

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL102418\  
 Data File : VL032697.D  
 Acq On : 25 Oct 2018 9:57  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Oct 25 22:03:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL101818AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Oct 25 05:15:43 2018  
 QLast Update : Thu Oct 25 05:15:43 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   | 83    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 7.026  | 29.7  | 88    | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 9.240  | 7.6   | 89    | 0.00     |
| 4    | Chloromethane               | 10.000 | 9.493  | 5.1   | 91    | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 8.895  | 11.1  | 90    | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 9.018  | 9.8   | 90    | 0.00     |
| 7    | Chloroethane                | 10.000 | 9.026  | 9.7   | 90    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 9.190  | 8.1   | 89    | 0.00     |
| 9 T  | Propene                     | 10.000 | 9.955  | 0.4   | 91    | 0.00     |
| 10 T | Heptane                     | 10.000 | 10.755 | -7.6  | 95    | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 7.913  | 20.9  | 86    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 6.935  | 30.7# | 63    | 0.00     |
| 13   | Ethanol                     | 10.000 | 9.346  | 6.5   | 90    | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 9.014  | 9.9   | 87    | 0.00     |
| 15 T | Acetone                     | 10.000 | 7.847  | 21.5  | 89    | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 10.457 | -4.6  | 97    | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 8.653  | 13.5  | 59    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 7.388  | 26.1  | 63    | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 8.820  | 11.8  | 85    | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 6.569  | 34.3# | 62    | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 7.799  | 22.0  | 64    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 8.876  | 11.2  | 78    | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 10.760 | -7.6  | 94    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 9.817  | 1.8   | 91    | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 9.934  | 0.7   | 89    | 0.00     |
| 26 T | Hexane                      | 10.000 | 9.653  | 3.5   | 87    | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 10.912 | -9.1  | 90    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 10.605 | -6.1  | 91    | 0.00     |
| 29 T | Chloroform                  | 10.000 | 9.443  | 5.6   | 87    | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 10.972 | -9.7  | 93    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 10.906 | -9.1  | 91    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.773  | 2.3   | 92    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 89    | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 10.041 | -0.4  | 94    | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 9.525  | 4.7   | 90    | 0.00     |
| 36 T | Benzene                     | 10.000 | 9.993  | 0.1   | 91    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 9.758  | 2.4   | 89    | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 10.856 | -8.6  | 96    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 10.091 | -0.9  | 93    | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 9.938  | 0.6   | 88    | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 10.476 | -4.8  | 89    | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 9.887  | 1.1   | 91    | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 11.230 | -12.3 | 93    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 10.080 | -0.8  | 93    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 11.528 | -15.3 | 86    | 0.00     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL102418\  
 Data File : VL032697.D  
 Acq On : 25 Oct 2018 9:57  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Oct 25 22:03:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL101818AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Oct 25 05:15:43 2018  
 QLast Update : Thu Oct 25 05:15:43 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 | 11.333 | -13.3   | 91    | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 10.000 | 10.095 | -1.0    | 93    | 0.00     |
| 48 T | Dibromochloromethane      | 10.000 | 10.838 | -8.4    | 94    | 0.00     |
| 49 T | Bromoform                 | 10.000 | 10.559 | -5.6    | 92    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 10.158 | -1.6    | 91    | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 11.742 | -17.4   | 94    | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 10.384 | -3.8    | 95    | 0.00     |
| 53 T | Toluene                   | 10.000 | 11.354 | -13.5   | 95    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 10.437 | -4.4    | 85    | 0.00     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0     | 90    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 9.450  | 5.5     | 93    | 0.00     |
| 57 T | Chlorobenzene             | 10.000 | 9.563  | 4.4     | 94    | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 10.739 | -7.4    | 93    | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 20.114 | -0.6    | 93    | 0.00     |
| 60 T | o-Xylene                  | 10.000 | 9.900  | 1.0     | 92    | 0.00     |
| 61 T | Styrene                   | 10.000 | 11.315 | -13.1   | 93    | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 9.833  | 1.7     | 93    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 8.658  | 13.4    | 90    | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 10.129 | -1.3    | 92    | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 9.782  | 2.2     | 91    | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 11.095 | -11.0   | 89    | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 9.664  | 3.4     | 91    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 9.741  | 2.6     | 87    | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 9.885  | 1.2     | 91    | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 9.695  | 3.0     | 88    | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 10.254 | -2.5    | 92    | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 10.587 | -5.9    | 93    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 10.134 | -1.3    | 92    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 9.640  | 3.6     | 92    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 9.381  | 6.2     | 91    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 10.100 | -1.0    | 93    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 9.349  | 6.5     | 90    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 12.541 | -25.4   | 144   | 0.00     |
| 79 T | Naphthalene               | 10.000 | 12.839 | -28.4   | 99    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 21.808 | -118.1# | 110   | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 12.333 | -23.3   | 98    | 0.00     |

(#) = Out of Range

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