

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\  
 Data File : VL037423.D  
 Acq On : 12 Aug 2021 21:25  
 Operator : SY/AP  
 Sample : M3239-03REDUP  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 OA1REDUP

Manual Integrations  
 APPROVED

apatel  
 8/13/2021 3:03:10 PM

Quant Time: Aug 13 10:54:11 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 13 2021  
 QLast Update : Fri Aug 13 01:37:35 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1250261  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3695449  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 3036851  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2062236  | 9.47     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 94.70% |

| Target Compounds               |       |     |         |             | Ovalue |
|--------------------------------|-------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane     | 3.05  | 85  | 36122   | 0.189 ppbv  | # 85   |
| 3) Chlorodifluoromethane       | 2.99  | 51  | 131499  | 0.536 ppbv  | # 91   |
| 4) Chloromethane               | 3.14  | 50  | 43568m  | 0.494 ppbv  |        |
| 5) Vinyl Chloride              | 3.25  | 62  | 77      | 0.001 ppbv  | # 43   |
| 6) Bromomethane                | 3.48  | 94  | 101     | 0.002 ppbv  | # 4    |
| 7) Chloroethane                | 3.55  | 64  | 291     | 0.009 ppbv  | # 40   |
| 8) Dichlorotetrafluoroethane   | 3.18  | 85  | 2178    | 0.010 ppbv  | # 57   |
| 9) Propene                     | 3.02  | 41  | 57655   | 0.699 ppbv  | 95     |
| 10) Heptane                    | 8.11  | 43  | 23486m  | 0.117 ppbv  |        |
| 11) Trichlorofluoromethane     | 3.95  | 101 | 36825   | 0.178 ppbv  | 97     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49  | 101 | 3561    | 0.025 ppbv  | # 1    |
| 13) Ethanol                    | 3.61  | 45  | 351044  | 39.898 ppbv | 92     |
| 14) Bromoethene                | 3.46  | 108 | 204     | 0.003 ppbv  | # 1    |
| 15) Acetone                    | 3.85  | 43  | 655074  | 4.941 ppbv  | 97     |
| 17) tert-Butyl alcohol         | 4.29  | 59  | 333     | 0.003 ppbv  | # 72   |
| 18) 1,1-Dichloroethene         | 4.19  | 96  | 123     | 0.002 ppbv  | # 72   |
| 19) Isopropyl Alcohol          | 3.99  | 45  | 166689m | 2.160 ppbv  |        |
| 20) Methylene Chloride         | 4.34  | 84  | 1529696 | 21.818 ppbv | 94     |
| 21) Allvl Chloride             | 4.40  | 41  | 2050    | 0.020 ppbv  | # 20   |
| 22) trans-1,2-Dichloroethene   | 4.88  | 96  | 292     | 0.005 ppbv  | # 58   |
| 24) 1,1-Dichloroethane         | 5.01  | 63  | 148     | 0.001 ppbv  | # 89   |
| 26) Hexane                     | 5.69  | 57  | 985655  | 6.044 ppbv  | # 46   |
| 27) Carbon Disulfide           | 4.55  | 76  | 50492   | 0.367 ppbv  | # 78   |
| 28) Methyl tert-Butyl Ether    | 5.02  | 73  | 75      | 0.000 ppbv  | # 52   |
| 30) Cyclohexane                | 7.14  | 84  | 17068m  | 0.127 ppbv  |        |
| 31) cis-1,2-Dichloroethene     | 5.52  | 61  | 131     | 0.001 ppbv  | # 22   |
| 32) 1,1,1-Trichloroethane      | 6.51  | 97  | 465     | 0.002 ppbv  | # 22   |
| 34) 2-Butanone                 | 5.26  | 43  | 38997m  | 0.256 ppbv  |        |
| 35) Carbon Tetrachloride       | 7.02  | 117 | 12017m  | 0.053 ppbv  |        |
| 36) Benzene                    | 6.89  | 78  | 85187   | 0.273 ppbv  | 95     |
| 37) 1,2-Dichloroethane         | 6.31  | 62  | 2278    | 0.014 ppbv  | # 76   |
| 38) Trichloroethene            | 7.84  | 130 | 122     | 0.001 ppbv  | # 43   |
| 40) 1,4-Dioxane                | 7.83  | 88  | 151     | 0.005 ppbv  | # 100  |
| 42) Bromodichloromethane       | 7.79  | 83  | 586     | 0.003 ppbv  | # 26   |
| 43) Methyl Methacrylate        | 8.01  | 69  | 551     | 0.005 ppbv  | # 1    |
| 44) 2,2,4-Trimethylpentane     | 7.87  | 57  | 120479m | 0.231 ppbv  |        |
| 45) t-1,3-Dichloropropene      | 9.38  | 75  | 279     | 0.004 ppbv  | 98     |
| 46) cis-1,3-Dichloropropene    | 8.70  | 75  | 233     | 0.002 ppbv  | # 43   |
| 47) 1,1,2-Trichloroethane      | 9.47  | 97  | 159     | 0.001 ppbv  | # 26   |
| 48) Dibromochloromethane       | 10.29 | 129 | 371     | 0.002 ppbv  | 97     |
| 49) Bromoform                  | 13.03 | 173 | 106     | 0.001 ppbv  | # 16   |

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| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| -----                         |       |      |          |       |        |          |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 256      | 0.001 | ppbv # | 38       |
| 51) 2-Hexanone                | 10.13 | 43   | 633      | 0.007 | ppbv # | 28       |
| 52) Tetrachloroethene         | 11.22 | 164  | 8180m    | 0.062 | ppbv   |          |
| 53) Toluene                   | 9.80  | 91   | 430954   | 1.211 | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 112      | 0.001 | ppbv # | 1        |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 255      | 0.002 | ppbv # | 6        |
| 57) Chlorobenzene             | 12.13 | 112  | 363      | 0.001 | ppbv # | 31       |
| 59) m/p-Xylene                | 12.97 | 91   | 78745m   | 0.218 | ppbv   |          |
| 61) Styrene                   | 13.53 | 104  | 1158     | 0.007 | ppbv # | 1        |
| 62) Isopropylbenzene          | 14.66 | 105  | 943      | 0.002 | ppbv # | 48       |
| 63) 1,1,2,2-Tetrachloroethane | 13.67 | 83   | 403      | 0.002 | ppbv # | 24       |
| 64) n-propylbenzene           | 15.67 | 120  | 117      | 0.001 | ppbv   | 91       |
| 65) tert-Butylbenzene         | 16.74 | 119  | 435      | 0.001 | ppbv # | 19       |
| 66) Benzyl Chloride           | 17.00 | 91   | 231      | 0.012 | ppbv # | 65       |
| 67) sec-Butylbenzene          | 17.29 | 105  | 1262     | 0.002 | ppbv # | 55       |
| 69) p-Isopropyltoluene        | 17.64 | 119  | 746      | 0.002 | ppbv # | 48       |
| 70) n-Butylbenzene            | 18.54 | 91   | 423      | 0.001 | ppbv # | 32       |
| 71) 2-Chlorotoluene           | 15.52 | 91   | 147      | 0.000 | ppbv   | 83       |
| 72) 4-Ethyltoluene            | 15.84 | 105  | 6955     | 0.018 | ppbv # | 57       |
| 73) 1,3,5-Trimethylbenzene    | 15.99 | 105  | 3341     | 0.009 | ppbv # | 34       |
| 74) 1,2,4-Trimethylbenzene    | 16.75 | 105  | 9795     | 0.026 | ppbv # | 62       |
| 75) 1,3-Dichlorobenzene       | 16.99 | 146  | 809      | 0.003 | ppbv # | 55       |
| 76) 1,4-Dichlorobenzene       | 17.13 | 146  | 824      | 0.004 | ppbv # | 22       |
| 77) 1,2-Dichlorobenzene       | 17.85 | 146  | 114      | 0.001 | ppbv # | 1        |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 257      | 0.001 | ppbv # | 18       |
| 79) Naphthalene               | 22.18 | 128  | 166      | 0.001 | ppbv # | 69       |
| 80) Naphthalene,2-methyl-     | 24.96 | 142  | 49       | 0.001 | ppbv # | 1        |
| 81) 1,2,4-Trichlorobenzene    | 21.91 | 180  | 62       | 0.000 | ppbv # | 1        |
| -----                         |       |      |          |       |        |          |

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

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