

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL021323\  
 Data File : VL040160.D  
 Acq On : 13 Feb 2023 14:33  
 Operator : SY/MD  
 Sample : VL0213ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0213ABS01

Quant Time: Feb 14 01:45:26 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011623AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2023  
 QLast Update : Tue Feb 14 01:41:11 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/14/2023  
 Supervised By : Mahesh Dadoda 02/14/2023

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.208  | 49   | 915953   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.674  | 114  | 2324596  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.500 | 117  | 2305573  | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 13.809 | 95    | 1756378  | 9.166    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 91.700% |

|                               |       |     |         |        |        |        |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| Target Compounds              |       |     |         |        |        | Qvalue |
| 2) Dichlorodifluoromethane    | 2.729 | 85  | 1278656 | 7.962  | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 2.674 | 51  | 1080046 | 9.831  | ppbv   | 99     |
| 4) Chloromethane              | 2.812 | 50  | 674388  | 9.932  | ppbv   | 100    |
| 5) Vinyl Chloride             | 2.922 | 62  | 592093  | 10.285 | ppbv   | 100    |
| 6) Bromomethane               | 3.121 | 94  | 205954  | 9.805  | ppbv   | 95     |
| 7) Chloroethane               | 3.201 | 64  | 220912  | 10.040 | ppbv   | 97     |
| 8) Dichlorotetrafluoroethane  | 2.857 | 85  | 1474246 | 9.833  | ppbv   | 99     |
| 9) Propene                    | 2.693 | 41  | 444486  | 9.738  | ppbv   | 98     |
| 10) Heptane                   | 7.603 | 43  | 1120130 | 10.647 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 3.568 | 101 | 1509389 | 9.418  | ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluo... | 4.076 | 101 | 1155127 | 9.587  | ppbv   | 100    |
| 13) Ethanol                   | 3.253 | 45  | 34379m  | 8.183  | ppbv   |        |
| 14) Bromoethene               | 3.372 | 108 | 454632  | 10.164 | ppbv   | 98     |
| 15) Acetone                   | 3.472 | 43  | 1025284 | 9.333  | ppbv   | 98     |
| 16) 1,3-Butadiene             | 2.986 | 39  | 534230  | 10.431 | ppbv   | 97     |
| 17) tert-Butyl alcohol        | 3.883 | 59  | 1107840 | 10.830 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 3.890 | 96  | 505884  | 9.663  | ppbv   | 98     |
| 19) Isopropyl Alcohol         | 3.578 | 45  | 509357  | 9.477  | ppbv   | 99     |
| 20) Methylene Chloride        | 3.941 | 84  | 431884  | 8.911  | ppbv   | 96     |
| 21) Allyl Chloride            | 4.005 | 41  | 718169  | 10.182 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 4.455 | 96  | 532410  | 9.953  | ppbv   | 95     |
| 23) Vinyl Acetate             | 4.639 | 43  | 335598  | 9.424  | ppbv # | 97     |
| 24) 1,1-Dichloroethane        | 4.574 | 63  | 1062263 | 9.851  | ppbv   | 98     |
| 25) Ethyl Acetate             | 5.218 | 43  | 2064266 | 10.667 | ppbv   | 100    |
| 26) Hexane                    | 5.227 | 57  | 881339  | 10.406 | ppbv   | 98     |
| 27) Carbon Disulfide          | 4.134 | 76  | 1228700 | 11.198 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 4.597 | 73  | 963051  | 10.108 | ppbv   | 99     |
| 29) Chloroform                | 5.288 | 83  | 1505503 | 11.118 | ppbv   | 99     |
| 30) Cyclohexane               | 6.623 | 84  | 730127  | 10.844 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 5.092 | 61  | 903327  | 11.017 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 6.021 | 97  | 1501541 | 10.910 | ppbv   | 100    |
| 34) 2-Butanone                | 4.796 | 43  | 1149803 | 10.457 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 6.513 | 117 | 1556844 | 11.845 | ppbv   | 98     |
| 36) Benzene                   | 6.388 | 78  | 1855474 | 10.786 | ppbv   | 99     |
| 37) 1,2-Dichloroethane        | 5.822 | 62  | 1162884 | 10.517 | ppbv   | 100    |
| 38) Trichloroethene           | 7.314 | 130 | 1107694 | 11.346 | ppbv   | 99     |
| 39) 1,2-Dichloropropane       | 7.095 | 63  | 711958  | 10.581 | ppbv   | 99     |
| 40) 1,4-Dioxane               | 7.311 | 88  | 270954  | 10.147 | ppbv   | 86     |
| 41) Tetrahydrofuran           | 5.574 | 42  | 706229  | 11.128 | ppbv   | 100    |
| 42) Bromodichloromethane      | 7.272 | 83  | 1643307 | 11.006 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 7.497 | 69  | 735676  | 11.654 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 7.349 | 57  | 3078396 | 10.761 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 8.735 | 75  | 703954  | 12.505 | ppbv   | 100    |

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 MSVOA\_L  
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Manual Integrations  
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Quant Time: Feb 14 01:45:26 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011623AIR.M

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

QLast Update : Tue Feb 14 01:41:11 2023

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 8.166  | 75   | 961913   | 12.505 | ppbv  | 97       |
| 47) 1,1,2-Trichloroethane     | 8.925  | 97   | 743107   | 10.489 | ppbv  | 97       |
| 48) Dibromochloromethane      | 9.741  | 129  | 1276414  | 11.210 | ppbv  | 99       |
| 49) Bromoform                 | 12.442 | 173  | 963985   | 10.990 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.205  | 43   | 1887742  | 10.915 | ppbv  | 100      |
| 51) 2-Hexanone                | 9.577  | 43   | 1453169  | 11.090 | ppbv  | 99       |
| 52) Tetrachloroethene         | 10.645 | 164  | 603531   | 10.724 | ppbv  | 97       |
| 53) Toluene                   | 9.249  | 91   | 2079417  | 11.333 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.037 | 107  | 839675   | 11.321 | ppbv  | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 11.542 | 131  | 911380   | 10.157 | ppbv  | 99       |
| 57) Chlorobenzene             | 11.558 | 112  | 1549551  | 9.860  | ppbv  | 99       |
| 58) Ethyl Benzene             | 12.118 | 91   | 2783231  | 10.817 | ppbv  | 100      |
| 59) m/p-Xylene                | 12.400 | 91   | 4792448m | 20.716 | ppbv  |          |
| 60) o-Xylene                  | 13.092 | 91   | 2282836  | 10.396 | ppbv  | 100      |
| 61) Styrene                   | 12.931 | 104  | 1298207  | 11.346 | ppbv  | 99       |
| 62) Isopropylbenzene          | 14.063 | 105  | 3172229  | 10.044 | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.079 | 83   | 741366   | 9.298  | ppbv  | 99       |
| 64) n-propylbenzene           | 14.950 | 120  | 810872   | 10.328 | ppbv  | 99       |
| 65) tert-Butylbenzene         | 16.127 | 119  | 2829034  | 10.462 | ppbv  | 99       |
| 66) Benzyl Chloride           | 16.365 | 91   | 194738m  | 10.538 | ppbv  |          |
| 67) sec-Butylbenzene          | 16.670 | 105  | 4041756  | 10.543 | ppbv  | 99       |
| 69) p-Isopropyltoluene        | 17.031 | 119  | 3247401  | 10.780 | ppbv  | 100      |
| 70) n-Butylbenzene            | 17.921 | 91   | 3547749  | 10.921 | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 14.834 | 91   | 2480277  | 10.211 | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 15.227 | 105  | 2568745  | 10.542 | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 15.384 | 105  | 2301412  | 10.490 | ppbv  | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.143 | 105  | 2527772  | 10.401 | ppbv  | 97       |
| 75) 1,3-Dichlorobenzene       | 16.365 | 146  | 1397107  | 10.351 | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 16.506 | 146  | 1369811  | 10.322 | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.175 | 146  | 1376800  | 10.666 | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.673 | 225  | 916611   | 9.695  | ppbv  | 98       |
| 79) Naphthalene               | 21.426 | 128  | 1877540  | 13.486 | ppbv  | 99       |
| 80) Naphthalene,2-methyl-     | 24.410 | 142  | 338203   | 7.209  | ppbv  | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.178 | 180  | 983974   | 11.467 | ppbv  | 100      |

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

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