

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032122\  
 Data File : VL038649.D  
 Acq On : 21 Mar 2022 13:17  
 Operator : SY/AP  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/22/2022  
 Supervised By :Mahesh Dadoda 03/24/2022

Quant Time: Mar 21 15:05:40 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar 21 2022

QLast Update : Mon Mar 21 15:04:50 2022

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.658  | 49   | 979742   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.166  | 114  | 2585772  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.076 | 117  | 2424525  | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.404 95 1795760 9.742 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.400%

Target Compounds

|                               |       |     |         |       |      | Qvalue |
|-------------------------------|-------|-----|---------|-------|------|--------|
| 2) Dichlorodifluoromethane    | 3.051 | 85  | 241130  | 1.629 | ppbv | 96     |
| 3) Chlorodifluoromethane      | 2.989 | 51  | 218287  | 1.264 | ppbv | 97     |
| 4) Chloromethane              | 3.144 | 50  | 119713  | 1.869 | ppbv | 96     |
| 5) Vinyl Chloride             | 3.260 | 62  | 112205  | 1.746 | ppbv | 99     |
| 6) Bromomethane               | 3.472 | 94  | 63424   | 1.838 | ppbv | 96     |
| 7) Chloroethane               | 3.555 | 64  | 37341   | 1.794 | ppbv | 92     |
| 8) Dichlorotetrafluoroethane  | 3.189 | 85  | 268891  | 1.874 | ppbv | 97     |
| 9) Propene                    | 3.009 | 41  | 102834  | 1.687 | ppbv | 96     |
| 10) Heptane                   | 8.115 | 43  | 254232  | 1.743 | ppbv | 100    |
| 11) Trichlorofluoromethane    | 3.948 | 101 | 240473  | 1.853 | ppbv | 94     |
| 12) 1,1,2-Trichlorotrifluo... | 4.481 | 101 | 184640  | 1.830 | ppbv | 96     |
| 13) Ethanol                   | 3.613 | 45  | 12412m  | 1.773 | ppbv |        |
| 14) Bromoethene               | 3.739 | 108 | 82456   | 1.918 | ppbv | 98     |
| 15) Acetone                   | 3.851 | 43  | 175948  | 2.546 | ppbv | 98     |
| 16) 1,3-Butadiene             | 3.327 | 39  | 95741   | 1.724 | ppbv | 95     |
| 17) tert-Butyl alcohol        | 4.285 | 59  | 146763  | 1.955 | ppbv | 97     |
| 18) 1,1-Dichloroethene        | 4.285 | 96  | 84845   | 1.879 | ppbv | 96     |
| 19) Isopropyl Alcohol         | 3.967 | 45  | 93121m  | 2.018 | ppbv |        |
| 20) Methylene Chloride        | 4.343 | 84  | 74000   | 1.779 | ppbv | 96     |
| 21) Allyl Chloride            | 4.411 | 41  | 120351  | 1.807 | ppbv | 95     |
| 22) trans-1,2-Dichloroethene  | 4.880 | 96  | 82786   | 1.749 | ppbv | 97     |
| 23) Vinyl Acetate             | 5.067 | 43  | 161385  | 1.629 | ppbv | 99     |
| 24) 1,1-Dichloroethane        | 5.005 | 63  | 169715m | 1.884 | ppbv |        |
| 25) Ethyl Acetate             | 5.674 | 43  | 446908  | 1.920 | ppbv | 99     |
| 26) Hexane                    | 5.677 | 57  | 200468  | 1.834 | ppbv | 99     |
| 27) Carbon Disulfide          | 4.546 | 76  | 190260  | 1.748 | ppbv | 97     |
| 28) Methyl tert-Butyl Ether   | 5.034 | 73  | 149806m | 1.684 | ppbv |        |
| 29) Chloroform                | 5.745 | 83  | 313054  | 1.840 | ppbv | 98     |
| 30) Cyclohexane               | 7.128 | 84  | 172308  | 1.823 | ppbv | 90     |
| 31) cis-1,2-Dichloroethene    | 5.546 | 61  | 187585m | 1.794 | ppbv |        |
| 32) 1,1,1-Trichloroethane     | 6.504 | 97  | 301712  | 1.829 | ppbv | 99     |
| 34) 2-Butanone                | 5.243 | 43  | 174697  | 2.606 | ppbv | 93     |
| 35) Carbon Tetrachloride      | 7.012 | 117 | 301824  | 1.711 | ppbv | 94     |
| 36) Benzene                   | 6.883 | 78  | 421125  | 1.805 | ppbv | 98     |
| 37) 1,2-Dichloroethane        | 6.298 | 62  | 208775  | 1.872 | ppbv | 100    |
| 38) Trichloroethene           | 7.825 | 130 | 180771  | 1.939 | ppbv | 93     |
| 39) 1,2-Dichloropropane       | 7.603 | 63  | 159810  | 1.781 | ppbv | 94     |
| 40) 1,4-Dioxane               | 7.832 | 88  | 55330m  | 2.464 | ppbv |        |
| 41) Tetrahydrofuran           | 6.050 | 42  | 156218  | 2.849 | ppbv | 98     |
| 42) Bromodichloromethane      | 7.780 | 83  | 313663  | 1.774 | ppbv | 98     |
| 43) Methyl Methacrylate       | 8.005 | 69  | 154232  | 1.926 | ppbv | 100    |
| 44) 2,2,4-Trimethylpentane    | 7.861 | 57  | 713550  | 1.809 | ppbv | 100    |
| 45) t-1,3-Dichloropropene     | 9.266 | 75  | 144810m | 2.509 | ppbv |        |

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QLast Update : Mon Mar 21 15:04:50 2022

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.690  | 75   | 207721m  | 2.632 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 9.465  | 97   | 167759   | 1.834 | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.291 | 129  | 271440   | 1.869 | ppbv   | 99       |
| 49) Bromoform                 | 13.028 | 173  | 217768   | 1.958 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.735  | 43   | 398077m  | 2.897 | ppbv   |          |
| 51) 2-Hexanone                | 10.127 | 43   | 274449   | 4.727 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.211 | 164  | 147826   | 1.728 | ppbv   | 97       |
| 53) Toluene                   | 9.796  | 91   | 456955   | 1.835 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.597 | 107  | 230526   | 1.764 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.114 | 131  | 202527   | 2.051 | ppbv # | 1        |
| 57) Chlorobenzene             | 12.131 | 112  | 351327   | 1.898 | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.700 | 91   | 595729   | 1.898 | ppbv   | 97       |
| 59) m/p-Xylene                | 12.983 | 91   | 1042264m | 3.878 | ppbv   |          |
| 60) o-Xylene                  | 13.680 | 91   | 491537   | 1.937 | ppbv   | 99       |
| 61) Styrene                   | 13.516 | 104  | 262359   | 2.098 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.655 | 105  | 733022   | 2.093 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.664 | 83   | 347331   | 1.620 | ppbv   | 98       |
| 64) n-propylbenzene           | 15.548 | 120  | 193839   | 2.172 | ppbv   | 92       |
| 65) tert-Butylbenzene         | 16.732 | 119  | 679291   | 2.169 | ppbv   | 97       |
| 66) Benzyl Chloride           | 16.976 | 91   | 101278   | 5.459 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.281 | 105  | 970940   | 2.182 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.642 | 119  | 801379   | 2.174 | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.535 | 91   | 833584   | 2.123 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.442 | 91   | 552666   | 2.126 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.828 | 105  | 572519   | 1.964 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.982 | 105  | 539708m  | 1.994 | ppbv   |          |
| 74) 1,2,4-Trimethylbenzene    | 16.748 | 105  | 586518   | 2.029 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 16.982 | 146  | 362009   | 1.985 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.124 | 146  | 365091m  | 2.021 | ppbv   |          |
| 77) 1,2-Dichlorobenzene       | 17.806 | 146  | 352842   | 1.912 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.358 | 225  | 359670m  | 1.998 | ppbv   |          |
| 79) Naphthalene               | 22.178 | 128  | 505964   | 1.946 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.966 | 142  | 135674   | 2.956 | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 21.908 | 180  | 313056   | 1.884 | ppbv   | 98       |

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

