

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012622\  
 Data File : VL038295.D  
 Acq On : 26 Jan 2022 20:06  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/27/2022  
 Supervised By : Mahesh Dadoda 01/28/2022

Quant Time: Jan 27 04:17:09 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012422A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Mon Jan 24 14:12:48 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.64  | 49   | 763086   | 10.00 | ppbv  | -0.04    |
| 33) 1,4-Difluorobenzene | 7.14  | 114  | 2130360  | 10.00 | ppbv  | -0.04    |
| 55) Chlorobenzene-d5    | 12.04 | 117  | 1870763m | 10.00 | ppbv  | -0.04    |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.37  | 95    | 1450420  | 10.21    | ppbv | -0.04   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.10% |

## Target Compounds

|                                | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.03 | 85   | 1042408  | 6.417  | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 2.98 | 51   | 1426009  | 9.387  | ppbv   | 99     |
| 4) Chloromethane               | 3.12 | 50   | 439399   | 8.407  | ppbv   | 92     |
| 5) Vinyl Chloride              | 3.24 | 62   | 445346   | 8.538  | ppbv   | 98     |
| 6) Bromomethane                | 3.46 | 94   | 161359   | 5.722  | ppbv   | 94     |
| 7) Chloroethane                | 3.54 | 64   | 154160   | 8.750  | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane   | 3.17 | 85   | 1089925  | 8.671  | ppbv   | 99     |
| 9) Propene                     | 3.00 | 41   | 427847   | 8.652  | ppbv   | 96     |
| 10) Heptane                    | 8.09 | 43   | 1117829  | 8.786  | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.93 | 101  | 1130264  | 8.931  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.46 | 101  | 829347   | 8.670  | ppbv   | 98     |
| 13) Ethanol                    | 3.58 | 45   | 57148m   | 10.765 | ppbv   |        |
| 14) Bromoethene                | 3.72 | 108  | 326160   | 8.726  | ppbv   | 97     |
| 15) Acetone                    | 3.83 | 43   | 640013   | 9.514  | ppbv   | 99     |
| 16) 1,3-Butadiene              | 3.31 | 39   | 465991   | 9.653  | ppbv   | 91     |
| 17) tert-Butyl alcohol         | 4.26 | 59   | 641180   | 8.685  | ppbv   | 97     |
| 18) 1,1-Dichloroethene         | 4.27 | 96   | 361904   | 8.700  | ppbv   | 98     |
| 19) Isopropyl Alcohol          | 3.94 | 45   | 369198   | 8.773  | ppbv   | 100    |
| 20) Methylene Chloride         | 4.32 | 84   | 296157   | 7.570  | ppbv   | 96     |
| 21) Allyl Chloride             | 4.39 | 41   | 465859   | 7.827  | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96   | 373438   | 8.688  | ppbv   | 98     |
| 23) Vinyl Acetate              | 5.04 | 43   | 871188   | 8.907  | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 4.98 | 63   | 772909   | 8.871  | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.65 | 43   | 1598164  | 8.486  | ppbv   | 99     |
| 26) Hexane                     | 5.66 | 57   | 765939   | 8.744  | ppbv   | 96     |
| 27) Carbon Disulfide           | 4.53 | 76   | 884769   | 8.633  | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.01 | 73   | 763360   | 8.400  | ppbv   | 99     |
| 29) Chloroform                 | 5.72 | 83   | 1281735  | 8.964  | ppbv   | 98     |
| 30) Cyclohexane                | 7.10 | 84   | 674096   | 8.838  | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene     | 5.52 | 61   | 569538   | 7.453  | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane      | 6.48 | 97   | 1273750  | 8.918  | ppbv   | 99     |
| 34) 2-Butanone                 | 5.21 | 43   | 585338   | 8.402  | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 6.98 | 117  | 1308441  | 8.750  | ppbv   | 98     |
| 36) Benzene                    | 6.86 | 78   | 1670121  | 8.863  | ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.27 | 62   | 973502   | 9.019  | ppbv   | 100    |
| 38) Trichloroethene            | 7.80 | 130  | 593967   | 8.462  | ppbv   | 97     |
| 39) 1,2-Dichloropropane        | 7.58 | 63   | 656326   | 8.591  | ppbv   | 95     |
| 40) 1,4-Dioxane                | 7.79 | 88   | 158384   | 8.613  | ppbv # | 1      |
| 41) Tetrahydrofuran            | 6.02 | 42   | 363113   | 7.753  | ppbv   | 98     |
| 42) Bromodichloromethane       | 7.76 | 83   | 1405508  | 8.777  | ppbv   | 98     |
| 43) Methyl Methacrylate        | 7.98 | 69   | 631987   | 9.482  | ppbv   | 98     |

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| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.83  | 57   | 2875796  | 8.660  | ppbv   | 97       |
| 45) t-1,3-Dichloropropene     | 9.24  | 75   | 202603   | 3.741  | ppbv   | 94       |
| 46) cis-1,3-Dichloropropene   | 8.66  | 75   | 345569   | 4.783  | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 9.44  | 97   | 663761   | 8.842  | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.26 | 129  | 1129451  | 8.937  | ppbv   | 98       |
| 49) Bromoform                 | 13.00 | 173  | 829536   | 9.105  | ppbv   | 96       |
| 50) 4-Methyl-2-Pentanone      | 8.71  | 43   | 1194260  | 9.609  | ppbv   | 100      |
| 51) 2-Hexanone                | 10.10 | 43   | 596276   | 10.894 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.18 | 164  | 510347   | 7.858  | ppbv   | 97       |
| 53) Toluene                   | 9.77  | 91   | 1851588  | 8.877  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.57 | 107  | 901245   | 8.445  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.08 | 131  | 744933   | 9.098  | ppbv   | 96       |
| 57) Chlorobenzene             | 12.10 | 112  | 1265827  | 8.456  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.67 | 91   | 2444261  | 8.890  | ppbv   | 98       |
| 59) m/p-Xylene                | 12.95 | 91   | 4068703m | 17.345 | ppbv   |          |
| 60) o-Xylene                  | 13.65 | 91   | 1908128  | 8.746  | ppbv   | 99       |
| 61) Styrene                   | 13.48 | 104  | 897661   | 8.817  | ppbv   | 97       |
| 62) Isopropylbenzene          | 14.63 | 105  | 2626575  | 9.031  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.64 | 83   | 1427555  | 8.843  | ppbv   | 98       |
| 64) n-propylbenzene           | 15.52 | 120  | 643692   | 9.200  | ppbv   | 92       |
| 65) tert-Butylbenzene         | 16.70 | 119  | 2281113  | 9.523  | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.94 | 91   | 34788m   | 3.197  | ppbv   |          |
| 67) sec-Butylbenzene          | 17.25 | 105  | 3185833  | 9.560  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.61 | 119  | 2468763  | 9.681  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.51 | 91   | 2518018  | 10.081 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 15.41 | 91   | 1978143  | 9.183  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.80 | 105  | 2097789  | 9.195  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 15.96 | 105  | 1867690  | 9.103  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.72 | 105  | 1951805  | 9.030  | ppbv # | 89       |
| 75) 1,3-Dichlorobenzene       | 16.95 | 146  | 1064554  | 9.178  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.09 | 146  | 996092   | 8.870  | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 17.77 | 146  | 1016825  | 9.438  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.34 | 225  | 589178   | 7.866  | ppbv   | 99       |
| 79) Naphthalene               | 22.15 | 128  | 953886   | 9.439  | ppbv   | 96       |
| 80) Naphthalene,2-methyl-     | 24.94 | 142  | 139113   | 12.658 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.87 | 180  | 549917m  | 9.252  | ppbv   |          |

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

