

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040221\  
 Data File : VL036643.D  
 Acq On : 2 Apr 2021 13:34  
 Operator : SY/AP  
 Sample : VL0402ABS01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VL0402ABS01

Manual Integrations  
 APPROVED

apatel  
 4/6/2021 2:04:32 PM

Quant Time: Apr 03 03:50:52 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Mar 2  
 QLast Update : Thu Mar 25 09:42:40 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1361123  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 3562678  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 3383688m | 10.00 | ppbv  | -0.02    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2643645  | 9.80     | ppbv | -0.02  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.00% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.04 | 85   | 1772924  | 7.986  | ppbv   | 94     |
| 3) Chlorodifluoromethane       | 2.98 | 51   | 2200777  | 8.654  | ppbv   | 100    |
| 4) Chloromethane               | 3.13 | 50   | 771473   | 8.589  | ppbv   | 99     |
| 5) Vinyl Chloride              | 3.25 | 62   | 733327   | 7.940  | ppbv   | 98     |
| 6) Bromomethane                | 3.46 | 94   | 423119   | 8.321  | ppbv   | 93     |
| 7) Chloroethane                | 3.55 | 64   | 278454   | 8.774  | ppbv   | 94     |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85   | 1840232  | 8.685  | ppbv   | 94     |
| 9) Propene                     | 3.00 | 41   | 761397   | 9.392  | ppbv   | 96     |
| 10) Heptane                    | 8.11 | 43   | 1962073  | 9.500  | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.94 | 101  | 1911818  | 8.450  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101  | 1291718  | 8.930  | ppbv   | 97     |
| 13) Ethanol                    | 3.61 | 45   | 88061m   | 9.121  | ppbv   |        |
| 14) Bromoethene                | 3.73 | 108  | 550477   | 9.154  | ppbv   | 99     |
| 15) Acetone                    | 3.84 | 43   | 1594985  | 11.906 | ppbv # | 87     |
| 16) 1,3-Butadiene              | 3.32 | 39   | 871154   | 9.340  | ppbv   | 95     |
| 17) tert-Butyl alcohol         | 4.29 | 59   | 1257271  | 10.781 | ppbv   | 98     |
| 18) 1,1-Dichloroethene         | 4.28 | 96   | 577746   | 8.979  | ppbv   | 96     |
| 19) Isopropyl Alcohol          | 3.96 | 45   | 695644m  | 9.440  | ppbv   |        |
| 20) Methylene Chloride         | 4.33 | 84   | 493288   | 7.864  | ppbv   | 92     |
| 21) Allyl Chloride             | 4.40 | 41   | 1011001  | 9.467  | ppbv   | 96     |
| 22) trans-1,2-Dichloroethene   | 4.87 | 96   | 580541   | 9.732  | ppbv   | 89     |
| 23) Vinyl Acetate              | 5.06 | 43   | 2783721  | 12.148 | ppbv # | 96     |
| 24) 1,1-Dichloroethane         | 5.00 | 63   | 1485925  | 8.896  | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.67 | 43   | 3019453  | 9.480  | ppbv   | 99     |
| 26) Hexane                     | 5.67 | 57   | 1450761  | 9.816  | ppbv   | 97     |
| 27) Carbon Disulfide           | 4.54 | 76   | 1451099  | 9.966  | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73   | 1753148  | 10.058 | ppbv   | 100    |
| 29) Chloroform                 | 5.74 | 83   | 2058116  | 8.707  | ppbv   | 99     |
| 30) Cyclohexane                | 7.12 | 84   | 1162539  | 9.698  | ppbv   | 100    |
| 31) cis-1,2-Dichloroethene     | 5.54 | 61   | 1367990  | 9.569  | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane      | 6.50 | 97   | 2152161  | 9.034  | ppbv   | 99     |
| 34) 2-Butanone                 | 5.24 | 43   | 1407370  | 8.093  | ppbv   | 97     |
| 35) Carbon Tetrachloride       | 7.00 | 117  | 2257279  | 8.249  | ppbv   | 97     |
| 36) Benzene                    | 6.88 | 78   | 2811080  | 8.555  | ppbv   | 100    |
| 37) 1,2-Dichloroethane         | 6.29 | 62   | 1602107  | 8.284  | ppbv   | 100    |
| 38) Trichloroethene            | 7.82 | 130  | 1049097  | 8.204  | ppbv   | 93     |
| 39) 1,2-Dichloropropane        | 7.60 | 63   | 1102154  | 8.269  | ppbv   | 98     |
| 40) 1,4-Dioxane                | 7.83 | 88   | 221496   | 7.140  | ppbv # | 1      |
| 41) Tetrahydrofuran            | 6.04 | 42   | 706042   | 8.805  | ppbv   | 97     |
| 42) Bromodichloromethane       | 7.78 | 83   | 2249260  | 8.551  | ppbv   | 97     |
| 43) Methyl Methacrylate        | 8.00 | 69   | 1024837  | 9.289  | ppbv   | 97     |

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 QLast Update : Thu Mar 25 09:42:40 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.86  | 57   | 5729849  | 9.908  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.27  | 75   | 1232883  | 9.786  | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.69  | 75   | 1487530  | 9.237  | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 1100969  | 8.155  | ppbv   | 96       |
| 48) Dibromochloromethane      | 10.29 | 129  | 1921424  | 9.336  | ppbv   | 100      |
| 49) Bromoform                 | 13.03 | 173  | 1592376  | 9.603  | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 2267495  | 9.011  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.12 | 43   | 1252043  | 9.860  | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.21 | 164  | 1048550  | 8.666  | ppbv   | 97       |
| 53) Toluene                   | 9.79  | 91   | 3167626  | 9.053  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.60 | 107  | 1601303  | 8.399  | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.11 | 131  | 1303084  | 8.514  | ppbv # | 56       |
| 57) Chlorobenzene             | 12.13 | 112  | 2286878  | 7.943  | ppbv   | 96       |
| 58) Ethyl Benzene             | 12.70 | 91   | 4200060  | 8.532  | ppbv   | 100      |
| 59) m/p-Xylene                | 12.99 | 91   | 6954366m | 16.196 | ppbv   |          |
| 60) o-Xylene                  | 13.68 | 91   | 3254810  | 7.840  | ppbv   | 100      |
| 61) Styrene                   | 13.52 | 104  | 1981771  | 9.488  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.66 | 105  | 4540879  | 8.122  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.66 | 83   | 2138433  | 6.752  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.55 | 120  | 1197927  | 8.764  | ppbv   | 91       |
| 65) tert-Butylbenzene         | 16.73 | 119  | 3951655  | 8.151  | ppbv   | 98       |
| 66) Benzyl Chloride           | 16.98 | 91   | 574712   | 10.725 | ppbv # | 96       |
| 67) sec-Butylbenzene          | 17.28 | 105  | 5413286  | 7.910  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.64 | 119  | 4653050  | 8.707  | ppbv   | 98       |
| 70) n-Butylbenzene            | 18.54 | 91   | 4520564  | 8.159  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.44 | 91   | 3320793  | 7.927  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.83 | 105  | 3795533  | 8.343  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.99 | 105  | 3490328  | 8.220  | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.75 | 105  | 3543824  | 7.799  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 16.99 | 146  | 2087406  | 8.162  | ppbv   | 97       |
| 76) 1,4-Dichlorobenzene       | 17.13 | 146  | 2001379  | 7.881  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.81 | 146  | 1943245  | 8.083  | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.37 | 225  | 1824036  | 8.472  | ppbv   | 99       |
| 79) Naphthalene               | 22.19 | 128  | 3004751  | 11.333 | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 24.98 | 142  | 483973   | 9.256  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.92 | 180  | 1674644  | 10.230 | ppbv   | 97       |

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

