

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD110823\  
 Data File : VD077514.D  
 Acq On : 08 Nov 2023 09:53  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 09 01:34:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D103023S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 31 04:19:17 2023  
 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    | 62    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.403 | 0.326 | 19.1   | 54    | 0.00     |
| 3 P   | Chloromethane               | 0.640 | 0.662 | -3.4   | 58    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.624 | 0.762 | -22.1# | 70    | 0.00     |
| 5 T   | Bromomethane                | 0.327 | 0.443 | -35.5# | 77    | 0.00     |
| 6 T   | Chloroethane                | 0.420 | 0.547 | -30.2# | 75    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.874 | 0.822 | 5.9    | 58    | 0.00     |
| 8 T   | Diethyl Ether               | 0.314 | 0.295 | 6.1    | 55    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.528 | 0.497 | 5.9    | 59    | 0.00     |
| 10 T  | Methyl Iodide               | 0.577 | 0.581 | -0.7   | 54    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.056 | 0.043 | 23.2   | 52    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.500 | 0.475 | 5.0#   | 57    | 0.00     |
| 13 T  | Acrolein                    | 0.074 | 0.059 | 20.3   | 51    | 0.00     |
| 14 T  | Allyl chloride              | 1.205 | 1.081 | 10.3   | 51    | 0.00     |
| 15 T  | Acrylonitrile               | 0.170 | 0.158 | 7.1    | 56    | 0.00     |
| 16 T  | Acetone                     | 0.187 | 0.186 | 0.5    | 60    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.302 | 1.376 | -5.7   | 53    | 0.00     |
| 18 T  | Methyl Acetate              | 0.682 | 0.659 | 3.4    | 56    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.568 | 1.425 | 9.1    | 55    | 0.00     |
| 20 T  | Methylene Chloride          | 0.762 | 0.639 | 16.1   | 55    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.582 | 0.558 | 4.1    | 56    | 0.01     |
| 22 T  | Diisopropyl ether           | 2.561 | 2.345 | 8.4    | 55    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.105 | 0.980 | 11.3   | 53    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.329 | 1.237 | 6.9    | 56    | 0.00     |
| 25 T  | 2-Butanone                  | 0.250 | 0.228 | 8.8    | 57    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.178 | 1.040 | 11.7   | 55    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.721 | 0.693 | 3.9    | 57    | 0.00     |
| 28 T  | Bromochloromethane          | 0.537 | 0.557 | -3.7   | 56    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.148 | 0.132 | 10.8   | 54    | 0.00     |
| 30 C  | Chloroform                  | 1.241 | 1.164 | 6.2#   | 56    | 0.00     |
| 31 T  | Cyclohexane                 | 1.105 | 1.002 | 9.3    | 56    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.022 | 0.949 | 7.1    | 57    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.707 | 0.721 | -2.0   | 62    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 62    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.346 | 0.355 | -2.6   | 65    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.512 | 0.483 | 5.7    | 57    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.294 | 0.251 | 14.6   | 52    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.483 | 0.448 | 7.2    | 59    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.585 | 0.544 | 7.0    | 57    | 0.00     |
| 40 TM | Benzene                     | 1.461 | 1.407 | 3.7    | 58    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.188 | 0.164 | 12.8   | 57    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.463 | 0.407 | 12.1   | 54    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.607 | 0.510 | 16.0   | 51    | 0.00     |
| 44 TM | Trichloroethene             | 0.358 | 0.329 | 8.1    | 56    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.430 | 0.397 | 7.7#   | 56    | 0.00     |
| 46 T  | Dibromomethane              | 0.207 | 0.181 | 12.6   | 54    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.547 | 0.494 | 9.7    | 56    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.290 | 0.246 | 15.2   | 50    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD110823\  
 Data File : VD077514.D  
 Acq On : 08 Nov 2023 09:53  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 09 01:34:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D103023S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 31 04:19:17 2023  
 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) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0  | 51    | 0.01     |
| 50 S  | Toluene-d8                  | 1.342 | 1.427 | -6.3 | 67    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.299 | 0.255 | 14.7 | 54    | 0.00     |
| 52 CM | Toluene                     | 0.891 | 0.847 | 4.9# | 58    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.579 | 0.519 | 10.4 | 55    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.667 | 0.603 | 9.6  | 55    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.276 | 0.249 | 9.8  | 57    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.411 | 0.360 | 12.4 | 54    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.516 | 0.473 | 8.3  | 56    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.206 | 0.219 | -6.3 | 63    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.220 | 0.194 | 11.8 | 57    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.332 | 0.299 | 9.9  | 56    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.262 | 0.229 | 12.6 | 54    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.452 | 0.449 | 0.7  | 64    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 64    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.318 | 0.283 | 11.0 | 57    | 0.00     |
| 65 PM | Chlorobenzene               | 1.048 | 0.976 | 6.9  | 58    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.396 | 0.354 | 10.6 | 56    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.015 | 1.876 | 6.9# | 58    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.728 | 0.683 | 6.2  | 59    | 0.00     |
| 69 T  | o-Xylene                    | 0.697 | 0.655 | 6.0  | 58    | 0.00     |
| 70 T  | Styrene                     | 1.203 | 1.121 | 6.8  | 58    | 0.00     |
| 71 P  | Bromoform                   | 0.219 | 0.192 | 12.3 | 56    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 65    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.077 | 3.746 | 8.1  | 60    | 0.00     |
| 74 T  | N-amyl acetate              | 1.444 | 1.144 | 20.8 | 52    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.799 | 0.692 | 13.4 | 55    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.609 | 0.538 | 11.7 | 58    | 0.00     |
| 77 T  | Bromobenzene                | 0.897 | 0.817 | 8.9  | 58    | 0.00     |
| 78 T  | n-propylbenzene             | 5.176 | 4.704 | 9.1  | 59    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.931 | 2.597 | 11.4 | 57    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.421 | 3.099 | 9.4  | 59    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.315 | 0.263 | 16.5 | 55    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.053 | 2.697 | 11.7 | 57    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.876 | 2.614 | 9.1  | 59    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.398 | 3.102 | 8.7  | 60    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.400 | 4.024 | 8.5  | 61    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.577 | 3.309 | 7.5  | 61    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.764 | 1.631 | 7.5  | 60    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.762 | 1.580 | 10.3 | 59    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.717 | 3.372 | 9.3  | 60    | 0.00     |
| 90 T  | Hexachloroethane            | 0.732 | 0.638 | 12.8 | 57    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.550 | 1.388 | 10.5 | 58    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.135 | 0.108 | 20.0 | 53    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.065 | 0.917 | 13.9 | 56    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.574 | 0.505 | 12.0 | 59    | 0.00     |
| 95 T  | Naphthalene                 | 2.031 | 1.732 | 14.7 | 55    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD110823\  
Data File : VD077514.D  
Acq On : 08 Nov 2023 09:53  
Operator : JC/SY  
Sample : VSTDCCC050  
Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
LabSampleId :  
VSTDCCC050

Quant Time: Nov 09 01:34:22 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D103023S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 31 04:19:17 2023  
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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.919 | 0.805 | 12.4 | 56    | 0.00     |

(#) = Out of Range

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