

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL020620\  
 Data File : VL034601.D  
 Acq On : 6 Feb 2020 14:41  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Feb 07 07:48:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Jan 30 17:16:44 2020  
 QLast Update : Thu Jan 30 17:16:44 2020  
 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   | 90    | 0.03     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 8.424  | 15.8  | 89    | 0.02     |
| 3    | Chlorodifluoromethane       | 10.000 | 9.211  | 7.9   | 93    | 0.02     |
| 4    | Chloromethane               | 10.000 | 9.092  | 9.1   | 93    | 0.02     |
| 5 T  | Vinyl Chloride              | 10.000 | 9.084  | 9.2   | 93    | 0.02     |
| 6 T  | Bromomethane                | 10.000 | 9.637  | 3.6   | 95    | 0.02     |
| 7    | Chloroethane                | 10.000 | 9.762  | 2.4   | 98    | 0.02     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 9.306  | 6.9   | 98    | 0.02     |
| 9 T  | Propene                     | 10.000 | 9.088  | 9.1   | 91    | 0.02     |
| 10 T | Heptane                     | 10.000 | 9.996  | 0.0   | 91    | 0.03     |
| 11 T | Trichlorofluoromethane      | 10.000 | 9.588  | 4.1   | 99    | 0.02     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 9.673  | 3.3   | 98    | 0.02     |
| 13   | Ethanol                     | 10.000 | 7.886  | 21.1  | 91    | 0.02     |
| 14 T | Bromoethene                 | 10.000 | 9.957  | 0.4   | 96    | 0.02     |
| 15 T | Acetone                     | 10.000 | 8.917  | 10.8  | 96    | 0.02     |
| 16 T | 1,3-Butadiene               | 10.000 | 9.961  | 0.4   | 94    | 0.02     |
| 17   | tert-Butyl alcohol          | 10.000 | 10.554 | -5.5  | 100   | 0.02     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 10.103 | -1.0  | 98    | 0.03     |
| 19 T | Isopropyl Alcohol           | 10.000 | 9.777  | 2.2   | 96    | 0.02     |
| 20 T | Methylene Chloride          | 10.000 | 8.868  | 11.3  | 98    | 0.03     |
| 21 T | Allyl Chloride              | 10.000 | 10.216 | -2.2  | 98    | 0.02     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 10.201 | -2.0  | 100   | 0.02     |
| 23 T | Vinyl Acetate               | 10.000 | 9.697  | 3.0   | 91    | 0.03     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 9.373  | 6.3   | 93    | 0.02     |
| 25 T | Ethyl Acetate               | 10.000 | 9.207  | 7.9   | 91    | 0.03     |
| 26 T | Hexane                      | 10.000 | 9.507  | 4.9   | 93    | 0.03     |
| 27 T | Carbon Disulfide            | 10.000 | 10.822 | -8.2  | 97    | 0.02     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 9.779  | 2.2   | 94    | 0.03     |
| 29 T | Chloroform                  | 10.000 | 9.315  | 6.9   | 94    | 0.02     |
| 30 T | Cyclohexane                 | 10.000 | 10.286 | -2.9  | 94    | 0.02     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 9.904  | 1.0   | 93    | 0.03     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.202  | 8.0   | 96    | 0.03     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 91    | 0.03     |
| 34 T | 2-Butanone                  | 10.000 | 9.352  | 6.5   | 92    | 0.02     |
| 35 T | Carbon Tetrachloride        | 10.000 | 9.688  | 3.1   | 96    | 0.03     |
| 36 T | Benzene                     | 10.000 | 9.719  | 2.8   | 92    | 0.03     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 9.749  | 2.5   | 97    | 0.03     |
| 38 T | Trichloroethene             | 10.000 | 10.276 | -2.8  | 94    | 0.03     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.660  | 3.4   | 94    | 0.03     |
| 40 T | 1,4-Dioxane                 | 10.000 | 9.518  | 4.8   | 91    | 0.03     |
| 41 T | Tetrahydrofuran             | 10.000 | 9.579  | 4.2   | 90    | 0.03     |
| 42 T | Bromodichloromethane        | 10.000 | 9.843  | 1.6   | 95    | 0.03     |
| 43   | Methyl Methacrylate         | 10.000 | 10.500 | -5.0  | 95    | 0.03     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 9.655  | 3.5   | 93    | 0.03     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 11.437 | -14.4 | 93    | 0.03     |

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 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|---------------------------|--------|--------|--------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 10.000 | 10.969 | -9.7   | 92    | 0.03     |
| 47 T | 1,1,2-Trichloroethane     | 10.000 | 9.704  | 3.0    | 94    | 0.03     |
| 48 T | Dibromochloromethane      | 10.000 | 10.437 | -4.4   | 94    | 0.03     |
| 49 T | Bromoform                 | 10.000 | 10.780 | -7.8   | 95    | 0.04     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 9.939  | 0.6    | 93    | 0.03     |
| 51 T | 2-Hexanone                | 10.000 | 10.384 | -3.8   | 92    | 0.03     |
| 52 T | Tetrachloroethene         | 10.000 | 9.647  | 3.5    | 94    | 0.03     |
| 53 T | Toluene                   | 10.000 | 10.517 | -5.2   | 93    | 0.03     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 9.841  | 1.6    | 94    | 0.04     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0    | 92    | 0.04     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 9.489  | 5.1    | 95    | 0.03     |
| 57 T | Chlorobenzene             | 10.000 | 9.155  | 8.5    | 94    | 0.03     |
| 58 T | Ethyl Benzene             | 10.000 | 9.862  | 1.4    | 94    | 0.04     |
| 59 T | m/p-Xylene                | 20.000 | 18.814 | 5.9    | 93    | 0.04     |
| 60 T | o-Xylene                  | 10.000 | 9.624  | 3.8    | 95    | 0.03     |
| 61 T | Styrene                   | 10.000 | 10.357 | -3.6   | 93    | 0.03     |
| 62   | Isopropylbenzene          | 10.000 | 9.572  | 4.3    | 95    | 0.04     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 8.657  | 13.4   | 94    | 0.03     |
| 64   | n-propylbenzene           | 10.000 | 9.616  | 3.8    | 93    | 0.04     |
| 65   | tert-Butylbenzene         | 10.000 | 9.549  | 4.5    | 95    | 0.04     |
| 66 T | Benzyl Chloride           | 10.000 | 11.219 | -12.2  | 94    | 0.04     |
| 67   | sec-Butylbenzene          | 10.000 | 9.356  | 6.4    | 95    | 0.04     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 9.860  | 1.4    | 93    | 0.04     |
| 69   | p-Isopropyltoluene        | 10.000 | 9.623  | 3.8    | 94    | 0.04     |
| 70   | n-Butylbenzene            | 10.000 | 9.508  | 4.9    | 96    | 0.04     |
| 71   | 2-Chlorotoluene           | 10.000 | 9.708  | 2.9    | 93    | 0.04     |
| 72 T | 4-Ethyltoluene            | 10.000 | 9.809  | 1.9    | 95    | 0.04     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 9.711  | 2.9    | 95    | 0.04     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 9.284  | 7.2    | 97    | 0.04     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 8.947  | 10.5   | 95    | 0.04     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 8.915  | 10.9   | 93    | 0.04     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 8.829  | 11.7   | 94    | 0.04     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 8.305  | 17.0   | 92    | 0.04     |
| 79 T | Naphthalene               | 10.000 | 9.838  | 1.6    | 95    | 0.04     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 13.276 | -32.8# | 105   | 0.03     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 9.581  | 4.2    | 95    | 0.04     |

(#) = Out of Range

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