

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX042220\  
 Data File : VX015837.D  
 Acq On : 22 Apr 2020 13:11  
 Operator : JC/SP  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX042220

Quant Time: Apr 23 06:01:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042220W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 23 04:36:12 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.428 | 0.516 | -20.6# | 106   | 0.00     |
| 3 P   | Chloromethane               | 0.438 | 0.498 | -13.7  | 111   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.507 | 0.531 | -4.7#  | 104   | 0.00     |
| 5 T   | Bromomethane                | 0.170 | 0.222 | -30.6# | 114   | 0.00     |
| 6 T   | Chloroethane                | 0.289 | 0.308 | -6.6   | 106   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.629 | 0.710 | -12.9  | 107   | 0.00     |
| 8 T   | Diethyl Ether               | 0.255 | 0.266 | -4.3   | 107   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.427 | 0.457 | -7.0   | 110   | 0.00     |
| 10 T  | Methyl Iodide               | 0.528 | 0.613 | -16.1  | 115   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.116 | 0.109 | 6.0    | 92    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.438 | 0.455 | -3.9#  | 102   | 0.00     |
| 13 T  | Acrolein                    | 0.069 | 0.054 | 21.7#  | 80    | 0.00     |
| 14 T  | Allyl chloride              | 0.931 | 0.970 | -4.2   | 102   | 0.00     |
| 15 T  | Acrylonitrile               | 0.270 | 0.277 | -2.6   | 100   | 0.00     |
| 16 T  | Acetone                     | 0.248 | 0.221 | 10.9   | 96    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.590 | 1.326 | 16.6   | 105   | 0.00     |
| 18 T  | Methyl Acetate              | 0.817 | 0.803 | 1.7    | 99    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.546 | 1.635 | -5.8   | 104   | 0.00     |
| 20 T  | Methylene Chloride          | 0.503 | 0.510 | -1.4   | 103   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.486 | 0.508 | -4.5   | 105   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.677 | 1.764 | -5.2   | 104   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.388 | 1.453 | -4.7   | 103   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.874 | 0.926 | -5.9   | 105   | 0.00     |
| 25 T  | 2-Butanone                  | 0.391 | 0.372 | 4.9    | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.781 | 0.844 | -8.1   | 107   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.552 | 0.585 | -6.0   | 105   | 0.00     |
| 28 T  | Bromochloromethane          | 0.459 | 0.415 | 9.6    | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.259 | 0.255 | 1.5    | 97    | 0.00     |
| 30 C  | Chloroform                  | 0.880 | 0.905 | -2.8#  | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 0.831 | 0.893 | -7.5   | 106   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.784 | 0.825 | -5.2   | 104   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.569 | 0.482 | 15.3   | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.289 | 0.261 | 9.7    | 89    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.443 | 0.497 | -12.2  | 105   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.528 | 0.548 | -3.8   | 100   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.437 | 0.490 | -12.1  | 103   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.561 | 0.630 | -12.3  | 109   | 0.00     |
| 40 TM | Benzene                     | 1.335 | 1.444 | -8.2   | 104   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.293 | 0.317 | -8.2   | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.481 | 0.516 | -7.3   | 104   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.890 | 0.942 | -5.8   | 101   | 0.00     |
| 44 TM | Trichloroethene             | 0.469 | 0.516 | -10.0  | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.350 | 0.381 | -8.9#  | 103   | 0.00     |

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 Misc : 5.0mL/MSVOA X/WATER  
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 ClientSampleId :  
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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.255 | 0.262 | -2.7   | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.454 | 0.498 | -9.7   | 103   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.438 | 0.471 | -7.5   | 101   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.008 | 0.0    | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 1.162 | 1.027 | 11.6   | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.514 | 0.535 | -4.1   | 98    | 0.00     |
| 52 CM | Toluene                     | 0.856 | 0.944 | -10.3# | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.564 | 0.627 | -11.2  | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.596 | 0.651 | -9.2   | 104   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.334 | 0.358 | -7.2   | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.566 | 0.612 | -8.1   | 102   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.581 | 0.624 | -7.4   | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.283 | 0.315 | -11.3  | 104   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.391 | 0.390 | 0.3    | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.345 | 0.389 | -12.8  | 108   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.369 | 0.393 | -6.5   | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.477 | 0.417 | 12.6   | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.674 | 0.722 | -7.1   | 106   | 0.00     |
| 65 PM | Chlorobenzene               | 1.000 | 1.070 | -7.0   | 104   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.374 | 0.399 | -6.7   | 101   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.756 | 1.904 | -8.4#  | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.659 | 0.720 | -9.3   | 105   | 0.00     |
| 69 T  | o-Xylene                    | 0.649 | 0.701 | -8.0   | 106   | 0.00     |
| 70 T  | Styrene                     | 1.123 | 1.222 | -8.8   | 103   | 0.00     |
| 71 P  | Bromoform                   | 0.244 | 0.273 | -11.9  | 105   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.175 | 3.565 | -12.3  | 104   | 0.00     |
| 74 T  | N-amyl acetate              | 1.639 | 1.717 | -4.8   | 102   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.672 | 0.714 | -6.2   | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.951 | 1.007 | -5.9   | 101   | 0.00     |
| 77 T  | Bromobenzene                | 0.868 | 0.940 | -8.3   | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 3.638 | 4.072 | -11.9  | 105   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.185 | 2.391 | -9.4   | 104   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.708 | 2.989 | -10.4  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.395 | 0.420 | -6.3   | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.597 | 2.874 | -10.7  | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.402 | 2.648 | -10.2  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.811 | 3.080 | -9.6   | 105   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.166 | 3.526 | -11.4  | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.961 | 3.335 | -12.6  | 106   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.593 | 1.730 | -8.6   | 104   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.594 | 1.695 | -6.3   | 107   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.647 | 3.009 | -13.7  | 109   | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 90 T | Hexachloroethane            | 0.313 | 0.396 | -26.5# | 116   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.511 | 1.626 | -7.6   | 104   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.199 | 0.211 | -6.0   | 106   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.190 | 1.325 | -11.3  | 106   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.534 | 0.681 | -27.5# | 124   | 0.00     |
| 95 T | Naphthalene                 | 3.424 | 3.666 | -7.1   | 100   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.161 | 1.261 | -8.6   | 104   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6