

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL012021\  
 Data File : VL036243.D  
 Acq On : 20 Jan 2021 9:55  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

MMDadoda  
 1/21/2021 10:35:53 AM

Quant Time: Jan 21 01:33:41 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL011321AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Jan 14 16:13:38 2021

QLast Update : Thu Jan 14 16:13:38 2021

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|--------|------|----------|-------|-------|----------|
| -----                   |        |      |          |       |       |          |
| Internal Standards      |        |      |          |       |       |          |
| 1) Bromochloromethane   | 5.677  | 49   | 1443381  | 10.00 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 7.189  | 114  | 3266822  | 10.00 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 12.098 | 117  | 3146777m | 10.00 | ppbv  | 0.01     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.433 95 2605942 10.00 ppbv 0.02  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.00%

#### Target Compounds

|                               |       |     |         |       |      | Qvalue |
|-------------------------------|-------|-----|---------|-------|------|--------|
| 2) Dichlorodifluoromethane    | 3.050 | 85  | 1730821 | 8.95  | ppbv | 100    |
| 3) Chlorodifluoromethane      | 2.993 | 51  | 1781530 | 10.05 | ppbv | 98     |
| 4) Chloromethane              | 3.144 | 50  | 863296  | 9.85  | ppbv | 98     |
| 5) Vinyl Chloride             | 3.263 | 62  | 863544  | 10.42 | ppbv | 98     |
| 6) Bromomethane               | 3.481 | 94  | 472041  | 10.18 | ppbv | 98     |
| 7) Chloroethane               | 3.562 | 64  | 294053  | 10.30 | ppbv | 95     |
| 8) Dichlorotetrafluoroethane  | 3.192 | 85  | 1903327 | 10.15 | ppbv | 98     |
| 9) Propene                    | 3.012 | 41  | 777237  | 9.21  | ppbv | 99     |
| 10) Heptane                   | 8.134 | 43  | 2053511 | 9.80  | ppbv | 100    |
| 11) Trichlorofluoromethane    | 3.954 | 101 | 2034407 | 10.34 | ppbv | 97     |
| 12) 1,1,2-Trichlorotrifluo... | 4.491 | 101 | 1250194 | 10.48 | ppbv | 97     |
| 13) Ethanol                   | 3.613 | 45  | 128848  | 9.72  | ppbv | 91     |
| 14) Bromoethene               | 3.745 | 108 | 545900  | 10.05 | ppbv | 98     |
| 15) Acetone                   | 3.858 | 43  | 1657803 | 9.38  | ppbv | 98     |
| 16) 1,3-Butadiene             | 3.333 | 39  | 861986  | 10.01 | ppbv | 99     |
| 17) tert-Butyl alcohol        | 4.298 | 59  | 1455785 | 9.98  | ppbv | 100    |
| 18) 1,1-Dichloroethene        | 4.295 | 96  | 571167  | 10.33 | ppbv | 97     |
| 19) Isopropyl Alcohol         | 3.980 | 45  | 1016448 | 9.54  | ppbv | 99     |
| 20) Methylene Chloride        | 4.349 | 84  | 482420  | 8.55  | ppbv | 97     |
| 21) Allyl Chloride            | 4.420 | 41  | 983955  | 10.23 | ppbv | 95     |
| 22) trans-1,2-Dichloroethene  | 4.890 | 96  | 542805  | 10.63 | ppbv | 95     |
| 23) Vinyl Acetate             | 5.083 | 43  | 2287431 | 10.68 | ppbv | 98     |
| 24) 1,1-Dichloroethane        | 5.018 | 63  | 1602019 | 10.32 | ppbv | 99     |
| 25) Ethyl Acetate             | 5.687 | 43  | 3423054 | 9.64  | ppbv | 99     |
| 26) Hexane                    | 5.693 | 57  | 1407961 | 9.53  | ppbv | 98     |
| 27) Carbon Disulfide          | 4.558 | 76  | 1424696 | 12.06 | ppbv | 99     |
| 28) Methyl tert-Butyl Ether   | 5.044 | 73  | 2033160 | 10.17 | ppbv | 97     |
| 29) Chloroform                | 5.764 | 83  | 2186831 | 10.34 | ppbv | 98     |
| 30) Cyclohexane               | 7.140 | 84  | 1170461 | 10.37 | ppbv | 99     |
| 31) cis-1,2-Dichloroethene    | 5.558 | 61  | 1476763 | 10.46 | ppbv | 92     |
| 32) 1,1,1-Trichloroethane     | 6.523 | 97  | 2177911 | 10.64 | ppbv | 100    |
| 34) 2-Butanone                | 5.253 | 43  | 2220926 | 9.23  | ppbv | 98     |
| 35) Carbon Tetrachloride      | 7.031 | 117 | 2122710 | 10.28 | ppbv | 97     |
| 36) Benzene                   | 6.902 | 78  | 2896918 | 9.68  | ppbv | 99     |
| 37) 1,2-Dichloroethane        | 6.317 | 62  | 1831237 | 10.17 | ppbv | 100    |
| 38) Trichloroethene           | 7.848 | 130 | 925246  | 8.35  | ppbv | 95     |
| 39) 1,2-Dichloropropane       | 7.623 | 63  | 1206024 | 9.92  | ppbv | 98     |
| 40) 1,4-Dioxane               | 7.838 | 88  | 412895m | 9.39  | ppbv |        |
| 41) Tetrahydrofuran           | 6.060 | 42  | 1339255 | 9.63  | ppbv | 98     |
| 42) Bromodichloromethane      | 7.806 | 83  | 2363154 | 10.44 | ppbv | 99     |
| 43) Methyl Methacrylate       | 8.025 | 69  | 1317057 | 10.35 | ppbv | 96     |
| 44) 2,2,4-Trimethylpentane    | 7.880 | 57  | 4985079 | 9.07  | ppbv | 99     |
| 45) t-1,3-Dichloropropene     | 9.288 | 75  | 1434805 | 11.88 | ppbv | 98     |

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Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 8.716  | 75   | 1713500  | 11.04 | ppbv  | 96       |
| 47) 1,1,2-Trichloroethane     | 9.488  | 97   | 1130940  | 9.73  | ppbv  | 95       |
| 48) Dibromochloromethane      | 10.317 | 129  | 1843055  | 10.83 | ppbv  | 99       |
| 49) Bromoform                 | 13.057 | 173  | 1528343  | 10.76 | ppbv  | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.754  | 43   | 3419700  | 9.53  | ppbv  | 100      |
| 51) 2-Hexanone                | 10.143 | 43   | 2895430  | 10.23 | ppbv  | 99       |
| 52) Tetrachloroethene         | 11.237 | 164  | 904852   | 8.20  | ppbv  | 98       |
| 53) Toluene                   | 9.819  | 91   | 3233816  | 9.66  | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.626 | 107  | 1698840  | 9.86  | ppbv  | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.140 | 131  | 1357650  | 9.67  | ppbv  | 99       |
| 57) Chlorobenzene             | 12.159 | 112  | 2257200  | 9.14  | ppbv  | 98       |
| 58) Ethyl Benzene             | 12.725 | 91   | 4376015  | 9.37  | ppbv  | 99       |
| 59) m/p-Xylene                | 13.012 | 91   | 7379626m | 18.39 | ppbv  |          |
| 60) o-Xylene                  | 13.709 | 91   | 3419569  | 8.84  | ppbv  | 100      |
| 61) Styrene                   | 13.542 | 104  | 2447358  | 10.02 | ppbv  | 99       |
| 62) Isopropylbenzene          | 14.683 | 105  | 5162890  | 8.98  | ppbv  | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.693 | 83   | 2445940  | 8.49  | ppbv  | 100      |
| 64) n-propylbenzene           | 15.581 | 120  | 1294835  | 9.16  | ppbv  | 96       |
| 65) tert-Butylbenzene         | 16.761 | 119  | 4325672  | 8.88  | ppbv  | 99       |
| 66) Benzyl Chloride           | 17.008 | 91   | 1574338  | 12.65 | ppbv  | 99       |
| 67) sec-Butylbenzene          | 17.310 | 105  | 6289610  | 8.70  | ppbv  | 99       |
| 69) p-Isopropyltoluene        | 17.667 | 119  | 5087114  | 8.87  | ppbv  | 99       |
| 70) n-Butylbenzene            | 18.568 | 91   | 5580844  | 9.13  | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 15.468 | 91   | 4086723  | 9.04  | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 15.854 | 105  | 3973863  | 9.10  | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.015 | 105  | 3760217  | 9.04  | ppbv  | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.780 | 105  | 3841404  | 9.00  | ppbv  | 99       |
| 75) 1,3-Dichlorobenzene       | 17.011 | 146  | 2023403  | 8.84  | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 17.153 | 146  | 2017893  | 8.92  | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.834 | 146  | 2024963  | 9.06  | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.390 | 225  | 1461623  | 8.17  | ppbv  | 100      |
| 79) Naphthalene               | 22.217 | 128  | 2791176  | 11.19 | ppbv  | 99       |
| 80) Naphthalene,2-methyl-     | 24.992 | 142  | 779418   | 14.64 | ppbv  | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.947 | 180  | 1438289  | 9.88  | ppbv  | 98       |

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

