

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL120122\  
 Data File : VL039936.D  
 Acq On : 1 Dec 2022 9:19  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Dec 02 05:22:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL111822AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Nov 22 03:45:31 2022  
 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   | 79    | 0.02     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 12.002 | -20.0 | 128   | 0.01     |
| 3    | Chlorodifluoromethane       | 10.000 | 8.754  | 12.5  | 74    | 0.01     |
| 4    | Chloromethane               | 10.000 | 8.682  | 13.2  | 70    | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 9.688  | 3.1   | 71    | 0.01     |
| 6 T  | Bromomethane                | 10.000 | 9.520  | 4.8   | 74    | 0.01     |
| 7    | Chloroethane                | 10.000 | 8.694  | 13.1  | 70    | 0.01     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 9.607  | 3.9   | 81    | 0.00     |
| 9 T  | Propene                     | 10.000 | 8.557  | 14.4  | 69    | 0.00     |
| 10 T | Heptane                     | 10.000 | 8.820  | 11.8  | 71    | 0.02     |
| 11 T | Trichlorofluoromethane      | 10.000 | 9.066  | 9.3   | 75    | 0.01     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 9.239  | 7.6   | 76    | 0.02     |
| 13   | Ethanol                     | 10.000 | 8.126  | 18.7  | 73    | 0.01     |
| 14 T | Bromoethene                 | 10.000 | 9.655  | 3.5   | 75    | 0.02     |
| 15 T | Acetone                     | 10.000 | 8.758  | 12.4  | 73    | 0.01     |
| 16 T | 1,3-Butadiene               | 10.000 | 8.991  | 10.1  | 67    | 0.01     |
| 17   | tert-Butyl alcohol          | 10.000 | 8.736  | 12.6  | 67    | 0.01     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 9.115  | 8.8   | 74    | 0.02     |
| 19 T | Isopropyl Alcohol           | 10.000 | 9.052  | 9.5   | 69    | 0.01     |
| 20 T | Methylene Chloride          | 10.000 | 7.399  | 26.0  | 75    | 0.02     |
| 21 T | Allyl Chloride              | 10.000 | 9.214  | 7.9   | 71    | 0.02     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 9.354  | 6.5   | 74    | 0.02     |
| 23 T | Vinyl Acetate               | 10.000 | 9.506  | 4.9   | 74    | 0.01     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 9.003  | 10.0  | 73    | 0.01     |
| 25 T | Ethyl Acetate               | 10.000 | 9.959  | 0.4   | 80    | 0.02     |
| 26 T | Hexane                      | 10.000 | 9.935  | 0.6   | 81    | 0.02     |
| 27 T | Carbon Disulfide            | 10.000 | 10.552 | -5.5  | 74    | 0.02     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 8.885  | 11.2  | 71    | 0.02     |
| 29 T | Chloroform                  | 10.000 | 11.648 | -16.5 | 88    | 0.02     |
| 30 T | Cyclohexane                 | 10.000 | 8.900  | 11.0  | 73    | 0.02     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 9.371  | 6.3   | 72    | 0.02     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.724  | 2.8   | 78    | 0.02     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 77    | 0.02     |
| 34 T | 2-Butanone                  | 10.000 | 10.121 | -1.2  | 72    | 0.02     |
| 35 T | Carbon Tetrachloride        | 10.000 | 11.125 | -11.3 | 78    | 0.02     |
| 36 T | Benzene                     | 10.000 | 9.662  | 3.4   | 73    | 0.02     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 10.008 | -0.1  | 76    | 0.02     |
| 38 T | Trichloroethene             | 10.000 | 9.866  | 1.3   | 76    | 0.02     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.462  | 5.4   | 71    | 0.02     |
| 40 T | 1,4-Dioxane                 | 10.000 | 10.156 | -1.6  | 78    | 0.02     |
| 41 T | Tetrahydrofuran             | 10.000 | 9.993  | 0.1   | 71    | 0.02     |
| 42 T | Bromodichloromethane        | 10.000 | 10.801 | -8.0  | 76    | 0.02     |
| 43   | Methyl Methacrylate         | 10.000 | 10.122 | -1.2  | 72    | 0.02     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 9.457  | 5.4   | 73    | 0.02     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 11.134 | -11.3 | 70    | 0.02     |
| 46 T | cis-1,3-Dichloropropene     | 10.000 | 10.432 | -4.3  | 72    | 0.02     |
| 47 T | 1,1,2-Trichloroethane       | 10.000 | 9.942  | 0.6   | 76    | 0.02     |
| 48 T | Dibromochloromethane        | 10.000 | 11.712 | -17.1 | 78    | 0.02     |

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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) |
|------|---------------------------|--------|--------|-------|-------|----------|
| 49 T | Bromoform                 | 10.000 | 11.855 | -18.6 | 74    | 0.02     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 9.746  | 2.5   | 71    | 0.02     |
| 51 T | 2-Hexanone                | 10.000 | 9.998  | 0.0   | 71    | 0.02     |
| 52 T | Tetrachloroethene         | 10.000 | 9.205  | 7.9   | 72    | 0.02     |
| 53 T | Toluene                   | 10.000 | 9.812  | 1.9   | 74    | 0.02     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 10.887 | -8.9  | 77    | 0.02     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0   | 74    | 0.02     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 10.732 | -7.3  | 77    | 0.02     |
| 57 T | Chlorobenzene             | 10.000 | 10.226 | -2.3  | 77    | 0.02     |
| 58 T | Ethyl Benzene             | 10.000 | 10.012 | -0.1  | 75    | 0.02     |
| 59 T | m/p-Xylene                | 20.000 | 20.170 | -0.9  | 77    | 0.02     |
| 60 T | o-Xylene                  | 10.000 | 10.021 | -0.2  | 76    | 0.02     |
| 61 T | Styrene                   | 10.000 | 10.556 | -5.6  | 75    | 0.03     |
| 62   | Isopropylbenzene          | 10.000 | 10.078 | -0.8  | 77    | 0.02     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 10.394 | -3.9  | 76    | 0.02     |
| 64   | n-propylbenzene           | 10.000 | 10.178 | -1.8  | 75    | 0.03     |
| 65   | tert-Butylbenzene         | 10.000 | 9.996  | 0.0   | 77    | 0.02     |
| 66 T | Benzyl Chloride           | 10.000 | 11.028 | -10.3 | 62    | 0.02     |
| 67   | sec-Butylbenzene          | 10.000 | 10.080 | -0.8  | 78    | 0.02     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 9.850  | 1.5   | 74    | 0.02     |
| 69   | p-Isopropyltoluene        | 10.000 | 10.076 | -0.8  | 77    | 0.02     |
| 70   | n-Butylbenzene            | 10.000 | 10.169 | -1.7  | 77    | 0.02     |
| 71   | 2-Chlorotoluene           | 10.000 | 10.089 | -0.9  | 76    | 0.02     |
| 72 T | 4-Ethyltoluene            | 10.000 | 10.464 | -4.6  | 76    | 0.02     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 10.169 | -1.7  | 77    | 0.02     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 10.196 | -2.0  | 77    | 0.02     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 10.239 | -2.4  | 74    | 0.02     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 10.066 | -0.7  | 73    | 0.03     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 10.209 | -2.1  | 76    | 0.02     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 8.659  | 13.4  | 71    | 0.02     |
| 79 T | Naphthalene               | 10.000 | 10.916 | -9.2  | 74    | 0.02     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 11.145 | -11.4 | 81    | 0.02     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 9.658  | 3.4   | 71    | 0.02     |

(#) = Out of Range

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