

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122321\  
 Data File : VD071435.D  
 Acq On : 23 Dec 2021 10:21  
 Operator : VA/SY  
 Sample : VSTDICV050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD122221

Quant Time: Dec 23 14:44:00 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D122221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 23 08:20:24 2021  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.524 | 0.485 | 7.4   | 103   | 0.00     |
| 3 P   | Chloromethane               | 0.671 | 0.628 | 6.4   | 103   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.804 | 0.723 | 10.1# | 100   | 0.00     |
| 5 T   | Bromomethane                | 0.562 | 0.521 | 7.3   | 109   | 0.02     |
| 6 T   | Chloroethane                | 0.534 | 0.506 | 5.2   | 105   | 0.01     |
| 7 T   | Trichlorofluoromethane      | 0.984 | 0.953 | 3.2   | 106   | 0.01     |
| 8 T   | Diethyl Ether               | 0.282 | 0.276 | 2.1   | 106   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.573 | 0.562 | 1.9   | 110   | 0.00     |
| 10 T  | Methyl Iodide               | 0.557 | 0.560 | -0.5  | 97    | 0.01     |
| 11 T  | Tert butyl alcohol          | 0.065 | 0.042 | 35.4# | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.521 | 0.510 | 2.1#  | 108   | 0.00     |
| 13 T  | Acrolein                    | 0.032 | 0.033 | -3.1  | 109   | 0.00     |
| 14 T  | Allyl chloride              | 0.985 | 0.981 | 0.4   | 108   | 0.01     |
| 15 T  | Acrylonitrile               | 0.139 | 0.142 | -2.2  | 106   | 0.00     |
| 16 T  | Acetone                     | 0.167 | 0.192 | -15.0 | 113   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.697 | 1.607 | 5.3   | 106   | 0.00     |
| 18 T  | Methyl Acetate              | 0.515 | 0.495 | 3.9   | 107   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.345 | 1.321 | 1.8   | 103   | 0.00     |
| 20 T  | Methylene Chloride          | 0.811 | 0.644 | 20.6  | 107   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.603 | 0.575 | 4.6   | 105   | 0.00     |
| 22 T  | Diisopropyl ether           | 2.006 | 2.006 | 0.0   | 106   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.034 | 1.082 | -4.6  | 105   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.150 | 1.136 | 1.2   | 108   | 0.00     |
| 25 T  | 2-Butanone                  | 0.199 | 0.209 | -5.0  | 107   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.945 | 0.968 | -2.4  | 109   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.667 | 0.659 | 1.2   | 106   | 0.00     |
| 28 T  | Bromochloromethane          | 0.471 | 0.430 | 8.7   | 93    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.120 | 0.120 | 0.0   | 104   | 0.00     |
| 30 C  | Chloroform                  | 1.160 | 1.144 | 1.4#  | 106   | 0.00     |
| 31 T  | Cyclohexane                 | 1.128 | 1.045 | 7.4   | 107   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.029 | 1.021 | 0.8   | 107   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.664 | 0.630 | 5.1   | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.336 | 0.327 | 2.7   | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.537 | 0.524 | 2.4   | 107   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.248 | 0.244 | 1.6   | 100   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.530 | 0.531 | -0.2  | 107   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.628 | 0.613 | 2.4   | 107   | 0.00     |
| 40 TM | Benzene                     | 1.443 | 1.406 | 2.6   | 106   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.147 | 0.149 | -1.4  | 94    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.471 | 0.466 | 1.1   | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.492 | 0.495 | -0.6  | 106   | 0.00     |
| 44 TM | Trichloroethene             | 0.376 | 0.363 | 3.5   | 106   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.375 | 0.364 | 2.9#  | 106   | 0.00     |
| 46 T  | Dibromomethane              | 0.207 | 0.201 | 2.9   | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.525 | 0.517 | 1.5   | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.243 | 0.244 | -0.4  | 105   | 0.00     |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD122221

Quant Time: Dec 23 14:44:00 2021  
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 98    | 0.00     |
| 50 S  | Toluene-d8                  | 1.270 | 1.221 | 3.9   | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.259 | 0.257 | 0.8   | 103   | 0.00     |
| 52 CM | Toluene                     | 0.917 | 0.899 | 2.0#  | 107   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.491 | 0.492 | -0.2  | 106   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.567 | 0.567 | 0.0   | 108   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.263 | 0.260 | 1.1   | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.346 | 0.352 | -1.7  | 103   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.481 | 0.477 | 0.8   | 105   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.166 | 0.158 | 4.8   | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.183 | 0.194 | -6.0  | 106   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.330 | 0.334 | -1.2  | 106   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.260 | 0.264 | -1.5  | 108   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.451 | 0.441 | 2.2   | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.347 | 0.327 | 5.8   | 106   | 0.00     |
| 65 PM | Chlorobenzene               | 1.026 | 0.997 | 2.8   | 104   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.375 | 0.370 | 1.3   | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.909 | 1.920 | -0.6# | 107   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.725 | 0.728 | -0.4  | 106   | 0.00     |
| 69 T  | o-Xylene                    | 0.663 | 0.670 | -1.1  | 106   | 0.00     |
| 70 T  | Styrene                     | 1.152 | 1.180 | -2.4  | 107   | 0.00     |
| 71 P  | Bromoform                   | 0.203 | 0.207 | -2.0  | 103   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.855 | 3.867 | -0.3  | 107   | 0.00     |
| 74 T  | N-amyl acetate              | 1.034 | 1.049 | -1.5  | 101   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.697 | 0.720 | -3.3  | 108   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.594 | 0.579 | 2.5   | 103   | 0.00     |
| 77 T  | Bromobenzene                | 0.858 | 0.822 | 4.2   | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 4.832 | 4.850 | -0.4  | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.700 | 2.712 | -0.4  | 107   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.180 | 3.242 | -1.9  | 106   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.210 | 0.211 | -0.5  | 106   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.801 | 2.823 | -0.8  | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.717 | 2.760 | -1.6  | 106   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.147 | 3.208 | -1.9  | 107   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.142 | 4.170 | -0.7  | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.437 | 3.531 | -2.7  | 108   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.727 | 1.680 | 2.7   | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.694 | 1.655 | 2.3   | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.373 | 3.437 | -1.9  | 108   | 0.00     |
| 90 T  | Hexachloroethane            | 0.651 | 0.664 | -2.0  | 108   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.466 | 1.449 | 1.2   | 104   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.121 | 0.118 | 2.5   | 108   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.893 | 0.892 | 0.1   | 104   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.479 | 0.470 | 1.9   | 103   | 0.00     |
| 95 T  | Naphthalene                 | 1.701 | 1.710 | -0.5  | 101   | 0.00     |

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Quant Title : SW846 8260  
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.773 | 0.769 | 0.5  | 104   | 0.00     |

(#) = Out of Range

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