

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050719\  
 Data File : VL033679.D  
 Acq On : 7 May 2019 13:01  
 Operator : SY/AP  
 Sample : VL0507ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0507ABS01

Quant Time: May 08 03:22:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon May 06 15:19:01 2019  
 QLast Update : Mon May 06 15:19:01 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.76  | 49   | 977081   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.29  | 114  | 2287307  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.24 | 117  | 2554051m | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.58  | 95    | 1978941  | 9.45     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 94.50% |

| Target Compounds               |      |     |         |        | Ovalue   |
|--------------------------------|------|-----|---------|--------|----------|
| 2) Dichlorodifluoromethane     | 3.07 | 85  | 1913211 | 8.349  | ppbv 99  |
| 3) Chlorodifluoromethane       | 3.01 | 51  | 1168641 | 8.282  | ppbv 99  |
| 4) Chloromethane               | 3.17 | 50  | 616745  | 8.407  | ppbv 99  |
| 5) Vinyl Chloride              | 3.29 | 62  | 616926  | 8.650  | ppbv 100 |
| 6) Bromomethane                | 3.51 | 94  | 399014  | 8.806  | ppbv 96  |
| 7) Chloroethane                | 3.60 | 64  | 229587  | 8.867  | ppbv 98  |
| 8) Dichlorotetrafluoroethane   | 3.22 | 85  | 1604058 | 8.504  | ppbv 99  |
| 9) Propene                     | 3.03 | 41  | 474592  | 8.822  | ppbv 99  |
| 10) Heptane                    | 8.25 | 43  | 1314358 | 9.900  | ppbv 99  |
| 11) Trichlorofluoromethane     | 4.00 | 101 | 1907661 | 8.915  | ppbv 98  |
| 12) 1,1,2-Trichlorotrifluoroet | 4.55 | 101 | 1280668 | 8.902  | ppbv 99  |
| 13) Ethanol                    | 3.65 | 45  | 123927  | 7.675  | ppbv 100 |
| 14) Bromoethene                | 3.78 | 108 | 503339  | 8.876  | ppbv 99  |
| 15) Acetone                    | 3.90 | 43  | 1218891 | 8.385  | ppbv 98  |
| 16) 1,3-Butadiene              | 3.36 | 39  | 558340  | 8.956  | ppbv 100 |
| 17) tert-Butyl alcohol         | 4.35 | 59  | 1087594 | 9.851  | ppbv 100 |
| 18) 1,1-Dichloroethene         | 4.35 | 96  | 566728  | 9.125  | ppbv 99  |
| 19) Isopropyl Alcohol          | 4.02 | 45  | 833388  | 9.332  | ppbv 100 |
| 20) Methylene Chloride         | 4.41 | 84  | 476594  | 8.635  | ppbv 98  |
| 21) Allyl Chloride             | 4.47 | 41  | 834223  | 9.481  | ppbv 99  |
| 22) trans-1,2-Dichloroethene   | 4.96 | 96  | 572218  | 9.177  | ppbv 94  |
| 23) Vinyl Acetate              | 5.15 | 43  | 1866109 | 9.880  | ppbv 99  |
| 24) 1,1-Dichloroethane         | 5.09 | 63  | 1276397 | 8.933  | ppbv 100 |
| 25) Ethyl Acetate              | 5.77 | 43  | 2215193 | 9.367  | ppbv 100 |
| 26) Hexane                     | 5.77 | 57  | 972873  | 9.570  | ppbv 99  |
| 27) Carbon Disulfide           | 4.62 | 76  | 1414286 | 10.171 | ppbv 100 |
| 28) Methyl tert-Butyl Ether    | 5.11 | 73  | 1640851 | 9.584  | ppbv 100 |
| 29) Chloroform                 | 5.85 | 83  | 1677571 | 9.178  | ppbv 99  |
| 30) Cyclohexane                | 7.25 | 84  | 838187  | 9.818  | ppbv 99  |
| 31) cis-1,2-Dichloroethene     | 5.64 | 61  | 1017104 | 10.057 | ppbv 97  |
| 32) 1,1,1-Trichloroethane      | 6.62 | 97  | 1699875 | 9.006  | ppbv 100 |
| 34) 2-Butanone                 | 5.33 | 43  | 1487314 | 10.154 | ppbv 100 |
| 35) Carbon Tetrachloride       | 7.13 | 117 | 1855528 | 9.871  | ppbv 96  |
| 36) Benzene                    | 7.00 | 78  | 2026687 | 9.881  | ppbv 99  |
| 37) 1,2-Dichloroethane         | 6.41 | 62  | 1269024 | 8.868  | ppbv 100 |
| 38) Trichloroethene            | 7.96 | 130 | 829935  | 11.031 | ppbv 97  |
| 39) 1,2-Dichloropropane        | 7.73 | 63  | 750740  | 9.821  | ppbv 98  |
| 40) 1,4-Dioxane                | 7.95 | 88  | 306063  | 10.018 | ppbv 97  |
| 41) Tetrahydrofuran            | 6.14 | 42  | 795746  | 10.513 | ppbv 100 |
| 42) Bromodichloromethane       | 7.92 | 83  | 1824065 | 9.872  | ppbv 98  |
| 43) Methyl Methacrylate        | 8.14 | 69  | 833001  | 10.797 | ppbv 99  |

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| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.99  | 57   | 3444887  | 9.823  | ppbv  | 99       |
| 45) t-1,3-Dichloropropene     | 9.41  | 75   | 1149876  | 12.144 | ppbv  | 98       |
| 46) cis-1,3-Dichloropropene   | 8.84  | 75   | 1287814  | 10.897 | ppbv  | 98       |
| 47) 1,1,2-Trichloroethane     | 9.61  | 97   | 864182   | 9.844  | ppbv  | 98       |
| 48) Dibromochloromethane      | 10.45 | 129  | 1630132  | 10.954 | ppbv  | 99       |
| 49) Bromoform                 | 13.20 | 173  | 1439236  | 11.134 | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.87  | 43   | 2243330  | 10.115 | ppbv  | 100      |
| 51) 2-Hexanone                | 10.27 | 43   | 1879777  | 10.940 | ppbv  | 100      |
| 52) Tetrachloroethene         | 11.37 | 164  | 802165   | 11.039 | ppbv  | 99       |
| 53) Toluene                   | 9.95  | 91   | 2451728  | 11.064 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.76 | 107  | 1403815  | 10.616 | ppbv  | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.28 | 131  | 1095714  | 9.301  | ppbv  | 98       |
| 57) Chlorobenzene             | 12.30 | 112  | 1895924  | 9.041  | ppbv  | 99       |
| 58) Ethyl Benzene             | 12.86 | 91   | 3389460  | 10.177 | ppbv  | 99       |
| 59) m/p-Xylene                | 13.15 | 91   | 5658982m | 19.290 | ppbv  |          |
| 60) o-Xylene                  | 13.85 | 91   | 2852088  | 9.606  | ppbv  | 100      |
| 61) Styrene                   | 13.68 | 104  | 2139837  | 10.824 | ppbv  | 99       |
| 62) Isopropylbenzene          | 14.82 | 105  | 3854228  | 9.508  | ppbv  | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.83 | 83   | 1961903  | 9.080  | ppbv  | 100      |
| 64) n-propylbenzene           | 15.72 | 120  | 1009816  | 9.639  | ppbv  | 99       |
| 65) tert-Butylbenzene         | 16.91 | 119  | 3561194  | 9.577  | ppbv  | 100      |
| 66) Benzyl Chloride           | 17.15 | 91   | 2040959  | 12.065 | ppbv  | 100      |
| 67) sec-Butylbenzene          | 17.46 | 105  | 4969937  | 9.579  | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 17.81 | 119  | 4154022  | 9.717  | ppbv  | 100      |
| 70) n-Butylbenzene            | 18.71 | 91   | 4322132  | 9.535  | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 15.61 | 91   | 2955329  | 9.868  | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 16.00 | 105  | 3375804  | 9.674  | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.15 | 105  | 3232882  | 9.581  | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.92 | 105  | 3398867  | 9.062  | ppbv  | 94       |
| 75) 1,3-Dichlorobenzene       | 17.16 | 146  | 1983293  | 8.755  | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 17.31 | 146  | 1978212  | 9.202  | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.98 | 146  | 1875065  | 8.934  | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.54 | 225  | 1128568  | 6.785  | ppbv  | 100      |
| 79) Naphthalene               | 22.41 | 128  | 2922995  | 8.536  | ppbv  | 98       |
| 80) Naphthalene, 2-methyl-    | 25.11 | 142  | 978355   | 7.557  | ppbv  | 100      |
| 81) 1,2,4-Trichlorobenzene    | 22.13 | 180  | 1620919  | 8.147  | ppbv  | 99       |

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

