

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD100719\  
 Data File : VD063893.D  
 Acq On : 07 Oct 2019 10:40  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.00mL/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 08 17:29:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100219S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 05 03:51:17 2019  
 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   | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.355 | 0.342 | 3.7   | 109   | 0.00     |
| 3 P   | Chloromethane               | 1.086 | 1.054 | 2.9   | 106   | 0.00     |
| 4 C   | Vinyl Chloride              | 1.146 | 1.136 | 0.9#  | 104   | 0.00     |
| 5 T   | Bromomethane                | 0.737 | 0.680 | 7.7   | 98    | 0.00     |
| 6 T   | Chloroethane                | 0.758 | 0.727 | 4.1   | 103   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.515 | 1.468 | 3.1   | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 0.243 | 0.240 | 1.2   | 102   | -0.01    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.419 | 0.449 | -7.2  | 117   | 0.01     |
| 10 T  | Methyl Iodide               | 0.578 | 0.621 | -7.4  | 109   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.035 | 0.035 | 0.0   | 106   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.419 | 0.443 | -5.7# | 113   | 0.00     |
| 13 T  | Acrolein                    | 0.043 | 0.044 | -2.3  | 100   | 0.00     |
| 14 T  | Allyl chloride              | 0.697 | 0.705 | -1.1  | 106   | 0.00     |
| 15 T  | Acrylonitrile               | 0.107 | 0.110 | -2.8  | 105   | 0.00     |
| 16 T  | Acetone                     | 0.127 | 0.145 | -14.2 | 105   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.523 | 1.543 | -1.3  | 107   | 0.00     |
| 18 T  | Methyl Acetate              | 0.248 | 0.244 | 1.6   | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.085 | 1.128 | -4.0  | 108   | 0.00     |
| 20 T  | Methylene Chloride          | 0.650 | 0.604 | 7.1   | 111   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.522 | 0.551 | -5.6  | 111   | -0.01    |
| 22 T  | Diisopropyl ether           | 1.423 | 1.426 | -0.2  | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.846 | 0.867 | -2.5  | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.876 | 0.893 | -1.9  | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 0.150 | 0.163 | -8.7  | 106   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.793 | 0.829 | -4.5  | 111   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.590 | 0.622 | -5.4  | 110   | 0.00     |
| 28 T  | Bromochloromethane          | 0.328 | 0.324 | 1.2   | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.088 | 0.079 | 10.2  | 97    | 0.00     |
| 30 C  | Chloroform                  | 0.952 | 0.978 | -2.7# | 109   | 0.00     |
| 31 T  | Cyclohexane                 | 0.822 | 0.778 | 5.4   | 105   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.817 | 0.882 | -8.0  | 113   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.487 | 0.460 | 5.5   | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.306 | 0.306 | 0.0   | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.457 | 0.485 | -6.1  | 110   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.207 | 0.184 | 11.1  | 95    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.462 | 0.491 | -6.3  | 110   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.562 | 0.575 | -2.3  | 105   | 0.00     |
| 40 TM | Benzene                     | 1.310 | 1.405 | -7.3  | 109   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.106 | 0.103 | 2.8   | 120   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.379 | 0.383 | -1.1  | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.383 | 0.365 | 4.7   | 99    | 0.00     |
| 44 TM | Trichloroethene             | 0.378 | 0.402 | -6.3  | 107   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.321 | 0.330 | -2.8# | 105   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD100719\  
 Data File : VD063893.D  
 Acq On : 07 Oct 2019 10:40  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.00mL/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 08 17:29:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100219S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 05 03:51:17 2019  
 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              | 0.183 | 0.187 | -2.2  | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.470 | 0.491 | -4.5  | 106   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.184 | 0.174 | 5.4   | 103   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 94    | 0.00     |
| 50 S  | Toluene-d8                  | 1.240 | 1.243 | -0.2  | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.199 | 0.189 | 5.0   | 98    | 0.00     |
| 52 CM | Toluene                     | 0.899 | 0.938 | -4.3# | 106   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.459 | 0.468 | -2.0  | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.528 | 0.564 | -6.8  | 108   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.258 | 0.267 | -3.5  | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.327 | 0.328 | -0.3  | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.441 | 0.452 | -2.5  | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.140 | 0.135 | 3.6   | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.144 | 0.152 | -5.6  | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.336 | 0.349 | -3.9  | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.250 | 0.258 | -3.2  | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.431 | 0.429 | 0.5   | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.341 | 0.363 | -6.5  | 109   | 0.00     |
| 65 PM | Chlorobenzene               | 1.004 | 1.110 | -10.6 | 108   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.370 | 0.397 | -7.3  | 107   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.811 | 1.911 | -5.5# | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.699 | 0.750 | -7.3  | 105   | 0.00     |
| 69 T  | o-Xylene                    | 0.669 | 0.713 | -6.6  | 106   | 0.00     |
| 70 T  | Styrene                     | 1.133 | 1.211 | -6.9  | 102   | 0.00     |
| 71 P  | Bromoform                   | 0.199 | 0.220 | -10.6 | 104   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.361 | 3.608 | -7.3  | 105   | 0.00     |
| 74 T  | N-amyl acetate              | 0.724 | 0.716 | 1.1   | 100   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.585 | 0.601 | -2.7  | 104   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.335 | 0.355 | -6.0  | 101   | 0.00     |
| 77 T  | Bromobenzene                | 0.837 | 0.900 | -7.5  | 105   | 0.00     |
| 78 T  | n-propylbenzene             | 3.945 | 4.264 | -8.1  | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.175 | 2.255 | -3.7  | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.804 | 2.949 | -5.2  | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.189 | 0.188 | 0.5   | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.308 | 2.364 | -2.4  | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.496 | 2.612 | -4.6  | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.891 | 3.071 | -6.2  | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.370 | 3.687 | -9.4  | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.189 | 3.505 | -9.9  | 107   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.655 | 1.773 | -7.1  | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.632 | 1.770 | -8.5  | 107   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.969 | 3.180 | -7.1  | 105   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD100719\  
Data File : VD063893.D  
Acq On : 07 Oct 2019 10:40  
Operator : VA/SY  
Sample : VSTDCCC050  
Misc : 5.00g/5.00mL/MSVOA D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
LabSampleId :  
VSTDCCC050

Quant Time: Oct 08 17:29:34 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100219S.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 05 03:51:17 2019  
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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.574 | 0.634 | -10.5 | 106   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.426 | 1.550 | -8.7  | 105   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.101 | 0.099 | 2.0   | 97    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.100 | 1.181 | -7.4  | 105   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.607 | 0.641 | -5.6  | 102   | 0.00     |
| 95 T | Naphthalene                 | 1.849 | 1.999 | -8.1  | 101   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.949 | 1.031 | -8.6  | 104   | 0.00     |

(#) = Out of Range

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