

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101221\  
 Data File : VL037828.D  
 Acq On : 12 Oct 2021 11:56  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

Quant Time: Oct 14 01:10:52 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Mon Oct 04 17:43:54 2021

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 10/15/2021  
 Supervised By : Mahesh Dadoda 10/15/2021

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1409843  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 4203371  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 3562302m | 10.00 | ppbv  | -0.02    |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 2678192  | 10.75    | ppbv | -0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 107.50% |

#### Target Compounds

|                                |      |     |         |             | Ovalue |
|--------------------------------|------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane     | 3.04 | 85  | 1780159 | 7.905 ppbv  | 99     |
| 3) Chlorodifluoromethane       | 2.98 | 51  | 2471195 | 9.122 ppbv  | 99     |
| 4) Chloromethane               | 3.13 | 50  | 927276  | 9.346 ppbv  | 98     |
| 5) Vinyl Chloride              | 3.25 | 62  | 929425  | 10.219 ppbv | 96     |
| 6) Bromomethane                | 3.47 | 94  | 480963  | 9.776 ppbv  | 99     |
| 7) Chloroethane                | 3.55 | 64  | 330005  | 9.868 ppbv  | 95     |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85  | 2132477 | 9.581 ppbv  | 99     |
| 9) Propene                     | 3.01 | 41  | 881447  | 8.843 ppbv  | 100    |
| 10) Heptane                    | 8.11 | 43  | 2226411 | 9.835 ppbv  | 99     |
| 11) Trichlorofluoromethane     | 3.94 | 101 | 1910232 | 9.508 ppbv  | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101 | 1452417 | 9.541 ppbv  | 98     |
| 13) Ethanol                    | 3.60 | 45  | 81743   | 10.028 ppbv | 92     |
| 14) Bromoethene                | 3.73 | 108 | 654095  | 9.772 ppbv  | 96     |
| 15) Acetone                    | 3.84 | 43  | 1094757 | 8.650 ppbv  | 99     |
| 16) 1,3-Butadiene              | 3.32 | 39  | 924861  | 10.044 ppbv | 98     |
| 17) tert-Butyl alcohol         | 4.28 | 59  | 1196287 | 9.178 ppbv  | 99     |
| 18) 1,1-Dichloroethene         | 4.28 | 96  | 656776  | 9.493 ppbv  | 99     |
| 19) Isopropyl Alcohol          | 3.96 | 45  | 709299  | 9.008 ppbv  | # 95   |
| 20) Methylene Chloride         | 4.34 | 84  | 557894  | 8.724 ppbv  | 97     |
| 21) Allyl Chloride             | 4.40 | 41  | 1043633 | 9.308 ppbv  | 95     |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96  | 679892  | 9.775 ppbv  | 98     |
| 23) Vinyl Acetate              | 5.06 | 43  | 1984549 | 10.463 ppbv | 97     |
| 24) 1,1-Dichloroethane         | 5.00 | 63  | 1349887 | 9.777 ppbv  | 98     |
| 25) Ethyl Acetate              | 5.67 | 43  | 3498037 | 9.850 ppbv  | 99     |
| 26) Hexane                     | 5.68 | 57  | 1628945 | 9.315 ppbv  | 97     |
| 27) Carbon Disulfide           | 4.54 | 76  | 1656014 | 10.685 ppbv | 99     |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73  | 1447058 | 9.939 ppbv  | 98     |
| 29) Chloroform                 | 5.74 | 83  | 2362225 | 9.450 ppbv  | 97     |
| 30) Cyclohexane                | 7.12 | 84  | 1383789 | 9.331 ppbv  | 100    |
| 31) cis-1,2-Dichloroethene     | 5.54 | 61  | 1540119 | 9.701 ppbv  | 98     |
| 32) 1,1,1-Trichloroethane      | 6.50 | 97  | 2284354 | 9.639 ppbv  | 100    |
| 34) 2-Butanone                 | 5.23 | 43  | 1566853 | 9.233 ppbv  | 99     |
| 35) Carbon Tetrachloride       | 7.01 | 117 | 2381818 | 9.977 ppbv  | 99     |
| 36) Benzene                    | 6.88 | 78  | 3402114 | 9.476 ppbv  | 99     |
| 37) 1,2-Dichloroethane         | 6.30 | 62  | 1643898 | 9.724 ppbv  | 99     |
| 38) Trichloroethene            | 7.82 | 130 | 1356177 | 9.561 ppbv  | 99     |
| 39) 1,2-Dichloropropane        | 7.60 | 63  | 1315207 | 9.739 ppbv  | 96     |
| 40) 1,4-Dioxane                | 7.82 | 88  | 333575m | 9.871 ppbv  |        |
| 41) Tetrahydrofuran            | 6.04 | 42  | 818298  | 9.848 ppbv  | 98     |
| 42) Bromodichloromethane       | 7.78 | 83  | 2498309 | 10.061 ppbv | 98     |
| 43) Methyl Methacrylate        | 8.00 | 69  | 1233096 | 10.515 ppbv | 97     |

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Reviewed By :Semsettin Yesilyurt 10/15/2021  
 Supervised By :Mahesh Dadoda 10/15/2021

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.86  | 57   | 5691965  | 9.436  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.27  | 75   | 948177   | 11.751 | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 8.69  | 75   | 1255952  | 11.230 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.46  | 97   | 1405072  | 9.571  | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.29 | 129  | 2166009  | 10.350 | ppbv   | 99       |
| 49) Bromoform                 | 13.03 | 173  | 1754571  | 10.957 | ppbv   | 97       |
| 50) 4-Methyl-2-Pentanone      | 8.73  | 43   | 2273606  | 10.292 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.12 | 43   | 1004505  | 10.186 | ppbv # | 96       |
| 52) Tetrachloroethene         | 11.21 | 164  | 1237526  | 8.860  | ppbv   | 98       |
| 53) Toluene                   | 9.79  | 91   | 3962824  | 9.960  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.60 | 107  | 1922537  | 9.695  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.11 | 131  | 1524544  | 10.338 | ppbv   | 98       |
| 57) Chlorobenzene             | 12.13 | 112  | 2919088  | 9.989  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.70 | 91   | 5076044  | 10.612 | ppbv   | 99       |
| 59) m/p-Xylene                | 12.98 | 91   | 8463692m | 20.613 | ppbv   |          |
| 60) o-Xylene                  | 13.68 | 91   | 3931344  | 9.991  | ppbv   | 99       |
| 61) Styrene                   | 13.51 | 104  | 2210598  | 11.614 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.65 | 105  | 5567814  | 10.144 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.66 | 83   | 2891542  | 9.522  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.55 | 120  | 1478056  | 10.799 | ppbv   | 97       |
| 65) tert-Butylbenzene         | 16.73 | 119  | 4886185  | 10.116 | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.98 | 91   | 263748   | 11.065 | ppbv # | 98       |
| 67) sec-Butylbenzene          | 17.28 | 105  | 6765817  | 10.242 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.64 | 119  | 5567447  | 10.425 | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.54 | 91   | 5394839  | 10.633 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.44 | 91   | 4034072  | 10.408 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.82 | 105  | 4699418  | 10.518 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 15.98 | 105  | 4258324  | 10.492 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.75 | 105  | 4391391  | 10.304 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 16.98 | 146  | 2633614  | 9.974  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.12 | 146  | 2534690  | 10.063 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.80 | 146  | 2582101  | 10.180 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 1785766  | 8.622  | ppbv   | 99       |
| 79) Naphthalene               | 22.18 | 128  | 2888113  | 11.065 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.95 | 142  | 671737   | 9.584  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.90 | 180  | 1729508  | 10.360 | ppbv   | 98       |

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

