

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX112320\  
 Data File : VX019592.D  
 Acq On : 24 Nov 2020 08:11  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 55 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 24 08:35:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112120W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 21 01:57:45 2020  
 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.486 | 0.482 | 0.8   | 97    | 0.00     |
| 3 P   | Chloromethane               | 0.558 | 0.537 | 3.8   | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.601 | 0.590 | 1.8#  | 98    | 0.00     |
| 5 T   | Bromomethane                | 0.227 | 0.214 | 5.7   | 95    | 0.00     |
| 6 T   | Chloroethane                | 0.166 | 0.136 | 18.1  | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.867 | 0.844 | 2.7   | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 0.347 | 0.356 | -2.6  | 103   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.484 | 0.465 | 3.9   | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 0.635 | 0.687 | -8.2  | 104   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.123 | 0.139 | -13.0 | 116   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.496 | 0.491 | 1.0#  | 102   | 0.00     |
| 13 T  | Acrolein                    | 0.082 | 0.074 | 9.8   | 94    | 0.00     |
| 14 T  | Allyl chloride              | 0.778 | 0.713 | 8.4   | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 0.289 | 0.309 | -6.9  | 106   | 0.00     |
| 16 T  | Acetone                     | 0.251 | 0.251 | 0.0   | 103   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.334 | 1.198 | 10.2  | 93    | 0.00     |
| 18 T  | Methyl Acetate              | 0.647 | 0.659 | -1.9  | 110   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.713 | 1.843 | -7.6  | 108   | 0.00     |
| 20 T  | Methylene Chloride          | 0.627 | 0.610 | 2.7   | 103   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.562 | 0.556 | 1.1   | 101   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.609 | 1.685 | -4.7  | 104   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.349 | 1.452 | -7.6  | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.984 | 1.008 | -2.4  | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 0.377 | 0.398 | -5.6  | 104   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.859 | 0.599 | 30.3# | 71    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.646 | 0.666 | -3.1  | 104   | 0.00     |
| 28 T  | Bromochloromethane          | 0.470 | 0.434 | 7.7   | 103   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.240 | 0.255 | -6.3  | 107   | 0.00     |
| 30 C  | Chloroform                  | 1.029 | 1.069 | -3.9# | 103   | 0.00     |
| 31 T  | Cyclohexane                 | 0.843 | 0.829 | 1.7   | 99    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.884 | 0.914 | -3.4  | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.648 | 0.645 | 0.5   | 105   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.314 | 0.305 | 2.9   | 105   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.469 | 0.441 | 6.0   | 100   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.440 | 0.457 | -3.9  | 108   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.454 | 0.445 | 2.0   | 102   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.546 | 0.490 | 10.3  | 94    | 0.00     |
| 40 TM | Benzene                     | 1.440 | 1.389 | 3.5   | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.243 | 0.246 | -1.2  | 106   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.494 | 0.489 | 1.0   | 105   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.740 | 0.746 | -0.8  | 107   | 0.00     |
| 44 TM | Trichloroethene             | 0.377 | 0.364 | 3.4   | 103   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.355 | 0.352 | 0.8#  | 103   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX112320\  
 Data File : VX019592.D  
 Acq On : 24 Nov 2020 08:11  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 55 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 24 08:35:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112120W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 21 01:57:45 2020  
 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.243 | 0.242 | 0.4   | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.471 | 0.482 | -2.3  | 103   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.346 | 0.365 | -5.5  | 106   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.009 | -12.5 | 118   | 0.00     |
| 50 S  | Toluene-d8                  | 1.220 | 1.178 | 3.4   | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.431 | 0.458 | -6.3  | 108   | 0.00     |
| 52 CM | Toluene                     | 0.881 | 0.890 | -1.0# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.509 | 0.508 | 0.2   | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.564 | 0.549 | 2.7   | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.359 | 0.365 | -1.7  | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.508 | 0.554 | -9.1  | 108   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.601 | 0.618 | -2.8  | 105   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.298 | 0.293 | 1.7   | 104   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.327 | 0.342 | -4.6  | 105   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.351 | 0.369 | -5.1  | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.370 | 0.385 | -4.1  | 104   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.439 | 0.435 | 0.9   | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.393 | 0.343 | 12.7  | 94    | 0.00     |
| 65 PM | Chlorobenzene               | 1.028 | 1.020 | 0.8   | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.374 | 0.389 | -4.0  | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.801 | 1.839 | -2.1# | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.671 | 0.682 | -1.6  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 0.641 | 0.675 | -5.3  | 104   | 0.00     |
| 70 T  | Styrene                     | 1.065 | 1.135 | -6.6  | 102   | 0.00     |
| 71 P  | Bromoform                   | 0.273 | 0.286 | -4.8  | 105   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.459 | 3.626 | -4.8  | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 1.296 | 1.454 | -12.2 | 108   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.237 | 1.296 | -4.8  | 107   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.091 | 1.116 | -2.3  | 102   | 0.00     |
| 77 T  | Bromobenzene                | 0.883 | 0.906 | -2.6  | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 3.968 | 4.044 | -1.9  | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.406 | 2.492 | -3.6  | 101   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.902 | 3.055 | -5.3  | 99    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.371 | 0.346 | 6.7   | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.833 | 2.909 | -2.7  | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.807 | 3.005 | -7.1  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.936 | 3.103 | -5.7  | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.340 | 3.413 | -2.2  | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.032 | 3.085 | -1.7  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.622 | 1.609 | 0.8   | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.670 | 1.654 | 1.0   | 101   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.741 | 2.572 | 6.2   | 88    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX112320\  
Data File : VX019592.D  
Acq On : 24 Nov 2020 08:11  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 55 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Nov 24 08:35:46 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112120W.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 21 01:57:45 2020  
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) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.507 | 0.523 | -3.2  | 99    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.629 | 1.622 | 0.4   | 100   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.252 | 0.276 | -9.5  | 107   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.046 | 1.034 | 1.1   | 97    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.476 | 0.408 | 14.3  | 89    | 0.00     |
| 95 T | Naphthalene                 | 3.237 | 3.638 | -12.4 | 102   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.046 | 1.081 | -3.3  | 100   | 0.00     |

(#) = Out of Range

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