

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV100724\  
 Data File : VV037747.D  
 Acq On : 07 Oct 2024 09:04  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050296

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 10/08/2024  
 Supervised By :Semsettin Yesilyurt 10/08/2024

Quant Time: Oct 08 04:26:32 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM092624WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Oct 07 04:10:13 2024  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| -----                         |                |      |            |         |       |          |
| Internal Standards            |                |      |            |         |       |          |
| 1) 1,4-Difluorobenzene        | 5.529          | 114  | 670110     | 50.000  | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 8.776          | 117  | 659422     | 50.000  | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.178         | 152  | 360757     | 50.000  | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 4) Vinyl Chloride-d3          | 1.281          | 65   | 254042     | 43.186  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 86.380% |       |          |
| 7) Chloroethane-d5            | 1.532          | 69   | 213008     | 46.650  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 93.300% |       |          |
| 11) 1,1-Dichloroethene-d2     | 2.059          | 65   | 112752     | 45.878  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 91.760% |       |          |
| 21) 2-Butanone-d5             | 3.789          | 46   | 190448     | 90.896  | ug/L  | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 90.900% |       |          |
| 24) Chloroform-d              | 4.243          | 84   | 505932     | 48.342  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 96.680% |       |          |
| 26) 1,2-Dichloroethane-d4     | 4.934          | 65   | 291408     | 47.570  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 95.140% |       |          |
| 32) Benzene-d6                | 4.950          | 84   | 967103     | 46.868  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 93.740% |       |          |
| 36) 1,2-Dichloropropane-d6    | 5.982          | 67   | 303647m    | 46.212  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 92.420% |       |          |
| 41) Toluene-d8                | 7.236          | 98   | 894417     | 47.802  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 95.600% |       |          |
| 43) trans-1,3-Dichloroprop... | 7.548          | 79   | 139953     | 45.851  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 91.700% |       |          |
| 47) 2-Hexanone-d5             | 8.021          | 63   | 117529     | 84.708  | ug/L  | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 84.710% |       |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.146         | 84   | 355327     | 46.541  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 93.080% |       |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.551         | 152  | 345582     | 45.460  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 90.920% |       |          |
| Target Compounds              |                |      |            |         |       |          |
|                               |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.108          | 85   | 264063     | 46.289  | ug/L  | 99       |
| 3) Chloromethane              | 1.220          | 50   | 263279     | 47.538  | ug/L  | 98       |
| 5) Vinyl chloride             | 1.285          | 62   | 277583     | 46.751  | ug/L  | 100      |
| 6) Bromomethane               | 1.487          | 94   | 162817     | 49.413  | ug/L  | 100      |
| 8) Chloroethane               | 1.551          | 64   | 176465     | 48.219  | ug/L  | 98       |
| 9) Trichlorofluoromethane     | 1.715          | 101  | 394759     | 49.393  | ug/L  | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069          | 101  | 239959     | 50.244  | ug/L  | 99       |
| 12) 1,1-Dichloroethene        | 2.069          | 96   | 215060     | 48.206  | ug/L  | 95       |
| 13) Acetone                   | 2.111          | 43   | 189111     | 92.071  | ug/L  | 100      |
| 14) Carbon disulfide          | 2.240          | 76   | 622355     | 44.692  | ug/L  | 100      |
| 15) Methyl Acetate            | 2.371          | 43   | 173834     | 48.497  | ug/L  | 100      |
| 16) Methylene chloride        | 2.445          | 84   | 246290     | 48.757  | ug/L  | 97       |
| 17) trans-1,2-Dichloroethene  | 2.690          | 96   | 227181     | 48.136  | ug/L  | 99       |
| 18) Methyl tert-butyl Ether   | 2.703          | 73   | 671270     | 49.575  | ug/L  | 99       |
| 19) 1,1-Dichloroethane        | 3.104          | 63   | 447901     | 49.532  | ug/L  | 99       |
| 20) cis-1,2-Dichloroethene    | 3.809          | 96   | 257110     | 48.682  | ug/L  | 99       |
| 22) 2-Butanone                | 3.870          | 43   | 205675     | 90.470  | ug/L  | 98       |
| 23) Bromochloromethane        | 4.140          | 128  | 136025     | 49.790  | ug/L  | 97       |
| 25) Chloroform                | 4.268          | 83   | 467696     | 49.955  | ug/L  | 98       |

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 Misc : 5mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050296

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 10/08/2024  
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Quant Time: Oct 08 04:26:32 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM092624WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Oct 07 04:10:13 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.034  | 62   | 336169   | 50.862 | ug/L  | 99       |
| 29) Cyclohexane               | 4.574  | 56   | 346516   | 46.282 | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane     | 4.503  | 97   | 404712   | 49.831 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.725  | 117  | 350530   | 49.643 | ug/L  | 100      |
| 33) Benzene                   | 5.002  | 78   | 968737   | 48.711 | ug/L  | 100      |
| 34) Trichloroethene           | 5.825  | 95   | 254249   | 48.005 | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.043  | 83   | 385457   | 47.309 | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.085  | 63   | 255962   | 49.842 | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.426  | 83   | 344035   | 50.114 | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene   | 6.947  | 75   | 399207   | 48.698 | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.153  | 43   | 410203   | 98.103 | ug/L  | 98       |
| 42) Toluene                   | 7.307  | 91   | 1046251  | 50.747 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.574  | 75   | 368051   | 49.869 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 7.760  | 97   | 246307   | 49.950 | ug/L  | 99       |
| 46) Tetrachloroethene         | 7.898  | 164  | 194546   | 48.044 | ug/L  | 99       |
| 48) 2-Hexanone                | 8.072  | 43   | 287194   | 88.331 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.169  | 129  | 258754   | 49.579 | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.275  | 107  | 243870   | 47.843 | ug/L  | 98       |
| 51) Chlorobenzene             | 8.805  | 112  | 684228   | 48.712 | ug/L  | 100      |
| 52) Ethylbenzene              | 8.937  | 91   | 1148018  | 49.467 | ug/L  | 100      |
| 53) m,p-Xylene                | 9.066  | 106  | 441335   | 51.097 | ug/L  | 99       |
| 54) o-Xylene                  | 9.471  | 106  | 418691   | 49.653 | ug/L  | 98       |
| 55) Styrene                   | 9.487  | 104  | 773239   | 52.675 | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.168 | 83   | 332388   | 48.347 | ug/L  | 99       |
| 59) Bromoform                 | 9.657  | 173  | 172701   | 48.980 | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.860  | 105  | 1155075  | 49.248 | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.201 | 75   | 240495   | 46.849 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.471 | 105  | 923775   | 49.818 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.844 | 105  | 916041   | 49.650 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.111 | 146  | 553377   | 49.018 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.201 | 146  | 573483   | 48.785 | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene       | 11.570 | 146  | 542543   | 48.614 | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.358 | 75   | 53406    | 42.858 | ug/L  | 94       |
| 69) 1,3,5-Trichlorobenzene    | 12.574 | 180  | 369740   | 47.626 | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.191 | 180  | 327355   | 45.448 | ug/L  | 99       |
| 71) Naphthalene               | 13.432 | 128  | 788161   | 41.882 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.673 | 180  | 324321   | 45.595 | ug/L  | 99       |

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

