

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040722\  
 Data File : VL038834.D  
 Acq On : 7 Apr 2022 9:40  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Apr 08 06:52:48 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Apr 06 06:12:53 2022  
 QLast Update : Wed Apr 06 06:12:53 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                    | AvqRF | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000  | 0.0   | 86    | 0.01     |
| 2 T  | Dichlorodifluoromethane     | 1.418 | 1.511  | -6.6  | 101   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.220 | 1.219  | 0.1   | 91    | 0.00     |
| 4    | Chloromethane               | 0.632 | 0.619  | 2.1   | 88    | 0.01     |
| 5 T  | Vinyl Chloride              | 0.584 | 0.562  | 3.8   | 86    | 0.01     |
| 6 T  | Bromomethane                | 0.283 | 0.283  | 0.0   | 90    | 0.01     |
| 7    | Chloroethane                | 0.195 | 0.195  | 0.0   | 86    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.325 | 1.351  | -2.0  | 94    | 0.00     |
| 9 T  | Propene                     | 0.646 | 0.638  | 1.2   | 88    | 0.00     |
| 10 T | Heptane                     | 1.626 | 1.602  | 1.5   | 90    | 0.02     |
| 11 T | Trichlorofluoromethane      | 1.140 | 1.177  | -3.2  | 92    | 0.01     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 0.873 | 0.932  | -6.8  | 97    | 0.01     |
| 13   | Ethanol                     | 0.039 | 0.039# | 0.0   | 98    | 0.00     |
| 14 T | Bromoethene                 | 0.384 | 0.395  | -2.9  | 95    | 0.01     |
| 15 T | Acetone                     | 0.996 | 0.943  | 5.3   | 91    | 0.01     |
| 16 T | 1,3-Butadiene               | 0.569 | 0.561  | 1.4   | 88    | 0.01     |
| 17   | tert-Butyl alcohol          | 0.893 | 0.901  | -0.9  | 86    | 0.01     |
| 18 T | 1,1-Dichloroethene          | 0.398 | 0.413  | -3.8  | 96    | 0.01     |
| 19 T | Isopropyl Alcohol           | 0.509 | 0.531  | -4.3  | 91    | 0.01     |
| 20 T | Methylene Chloride          | 0.361 | 0.328  | 9.1   | 85    | 0.01     |
| 21 T | Allyl Chloride              | 0.745 | 0.741  | 0.5   | 91    | 0.01     |
| 22 T | trans-1,2-Dichloroethene    | 0.403 | 0.446  | -10.7 | 93    | 0.00     |
| 23 T | Vinyl Acetate               | 0.970 | 1.055  | -8.8  | 96    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 0.876 | 0.915  | -4.5  | 91    | 0.01     |
| 25 T | Ethyl Acetate               | 2.526 | 2.541  | -0.6  | 88    | 0.01     |
| 26 T | Hexane                      | 1.150 | 1.123  | 2.3   | 90    | 0.01     |
| 27 T | Carbon Disulfide            | 1.054 | 1.147  | -8.8  | 93    | 0.02     |
| 28 T | Methyl tert-Butyl Ether     | 0.888 | 0.881  | 0.8   | 87    | 0.02     |
| 29 T | Chloroform                  | 1.609 | 1.672  | -3.9  | 94    | 0.01     |
| 30 T | Cyclohexane                 | 1.013 | 0.987  | 2.6   | 91    | 0.02     |
| 31 T | cis-1,2-Dichloroethene      | 1.057 | 1.046  | 1.0   | 89    | 0.01     |
| 32 T | 1,1,1-Trichloroethane       | 1.621 | 1.673  | -3.2  | 93    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 86    | 0.01     |
| 34 T | 2-Butanone                  | 0.395 | 0.401  | -1.5  | 89    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.600 | 0.622  | -3.7  | 93    | 0.01     |
| 36 T | Benzene                     | 0.910 | 0.901  | 1.0   | 92    | 0.01     |
| 37 T | 1,2-Dichloroethane          | 0.416 | 0.446  | -7.2  | 94    | 0.01     |
| 38 T | Trichloroethene             | 0.373 | 0.347  | 7.0   | 88    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.348 | 0.350  | -0.6  | 92    | 0.02     |
| 40 T | 1,4-Dioxane                 | 0.118 | 0.108  | 8.5   | 92    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.375 | 0.376  | -0.3  | 90    | 0.01     |
| 42 T | Bromodichloromethane        | 0.657 | 0.688  | -4.7  | 94    | 0.02     |
| 43   | Methyl Methacrylate         | 0.348 | 0.364  | -4.6  | 90    | 0.02     |
| 44 T | 2,2,4-Trimethylpentane      | 1.540 | 1.479  | 4.0   | 91    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.364 | 0.390  | -7.1  | 84    | 0.01     |

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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                  | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|------|---------------------------|-------|-------|------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 0.480 | 0.493 | -2.7 | 86    | 0.02     |
| 47 T | 1,1,2-Trichloroethane     | 0.357 | 0.357 | 0.0  | 91    | 0.01     |
| 48 T | Dibromochloromethane      | 0.559 | 0.578 | -3.4 | 89    | 0.01     |
| 49 T | Bromoform                 | 0.443 | 0.458 | -3.4 | 89    | 0.02     |
| 50 T | 4-Methyl-2-Pentanone      | 0.889 | 0.922 | -3.7 | 90    | 0.01     |
| 51 T | 2-Hexanone                | 0.670 | 0.704 | -5.1 | 88    | 0.02     |
| 52 T | Tetrachloroethene         | 0.318 | 0.296 | 6.9  | 89    | 0.01     |
| 53 T | Toluene                   | 1.050 | 1.035 | 1.4  | 92    | 0.01     |
| 54 T | 1,2-Dibromoethane         | 0.495 | 0.515 | -4.0 | 92    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0  | 88    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.438 | 0.436 | 0.5  | 91    | 0.02     |
| 57 T | Chlorobenzene             | 0.819 | 0.794 | 3.1  | 90    | 0.01     |
| 58 T | Ethyl Benzene             | 1.494 | 1.481 | 0.9  | 93    | 0.01     |
| 59 T | m/p-Xylene                | 1.255 | 1.225 | 2.4  | 93    | 0.00     |
| 60 T | o-Xylene                  | 1.175 | 1.142 | 2.8  | 93    | 0.00     |
| 61 T | Styrene                   | 0.716 | 0.731 | -2.1 | 90    | 0.01     |
| 62   | Isopropylbenzene          | 1.763 | 1.684 | 4.5  | 91    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.744 | 0.735 | 1.2  | 94    | 0.01     |
| 64   | n-propylbenzene           | 0.458 | 0.449 | 2.0  | 89    | 0.01     |
| 65   | tert-Butylbenzene         | 1.564 | 1.440 | 7.9  | 89    | 0.01     |
| 66 T | Benzyl Chloride           | 0.318 | 0.265 | 16.7 | 59    | 0.00     |
| 67   | sec-Butylbenzene          | 2.195 | 2.076 | 5.4  | 91    | 0.01     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.759 | 0.769 | -1.3 | 88    | 0.00     |
| 69   | p-Isopropyltoluene        | 1.802 | 1.742 | 3.3  | 90    | 0.00     |
| 70   | n-Butylbenzene            | 1.816 | 1.852 | -2.0 | 94    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.326 | 1.317 | 0.7  | 93    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.403 | 1.404 | -0.1 | 90    | 0.01     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.260 | 1.261 | -0.1 | 91    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.332 | 1.288 | 3.3  | 92    | 0.01     |
| 75 T | 1,3-Dichlorobenzene       | 0.773 | 0.754 | 2.5  | 89    | 0.01     |
| 76 T | 1,4-Dichlorobenzene       | 0.762 | 0.734 | 3.7  | 88    | 0.01     |
| 77 T | 1,2-Dichlorobenzene       | 0.762 | 0.731 | 4.1  | 88    | 0.01     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.602 | 0.505 | 16.1 | 87    | 0.01     |
| 79 T | Naphthalene               | 0.996 | 1.049 | -5.3 | 85    | 0.01     |
| 80 T | Naphthalene,2-methyl-     | 0.246 | 0.257 | -4.5 | 76    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.583 | 0.574 | 1.5  | 88    | 0.00     |

(#) = Out of Range

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