

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030823\  
 Data File : VL040263.D  
 Acq On : 8 Mar 2023 20:43  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/09/2023  
 Supervised By : Mahesh Dadoda 03/09/2023

Quant Time: Mar 09 04:16:37 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL021523AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2023

QLast Update : Wed Mar 01 04:21:39 2023

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.179  | 49   | 909376   | 10.000 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 6.642  | 114  | 2257099  | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 11.455 | 117  | 2094369m | 10.000 | ppbv  | -0.03    |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.764 95 1769213 10.273 ppbv -0.03  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.700%

Target Compounds

|                               |       |     |         |        |      | Qvalue |
|-------------------------------|-------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 2.719 | 85  | 1384892 | 8.171  | ppbv | 97     |
| 3) Chlorodifluoromethane      | 2.664 | 51  | 1037733 | 9.553  | ppbv | 98     |
| 4) Chloromethane              | 2.803 | 50  | 655185  | 9.602  | ppbv | 93     |
| 5) Vinyl Chloride             | 2.912 | 62  | 553398  | 10.092 | ppbv | 97     |
| 6) Bromomethane               | 3.108 | 94  | 188836  | 9.541  | ppbv | 96     |
| 7) Chloroethane               | 3.189 | 64  | 207921  | 9.562  | ppbv | 98     |
| 8) Dichlorotetrafluoroethane  | 2.848 | 85  | 1430846 | 9.797  | ppbv | 100    |
| 9) Propene                    | 2.684 | 41  | 416482  | 9.405  | ppbv | 98     |
| 10) Heptane                   | 7.568 | 43  | 1078764 | 10.235 | ppbv | 100    |
| 11) Trichlorofluoromethane    | 3.552 | 101 | 1513613 | 9.953  | ppbv | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 4.053 | 101 | 1112574 | 9.917  | ppbv | 98     |
| 13) Ethanol                   | 3.230 | 45  | 23763m  | 5.829  | ppbv |        |
| 14) Bromoethene               | 3.356 | 108 | 453700  | 10.546 | ppbv | 98     |
| 15) Acetone                   | 3.455 | 43  | 988760  | 9.031  | ppbv | 99     |
| 16) 1,3-Butadiene             | 2.973 | 39  | 506495  | 10.130 | ppbv | 99     |
| 17) tert-Butyl alcohol        | 3.867 | 59  | 994561  | 9.961  | ppbv | 100    |
| 18) 1,1-Dichloroethene        | 3.867 | 96  | 493092  | 10.116 | ppbv | 98     |
| 19) Isopropyl Alcohol         | 3.565 | 45  | 450373  | 8.654  | ppbv | 99     |
| 20) Methylene Chloride        | 3.922 | 84  | 412566  | 7.239  | ppbv | 94     |
| 21) Allyl Chloride            | 3.983 | 41  | 690308  | 10.280 | ppbv | 99     |
| 22) trans-1,2-Dichloroethene  | 4.436 | 96  | 509823  | 10.100 | ppbv | 88     |
| 23) Vinyl Acetate             | 4.613 | 43  | 326603  | 9.830  | ppbv | 99     |
| 24) 1,1-Dichloroethane        | 4.552 | 63  | 1013486 | 9.758  | ppbv | 99     |
| 25) Ethyl Acetate             | 5.192 | 43  | 1961304 | 9.637  | ppbv | 99     |
| 26) Hexane                    | 5.201 | 57  | 832261  | 9.525  | ppbv | 99     |
| 27) Carbon Disulfide          | 4.111 | 76  | 1232991 | 11.121 | ppbv | 99     |
| 28) Methyl tert-Butyl Ether   | 4.571 | 73  | 902812  | 9.644  | ppbv | 99     |
| 29) Chloroform                | 5.262 | 83  | 1453825 | 9.691  | ppbv | 100    |
| 30) Cyclohexane               | 6.590 | 84  | 717283  | 10.455 | ppbv | 97     |
| 31) cis-1,2-Dichloroethene    | 5.066 | 61  | 853895  | 10.286 | ppbv | 96     |
| 32) 1,1,1-Trichloroethane     | 5.992 | 97  | 1475590 | 10.469 | ppbv | 100    |
| 34) 2-Butanone                | 4.774 | 43  | 1095995 | 9.844  | ppbv | 98     |
| 35) Carbon Tetrachloride      | 6.481 | 117 | 1523828 | 11.420 | ppbv | 98     |
| 36) Benzene                   | 6.359 | 78  | 1761531 | 10.029 | ppbv | 97     |
| 37) 1,2-Dichloroethane        | 5.796 | 62  | 1139543 | 10.373 | ppbv | 98     |
| 38) Trichloroethene           | 7.282 | 130 | 1076157 | 11.119 | ppbv | 98     |
| 39) 1,2-Dichloropropane       | 7.063 | 63  | 684392  | 10.016 | ppbv | 98     |
| 40) 1,4-Dioxane               | 7.272 | 88  | 249748  | 9.137  | ppbv | 78     |
| 41) Tetrahydrofuran           | 5.545 | 42  | 664214  | 10.294 | ppbv | 99     |
| 42) Bromodichloromethane      | 7.237 | 83  | 1620185 | 10.685 | ppbv | 98     |
| 43) Methyl Methacrylate       | 7.462 | 69  | 710507  | 10.932 | ppbv | 99     |
| 44) 2,2,4-Trimethylpentane    | 7.317 | 57  | 2964629 | 10.111 | ppbv | 99     |
| 45) t-1,3-Dichloropropene     | 8.700 | 75  | 674184  | 11.694 | ppbv | 97     |

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Quant Time: Mar 09 04:16:37 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL021523AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2023

QLast Update : Wed Mar 01 04:21:39 2023

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.127  | 75   | 914119   | 11.381 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 8.886  | 97   | 752061   | 10.176 | ppbv   | 100      |
| 48) Dibromochloromethane      | 9.700  | 129  | 1325286  | 11.211 | ppbv   | 100      |
| 49) Bromoform                 | 12.397 | 173  | 1048343  | 11.362 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.169  | 43   | 1861534  | 10.768 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.539  | 43   | 1433987  | 10.786 | ppbv # | 98       |
| 52) Tetrachloroethene         | 10.606 | 164  | 591665   | 10.787 | ppbv   | 98       |
| 53) Toluene                   | 9.208  | 91   | 2038020  | 10.833 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 9.995  | 107  | 852673   | 11.089 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 11.497 | 131  | 953264   | 10.843 | ppbv   | 99       |
| 57) Chlorobenzene             | 11.516 | 112  | 1594136  | 10.418 | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.079 | 91   | 2844554  | 11.178 | ppbv   | 97       |
| 59) m/p-Xylene                | 12.362 | 91   | 4973069m | 22.065 | ppbv   |          |
| 60) o-Xylene                  | 13.047 | 91   | 2395039  | 11.044 | ppbv   | 99       |
| 61) Styrene                   | 12.886 | 104  | 1334609  | 11.722 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.018 | 105  | 3369477  | 10.824 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.037 | 83   | 801298   | 10.253 | ppbv   | 99       |
| 64) n-propylbenzene           | 14.902 | 120  | 854011   | 11.085 | ppbv   | 97       |
| 65) tert-Butylbenzene         | 16.082 | 119  | 2928258  | 10.822 | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.317 | 91   | 190395   | 10.574 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 16.622 | 105  | 4209675  | 10.848 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 16.985 | 119  | 3304132  | 10.740 | ppbv   | 99       |
| 70) n-Butylbenzene            | 17.876 | 91   | 3604688  | 10.795 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 14.793 | 91   | 2605008  | 10.942 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.182 | 105  | 2700422  | 11.264 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.339 | 105  | 2414114  | 10.822 | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.098 | 105  | 2648440  | 10.809 | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 16.320 | 146  | 1410966  | 10.522 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.461 | 146  | 1386619  | 10.552 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.130 | 146  | 1349978  | 10.135 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.625 | 225  | 839600   | 9.175  | ppbv   | 99       |
| 79) Naphthalene               | 21.371 | 128  | 1618837  | 11.760 | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 24.368 | 142  | 346957   | 8.863  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.130 | 180  | 897824   | 10.423 | ppbv   | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

