.812 | 0.809 | 0.840 | 0.856 | 0.828 | 2.33  |
| 15) T  | Acrylonitrile       | 0.146          | 0.146 | 0.139 | 0.145 | 0.140 | 0.138 | 0.142 | 2.76  |
| 16) T  | Acetone             | 0.168          | 0.157 | 0.138 | 0.189 | 0.172 | 0.162 | 0.164 | 10.23 |
| 17) T  | Carbon Disulfide    | 1.735          | 1.695 | 1.618 | 1.576 | 1.546 | 1.544 | 1.619 | 4.95  |
| 18) T  | Methyl Acetate      | 0.525          | 0.539 | 0.513 | 0.527 | 0.504 | 0.498 | 0.518 | 3.03  |
| 19) T  | Methyl tert-bu...   | 1.150          | 1.193 | 1.221 | 1.267 | 1.273 | 1.286 | 1.232 | 4.33  |
| 20) T  | Methylene Chlo...   | 1.039          | 0.792 | 0.669 | 0.581 | 0.535 | 0.526 | 0.690 | 28.66 |
| 21) T  | trans-1,2-Dich...   | 0.581          | 0.559 | 0.540 | 0.542 | 0.535 | 0.529 | 0.548 | 3.52  |
| 22) T  | Diisopropyl ether   | 1.559          | 1.638 | 1.654 | 1.665 | 1.594 | 1.599 | 1.618 | 2.53  |
| 23) T  | Vinyl Acetate       | 0.836          | 0.905 | 0.920 | 0.973 | 0.946 | 0.942 | 0.920 | 5.15  |
| 24) P  | 1,1-Dichloroet...   | 1.025          | 1.001 | 0.944 | 0.937 | 0.919 | 0.924 | 0.958 | 4.57  |
| 25) T  | 2-Butanone          | 0.198          | 0.203 | 0.198 | 0.222 | 0.209 | 0.202 | 0.205 | 4.37  |
| 26) T  | 2,2-Dichloropr...   | 0.900          | 0.897 | 0.866 | 0.840 | 0.830 | 0.839 | 0.862 | 3.52  |
| 27) T  | cis-1,2-Dichlo...   | 0.589          | 0.594 | 0.590 | 0.599 | 0.582 | 0.586 | 0.590 | 0.99  |
| 28) T  | Bromochloromet...   | 0.417          | 0.428 | 0.411 | 0.423 | 0.399 | 0.390 | 0.411 | 3.54  |
| 29) T  | Tetrahydrofuran     | 0.114          | 0.122 | 0.122 | 0.130 | 0.122 | 0.120 | 0.122 | 4.19  |
| 30) C  | Chloroform          | 1.096          | 1.034 | 0.983 | 0.962 | 0.938 | 0.943 | 0.992 | 6.20# |
| 31) T  | Cyclohexane         | 0.935          | 0.911 | 0.883 | 0.855 | 0.837 | 0.843 | 0.877 | 4.51  |
| 32) T  | 1,1,1-Trichlor...   | 0.901          | 0.883 | 0.878 | 0.873 | 0.863 | 0.867 | 0.877 | 1.53  |
| 33) S  | 1,2-Dichloroet...   | 0.595          | 0.564 | 0.530 | 0.519 | 0.507 | 0.509 | 0.537 | 6.54  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   | 0.337          | 0.337 | 0.316 | 0.334 | 0.318 | 0.318 | 0.327 | 3.10  |
| 36) T  | 1,1-Dichloropr...   | 0.454          | 0.486 | 0.508 | 0.515 | 0.491 | 0.497 | 0.492 | 4.32  |
| 37) T  | Ethyl Acetate       | 0.274          | 0.268 | 0.280 | 0.300 | 0.278 | 0.275 | 0.279 | 3.94  |
| 38) T  | Carbon Tetrach...   | 0.534          | 0.544 | 0.550 | 0.553 | 0.535 | 0.539 | 0.543 | 1.43  |
| 39) T  | Methylcyclohexane   | 0.508          | 0.534 | 0.579 | 0.622 | 0.603 | 0.615 | 0.577 | 8.07  |
| 40) TM | Benzene             | 1.410          | 1.423 | 1.437 | 1.458 | 1.399 | 1.395 | 1.420 | 1.69  |
| 41) T  | Methacrylonitrile   | 0.139          | 0.112 | 0.115 | 0.130 | 0.123 | 0.125 | 0.124 | 8.12  |
| 42) TM | 1,2-Dichloroet...   | 0.459          | 0.438 | 0.428 | 0.442 | 0.420 | 0.424 | 0.435 | 3.33  |
| 43) T  | Isopropyl Acetate   | 0.455          | 0.484 | 0.488 | 0.541 | 0.513 | 0.519 | 0.500 | 6.09  |
| 44) TM | Trichloroethene     | 0.385          | 0.390 | 0.399 | 0.399 | 0.384 | 0.388 | 0.391 | 1.66  |
| 45) C  | 1,2-Dichloropr...   | 0.366          | 0.364 | 0.350 | 0.362 | 0.344 | 0.347 | 0.356 | 2.67# |
| 46) T  | Dibromomethane      | 0.208          | 0.207 | 0.206 | 0.210 | 0.198 | 0.197 | 0.204 | 2.72  |
| 47) T  | Bromodichlorom...   | 0.495          | 0.497 | 0.493 | 0.503 | 0.482 | 0.487 | 0.493 | 1.49  |
| 48) T  | Methyl methacr...   | 0.200          | 0.215 | 0.235 | 0.257 | 0.238 | 0.251 | 0.233 | 9.29  |
| 49) T  | 1,4-Dioxane         | 0.002          | 0.002 | 0.002 | 0.003 | 0.003 | 0.002 | 0.002 | 8.96  |
| 50) S  | Toluene-d8          | 1.224          | 1.265 | 1.223 | 1.275 | 1.202 | 1.209 | 1.233 | 2.43  |
| 51) T  | 4-Methyl-2-Pen...   | 0.239          | 0.270 | 0.272 | 0.296 | 0.274 | 0.268 | 0.270 | 6.78  |
| 52) CM | Toluene             | 0.845          | 0.864 | 0.896 | 0.919 | 0.883 | 0.880 | 0.881 | 2.91# |
| 53) T  | t-1,3-Dichloro...   | 0.476          | 0.489 | 0.500 | 0.529 | 0.511 | 0.519 | 0.504 | 3.91  |
| 54) T  | cis-1,3-Dichlo...   | 0.550          | 0.567 | 0.580 | 0.597 | 0.577 | 0.582 | 0.575 | 2.73  |
| 55) T  | 1,1,2-Trichlor...   | 0.281          | 0.291 | 0.290 | 0.290 | 0.273 | 0.269 | 0.282 | 3.39  |
| 56) T  | Ethyl methacry...   | 0.301          | 0.323 | 0.352 | 0.391 | 0.379 | 0.385 | 0.355 | 10.31 |

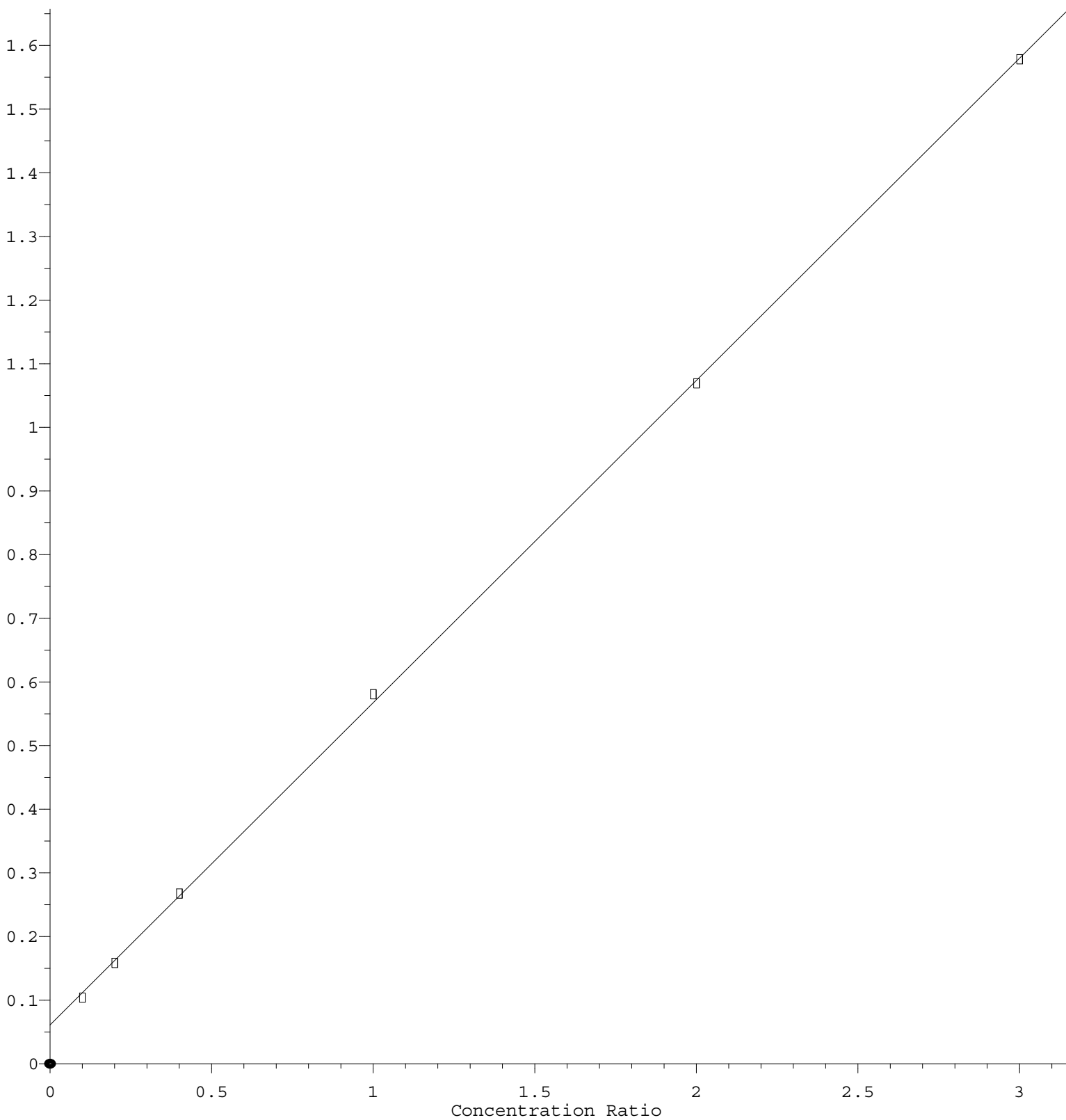
Method Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\  
 Method File : 82Y033023S.M

|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.468          | 0.480 | 0.482 | 0.497 | 0.468 | 0.465 | 0.477 | 2.57  |
| 58) | T  | 2-Chloroethyl ...     | 0.143          | 0.166 | 0.176 | 0.174 | 0.170 | 0.166 | 0.166 | 7.13  |
| 59) | T  | 2-Hexanone            | 0.165          | 0.180 | 0.197 | 0.224 | 0.206 | 0.199 | 0.195 | 10.44 |
| 60) | T  | Dibromochlorom...     | 0.354          | 0.357 | 0.353 | 0.368 | 0.348 | 0.348 | 0.355 | 2.06  |
| 61) | T  | 1,2-Dibromoethane     | 0.279          | 0.274 | 0.278 | 0.278 | 0.267 | 0.266 | 0.274 | 2.14  |
| 62) | S  | 4-Bromofluorob...     | 0.407          | 0.399 | 0.396 | 0.416 | 0.393 | 0.397 | 0.401 | 2.06  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.388          | 0.378 | 0.392 | 0.390 | 0.378 | 0.379 | 0.384 | 1.71  |
| 65) | PM | Chlorobenzene         | 1.092          | 1.072 | 1.050 | 1.064 | 1.048 | 1.042 | 1.061 | 1.74  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.404          | 0.400 | 0.399 | 0.400 | 0.394 | 0.391 | 0.398 | 1.21  |
| 67) | C  | Ethyl Benzene         | 1.696          | 1.765 | 1.841 | 1.916 | 1.902 | 1.880 | 1.833 | 4.71# |
| 68) | T  | m/p-Xylenes           | 0.625          | 0.692 | 0.721 | 0.753 | 0.736 | 0.728 | 0.709 | 6.49  |
| 69) | T  | o-Xylene              | 0.573          | 0.627 | 0.671 | 0.694 | 0.695 | 0.687 | 0.658 | 7.41  |
| 70) | T  | Styrene               | 0.965          | 1.052 | 1.116 | 1.169 | 1.156 | 1.145 | 1.100 | 7.12  |
| 71) | P  | Bromoform             | 0.235          | 0.244 | 0.248 | 0.258 | 0.249 | 0.246 | 0.247 | 3.13  |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 2.961          | 3.276 | 3.436 | 3.675 | 3.639 | 3.722 | 3.451 | 8.50  |
| 74) | T  | N-amyl acetate        | 0.787          | 0.868 | 0.923 | 1.035 | 1.025 | 1.048 | 0.948 | 11.21 |
| 75) | P  | 1,1,2,2-Tetrac...     | 0.706          | 0.742 | 0.730 | 0.760 | 0.697 | 0.702 | 0.723 | 3.49  |
| 76) | T  | 1,2,3-Trichlor...     | 0.493          | 0.589 | 0.570 | 0.600 | 0.560 | 0.558 | 0.562 | 6.64  |
| 77) | T  | Bromobenzene          | 0.790          | 0.857 | 0.852 | 0.893 | 0.871 | 0.886 | 0.858 | 4.30  |
| 78) | T  | n-propylbenzene       | 3.666          | 4.114 | 4.260 | 4.507 | 4.440 | 4.475 | 4.244 | 7.54  |
| 79) | T  | 2-Chlorotoluene       | 2.236          | 2.369 | 2.399 | 2.487 | 2.453 | 2.506 | 2.408 | 4.11  |
| 80) | T  | 1,3,5-Trimethy...     | 2.457          | 2.799 | 2.939 | 3.071 | 3.013 | 3.034 | 2.886 | 8.00  |
| 81) | T  | trans-1,4-Dich...     | 0.222          | 0.246 | 0.244 | 0.274 | 0.263 | 0.263 | 0.252 | 7.30  |
| 82) | T  | 4-Chlorotoluene       | 2.241          | 2.493 | 2.544 | 2.606 | 2.563 | 2.591 | 2.506 | 5.43  |
| 83) | T  | tert-Butylbenzene     | 2.075          | 2.332 | 2.508 | 2.672 | 2.623 | 2.661 | 2.478 | 9.49  |
| 84) | T  | 1,2,4-Trimethy...     | 2.358          | 2.719 | 2.897 | 3.029 | 2.953 | 3.000 | 2.826 | 9.00  |
| 85) | T  | sec-Butylbenzene      | 3.238          | 3.584 | 3.797 | 4.003 | 3.905 | 3.927 | 3.742 | 7.66  |
| 86) | T  | p-Isopropyltol...     | 2.577          | 2.967 | 3.123 | 3.295 | 3.243 | 3.280 | 3.081 | 8.96  |
| 87) | T  | 1,3-Dichlorobe...     | 1.684          | 1.719 | 1.711 | 1.730 | 1.678 | 1.684 | 1.701 | 1.28  |
| 88) | T  | 1,4-Dichlorobe...     | 1.748          | 1.720 | 1.680 | 1.717 | 1.680 | 1.681 | 1.705 | 1.67  |
| 89) | T  | n-Butylbenzene        | 2.483          | 2.682 | 2.927 | 3.072 | 3.035 | 3.081 | 2.880 | 8.51  |
| 90) | T  | Hexachloroethane      | 0.622          | 0.643 | 0.649 | 0.647 | 0.638 | 0.652 | 0.642 | 1.70  |
| 91) | T  | 1,2-Dichlorobe...     | 1.518          | 1.520 | 1.521 | 1.553 | 1.492 | 1.512 | 1.519 | 1.30  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.113          | 0.122 | 0.127 | 0.124 | 0.116 | 0.119 | 0.120 | 4.18  |
| 93) | T  | 1,2,4-Trichlor...     | 0.765          | 0.771 | 0.902 | 0.951 | 0.945 | 0.981 | 0.886 | 10.66 |
| 94) | T  | Hexachlorobuta...     | 0.523          | 0.516 | 0.554 | 0.573 | 0.550 | 0.555 | 0.545 | 3.94  |
| 95) | T  | Naphthalene           | 1.259          | 1.332 | 1.569 | 1.894 | 1.910 | 1.976 | 1.657 | 18.98 |
| 96) | T  | 1,2,3-Trichlor...     | 0.697          | 0.677 | 0.769 | 0.853 | 0.830 | 0.858 | 0.781 | 10.17 |

(#) = Out of Range

# Methylene Chloride

Response Ratio



$$\text{Response} = 5.063\text{e-}001 * \text{Amt} + 6.093\text{e-}002$$

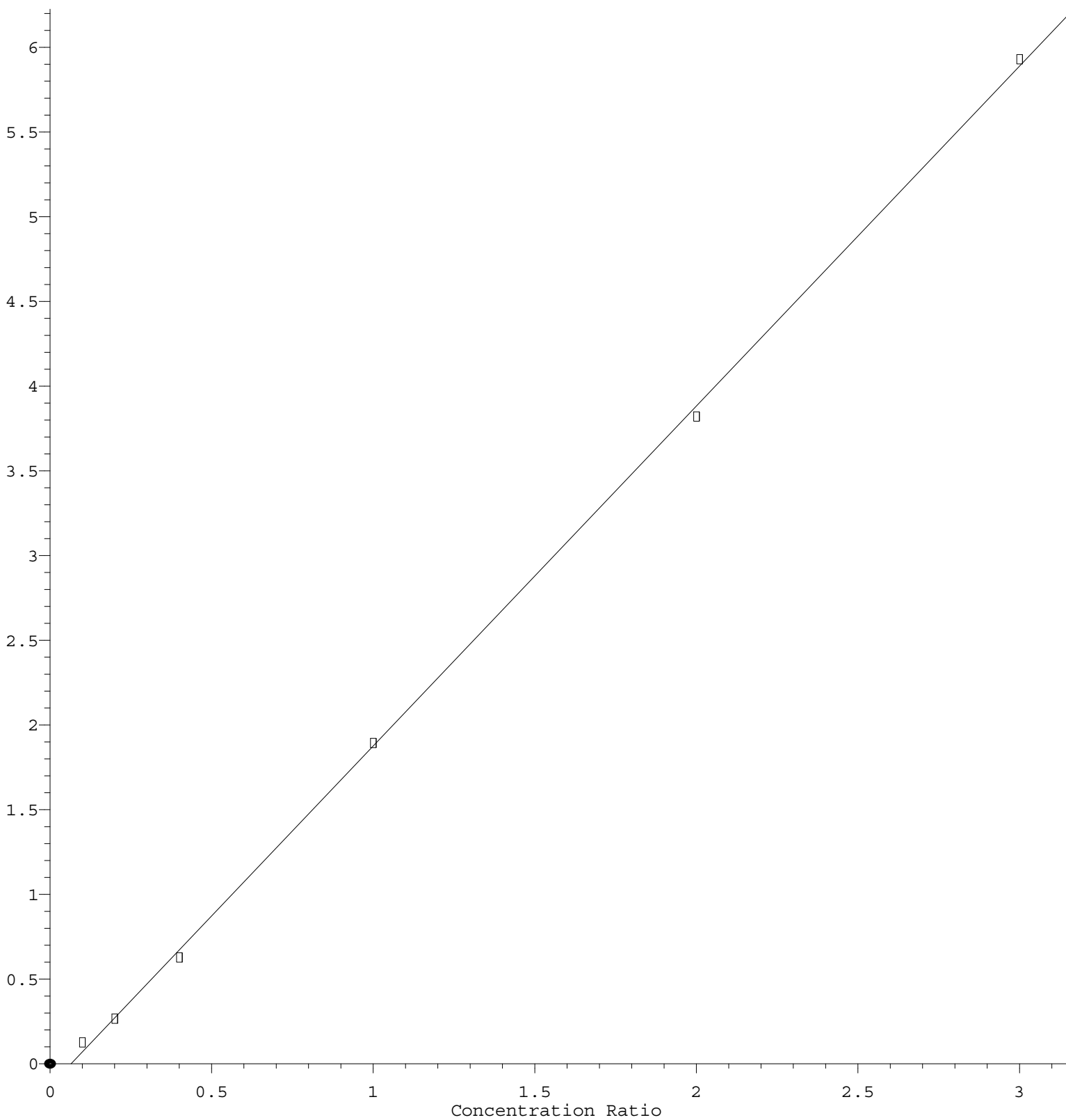
Coef of Det ( $r^2$ ) = 0.999832 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y033023S.M

Calibration Table Last Updated: Mon Apr 03 13:40:57 2023

# Naphthalene

Response Ratio



$$\text{Response} = 2.006\text{e}+000 * \text{Amt} - 1.297\text{e}-001$$

Coef of Det (r^2) = 0.999598 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y033023S.M

Calibration Table Last Updated: Mon Apr 03 13:40:57 2023