

Data File : VL037053.D  
Acq On : 24 May 2021 18:03  
Operator : SY/AP  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleID :  
VSTDCCC010EC

Manual Integrations  
APPROVED

MMDadoda  
5/25/2021 6:00:39 PM

Quant Time: May 25 03:23:55 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL051821AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 2021  
QLast Update : Tue May 18 12:00:15 2021  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1205204  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 3662650  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 3441027m | 10.00 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2597132  | 10.05    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.50% |

#### Target Compounds

|                                |      |     |         |        |        | Qvalue |
|--------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.03 | 85  | 2116484 | 10.352 | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 2.97 | 51  | 2472232 | 11.197 | ppbv   | 97     |
| 4) Chloromethane               | 3.12 | 50  | 821690  | 10.936 | ppbv   | 98     |
| 5) Vinyl Chloride              | 3.24 | 62  | 892546  | 10.868 | ppbv   | 100    |
| 6) Bromomethane                | 3.46 | 94  | 545307  | 12.601 | ppbv   | 98     |
| 7) Chloroethane                | 3.54 | 64  | 319719  | 11.990 | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane   | 3.17 | 85  | 2295907 | 11.960 | ppbv   | 98     |
| 9) Propene                     | 2.99 | 41  | 779771  | 9.863  | ppbv   | 97     |
| 10) Heptane                    | 8.10 | 43  | 2029465 | 10.300 | ppbv   | 100    |
| 11) Trichlorofluoromethane     | 3.93 | 101 | 2317968 | 12.249 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101 | 1595320 | 11.835 | ppbv   | 96     |
| 13) Ethanol                    | 3.59 | 45  | 81576   | 7.733  | ppbv   | 85     |
| 14) Bromoethene                | 3.72 | 108 | 693060  | 11.673 | ppbv   | 98     |
| 15) Acetone                    | 3.83 | 43  | 1204644 | 9.759  | ppbv   | 95     |
| 16) 1,3-Butadiene              | 3.31 | 39  | 877514  | 11.442 | ppbv   | 97     |
| 17) tert-Butyl alcohol         | 4.27 | 59  | 1251072 | 11.064 | ppbv   | 99     |
| 18) 1,1-Dichloroethene         | 4.27 | 96  | 721269  | 11.571 | ppbv   | 95     |
| 19) Isopropyl Alcohol          | 3.95 | 45  | 698318  | 10.524 | ppbv # | 36     |
| 20) Methylene Chloride         | 4.32 | 84  | 638275  | 9.646  | ppbv   | 98     |
| 21) Allyl Chloride             | 4.39 | 41  | 1037731 | 11.143 | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96  | 719186  | 12.039 | ppbv   | 97     |
| 23) Vinyl Acetate              | 5.05 | 43  | 2092047 | 10.677 | ppbv # | 98     |
| 24) 1,1-Dichloroethane         | 4.99 | 63  | 1591100 | 11.282 | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.65 | 43  | 3193481 | 10.766 | ppbv   | 100    |
| 26) Hexane                     | 5.67 | 57  | 1546446 | 10.205 | ppbv   | 98     |
| 27) Carbon Disulfide           | 4.53 | 76  | 1674107 | 10.961 | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether    | 5.01 | 73  | 1854669 | 10.210 | ppbv   | 100    |
| 29) Chloroform                 | 5.73 | 83  | 2486002 | 11.612 | ppbv   | 98     |
| 30) Cyclohexane                | 7.11 | 84  | 1395017 | 10.833 | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61  | 1554573 | 11.442 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane      | 6.49 | 97  | 2548159 | 11.084 | ppbv   | 98     |
| 34) 2-Butanone                 | 5.22 | 43  | 1498472 | 11.236 | ppbv   | 100    |
| 35) Carbon Tetrachloride       | 7.00 | 117 | 2758112 | 11.334 | ppbv   | 98     |
| 36) Benzene                    | 6.87 | 78  | 3238691 | 10.266 | ppbv   | 97     |
| 37) 1,2-Dichloroethane         | 6.29 | 62  | 1879311 | 12.015 | ppbv   | 100    |
| 38) Trichloroethene            | 7.81 | 130 | 1397071 | 10.352 | ppbv   | 99     |
| 39) 1,2-Dichloropropane        | 7.59 | 63  | 1241790 | 10.218 | ppbv   | 95     |
| 40) 1,4-Dioxane                | 7.82 | 88  | 332075m | 11.572 | ppbv   |        |
| 41) Tetrahydrofuran            | 6.03 | 42  | 735112  | 9.678  | ppbv   | 97     |
| 42) Bromodichloromethane       | 7.77 | 83  | 2683551 | 11.341 | ppbv   | 100    |
| 43) Methyl Methacrylate        | 7.99 | 69  | 1192462 | 10.967 | ppbv   | 98     |

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5/25/2021 6:00:39 PM

Quant Time: May 25 03:23:55 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL051821AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Tue May 18 2021  
QLast Update : Tue May 18 12:00:15 2021  
Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.84  | 57   | 5319581  | 9.828  | ppbv   | 98       |
| 45) t-1,3-Dichloropropene     | 9.26  | 75   | 1193862  | 14.371 | ppbv   | 95       |
| 46) cis-1,3-Dichloropropene   | 8.68  | 75   | 1520659  | 13.609 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.45  | 97   | 1375379  | 10.813 | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.28 | 129  | 2482449  | 12.053 | ppbv   | 100      |
| 49) Bromoform                 | 13.01 | 173  | 2056881  | 12.093 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.72  | 43   | 2301905  | 10.460 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.11 | 43   | 1255192  | 10.789 | ppbv # | 95       |
| 52) Tetrachloroethene         | 11.20 | 164  | 1367583  | 10.901 | ppbv   | 98       |
| 53) Toluene                   | 9.78  | 91   | 3929420  | 10.468 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.59 | 107  | 2116977  | 11.706 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 12.10 | 131  | 1697389  | 11.723 | ppbv # | 59       |
| 57) Chlorobenzene             | 12.12 | 112  | 3029816  | 11.356 | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.69 | 91   | 5240535  | 10.790 | ppbv   | 99       |
| 59) m/p-Xylene                | 12.98 | 91   | 8884413m | 22.131 | ppbv   |          |
| 60) o-Xylene                  | 13.67 | 91   | 4222082  | 11.027 | ppbv   | 99       |
| 61) Styrene                   | 13.50 | 104  | 2493548  | 11.560 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.64 | 105  | 5927252  | 10.772 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.65 | 83   | 2888054  | 10.100 | ppbv   | 99       |
| 64) n-propylbenzene           | 15.54 | 120  | 1611353  | 11.350 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.72 | 119  | 5392922  | 10.861 | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.97 | 91   | 257958   | 9.363  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.27 | 105  | 7225043  | 10.667 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.63 | 119  | 6333771  | 10.876 | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.53 | 91   | 6023499  | 10.888 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.43 | 91   | 4385340  | 11.034 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.82 | 105  | 5221726  | 11.491 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.97 | 105  | 4717950  | 11.056 | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.74 | 105  | 4927497  | 11.168 | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 16.97 | 146  | 3057513  | 11.348 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.11 | 146  | 2958502  | 10.860 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.79 | 146  | 2973748  | 11.015 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 2100512  | 9.676  | ppbv   | 99       |
| 79) Naphthalene               | 22.17 | 128  | 4281519  | 12.367 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.95 | 142  | 1283427  | 17.048 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.90 | 180  | 2434770  | 11.537 | ppbv   | 98       |

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

```
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