

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091621\  
 Data File : VL037617.D  
 Acq On : 16 Sep 2021 14:01  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICSVVL091621

Manual Integrations  
 APPROVED

MMDadoda  
 9/20/2021 5:27:00 PM

Quant Time: Sep 17 05:34:04 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Sep 17 05:34:04 2021  
 QLast Update : Thu Sep 16 13:42:46 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1688513  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 4955911  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 4439064m | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 3219859  | 10.04    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.40% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 3.04 | 85   | 2354925  | 7.707  | ppbv  | 100    |
| 3) Chlorodifluoromethane       | 2.98 | 51   | 2962815  | 9.303  | ppbv  | 99     |
| 4) Chloromethane               | 3.13 | 50   | 1135893  | 9.653  | ppbv  | 97     |
| 5) Vinyl Chloride              | 3.25 | 62   | 1120751  | 10.140 | ppbv  | 100    |
| 6) Bromomethane                | 3.46 | 94   | 611436   | 9.518  | ppbv  | 99     |
| 7) Chloroethane                | 3.55 | 64   | 362031   | 8.765  | ppbv  | 99     |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85   | 2476798  | 9.397  | ppbv  | 100    |
| 9) Propene                     | 3.00 | 41   | 1124420  | 10.009 | ppbv  | 96     |
| 10) Heptane                    | 8.10 | 43   | 2709265  | 10.335 | ppbv  | 99     |
| 11) Trichlorofluoromethane     | 3.94 | 101  | 2251234  | 9.177  | ppbv  | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101  | 1706847  | 9.427  | ppbv  | 99     |
| 13) Ethanol                    | 3.59 | 45   | 115004m  | 10.465 | ppbv  |        |
| 14) Bromoethene                | 3.73 | 108  | 783222   | 9.503  | ppbv  | 99     |
| 15) Acetone                    | 3.84 | 43   | 1272195  | 7.252  | ppbv  | 97     |
| 16) 1,3-Butadiene              | 3.32 | 39   | 1080395  | 9.856  | ppbv  | 99     |
| 17) tert-Butyl alcohol         | 4.27 | 59   | 1571800  | 10.566 | ppbv  | 99     |
| 18) 1,1-Dichloroethene         | 4.28 | 96   | 779821   | 9.245  | ppbv  | 99     |
| 19) Isopropyl Alcohol          | 3.94 | 45   | 988918   | 10.360 | ppbv  | # 95   |
| 20) Methylene Chloride         | 4.33 | 84   | 641711   | 7.662  | ppbv  | 95     |
| 21) Allyl Chloride             | 4.40 | 41   | 1302293  | 9.936  | ppbv  | 99     |
| 22) trans-1,2-Dichloroethene   | 4.87 | 96   | 780158   | 9.193  | ppbv  | 97     |
| 23) Vinyl Acetate              | 5.06 | 43   | 2162659  | 8.908  | ppbv  | 99     |
| 24) 1,1-Dichloroethane         | 4.99 | 63   | 1597230  | 9.184  | ppbv  | 98     |
| 25) Ethyl Acetate              | 5.66 | 43   | 4228079  | 9.951  | ppbv  | 99     |
| 26) Hexane                     | 5.67 | 57   | 1964044  | 9.731  | ppbv  | 98     |
| 27) Carbon Disulfide           | 4.54 | 76   | 1972337  | 10.682 | ppbv  | 99     |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73   | 1658252  | 9.328  | ppbv  | 99     |
| 29) Chloroform                 | 5.73 | 83   | 2758519  | 9.360  | ppbv  | 97     |
| 30) Cyclohexane                | 7.11 | 84   | 1698807  | 9.841  | ppbv  | 98     |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61   | 1866994  | 10.189 | ppbv  | 99     |
| 32) 1,1,1-Trichloroethane      | 6.49 | 97   | 2648626  | 9.653  | ppbv  | 100    |
| 34) 2-Butanone                 | 5.23 | 43   | 1836352  | 9.118  | ppbv  | 98     |
| 35) Carbon Tetrachloride       | 7.00 | 117  | 2769711  | 9.880  | ppbv  | 99     |
| 36) Benzene                    | 6.87 | 78   | 4075013  | 9.861  | ppbv  | 100    |
| 37) 1,2-Dichloroethane         | 6.29 | 62   | 1958332  | 9.635  | ppbv  | 100    |
| 38) Trichloroethene            | 7.82 | 130  | 1601485  | 9.277  | ppbv  | 98     |
| 39) 1,2-Dichloropropane        | 7.59 | 63   | 1573592  | 9.942  | ppbv  | 98     |
| 40) 1,4-Dioxane                | 7.82 | 88   | 388209   | 10.083 | ppbv  | # 1    |
| 41) Tetrahydrofuran            | 6.03 | 42   | 1010375  | 10.672 | ppbv  | 99     |
| 42) Bromodichloromethane       | 7.77 | 83   | 2944837  | 10.109 | ppbv  | 97     |
| 43) Methyl Methacrylate        | 7.99 | 69   | 1455841  | 10.589 | ppbv  | 97     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091621\  
 Data File : VL037617.D  
 Acq On : 16 Sep 2021 14:01  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL091621

Manual Integrations  
 APPROVED

MMDadoda  
 9/20/2021 5:27:00 PM

Quant Time: Sep 17 05:34:04 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Sep 17 05:34:04 2021  
 QLast Update : Thu Sep 16 13:42:46 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.85  | 57   | 6804955  | 9.795  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.26  | 75   | 1279424  | 11.848 | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.68  | 75   | 1686287  | 11.560 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.46  | 97   | 1620697  | 9.256  | ppbv   | 96       |
| 48) Dibromochloromethane      | 10.28 | 129  | 2546145  | 10.424 | ppbv   | 100      |
| 49) Bromoform                 | 13.02 | 173  | 2020718  | 10.336 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.72  | 43   | 2586432  | 10.118 | ppbv   | 98       |
| 51) 2-Hexanone                | 10.11 | 43   | 1211931  | 10.746 | ppbv   | 98       |
| 52) Tetrachloroethene         | 11.20 | 164  | 1474584  | 9.295  | ppbv   | 98       |
| 53) Toluene                   | 9.79  | 91   | 4692161  | 10.215 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.59 | 107  | 2343342  | 9.774  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.11 | 131  | 1752406  | 9.517  | ppbv   | 96       |
| 57) Chlorobenzene             | 12.13 | 112  | 3386252  | 9.176  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.69 | 91   | 5935088  | 10.072 | ppbv   | 100      |
| 59) m/p-Xylene                | 12.97 | 91   | 9721656m | 18.932 | ppbv   |          |
| 60) o-Xylene                  | 13.67 | 91   | 4559827  | 9.329  | ppbv   | 100      |
| 61) Styrene                   | 13.50 | 104  | 2622511  | 10.881 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.64 | 105  | 6371762  | 9.332  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.65 | 83   | 3129156  | 8.181  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.54 | 120  | 1716825  | 9.744  | ppbv   | 95       |
| 65) tert-Butylbenzene         | 16.72 | 119  | 5500541  | 8.935  | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.96 | 91   | 337936   | 10.045 | ppbv   | 98       |
| 67) sec-Butylbenzene          | 17.27 | 105  | 7583489  | 9.080  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.63 | 119  | 6365594  | 9.329  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.53 | 91   | 6252470  | 9.684  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.43 | 91   | 4634685  | 9.472  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.82 | 105  | 5358997  | 9.552  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.98 | 105  | 4805323  | 9.189  | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.74 | 105  | 4992633  | 9.064  | ppbv # | 92       |
| 75) 1,3-Dichlorobenzene       | 16.97 | 146  | 3030146  | 8.854  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.11 | 146  | 2922252  | 8.657  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.79 | 146  | 2947725  | 9.081  | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 2373501  | 8.688  | ppbv   | 100      |
| 79) Naphthalene               | 22.17 | 128  | 4210458  | 12.449 | ppbv   | 100      |
| 80) Naphthalene, 2-methyl-    | 24.95 | 142  | 1296779  | 16.775 | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 21.90 | 180  | 2430301  | 11.192 | ppbv   | 99       |

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

