

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042021\  
 Data File : VL036821.D  
 Acq On : 20 Apr 2021 14:05  
 Operator : SY/AP  
 Sample : VL0420ABS01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 VL0420ABS01

Manual Integrations  
 APPROVED

Quant Time: Apr 21 06:49:10 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Thu Mar 25 09:42:40 2021  
 Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 04/21/2021  
 Supervised By :Mahesh Dadoda 04/21/2021

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1336498  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 3440739  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 3101169m | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 2448152  | 9.90     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.00% |

## Target Compounds

|                                |      |     |         |             | Ovalue |
|--------------------------------|------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane     | 3.05 | 85  | 1889482 | 8.668 ppbv  | 96     |
| 3) Chlorodifluoromethane       | 2.99 | 51  | 2552073 | 10.220 ppbv | 100    |
| 4) Chloromethane               | 3.14 | 50  | 861582  | 9.768 ppbv  | 92     |
| 5) Vinyl Chloride              | 3.26 | 62  | 864007  | 9.527 ppbv  | 98     |
| 6) Bromomethane                | 3.47 | 94  | 481550  | 9.644 ppbv  | 99     |
| 7) Chloroethane                | 3.56 | 64  | 290836  | 9.333 ppbv  | 99     |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85  | 1983950 | 9.536 ppbv  | 97     |
| 9) Propene                     | 3.01 | 41  | 846031  | 10.628 ppbv | 99     |
| 10) Heptane                    | 8.13 | 43  | 2172000 | 10.710 ppbv | 99     |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 2026411 | 9.122 ppbv  | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 1331976 | 9.378 ppbv  | 98     |
| 13) Ethanol                    | 3.61 | 45  | 94751   | 9.995 ppbv  | 93     |
| 14) Bromoethene                | 3.74 | 108 | 582847  | 9.871 ppbv  | 98     |
| 15) Acetone                    | 3.85 | 43  | 1194002 | 9.077 ppbv  | 99     |
| 16) 1,3-Butadiene              | 3.33 | 39  | 889018  | 9.708 ppbv  | 100    |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 1256549 | 10.973 ppbv | 99     |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 605413  | 9.583 ppbv  | 92     |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 749963  | 10.364 ppbv | # 97   |
| 20) Methylene Chloride         | 4.35 | 84  | 528644  | 8.583 ppbv  | 95     |
| 21) Allyl Chloride             | 4.41 | 41  | 1012333 | 9.654 ppbv  | 99     |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 620647  | 10.596 ppbv | 95     |
| 23) Vinyl Acetate              | 5.08 | 43  | 2333385 | 10.370 ppbv | 99     |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 1393899 | 8.499 ppbv  | 99     |
| 25) Ethyl Acetate              | 5.69 | 43  | 3343829 | 10.692 ppbv | 99     |
| 26) Hexane                     | 5.69 | 57  | 1553529 | 10.705 ppbv | 99     |
| 27) Carbon Disulfide           | 4.56 | 76  | 1508529 | 10.552 ppbv | 99     |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 1636968 | 9.564 ppbv  | 98     |
| 29) Chloroform                 | 5.76 | 83  | 2472550 | 10.653 ppbv | 100    |
| 30) Cyclohexane                | 7.14 | 84  | 1320991 | 11.223 ppbv | 97     |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61  | 1520672 | 10.833 ppbv | 96     |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 2458552 | 10.511 ppbv | 99     |
| 34) 2-Butanone                 | 5.25 | 43  | 1649828 | 9.823 ppbv  | 98     |
| 35) Carbon Tetrachloride       | 7.03 | 117 | 2599848 | 9.838 ppbv  | 98     |
| 36) Benzene                    | 6.90 | 78  | 3287735 | 10.361 ppbv | 99     |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 1876757 | 10.049 ppbv | 99     |
| 38) Trichloroethene            | 7.84 | 130 | 1187381 | 9.615 ppbv  | 98     |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 1268907 | 9.858 ppbv  | 97     |
| 40) 1,4-Dioxane                | 7.84 | 88  | 321716  | 10.738 ppbv | 80     |
| 41) Tetrahydrofuran            | 6.06 | 42  | 796024  | 10.279 ppbv | 96     |
| 42) Bromodichloromethane       | 7.80 | 83  | 2653853 | 10.446 ppbv | 98     |
| 43) Methyl Methacrylate        | 8.02 | 69  | 1182301 | 11.095 ppbv | 96     |

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| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.88  | 57   | 5469003  | 9.792  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 1419009  | 11.662 | ppbv   | 97       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1754036  | 11.278 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 1321925  | 10.139 | ppbv   | 96       |
| 48) Dibromochloromethane      | 10.31 | 129  | 2197240  | 11.055 | ppbv   | 99       |
| 49) Bromoform                 | 13.06 | 173  | 1773978  | 11.077 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 2537762  | 10.443 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.15 | 43   | 1353409  | 11.036 | ppbv # | 98       |
| 52) Tetrachloroethene         | 11.23 | 164  | 1097424  | 9.392  | ppbv   | 94       |
| 53) Toluene                   | 9.82  | 91   | 3670059  | 10.860 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 1898348  | 10.310 | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 12.14 | 131  | 1469214  | 10.474 | ppbv   | 100      |
| 57) Chlorobenzene             | 12.16 | 112  | 2703782  | 10.247 | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.73 | 91   | 4913973  | 10.892 | ppbv   | 99       |
| 59) m/p-Xylene                | 13.01 | 91   | 8270145m | 21.015 | ppbv   |          |
| 60) o-Xylene                  | 13.71 | 91   | 3892500  | 10.230 | ppbv   | 99       |
| 61) Styrene                   | 13.54 | 104  | 2286130  | 11.942 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.68 | 105  | 5260571  | 10.266 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.69 | 83   | 2837780  | 9.777  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.57 | 120  | 1380712  | 11.021 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 16.76 | 119  | 4593621  | 10.338 | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.00 | 91   | 639485   | 13.021 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.31 | 105  | 6464591  | 10.307 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.67 | 119  | 5375068  | 10.975 | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.57 | 91   | 5548959  | 10.927 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 4100632  | 10.680 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.85 | 105  | 4546642  | 10.905 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 4190330  | 10.768 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.78 | 105  | 4294324  | 10.312 | ppbv   | 93       |
| 75) 1,3-Dichlorobenzene       | 17.01 | 146  | 2515809  | 10.733 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.15 | 146  | 2436162  | 10.468 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.83 | 146  | 2405596  | 10.918 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.39 | 225  | 1800313  | 9.123  | ppbv   | 99       |
| 79) Naphthalene               | 22.21 | 128  | 2888890  | 11.888 | ppbv   | 100      |
| 80) Naphthalene, 2-methyl-    | 24.99 | 142  | 556923   | 11.622 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.95 | 180  | 1705668  | 11.368 | ppbv   | 99       |

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

