

Method Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\  
 Method File : SOMULM082219WMA.M  
 Title : VOC Analysis  
 Last Update : Fri Aug 23 02:11:46 2019  
 Response Via : Initial Calibration

## Calibration Files

5 =VU033905.D 10 =VU033900.D 50 =VU033901.D  
 100 =VU033902.D 200 =VU033903.D

|       | Compound             | 5              | 10    | 50    | 100   | 200   | Avg   | %RSD  |
|-------|----------------------|----------------|-------|-------|-------|-------|-------|-------|
| ----- |                      |                |       |       |       |       |       |       |
| 1) I  | 1,4-Difluorobenzene  | -----ISTD----- |       |       |       |       |       |       |
| 2) T  | Dichlorodifluoromet  | 0.490          | 0.492 | 0.458 | 0.449 | 0.425 | 0.463 | 6.14  |
| 3) T  | Chloromethane        | 0.451          | 0.462 | 0.450 | 0.443 | 0.418 | 0.445 | 3.72  |
| 4) S  | Vinyl Chloride-d3    | 0.427          | 0.457 | 0.444 | 0.443 | 0.422 | 0.438 | 3.27  |
| 5) T  | Vinyl chloride       | 0.570          | 0.546 | 0.509 | 0.507 | 0.480 | 0.522 | 6.81  |
| 6) T  | Bromomethane         | 0.227          | 0.199 | 0.196 | 0.200 | 0.190 | 0.202 | 6.94  |
| 7) S  | Chloroethane-d5      | 0.333          | 0.375 | 0.362 | 0.347 | 0.321 | 0.348 | 6.26  |
| 8) T  | Chloroethane         | 0.334          | 0.345 | 0.308 | 0.302 | 0.277 | 0.313 | 8.66  |
| 9) T  | Trichlorofluorometh  | 0.658          | 0.657 | 0.611 | 0.584 | 0.554 | 0.613 | 7.46  |
| 10) T | 1,1,2-Trichloro-1,2  | 0.381          | 0.374 | 0.349 | 0.334 | 0.314 | 0.350 | 7.96  |
| 11) S | 1,1-Dichloroethene-  | 0.795          | 0.823 | 0.794 | 0.786 | 0.756 | 0.791 | 3.05  |
| 12) T | 1,1-Dichloroethene   | 0.356          | 0.365 | 0.332 | 0.325 | 0.309 | 0.337 | 6.74  |
| 13) T | Acetone              | 0.273          | 0.306 | 0.275 | 0.260 | 0.234 | 0.269 | 9.64  |
| 14) T | Carbon disulfide     | 1.246          | 1.127 | 1.043 | 1.031 | 0.975 | 1.085 | 9.73  |
| 15) T | Methyl Acetate       | 0.483          | 0.482 | 0.463 | 0.471 | 0.447 | 0.469 | 3.17  |
| 16) T | Methylene chloride   | 0.443          | 0.433 | 0.399 | 0.387 | 0.369 | 0.406 | 7.72  |
| 17) T | trans-1,2-Dichloroe  | 0.396          | 0.367 | 0.353 | 0.354 | 0.340 | 0.362 | 5.91  |
| 18) T | Methyl tert-butyl E  | 1.105          | 1.058 | 1.090 | 1.125 | 1.104 | 1.096 | 2.28  |
| 19) T | 1,1-Dichloroethane   | 0.763          | 0.762 | 0.711 | 0.705 | 0.669 | 0.722 | 5.60  |
| 20) T | cis-1,2-Dichloroeth  | 0.404          | 0.394 | 0.399 | 0.406 | 0.391 | 0.399 | 1.65  |
| 21) S | 2-Butanone-d5        | 0.245          | 0.264 | 0.309 | 0.327 | 0.331 | 0.295 | 13.09 |
| 22) T | 2-Butanone           | 0.310          | 0.327 | 0.352 | 0.360 | 0.344 | 0.339 | 5.92  |
| 23) T | Bromochloromethane   | 0.208          | 0.221 | 0.203 | 0.201 | 0.192 | 0.205 | 5.11  |
| 24) S | Chloroform-d         | 0.676          | 0.750 | 0.731 | 0.720 | 0.691 | 0.714 | 4.20  |
| 25) T | Chloroform           | 0.740          | 0.784 | 0.710 | 0.693 | 0.647 | 0.715 | 7.20  |
| 26) S | 1,2-Dichloroethane-  | 0.448          | 0.488 | 0.469 | 0.461 | 0.441 | 0.461 | 3.96  |
| 27) T | 1,2-Dichloroethane   | 0.587          | 0.597 | 0.562 | 0.544 | 0.515 | 0.561 | 5.90  |
| ----- |                      |                |       |       |       |       |       |       |
| 28) I | Chlorobenzene-d5     | -----ISTD----- |       |       |       |       |       |       |
| 29) T | Cyclohexane          | 0.561          | 0.521 | 0.587 | 0.613 | 0.602 | 0.577 | 6.39  |
| 30) T | 1,1,1-Trichloroetha  | 0.616          | 0.601 | 0.569 | 0.558 | 0.537 | 0.576 | 5.57  |
| 31) T | Carbon tetrachlorid  | 0.538          | 0.529 | 0.509 | 0.498 | 0.481 | 0.511 | 4.49  |
| 32) S | Benzene-d6           | 1.346          | 1.438 | 1.471 | 1.443 | 1.403 | 1.420 | 3.38  |
| 33) T | Benzene              | 1.563          | 1.539 | 1.543 | 1.490 | 1.424 | 1.512 | 3.69  |
| 34) T | Trichloroethene      | 0.421          | 0.413 | 0.384 | 0.376 | 0.368 | 0.392 | 5.95  |
| 35) T | Methylcyclohexane    | 0.581          | 0.544 | 0.607 | 0.618 | 0.607 | 0.591 | 4.99  |
| 36) S | 1,2-Dichloropropane  | 0.439          | 0.471 | 0.470 | 0.467 | 0.457 | 0.461 | 2.86  |
| 37) T | 1,2-Dichloropropane  | 0.434          | 0.428 | 0.412 | 0.404 | 0.390 | 0.414 | 4.37  |
| 38) T | Bromodichloromethan  | 0.558          | 0.561 | 0.525 | 0.520 | 0.508 | 0.534 | 4.46  |
| 39) T | cis-1,3-Dichloropro  | 0.574          | 0.563 | 0.630 | 0.655 | 0.652 | 0.615 | 7.03  |
| 40) T | 4-Methyl-2-pentanone | 0.561          | 0.547 | 0.604 | 0.629 | 0.621 | 0.592 | 6.14  |
| 41) S | Toluene-d8           | 1.145          | 1.272 | 1.358 | 1.345 | 1.298 | 1.284 | 6.61  |
| 42) T | Toluene              | 1.550          | 1.570 | 1.611 | 1.578 | 1.514 | 1.564 | 2.28  |
| 43) S | trans-1,3-Dichlorop  | 0.189          | 0.196 | 0.218 | 0.230 | 0.231 | 0.213 | 9.24  |
| 44) T | trans-1,3-Dichlorop  | 0.516          | 0.523 | 0.567 | 0.582 | 0.581 | 0.554 | 5.78  |
| 45) T | 1,1,2-Trichloroetha  | 0.387          | 0.402 | 0.382 | 0.370 | 0.357 | 0.380 | 4.52  |
| 46) T | Tetrachloroethene    | 0.335          | 0.310 | 0.301 | 0.292 | 0.286 | 0.305 | 6.34  |
| 47) S | 2-Hexanone-d5        | 0.132          | 0.140 | 0.210 | 0.229 | 0.247 | 0.192 | 27.53 |
| 48) T | 2-Hexanone           | 0.416          | 0.422 | 0.477 | 0.494 | 0.490 | 0.460 | 8.19  |
| 49) T | Dibromochloromethan  | 0.430          | 0.430 | 0.419 | 0.418 | 0.407 | 0.421 | 2.28  |
| 50) T | 1,2-Dibromoethane    | 0.409          | 0.412 | 0.402 | 0.405 | 0.395 | 0.405 | 1.64  |
| 51) T | Chlorobenzene        | 1.093          | 1.071 | 1.015 | 1.012 | 0.982 | 1.035 | 4.45  |
| 52) T | Ethylbenzene         | 1.585          | 1.646 | 1.727 | 1.765 | 1.726 | 1.690 | 4.30  |

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|       | Compound              | 5              | 10    | 50    | 100   | 200   | Avg   | %RSD  |
|-------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|
| 53) T | m,p-Xylene            | 0.571          | 0.585 | 0.649 | 0.663 | 0.646 | 0.623 | 6.66  |
| 54) T | o-xylene              | 0.548          | 0.587 | 0.638 | 0.656 | 0.640 | 0.614 | 7.33  |
| 55) T | Styrene               | 0.899          | 0.967 | 1.115 | 1.138 | 1.108 | 1.045 | 10.14 |
| 56) T | Isopropylbenzene      | 1.431          | 1.481 | 1.656 | 1.720 | 1.687 | 1.595 | 8.17  |
| 57) S | 1,1,2,2-Tetrachloro   | 0.647          | 0.656 | 0.658 | 0.669 | 0.652 | 0.656 | 1.30  |
| 58) T | 1,1,2,2-Tetrachloro   | 0.679          | 0.663 | 0.655 | 0.659 | 0.633 | 0.658 | 2.53  |
| 59)   | 1,2,3-Trichloroprop   | 0.549          | 0.546 | 0.526 | 0.522 | 0.500 | 0.529 | 3.78  |
| 60) I | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |
| 61) T | Bromoform             | 0.670          | 0.655 | 0.619 | 0.617 | 0.592 | 0.631 | 4.97  |
| 62) T | 1,3-Dichlorobenzene   | 1.686          | 1.577 | 1.552 | 1.549 | 1.489 | 1.571 | 4.61  |
| 63) T | 1,4-Dichlorobenzene   | 1.856          | 1.638 | 1.582 | 1.556 | 1.504 | 1.627 | 8.40  |
| 64) S | 1,2-Dichlorobenzene   | 1.105          | 1.025 | 0.992 | 0.995 | 0.986 | 1.020 | 4.87  |
| 65) T | 1,2-Dichlorobenzene   | 1.660          | 1.602 | 1.552 | 1.539 | 1.481 | 1.567 | 4.33  |
| 66) T | 1,2-Dibromo-3-chlor   | 0.272          | 0.288 | 0.288 | 0.294 | 0.295 | 0.287 | 3.15  |
| 67)   | 1,3,5-Trichlorobenz   | 1.262          | 1.160 | 1.185 | 1.211 | 1.218 | 1.207 | 3.16  |
| 68) T | 1,2,4-trichlorobenz   | 0.973          | 0.797 | 0.994 | 1.077 | 1.108 | 0.990 | 12.29 |
| 69)   | Naphthalene           | 2.576          | 2.044 | 3.156 | 3.469 | 3.532 | 2.955 | 21.47 |
| 70) T | 1,2,3-Trichlorobenz   | 1.016          | 0.916 | 1.085 | 1.108 | 1.105 | 1.046 | 7.81  |

(#) = Out of Range