

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL101718\  
 Data File : VL032651.D  
 Acq On : 17 Oct 2018 21:58  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Oct 18 11:13:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL101718AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Oct 17 08:55:11 2018  
 QLast Update : Wed Oct 17 08:55:11 2018  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|--------|--------|--------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0    | 95    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 14.989 | -49.9# | 147   | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 9.370  | 6.3    | 96    | 0.00     |
| 4    | Chloromethane               | 10.000 | 9.425  | 5.7    | 94    | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 9.657  | 3.4    | 95    | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 9.412  | 5.9    | 95    | 0.00     |
| 7    | Chloroethane                | 10.000 | 9.628  | 3.7    | 96    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 9.010  | 9.9    | 94    | 0.00     |
| 9 T  | Propene                     | 10.000 | 10.572 | -5.7   | 97    | 0.00     |
| 10 T | Heptane                     | 10.000 | 11.178 | -11.8  | 96    | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 9.410  | 5.9    | 103   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 9.218  | 7.8    | 100   | 0.00     |
| 13   | Ethanol                     | 10.000 | 10.264 | -2.6   | 110   | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 10.791 | -7.9   | 106   | 0.00     |
| 15 T | Acetone                     | 10.000 | 9.991  | 0.1    | 107   | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 10.999 | -10.0  | 109   | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 11.515 | -15.2  | 114   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 11.420 | -14.2  | 119   | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 10.762 | -7.6   | 112   | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 10.579 | -5.8   | 117   | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 10.527 | -5.3   | 102   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 9.707  | 2.9    | 99    | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 11.594 | -15.9  | 102   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 9.954  | 0.5    | 99    | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 10.473 | -4.7   | 102   | 0.00     |
| 26 T | Hexane                      | 10.000 | 10.807 | -8.1   | 101   | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 10.046 | -0.5   | 103   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 11.356 | -13.6  | 101   | 0.00     |
| 29 T | Chloroform                  | 10.000 | 9.687  | 3.1    | 98    | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 11.172 | -11.7  | 98    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 10.674 | -6.7   | 94    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.554  | 4.5    | 99    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0    | 91    | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 11.864 | -18.6  | 100   | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 9.595  | 4.0    | 96    | 0.00     |
| 36 T | Benzene                     | 10.000 | 11.608 | -16.1  | 99    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 10.618 | -6.2   | 99    | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 11.127 | -11.3  | 96    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 11.443 | -14.4  | 102   | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 12.358 | -23.6  | 101   | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 12.577 | -25.8  | 99    | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 10.610 | -6.1   | 98    | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 12.473 | -24.7  | 99    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 11.465 | -14.6  | 99    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 13.463 | -34.6# | 100   | 0.00     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL101718\  
 Data File : VL032651.D  
 Acq On : 17 Oct 2018 21:58  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Oct 18 11:13:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL101718AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Wed Oct 17 08:55:11 2018  
 QLast Update : Wed Oct 17 08:55:11 2018  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|---------------------------|--------|--------|-------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 10.000 | 12.615 | -26.2 | 96    | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 10.000 | 10.544 | -5.4  | 97    | 0.00     |
| 48 T | Dibromochloromethane      | 10.000 | 10.617 | -6.2  | 95    | 0.00     |
| 49 T | Bromoform                 | 10.000 | 10.596 | -6.0  | 95    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 11.620 | -16.2 | 96    | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 12.948 | -29.5 | 98    | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 11.864 | -18.6 | 104   | 0.00     |
| 53 T | Toluene                   | 10.000 | 12.549 | -25.5 | 98    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 11.120 | -11.2 | 96    | 0.00     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0   | 94    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 9.332  | 6.7   | 95    | 0.00     |
| 57 T | Chlorobenzene             | 10.000 | 9.594  | 4.1   | 96    | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 11.772 | -17.7 | 96    | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 21.583 | -7.9  | 95    | 0.00     |
| 60 T | o-Xylene                  | 10.000 | 10.739 | -7.4  | 96    | 0.00     |
| 61 T | Styrene                   | 10.000 | 12.670 | -26.7 | 96    | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 10.587 | -5.9  | 96    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 9.121  | 8.8   | 96    | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 10.650 | -6.5  | 95    | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 10.554 | -5.5  | 95    | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 11.009 | -10.1 | 94    | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 10.297 | -3.0  | 95    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 9.551  | 4.5   | 91    | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 10.790 | -7.9  | 95    | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 10.789 | -7.9  | 97    | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 11.279 | -12.8 | 97    | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 11.261 | -12.6 | 94    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 10.744 | -7.4  | 94    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 10.045 | -0.4  | 95    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 9.371  | 6.3   | 94    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 10.208 | -2.1  | 95    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 9.642  | 3.6   | 94    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 6.497  | 35.0# | 65    | 0.00     |
| 79 T | Naphthalene               | 10.000 | 12.009 | -20.1 | 94    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 9.981  | 0.2   | 92    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 11.229 | -12.3 | 93    | 0.00     |

(#) = Out of Range

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