

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL040725\  
 Data File : VL042228.D  
 Acq On : 07 Apr 2025 09:31  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Apr 08 01:50:24 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 02:00:52 2025  
 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   | 102   | 0.02     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 9.718  | 2.8   | 104   | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 9.530  | 4.7   | 100   | 0.00     |
| 4    | Chloromethane               | 10.000 | 9.649  | 3.5   | 104   | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 8.363  | 16.4  | 99    | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 9.162  | 8.4   | 100   | 0.00     |
| 7    | Chloroethane                | 10.000 | 8.972  | 10.3  | 97    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 9.627  | 3.7   | 102   | 0.00     |
| 9 T  | Propene                     | 10.000 | 7.852  | 21.5  | 84    | 0.00     |
| 10 T | Heptane                     | 10.000 | 8.770  | 12.3  | 92    | 0.04     |
| 11 T | Trichlorofluoromethane      | 10.000 | 9.563  | 4.4   | 105   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 9.331  | 6.7   | 100   | 0.01     |
| 13   | Ethanol                     | 10.000 | 4.979  | 50.2# | 116   | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 8.465  | 15.4  | 94    | 0.00     |
| 15 T | Acetone                     | 10.000 | 8.621  | 13.8  | 110   | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 8.419  | 15.8  | 102   | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 8.492  | 15.1  | 93    | 0.01     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 8.960  | 10.4  | 100   | 0.01     |
| 19 T | Isopropyl Alcohol           | 10.000 | 8.793  | 12.1  | 101   | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 8.103  | 19.0  | 98    | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 8.938  | 10.6  | 100   | 0.01     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 8.705  | 13.0  | 96    | 0.01     |
| 23 T | Vinyl Acetate               | 10.000 | 8.497  | 15.0  | 105   | 0.01     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 9.328  | 6.7   | 100   | 0.01     |
| 25 T | Ethyl Acetate               | 10.000 | 9.143  | 8.6   | 98    | 0.02     |
| 26 T | Hexane                      | 10.000 | 9.046  | 9.5   | 97    | 0.02     |
| 27 T | Carbon Disulfide            | 10.000 | 9.155  | 8.5   | 98    | 0.01     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 8.740  | 12.6  | 94    | 0.01     |
| 29 T | Chloroform                  | 10.000 | 10.178 | -1.8  | 110   | 0.02     |
| 30 T | Cyclohexane                 | 10.000 | 8.816  | 11.8  | 94    | 0.02     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 9.085  | 9.1   | 96    | 0.02     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.162  | 8.4   | 106   | 0.02     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 94    | 0.03     |
| 34 T | 2-Butanone                  | 10.000 | 9.632  | 3.7   | 99    | 0.02     |
| 35 T | Carbon Tetrachloride        | 10.000 | 10.613 | -6.1  | 111   | 0.02     |
| 36 T | Benzene                     | 10.000 | 9.636  | 3.6   | 96    | 0.02     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 10.772 | -7.7  | 107   | 0.02     |
| 38 T | Trichloroethene             | 10.000 | 9.512  | 4.9   | 99    | 0.03     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.472  | 5.3   | 96    | 0.03     |
| 40 T | 1,4-Dioxane                 | 10.000 | 8.803  | 12.0  | 94    | 0.03     |
| 41 T | Tetrahydrofuran             | 10.000 | 9.290  | 7.1   | 92    | 0.02     |
| 42 T | Bromodichloromethane        | 10.000 | 10.721 | -7.2  | 103   | 0.03     |
| 43   | Methyl Methacrylate         | 10.000 | 8.605  | 13.9  | 85    | 0.04     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 9.584  | 4.2   | 94    | 0.03     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 8.718  | 12.8  | 84    | 0.04     |
| 46 T | cis-1,3-Dichloropropene     | 10.000 | 8.888  | 11.1  | 84    | 0.04     |
| 47 T | 1,1,2-Trichloroethane       | 10.000 | 10.239 | -2.4  | 101   | 0.04     |
| 48 T | Dibromochloromethane        | 10.000 | 10.438 | -4.4  | 100   | 0.03     |

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

|       | Compound                  | Amount | Calc.  | %Dev | Area% | Dev(min) |
|-------|---------------------------|--------|--------|------|-------|----------|
| ----- |                           |        |        |      |       |          |
| 49 T  | Bromoform                 | 10.000 | 9.932  | 0.7  | 93    | 0.02     |
| 50 T  | 4-Methyl-2-Pentanone      | 10.000 | 8.665  | 13.4 | 91    | 0.04     |
| 51 T  | 2-Hexanone                | 10.000 | 8.501  | 15.0 | 90    | 0.03     |
| 52 T  | Tetrachloroethene         | 10.000 | 8.322  | 16.8 | 90    | 0.03     |
| 53 T  | Toluene                   | 10.000 | 9.286  | 7.1  | 91    | 0.03     |
| 54 T  | 1,2-Dibromoethane         | 10.000 | 10.154 | -1.5 | 100   | 0.03     |
|       |                           |        |        |      |       |          |
| 55 I  | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0  | 89    | 0.03     |
| 56    | 1,1,1,2-Tetrachloroethane | 10.000 | 10.722 | -7.2 | 103   | 0.03     |
| 57 T  | Chlorobenzene             | 10.000 | 10.368 | -3.7 | 101   | 0.02     |
| 58 T  | Ethyl Benzene             | 10.000 | 9.888  | 1.1  | 94    | 0.02     |
| 59 T  | m/p-Xylene                | 20.000 | 20.698 | -3.5 | 99    | 0.02     |
| 60 T  | o-Xylene                  | 10.000 | 10.284 | -2.8 | 98    | 0.02     |
| 61 T  | Styrene                   | 10.000 | 9.635  | 3.7  | 89    | 0.02     |
| 62    | Isopropylbenzene          | 10.000 | 10.265 | -2.7 | 99    | 0.02     |
| 63 T  | 1,1,2,2-Tetrachloroethane | 10.000 | 10.651 | -6.5 | 103   | 0.02     |
| 64    | n-propylbenzene           | 10.000 | 10.429 | -4.3 | 102   | 0.02     |
| 65    | tert-Butylbenzene         | 10.000 | 10.171 | -1.7 | 103   | 0.02     |
| 66 T  | Benzyl Chloride           | 10.000 | 7.452  | 25.5 | 69    | 0.02     |
| 67    | sec-Butylbenzene          | 10.000 | 10.229 | -2.3 | 104   | 0.02     |
| 68 S  | 1-Bromo-4-Fluorobenzene   | 10.000 | 9.971  | 0.3  | 90    | 0.02     |
| 69    | p-Isopropyltoluene        | 10.000 | 10.324 | -3.2 | 105   | 0.02     |
| 70    | n-Butylbenzene            | 10.000 | 10.428 | -4.3 | 105   | 0.02     |
| 71    | 2-Chlorotoluene           | 10.000 | 10.274 | -2.7 | 99    | 0.02     |
| 72 T  | 4-Ethyltoluene            | 10.000 | 10.422 | -4.2 | 101   | 0.02     |
| 73 T  | 1,3,5-Trimethylbenzene    | 10.000 | 10.239 | -2.4 | 102   | 0.02     |
| 74 T  | 1,2,4-Trimethylbenzene    | 10.000 | 9.935  | 0.6  | 105   | 0.02     |
| 75 T  | 1,3-Dichlorobenzene       | 10.000 | 10.703 | -7.0 | 106   | 0.02     |
| 76 T  | 1,4-Dichlorobenzene       | 10.000 | 10.821 | -8.2 | 106   | 0.02     |
| 77 T  | 1,2-Dichlorobenzene       | 10.000 | 10.873 | -8.7 | 109   | 0.02     |
| 78 T  | Hexachloro-1,3-Butadiene  | 10.000 | 8.646  | 13.5 | 93    | 0.02     |
| 79 T  | Naphthalene               | 10.000 | 10.570 | -5.7 | 102   | 0.02     |
| 80 T  | Naphthalene,2-methyl-     | 10.000 | 10.419 | -4.2 | 90    | 0.02     |
| 81 T  | 1,2,4-Trichlorobenzene    | 10.000 | 9.886  | 1.1  | 92    | 0.02     |
| ----- |                           |        |        |      |       |          |

(#) = Out of Range

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