

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL012324\  
 Data File : VL040989.D  
 Acq On : 23 Jan 2024 9:04  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/24/2024  
 Supervised By :Mahesh Dadoda 01/24/2024

Quant Time: Jan 23 10:22:51 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 : Tue Jan 23 10:20:22 2024

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.156  | 49   | 928172   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.616  | 114  | 2738886  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.426 | 117  | 2387823  | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.738 95 1819815 10.347 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.500%

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.697 | 85  | 121915 | 0.690 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 2.642 | 51  | 95677  | 0.685 | ppbv   | 100    |
| 4) Chloromethane              | 2.780 | 50  | 32284  | 0.627 | ppbv   | 90     |
| 5) Vinyl Chloride             | 2.890 | 62  | 34273  | 0.689 | ppbv   | 94     |
| 6) Bromomethane               | 3.092 | 94  | 14190  | 0.643 | ppbv   | 86     |
| 7) Chloroethane               | 3.166 | 64  | 12256  | 0.692 | ppbv # | 67     |
| 8) Dichlorotetrafluoroethane  | 2.825 | 85  | 92877  | 0.729 | ppbv   | 94     |
| 9) Propene                    | 2.665 | 41  | 28137  | 0.611 | ppbv   | 91     |
| 10) Heptane                   | 7.545 | 43  | 65901  | 0.575 | ppbv   | 96     |
| 11) Trichlorofluoromethane    | 3.529 | 101 | 101270 | 0.733 | ppbv   | 95     |
| 12) 1,1,2-Trichlorotrifluo... | 4.034 | 101 | 72491  | 0.675 | ppbv   | 96     |
| 13) Ethanol                   | 3.230 | 45  | 5183   | 0.446 | ppbv # | 37     |
| 14) Bromoethene               | 3.333 | 108 | 27708  | 0.704 | ppbv   | 93     |
| 15) Acetone                   | 3.449 | 43  | 78532  | 0.705 | ppbv   | 94     |
| 16) 1,3-Butadiene             | 2.951 | 39  | 27619  | 0.576 | ppbv # | 80     |
| 17) tert-Butyl alcohol        | 3.857 | 59  | 50601  | 0.614 | ppbv # | 91     |
| 18) 1,1-Dichloroethene        | 3.845 | 96  | 29050  | 0.656 | ppbv   | 85     |
| 19) Isopropyl Alcohol         | 3.565 | 45  | 36533  | 0.629 | ppbv # | 97     |
| 20) Methylene Chloride        | 3.899 | 84  | 29398  | 0.741 | ppbv   | 91     |
| 21) Allyl Chloride            | 3.963 | 41  | 40693  | 0.618 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 4.410 | 96  | 27275  | 0.540 | ppbv   | 86     |
| 23) Vinyl Acetate             | 4.597 | 43  | 69158m | 0.563 | ppbv   |        |
| 24) 1,1-Dichloroethane        | 4.529 | 63  | 62001  | 0.564 | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.176 | 43  | 108464 | 0.562 | ppbv # | 97     |
| 26) Hexane                    | 5.172 | 57  | 49209m | 0.576 | ppbv   |        |
| 27) Carbon Disulfide          | 4.092 | 76  | 53933  | 0.466 | ppbv # | 85     |
| 28) Methyl tert-Butyl Ether   | 4.568 | 73  | 44678m | 0.563 | ppbv   |        |
| 29) Chloroform                | 5.240 | 83  | 85764  | 0.595 | ppbv   | 93     |
| 30) Cyclohexane               | 6.571 | 84  | 41124m | 0.577 | ppbv   |        |
| 31) cis-1,2-Dichloroethene    | 5.041 | 61  | 46538  | 0.530 | ppbv   | 95     |
| 32) 1,1,1-Trichloroethane     | 5.963 | 97  | 93203m | 0.668 | ppbv   |        |
| 34) 2-Butanone                | 4.764 | 43  | 66418  | 0.458 | ppbv   | 97     |
| 35) Carbon Tetrachloride      | 6.459 | 117 | 87986  | 0.513 | ppbv   | 93     |
| 36) Benzene                   | 6.330 | 78  | 107413 | 0.502 | ppbv # | 92     |
| 37) 1,2-Dichloroethane        | 5.771 | 62  | 68319  | 0.533 | ppbv   | 98     |
| 38) Trichloroethene           | 7.250 | 130 | 43006m | 0.535 | ppbv   |        |
| 39) 1,2-Dichloropropane       | 7.031 | 63  | 44770  | 0.532 | ppbv   | 92     |
| 40) 1,4-Dioxane               | 7.291 | 88  | 17664m | 0.497 | ppbv   |        |
| 41) Tetrahydrofuran           | 5.545 | 42  | 43901m | 0.498 | ppbv   |        |
| 42) Bromodichloromethane      | 7.208 | 83  | 90069  | 0.487 | ppbv # | 97     |
| 43) Methyl Methacrylate       | 7.442 | 69  | 35635m | 0.424 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 7.291 | 57  | 185070 | 0.509 | ppbv   | 97     |
| 45) t-1,3-Dichloropropene     | 8.668 | 75  | 22974m | 0.369 | ppbv   |        |

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Quant Time: Jan 23 10:22:51 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 : Tue Jan 23 10:20:22 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.105  | 75   | 30237m   | 0.392 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 8.857  | 97   | 50355m   | 0.564 | ppbv   |          |
| 48) Dibromochloromethane      | 9.674  | 129  | 67002    | 0.440 | ppbv   | 94       |
| 49) Bromoform                 | 12.365 | 173  | 53430m   | 0.455 | ppbv   |          |
| 50) 4-Methyl-2-Pentanone      | 8.163  | 43   | 103531m  | 0.472 | ppbv   |          |
| 51) 2-Hexanone                | 9.536  | 43   | 70126m   | 0.444 | ppbv   |          |
| 52) Tetrachloroethene         | 10.571 | 164  | 35199m   | 0.488 | ppbv   |          |
| 53) Toluene                   | 9.182  | 91   | 107034   | 0.451 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 9.970  | 107  | 58864    | 0.481 | ppbv   | 93       |
| 56) 1,1,1,2-Tetrachloroethane | 11.471 | 131  | 57937    | 0.555 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.484 | 112  | 99525    | 0.566 | ppbv # | 94       |
| 58) Ethyl Benzene             | 12.050 | 91   | 138931   | 0.453 | ppbv   | 96       |
| 59) m/p-Xylene                | 12.336 | 91   | 269359m  | 1.033 | ppbv   |          |
| 60) o-Xylene                  | 13.018 | 91   | 127581m  | 0.519 | ppbv   |          |
| 61) Styrene                   | 12.860 | 104  | 46597m   | 0.399 | ppbv   |          |
| 62) Isopropylbenzene          | 13.992 | 105  | 194975   | 0.535 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.011 | 83   | 109335m  | 0.617 | ppbv   |          |
| 64) n-propylbenzene           | 14.876 | 120  | 43439    | 0.475 | ppbv # | 62       |
| 65) tert-Butylbenzene         | 16.050 | 119  | 166521m  | 0.537 | ppbv   |          |
| 66) Benzyl Chloride           | 16.291 | 91   | 11004m   | 0.519 | ppbv   |          |
| 67) sec-Butylbenzene          | 16.596 | 105  | 247807   | 0.550 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 16.957 | 119  | 176880   | 0.505 | ppbv   | 95       |
| 70) n-Butylbenzene            | 17.850 | 91   | 198678m  | 0.547 | ppbv   |          |
| 71) 2-Chlorotoluene           | 14.761 | 91   | 150089m  | 0.535 | ppbv   |          |
| 72) 4-Ethyltoluene            | 15.156 | 105  | 136772   | 0.507 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 15.317 | 105  | 125413m  | 0.539 | ppbv   |          |
| 74) 1,2,4-Trimethylbenzene    | 16.069 | 105  | 149154   | 0.576 | ppbv # | 90       |
| 75) 1,3-Dichlorobenzene       | 16.297 | 146  | 80363    | 0.543 | ppbv   | 93       |
| 76) 1,4-Dichlorobenzene       | 16.432 | 146  | 83495m   | 0.577 | ppbv   |          |
| 77) 1,2-Dichlorobenzene       | 17.108 | 146  | 85889m   | 0.602 | ppbv   |          |
| 78) Hexachloro-1,3-Butadiene  | 22.590 | 225  | 56292m   | 0.642 | ppbv   |          |
| 79) Naphthalene               | 21.349 | 128  | 68058m   | 0.545 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 24.368 | 142  | 10555m   | 0.463 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.108 | 180  | 40946m   | 0.571 | ppbv   |          |

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

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