

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\  
 Data File : VL036216.D  
 Acq On : 13 Jan 2021 6:24  
 Operator : SY/AP  
 Sample : VSTDIC015  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Manual Integrations  
 APPROVED

MMDadoda  
 1/18/2021 3:49:01 PM

Quant Time: Jan 14 16:08:59 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jan 13 2021  
 QLast Update : Wed Jan 13 05:46:16 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1517477  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 3407171  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 3321852  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 2717176  | 10.20    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.00% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.04 | 85   | 2367072  | 13.286 | ppbv   | 100    |
| 3) Chlorodifluoromethane       | 2.98 | 51   | 2518052  | 14.504 | ppbv   | 98     |
| 4) Chloromethane               | 3.13 | 50   | 1245934  | 14.584 | ppbv   | 96     |
| 5) Vinyl Chloride              | 3.25 | 62   | 1222702  | 12.986 | ppbv   | 96     |
| 6) Bromomethane                | 3.47 | 94   | 666851   | 13.836 | ppbv   | 98     |
| 7) Chloroethane                | 3.55 | 64   | 426552   | 13.451 | ppbv   | 94     |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85   | 2491913  | 12.861 | ppbv   | 99     |
| 9) Propene                     | 3.00 | 41   | 1181105  | 13.710 | ppbv   | 97     |
| 10) Heptane                    | 8.12 | 43   | 2960102  | 13.472 | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.94 | 101  | 2698597  | 13.208 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101  | 1691690  | 12.402 | ppbv   | 100    |
| 13) Ethanol                    | 3.60 | 45   | 167541   | 14.042 | ppbv   | 85     |
| 14) Bromoethene                | 3.74 | 108  | 774084   | 13.692 | ppbv   | 96     |
| 15) Acetone                    | 3.84 | 43   | 2285611  | 12.727 | ppbv   | 97     |
| 16) 1,3-Butadiene              | 3.32 | 39   | 1245219  | 13.737 | ppbv   | 100    |
| 17) tert-Butyl alcohol         | 4.29 | 59   | 1673617m | 9.899  | ppbv   |        |
| 18) 1,1-Dichloroethene         | 4.28 | 96   | 786879   | 12.987 | ppbv   | 93     |
| 19) Isopropyl Alcohol          | 3.96 | 45   | 1182749  | 10.779 | ppbv # | 98     |
| 20) Methylene Chloride         | 4.34 | 84   | 690227   | 9.592  | ppbv   | 96     |
| 21) Allyl Chloride             | 4.40 | 41   | 1393131  | 11.965 | ppbv   | 95     |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96   | 765656   | 12.701 | ppbv   | 97     |
| 23) Vinyl Acetate              | 5.07 | 43   | 3214059  | 13.460 | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 5.01 | 63   | 2209085  | 13.151 | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.67 | 43   | 4910783  | 13.663 | ppbv   | 100    |
| 26) Hexane                     | 5.68 | 57   | 1957270  | 12.107 | ppbv   | 100    |
| 27) Carbon Disulfide           | 4.54 | 76   | 2002710  | 12.888 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.03 | 73   | 2820261  | 12.551 | ppbv   | 97     |
| 29) Chloroform                 | 5.75 | 83   | 3030502  | 14.151 | ppbv   | 93     |
| 30) Cyclohexane                | 7.12 | 84   | 1647768  | 13.655 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61   | 2116811  | 14.302 | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97   | 3018068  | 13.660 | ppbv   | 99     |
| 34) 2-Butanone                 | 5.24 | 43   | 3190106  | 13.945 | ppbv   | 98     |
| 35) Carbon Tetrachloride       | 7.02 | 117  | 2991319  | 15.049 | ppbv   | 99     |
| 36) Benzene                    | 6.89 | 78   | 4098980  | 14.131 | ppbv   | 97     |
| 37) 1,2-Dichloroethane         | 6.30 | 62   | 2579254  | 15.256 | ppbv   | 100    |
| 38) Trichloroethene            | 7.83 | 130  | 1316461  | 12.290 | ppbv   | 96     |
| 39) 1,2-Dichloropropane        | 7.61 | 63   | 1700817  | 14.808 | ppbv   | 95     |
| 40) 1,4-Dioxane                | 7.83 | 88   | 476199   | 13.155 | ppbv # | 31     |
| 41) Tetrahydrofuran            | 6.04 | 42   | 1972841  | 14.705 | ppbv   | 97     |
| 42) Bromodichloromethane       | 7.79 | 83   | 3313549  | 14.842 | ppbv   | 97     |
| 43) Methyl Methacrylate        | 8.01 | 69   | 1884617  | 15.141 | ppbv   | 99     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M  
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 QLast Update : Wed Jan 13 05:46:16 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response  | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|-----------|--------|--------|----------|
| -----                         |       |      |           |        |        |          |
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 6884300   | 13.156 | ppbv   | 98       |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 2127987   | 16.715 | ppbv   | 95       |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 2472525   | 15.391 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 1577359   | 14.240 | ppbv   | 94       |
| 48) Dibromochloromethane      | 10.31 | 129  | 2619712   | 15.796 | ppbv   | 100      |
| 49) Bromoform                 | 13.05 | 173  | 2184737   | 16.664 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 4933410   | 14.498 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.13 | 43   | 4235271   | 15.707 | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.22 | 164  | 1298165   | 12.451 | ppbv   | 99       |
| 53) Toluene                   | 9.80  | 91   | 4520017   | 13.892 | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 10.61 | 107  | 2403743   | 14.480 | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 12.12 | 131  | 1884458   | 13.693 | ppbv # | 69       |
| 57) Chlorobenzene             | 12.15 | 112  | 3136870   | 13.391 | ppbv   | 96       |
| 58) Ethyl Benzene             | 12.71 | 91   | 6087161   | 13.284 | ppbv   | 100      |
| 59) m/p-Xylene                | 13.00 | 91   | 10002456m | 25.964 | ppbv   |          |
| 60) o-Xylene                  | 13.69 | 91   | 4664154   | 12.826 | ppbv   | 99       |
| 61) Styrene                   | 13.53 | 104  | 3498890   | 14.827 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.67 | 105  | 7027060   | 12.990 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 3314626   | 13.423 | ppbv   | 99       |
| 64) n-propylbenzene           | 15.56 | 120  | 1851084   | 14.135 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 16.75 | 119  | 5908489   | 13.281 | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.99 | 91   | 2296573   | 20.121 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.30 | 105  | 8465818   | 13.465 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.66 | 119  | 7011920   | 14.007 | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.55 | 91   | 7504640   | 14.903 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.45 | 91   | 5665314   | 13.710 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.84 | 105  | 5647754   | 14.161 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 5288020   | 13.853 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 5161094   | 13.481 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 2898848   | 15.003 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.14 | 146  | 2925226   | 14.870 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 2889695   | 15.434 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.38 | 225  | 2139511   | 14.469 | ppbv   | 99       |
| 79) Naphthalene               | 22.20 | 128  | 4236197   | 20.673 | ppbv   | 96       |
| 80) Naphthalene, 2-methyl-    | 24.98 | 142  | 1236134   | 29.527 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.93 | 180  | 2218726m  | 17.045 | ppbv   |          |
| -----                         |       |      |           |        |        |          |

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

