

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080322\  
 Data File : VY009821.D  
 Acq On : 03 Aug 2022 16:12  
 Operator : KP/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY080322

Quant Time: Aug 04 02:28:36 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080322S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 04 02:27:45 2022  
 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   | 106   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.527 | 0.432 | 18.0  | 99    | 0.00     |
| 3 P   | Chloromethane               | 0.723 | 0.627 | 13.3  | 98    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.758 | 0.664 | 12.4# | 97    | 0.00     |
| 5 T   | Bromomethane                | 0.514 | 0.468 | 8.9   | 101   | 0.00     |
| 6 T   | Chloroethane                | 0.493 | 0.426 | 13.6  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.010 | 0.873 | 13.6  | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 0.304 | 0.283 | 6.9   | 103   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.553 | 0.489 | 11.6  | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 0.634 | 0.582 | 8.2   | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.053 | 0.045 | 15.1  | 108   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.505 | 0.451 | 10.7# | 98    | 0.00     |
| 13 T  | Acrolein                    | 0.007 | 0.005 | 28.6# | 106   | 0.00     |
| 14 T  | Allyl chloride              | 0.847 | 0.786 | 7.2   | 100   | 0.00     |
| 15 T  | Acrylonitrile               | 0.161 | 0.147 | 8.7   | 99    | 0.00     |
| 16 T  | Acetone                     | 0.142 | 0.162 | -14.1 | 128   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.574 | 1.355 | 13.9  | 95    | 0.00     |
| 18 T  | Methyl Acetate              | 0.422 | 0.370 | 12.3  | 106   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.295 | 1.273 | 1.7   | 104   | -0.01    |
| 20 T  | Methylene Chloride          | 0.880 | 0.614 | 30.2# | 103   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.574 | 0.516 | 10.1  | 97    | -0.01    |
| 22 T  | Diisopropyl ether           | 1.876 | 1.761 | 6.1   | 98    | -0.01    |
| 23 T  | Vinyl Acetate               | 1.197 | 1.169 | 2.3   | 100   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.015 | 0.900 | 11.3  | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.232 | 0.219 | 5.6   | 106   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.944 | 0.825 | 12.6  | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.641 | 0.590 | 8.0   | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 0.396 | 0.381 | 3.8   | 104   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.149 | 0.140 | 6.0   | 104   | 0.00     |
| 30 C  | Chloroform                  | 1.062 | 0.944 | 11.1# | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 0.946 | 0.826 | 12.7  | 95    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.921 | 0.835 | 9.3   | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.494 | 0.385 | 22.1  | 105   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.305 | 0.272 | 10.8  | 104   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.506 | 0.467 | 7.7   | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.329 | 0.299 | 9.1   | 104   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.532 | 0.492 | 7.5   | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.587 | 0.551 | 6.1   | 99    | 0.00     |
| 40 TM | Benzene                     | 1.534 | 1.372 | 10.6  | 96    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.161 | 0.141 | 12.4  | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.441 | 0.406 | 7.9   | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.574 | 0.545 | 5.1   | 102   | 0.00     |
| 44 TM | Trichloroethene             | 0.409 | 0.364 | 11.0  | 96    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.383 | 0.351 | 8.4#  | 96    | 0.00     |
| 46 T  | Dibromomethane              | 0.236 | 0.201 | 14.8  | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.546 | 0.474 | 13.2  | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.263 | 0.241 | 8.4   | 97    | 0.00     |

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 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICSVY080322

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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                 | 0.003 | 0.002 | 33.3# | 89    | 0.00     |
| 50 S  | Toluene-d8                  | 1.065 | 0.795 | 25.4# | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.324 | 0.303 | 6.5   | 100   | 0.00     |
| 52 CM | Toluene                     | 0.967 | 0.855 | 11.6# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.535 | 0.481 | 10.1  | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.604 | 0.546 | 9.6   | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.317 | 0.279 | 12.0  | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.398 | 0.382 | 4.0   | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.538 | 0.468 | 13.0  | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.194 | 0.189 | 2.6   | 105   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.224 | 0.223 | 0.4   | 106   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.379 | 0.335 | 11.6  | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.309 | 0.264 | 14.6  | 87    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.413 | 0.387 | 6.3   | 90    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.397 | 0.373 | 6.0   | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 1.086 | 0.990 | 8.8   | 86    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.403 | 0.368 | 8.7   | 83    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.886 | 1.774 | 5.9#  | 82    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.740 | 0.694 | 6.2   | 82    | 0.00     |
| 69 T  | o-Xylene                    | 0.662 | 0.655 | 1.1   | 83    | 0.00     |
| 70 T  | Styrene                     | 1.132 | 1.130 | 0.2   | 82    | 0.00     |
| 71 P  | Bromoform                   | 0.242 | 0.228 | 5.8   | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.473 | 3.252 | 6.4   | 84    | 0.00     |
| 74 T  | N-amyl acetate              | 1.098 | 1.080 | 1.6   | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.783 | 0.690 | 11.9  | 84    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.572 | 0.497 | 13.1  | 88    | 0.00     |
| 77 T  | Bromobenzene                | 0.872 | 0.771 | 11.6  | 85    | 0.00     |
| 78 T  | n-propylbenzene             | 4.382 | 4.088 | 6.7   | 82    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.440 | 2.222 | 8.9   | 82    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.930 | 2.748 | 6.2   | 84    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.266 | 0.249 | 6.4   | 86    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.574 | 2.349 | 8.7   | 82    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.504 | 2.372 | 5.3   | 83    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.888 | 2.741 | 5.1   | 84    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.828 | 3.700 | 3.3   | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.105 | 3.086 | 0.6   | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.713 | 1.579 | 7.8   | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.744 | 1.634 | 6.3   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.040 | 3.078 | -1.2  | 92    | 0.00     |
| 90 T  | Hexachloroethane            | 0.667 | 0.613 | 8.1   | 90    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.568 | 1.505 | 4.0   | 94    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.123 | 0.111 | 9.8   | 98    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.870 | 0.881 | -1.3  | 101   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.510 | 0.485 | 4.9   | 96    | 0.00     |
| 95 T  | Naphthalene                 | 1.727 | 1.784 | -3.3  | 101   | 0.00     |

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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 | 0.770 | 0.726 | 5.7  | 93    | 0.00     |

(#) = Out of Range

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