

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020724\  
 Data File : VL041034.D  
 Acq On : 7 Feb 2024 10:28  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/08/2024  
 Supervised By :Mahesh Dadoda 02/08/2024

Quant Time: Feb 08 02:41:02 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL012324AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2

QLast Update : Thu Feb 08 02:04:13 2024

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.166  | 49   | 1152794  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.626  | 114  | 2920599  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.439 | 117  | 2882271  | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.748 95 2267524 10.416 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.200%

Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.703 | 85  | 2426567 | 9.530  | ppbv   | 96     |
| 3) Chlorodifluoromethane      | 2.648 | 51  | 1846193 | 9.522  | ppbv   | 99     |
| 4) Chloromethane              | 2.787 | 50  | 696858  | 9.589  | ppbv   | 99     |
| 5) Vinyl Chloride             | 2.893 | 62  | 718932  | 10.090 | ppbv   | 97     |
| 6) Bromomethane               | 3.092 | 94  | 308518  | 9.944  | ppbv   | 99     |
| 7) Chloroethane               | 3.172 | 64  | 247833  | 9.660  | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane  | 2.832 | 85  | 1826686 | 9.604  | ppbv   | 99     |
| 9) Propene                    | 2.668 | 41  | 612330  | 9.628  | ppbv   | 96     |
| 10) Heptane                   | 7.552 | 43  | 1534642 | 9.805  | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 3.533 | 101 | 1987264 | 9.686  | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluo... | 4.041 | 101 | 1424837 | 9.583  | ppbv   | 100    |
| 13) Ethanol                   | 3.214 | 45  | 135114  | 8.914  | ppbv   | 96     |
| 14) Bromoethene               | 3.340 | 108 | 595961  | 10.439 | ppbv   | 99     |
| 15) Acetone                   | 3.439 | 43  | 1347677 | 9.142  | ppbv   | 98     |
| 16) 1,3-Butadiene             | 2.957 | 39  | 665801  | 9.441  | ppbv   | 96     |
| 17) tert-Butyl alcohol        | 3.851 | 59  | 1174137 | 9.711  | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 3.851 | 96  | 627923  | 9.864  | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 3.549 | 45  | 857770  | 10.052 | ppbv   | 99     |
| 20) Methylene Chloride        | 3.906 | 84  | 503598  | 8.878  | ppbv   | 96     |
| 21) Allyl Chloride            | 3.970 | 41  | 855070  | 9.546  | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 4.417 | 96  | 653337  | 9.967  | ppbv   | 97     |
| 23) Vinyl Acetate             | 4.600 | 43  | 1478379 | 9.729  | ppbv   | 98     |
| 24) 1,1-Dichloroethane        | 4.536 | 63  | 1259279 | 9.342  | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.179 | 43  | 2547438 | 9.530  | ppbv   | 100    |
| 26) Hexane                    | 5.185 | 57  | 1102563 | 9.677  | ppbv   | 98     |
| 27) Carbon Disulfide          | 4.095 | 76  | 1581919 | 10.669 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 4.558 | 73  | 854224  | 9.033  | ppbv   | 96     |
| 29) Chloroform                | 5.246 | 83  | 1920442 | 9.503  | ppbv   | 99     |
| 30) Cyclohexane               | 6.574 | 84  | 946385  | 9.914  | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene    | 5.050 | 61  | 1108842 | 10.369 | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 5.976 | 97  | 1898917 | 9.832  | ppbv   | 100    |
| 34) 2-Butanone                | 4.758 | 43  | 1415224 | 10.171 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 6.465 | 117 | 2043138 | 10.491 | ppbv   | 99     |
| 36) Benzene                   | 6.343 | 78  | 2388991 | 9.904  | ppbv   | 99     |
| 37) 1,2-Dichloroethane        | 5.780 | 62  | 1440844 | 9.788  | ppbv   | 100    |
| 38) Trichloroethene           | 7.262 | 130 | 943423  | 9.756  | ppbv   | 98     |
| 39) 1,2-Dichloropropane       | 7.047 | 63  | 930236  | 9.790  | ppbv   | 99     |
| 40) 1,4-Dioxane               | 7.256 | 88  | 385591  | 9.770  | ppbv # | 1      |
| 41) Tetrahydrofuran           | 5.529 | 42  | 936367  | 9.911  | ppbv   | 99     |
| 42) Bromodichloromethane      | 7.224 | 83  | 2153095 | 10.223 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 7.446 | 69  | 995485  | 10.695 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 7.298 | 57  | 3987426 | 9.824  | ppbv   | 100    |
| 45) t-1,3-Dichloropropene     | 8.684 | 75  | 777358  | 12.223 | ppbv   | 96     |

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Quant Time: Feb 08 02:41:02 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL012324AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Thu Feb 08 02:04:13 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.118  | 75   | 905395   | 11.416 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 8.870  | 97   | 1028485  | 10.042 | ppbv   | 98       |
| 48) Dibromochloromethane      | 9.683  | 129  | 1828116  | 10.558 | ppbv   | 99       |
| 49) Bromoform                 | 12.378 | 173  | 1553709  | 11.439 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.150  | 43   | 2568846  | 10.483 | ppbv   | 100      |
| 51) 2-Hexanone                | 9.523  | 43   | 1875560  | 10.619 | ppbv # | 100      |
| 52) Tetrachloroethene         | 10.584 | 164  | 836398   | 10.442 | ppbv   | 98       |
| 53) Toluene                   | 9.195  | 91   | 2745996  | 10.392 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 9.982  | 107  | 1481298  | 10.679 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 11.481 | 131  | 1332200  | 9.633  | ppbv   | 99       |
| 57) Chlorobenzene             | 11.500 | 112  | 2173465  | 9.375  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.060 | 91   | 3772636  | 9.747  | ppbv   | 98       |
| 59) m/p-Xylene                | 12.349 | 91   | 6545295m | 19.396 | ppbv   |          |
| 60) o-Xylene                  | 13.031 | 91   | 3161157  | 9.763  | ppbv   | 99       |
| 61) Styrene                   | 12.870 | 104  | 1612553  | 10.847 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.002 | 105  | 4565425  | 9.535  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.021 | 83   | 2382688  | 9.469  | ppbv   | 99       |
| 64) n-propylbenzene           | 14.886 | 120  | 1191225  | 9.847  | ppbv   | 98       |
| 65) tert-Butylbenzene         | 16.063 | 119  | 4049500  | 9.680  | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.301 | 91   | 297726   | 10.860 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 16.609 | 105  | 5735164  | 9.415  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 16.966 | 119  | 4596990  | 9.742  | ppbv   | 100      |
| 70) n-Butylbenzene            | 17.860 | 91   | 4927918  | 9.665  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 14.773 | 91   | 3567710  | 9.657  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.166 | 105  | 3646501  | 10.084 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.323 | 105  | 3139201  | 9.782  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.082 | 105  | 3473852  | 9.549  | ppbv   | 93       |
| 75) 1,3-Dichlorobenzene       | 16.304 | 146  | 2015404  | 9.734  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.445 | 146  | 1964012  | 9.613  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.117 | 146  | 1951024  | 9.481  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.603 | 225  | 1091080  | 8.222  | ppbv   | 100      |
| 79) Naphthalene               | 21.355 | 128  | 2436307  | 11.739 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.352 | 142  | 449985m  | 12.345 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.107 | 180  | 1226871m | 10.132 | ppbv   |          |

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

