

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111921\  
 Data File : VX025230.D  
 Acq On : 18 Nov 2021 23:28  
 Operator : JC/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTD050709

Quant Time: Nov 19 05:32:21 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXLM111121WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 19 05:25:45 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :John  
 Carlone

11/19/2021  
 Supervised By :Mahesh  
 Dadoda

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) 1,4-Difluorobenzene     | 6.763  | 114  | 178942   | 50.000 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 10.055 | 117  | 167126   | 50.000 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 12.024 | 152  | 85033    | 50.000 | ug/L  | 0.00     |

### System Monitoring Compounds

|                               |         |       |          |          |      |          |
|-------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3          | 1.368   | 65    | 52061    | 43.065   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =    | 86.120%  |
| 7) Chloroethane-d5            | 1.660   | 69    | 43379    | 62.960   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =    | 125.920% |
| 11) 1,1-Dichloroethene-d2     | 2.307   | 63    | 86909    | 41.799   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =    | 83.600%  |
| 21) 2-Butanone-d5             | 4.459   | 46    | 88216    | 96.564   | ug/L | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =    | 96.560%  |
| 24) Chloroform-d              | 5.062   | 84    | 98302    | 46.223   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =    | 92.440%  |
| 26) 1,2-Dichloroethane-d4     | 5.958   | 65    | 59704    | 46.315   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =    | 92.640%  |
| 32) Benzene-d6                | 5.977   | 84    | 196358   | 43.048   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =    | 86.100%  |
| 36) 1,2-Dichloropropane-d6    | 7.312   | 67    | 60464    | 43.413   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =    | 86.820%  |
| 41) Toluene-d8                | 8.653   | 98    | 184803   | 42.425   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =    | 84.860%  |
| 43) trans-1,3-Dichloroprop... | 8.952   | 79    | 30762    | 40.687   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =    | 81.380%  |
| 47) 2-Hexanone-d5             | 9.385   | 63    | 68457    | 91.532   | ug/L | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =    | 91.530%  |
| 56) 1,1,2,2-Tetrachloroeth... | 11.195  | 84    | 90257    | 44.993   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =    | 89.980%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.323  | 152   | 76094    | 45.142   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =    | 90.280%  |

### Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.167 | 85  | 54502  | 38.971 | ug/L   | 99     |
| 3) Chloromethane              | 1.295 | 50  | 55694  | 36.785 | ug/L   | 88     |
| 5) Vinyl chloride             | 1.374 | 62  | 65746  | 42.109 | ug/L   | 99     |
| 6) Bromomethane               | 1.599 | 94  | 35445  | 59.161 | ug/L   | 96     |
| 8) Chloroethane               | 1.679 | 64  | 41499  | 52.930 | ug/L   | 99     |
| 9) Trichlorofluoromethane     | 1.886 | 101 | 102369 | 44.919 | ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.325 | 101 | 51548  | 43.650 | ug/L   | 96     |
| 12) 1,1-Dichloroethene        | 2.319 | 96  | 48834  | 42.803 | ug/L   | 83     |
| 13) Acetone                   | 2.380 | 43  | 56797  | 66.278 | ug/L   | 98     |
| 14) Carbon disulfide          | 2.508 | 76  | 121379 | 34.529 | ug/L   | 99     |
| 15) Methyl Acetate            | 2.703 | 43  | 61994  | 44.434 | ug/L # | 82     |
| 16) Methylene chloride        | 2.788 | 84  | 55703  | 44.135 | ug/L   | 82     |
| 17) trans-1,2-Dichloroethene  | 3.093 | 96  | 52296  | 42.206 | ug/L   | 88     |
| 18) Methyl tert-butyl Ether   | 3.117 | 73  | 176295 | 45.520 | ug/L # | 90     |
| 19) 1,1-Dichloroethane        | 3.611 | 63  | 93736  | 44.723 | ug/L   | 94     |
| 20) cis-1,2-Dichloroethene    | 4.489 | 96  | 61708  | 45.011 | ug/L   | 93     |
| 22) 2-Butanone                | 4.562 | 43  | 93191  | 81.694 | ug/L   | 84     |
| 23) Bromochloromethane        | 4.904 | 128 | 32899m | 46.611 | ug/L   |        |
| 25) Chloroform                | 5.099 | 83  | 100937 | 46.986 | ug/L   | 99     |

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 Quant Title : VOC Analysis  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |     |
|-------------------------------|--------|------|----------|--------|-------|----------|-----|
| 27) 1,2-Dichloroethane        | 6.092  | 62   | 74953    | 47.586 | ug/L  | #        | 88  |
| 29) Cyclohexane               | 5.471  | 56   | 84656    | 39.649 | ug/L  |          | 88  |
| 30) 1,1,1-Trichloroethane     | 5.391  | 97   | 92104    | 44.848 | ug/L  | #        | 94  |
| 31) Carbon tetrachloride      | 5.684  | 117  | 81370    | 44.871 | ug/L  |          | 98  |
| 33) Benzene                   | 6.044  | 78   | 219099   | 42.670 | ug/L  |          | 100 |
| 34) Trichloroethene           | 7.129  | 95   | 59090    | 44.039 | ug/L  |          | 84  |
| 35) Methylcyclohexane         | 7.385  | 83   | 91015    | 40.113 | ug/L  |          | 94  |
| 37) 1,2-Dichloropropane       | 7.434  | 63   | 55578    | 43.209 | ug/L  |          | 100 |
| 38) Bromodichloromethane      | 7.824  | 83   | 76573    | 43.991 | ug/L  |          | 98  |
| 39) cis-1,3-Dichloropropene   | 8.366  | 75   | 87693    | 41.520 | ug/L  |          | 99  |
| 40) 4-Methyl-2-pentanone      | 8.574  | 43   | 181520   | 88.796 | ug/L  | #        | 84  |
| 42) Toluene                   | 8.720  | 91   | 244275   | 43.799 | ug/L  |          | 94  |
| 44) trans-1,3-Dichloropropene | 8.982  | 75   | 85525    | 41.608 | ug/L  |          | 97  |
| 45) 1,1,2-Trichloroethane     | 9.153  | 97   | 59701    | 45.965 | ug/L  |          | 100 |
| 46) Tetrachloroethene         | 9.275  | 164  | 50424    | 45.042 | ug/L  |          | 89  |
| 48) 2-Hexanone                | 9.433  | 43   | 142886   | 85.273 | ug/L  | #        | 84  |
| 49) Dibromochloromethane      | 9.525  | 129  | 68425    | 46.149 | ug/L  |          | 94  |
| 50) 1,2-Dibromoethane         | 9.610  | 107  | 63913    | 45.979 | ug/L  | #        | 97  |
| 51) Chlorobenzene             | 10.080 | 112  | 170052   | 47.454 | ug/L  |          | 96  |
| 52) Ethylbenzene              | 10.195 | 91   | 265272   | 44.249 | ug/L  |          | 93  |
| 53) m,p-Xylene                | 10.305 | 106  | 106403   | 43.900 | ug/L  |          | 80  |
| 54) o-Xylene                  | 10.647 | 106  | 106320   | 44.453 | ug/L  |          | 81  |
| 55) Styrene                   | 10.659 | 104  | 180644   | 44.479 | ug/L  |          | 80  |
| 57) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 91055    | 44.155 | ug/L  |          | 97  |
| 59) Bromoform                 | 10.799 | 173  | 52093    | 45.331 | ug/L  | #        | 94  |
| 60) Isopropylbenzene          | 10.964 | 105  | 274572   | 45.157 | ug/L  |          | 95  |
| 61) 1,2,3-Trichloropropane    | 11.244 | 75   | 74317    | 46.414 | ug/L  |          | 97  |
| 62) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 232978   | 45.161 | ug/L  |          | 88  |
| 63) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 232402m  | 44.902 | ug/L  |          |     |
| 64) 1,3-Dichlorobenzene       | 11.969 | 146  | 129468   | 46.710 | ug/L  |          | 95  |
| 65) 1,4-Dichlorobenzene       | 12.043 | 146  | 125539   | 45.333 | ug/L  |          | 95  |
| 67) 1,2-Dichlorobenzene       | 12.335 | 146  | 127526   | 46.324 | ug/L  |          | 93  |
| 68) 1,2-Dibromo-3-chloropr... | 12.945 | 75   | 20954    | 45.248 | ug/L  | #        | 61  |
| 69) 1,3,5-Trichlorobenzene    | 13.116 | 180  | 90186    | 44.975 | ug/L  |          | 96  |
| 70) 1,2,4-trichlorobenzene    | 13.591 | 180  | 79964    | 45.716 | ug/L  |          | 96  |
| 71) Naphthalene               | 13.780 | 128  | 287138   | 48.409 | ug/L  |          | 99  |
| 72) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 81448    | 46.970 | ug/L  |          | 96  |

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

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