

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL051123\  
 Data File : VL040402.D  
 Acq On : 11 May 2023 16:03  
 Operator : SY/MD  
 Sample : VL0511ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0511ABS01

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 05/15/2023  
 Supervised By :Mahesh Dadoda 05/15/2023

Quant Time: May 12 05:54:05 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041323AIR.M

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

QLast Update : Thu Apr 13 14:37:02 2023

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.182  | 49   | 1114019  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.645  | 114  | 2894753  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.465 | 117  | 2802741m | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.777 95 2101963 9.069 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 90.700%

#### Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.710 | 85  | 1543144 | 7.683  | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 2.655 | 51  | 1309269 | 8.994  | ppbv   | 100    |
| 4) Chloromethane              | 2.793 | 50  | 837199  | 9.104  | ppbv   | 97     |
| 5) Vinyl Chloride             | 2.902 | 62  | 730681  | 9.626  | ppbv   | 98     |
| 6) Bromomethane               | 3.102 | 94  | 234684  | 9.384  | ppbv   | 100    |
| 7) Chloroethane               | 3.179 | 64  | 268902  | 9.355  | ppbv   | 93     |
| 8) Dichlorotetrafluoroethane  | 2.838 | 85  | 1781232 | 9.074  | ppbv   | 97     |
| 9) Propene                    | 2.674 | 41  | 549329  | 9.552  | ppbv   | 100    |
| 10) Heptane                   | 7.574 | 43  | 1395584 | 10.678 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 3.546 | 101 | 1777159 | 8.740  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 4.050 | 101 | 1282831 | 9.020  | ppbv   | 99     |
| 13) Ethanol                   | 3.224 | 45  | 36432   | 7.588  | ppbv   | 99     |
| 14) Bromoethene               | 3.349 | 108 | 557705  | 9.590  | ppbv   | 97     |
| 15) Acetone                   | 3.449 | 43  | 1310058 | 8.303  | ppbv   | 98     |
| 16) 1,3-Butadiene             | 2.967 | 39  | 644669  | 9.873  | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 3.861 | 59  | 1420780 | 9.806  | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 3.864 | 96  | 595313  | 9.281  | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 3.558 | 45  | 673158  | 9.350  | ppbv   | 99     |
| 20) Methylene Chloride        | 3.919 | 84  | 502142  | 7.971  | ppbv   | 99     |
| 21) Allyl Chloride            | 3.983 | 41  | 883026  | 9.849  | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 4.430 | 96  | 602065  | 9.389  | ppbv   | 96     |
| 23) Vinyl Acetate             | 4.613 | 43  | 387998  | 9.658  | ppbv   | 97     |
| 24) 1,1-Dichloroethane        | 4.552 | 63  | 1236003 | 9.245  | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.192 | 43  | 2578669 | 9.712  | ppbv   | 100    |
| 26) Hexane                    | 5.201 | 57  | 1112966 | 9.943  | ppbv   | 97     |
| 27) Carbon Disulfide          | 4.108 | 76  | 1483443 | 10.241 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 4.571 | 73  | 1140812 | 9.873  | ppbv   | 99     |
| 29) Chloroform                | 5.263 | 83  | 1874497 | 9.401  | ppbv   | 99     |
| 30) Cyclohexane               | 6.594 | 84  | 945169  | 10.903 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene    | 5.066 | 61  | 1163464 | 10.487 | ppbv   | 100    |
| 32) 1,1,1-Trichloroethane     | 5.992 | 97  | 1903580 | 9.826  | ppbv   | 99     |
| 34) 2-Butanone                | 4.774 | 43  | 1529063 | 9.796  | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 6.484 | 117 | 1924083 | 9.442  | ppbv   | 99     |
| 36) Benzene                   | 6.362 | 78  | 2382538 | 10.088 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 5.796 | 62  | 1458086 | 9.399  | ppbv   | 98     |
| 38) Trichloroethene           | 7.285 | 130 | 1447854 | 10.771 | ppbv   | 98     |
| 39) 1,2-Dichloropropane       | 7.066 | 63  | 909447  | 9.786  | ppbv   | 95     |
| 40) 1,4-Dioxane               | 7.282 | 88  | 329355  | 9.254  | ppbv # | 99     |
| 41) Tetrahydrofuran           | 5.545 | 42  | 893812  | 10.456 | ppbv   | 99     |
| 42) Bromodichloromethane      | 7.243 | 83  | 2063518 | 9.740  | ppbv   | 99     |
| 43) Methyl Methacrylate       | 7.465 | 69  | 947991  | 10.807 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 7.320 | 57  | 3846389 | 9.750  | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 8.706 | 75  | 930141  | 11.871 | ppbv   | 98     |

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Quant Time: May 12 05:54:05 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041323AIR.M

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

QLast Update : Thu Apr 13 14:37:02 2023

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.137  | 75   | 1255641  | 11.513 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 8.896  | 97   | 1006926  | 9.882  | ppbv   | 96       |
| 48) Dibromochloromethane      | 9.709  | 129  | 1709717  | 10.419 | ppbv   | 100      |
| 49) Bromoform                 | 12.407 | 173  | 1384627  | 10.819 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.172  | 43   | 2361473  | 9.978  | ppbv   | 99       |
| 51) 2-Hexanone                | 9.545  | 43   | 1847551  | 10.564 | ppbv # | 99       |
| 52) Tetrachloroethene         | 10.613 | 164  | 823064   | 11.141 | ppbv   | 99       |
| 53) Toluene                   | 9.217  | 91   | 2735419  | 10.925 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.005 | 107  | 1104242  | 10.690 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 11.507 | 131  | 1217751  | 9.519  | ppbv   | 96       |
| 57) Chlorobenzene             | 11.526 | 112  | 2103461  | 9.585  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.089 | 91   | 3704781  | 10.746 | ppbv   | 97       |
| 59) m/p-Xylene                | 12.372 | 91   | 6278684m | 19.803 | ppbv   |          |
| 60) o-Xylene                  | 13.056 | 91   | 3048155  | 10.017 | ppbv   | 99       |
| 61) Styrene                   | 12.899 | 104  | 1805585  | 11.846 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.031 | 105  | 4317284  | 9.852  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.050 | 83   | 945419   | 8.490  | ppbv   | 99       |
| 64) n-propylbenzene           | 14.921 | 120  | 1101681  | 10.217 | ppbv   | 95       |
| 65) tert-Butylbenzene         | 16.092 | 119  | 3773326  | 9.787  | ppbv   | 98       |
| 66) Benzyl Chloride           | 16.330 | 91   | 265998   | 11.143 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 16.638 | 105  | 5330251  | 9.625  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 16.995 | 119  | 4296273  | 9.935  | ppbv   | 98       |
| 70) n-Butylbenzene            | 17.889 | 91   | 4654551  | 9.710  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 14.802 | 91   | 3347414  | 9.950  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.195 | 105  | 3534544  | 10.522 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.352 | 105  | 3126200  | 10.075 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.111 | 105  | 3405455  | 9.602  | ppbv   | 92       |
| 75) 1,3-Dichlorobenzene       | 16.333 | 146  | 1912310  | 9.844  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.477 | 146  | 1878645  | 9.788  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.143 | 146  | 1818231  | 9.466  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.641 | 225  | 1405145  | 9.124  | ppbv   | 100      |
| 79) Naphthalene               | 21.384 | 128  | 2972627  | 12.416 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.374 | 142  | 1027556  | 14.419 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.143 | 180  | 1533899  | 10.426 | ppbv   | 100      |

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

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