

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101123\  
 Data File : VL040761.D  
 Acq On : 11 Oct 2023 16:45  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101123

Quant Time: Oct 11 19:02:02 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101123AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 11 16:25:15 2023  
 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                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0  | 87    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.761 | 1.705 | 3.2  | 89    | 0.01     |
| 3    | Chlorodifluoromethane       | 1.470 | 1.395 | 5.1  | 88    | 0.01     |
| 4    | Chloromethane               | 0.580 | 0.552 | 4.8  | 87    | 0.01     |
| 5 T  | Vinyl Chloride              | 0.600 | 0.573 | 4.5  | 89    | 0.01     |
| 6 T  | Bromomethane                | 0.248 | 0.219 | 11.7 | 80    | 0.00     |
| 7    | Chloroethane                | 0.195 | 0.193 | 1.0  | 87    | 0.01     |
| 8 T  | Dichlorotetrafluoroethane   | 1.335 | 1.309 | 1.9  | 89    | 0.01     |
| 9 T  | Propene                     | 0.546 | 0.531 | 2.7  | 89    | 0.01     |
| 10 T | Heptane                     | 1.371 | 1.295 | 5.5  | 88    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.359 | 1.326 | 2.4  | 89    | 0.01     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 0.969 | 0.927 | 4.3  | 86    | 0.00     |
| 13   | Ethanol                     | 0.123 | 0.097 | 21.1 | 77    | 0.00     |
| 14 T | Bromoethene                 | 0.415 | 0.416 | -0.2 | 87    | 0.01     |
| 15 T | Acetone                     | 1.034 | 0.934 | 9.7  | 86    | 0.01     |
| 16 T | 1,3-Butadiene               | 0.542 | 0.548 | -1.1 | 87    | 0.01     |
| 17   | tert-Butyl alcohol          | 1.060 | 1.135 | -7.1 | 88    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.434 | 0.425 | 2.1  | 88    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.665 | 0.708 | -6.5 | 91    | 0.00     |
| 20 T | Methylene Chloride          | 0.431 | 0.356 | 17.4 | 89    | 0.00     |
| 21 T | Allyl Chloride              | 0.682 | 0.657 | 3.7  | 82    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.462 | 0.451 | 2.4  | 87    | 0.00     |
| 23 T | Vinyl Acetate               | 1.317 | 1.145 | 13.1 | 79    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 0.994 | 0.925 | 6.9  | 86    | 0.00     |
| 25 T | Ethyl Acetate               | 2.265 | 2.139 | 5.6  | 87    | 0.00     |
| 26 T | Hexane                      | 1.035 | 0.957 | 7.5  | 88    | 0.00     |
| 27 T | Carbon Disulfide            | 1.142 | 1.109 | 2.9  | 85    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.805 | 0.736 | 8.6  | 83    | 0.00     |
| 29 T | Chloroform                  | 1.498 | 1.447 | 3.4  | 90    | 0.00     |
| 30 T | Cyclohexane                 | 0.881 | 0.841 | 4.5  | 88    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 0.954 | 0.950 | 0.4  | 90    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.594 | 1.482 | 7.0  | 88    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0  | 90    | 0.00     |
| 34 T | 2-Butanone                  | 0.453 | 0.464 | -2.4 | 107   | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.561 | 0.557 | 0.7  | 90    | 0.00     |
| 36 T | Benzene                     | 0.769 | 0.742 | 3.5  | 88    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.394 | 0.392 | 0.5  | 88    | 0.00     |
| 38 T | Trichloroethene             | 0.340 | 0.287 | 15.6 | 87    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.301 | 0.286 | 5.0  | 86    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.114 | 0.120 | -5.3 | 94    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.313 | 0.306 | 2.2  | 86    | 0.00     |
| 42 T | Bromodichloromethane        | 0.590 | 0.587 | 0.5  | 89    | 0.00     |
| 43   | Methyl Methacrylate         | 0.308 | 0.305 | 1.0  | 87    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.301 | 1.211 | 6.9  | 87    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.246 | 0.225 | 8.5  | 74    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.300 | 0.265 | 11.7 | 75    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.316 | 0.301 | 4.7  | 88    | 0.00     |
| 48 T | Dibromochloromethane        | 0.529 | 0.537 | -1.5 | 89    | 0.00     |

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 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101123

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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                  | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|---------------------------|-------|-------|-------|-------|----------|
| 49 T | Bromoform                 | 0.430 | 0.449 | -4.4  | 87    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.774 | 0.767 | 0.9   | 89    | 0.00     |
| 51 T | 2-Hexanone                | 0.589 | 0.576 | 2.2   | 86    | 0.00     |
| 52 T | Tetrachloroethene         | 0.312 | 0.281 | 9.9   | 89    | 0.00     |
| 53 T | Toluene                   | 0.915 | 0.866 | 5.4   | 89    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.443 | 0.430 | 2.9   | 86    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.408 | 0.379 | 7.1   | 87    | 0.00     |
| 57 T | Chlorobenzene             | 0.716 | 0.658 | 8.1   | 89    | 0.00     |
| 58 T | Ethyl Benzene             | 1.259 | 1.137 | 9.7   | 88    | 0.00     |
| 59 T | m/p-Xylene                | 1.036 | 0.935 | 9.7   | 88    | 0.00     |
| 60 T | o-Xylene                  | 0.987 | 0.883 | 10.5  | 88    | 0.00     |
| 61 T | Styrene                   | 0.547 | 0.520 | 4.9   | 88    | 0.00     |
| 62   | Isopropylbenzene          | 1.519 | 1.352 | 11.0  | 88    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.740 | 0.625 | 15.5  | 88    | 0.00     |
| 64   | n-propylbenzene           | 0.408 | 0.374 | 8.3   | 88    | 0.00     |
| 65   | tert-Butylbenzene         | 1.370 | 1.194 | 12.8  | 89    | 0.00     |
| 66 T | Benzyl Chloride           | 0.138 | 0.101 | 26.8  | 56    | 0.00     |
| 67   | sec-Butylbenzene          | 1.876 | 1.654 | 11.8  | 88    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.736 | 0.716 | 2.7   | 89    | 0.00     |
| 69   | p-Isopropyltoluene        | 1.572 | 1.397 | 11.1  | 88    | 0.00     |
| 70   | n-Butylbenzene            | 1.543 | 1.386 | 10.2  | 88    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.141 | 1.028 | 9.9   | 89    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.156 | 1.097 | 5.1   | 88    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.018 | 0.935 | 8.2   | 88    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.112 | 0.995 | 10.5  | 88    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.692 | 0.634 | 8.4   | 88    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.685 | 0.624 | 8.9   | 88    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.679 | 0.608 | 10.5  | 87    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.486 | 0.378 | 22.2  | 85    | 0.00     |
| 79 T | Naphthalene               | 0.904 | 0.942 | -4.2  | 90    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.254 | 0.301 | -18.5 | 85    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.491 | 0.468 | 4.7   | 88    | 0.00     |

(#) = Out of Range

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