

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV040821\  
 Data File : VV020962.D  
 Acq On : 08 Apr 2021 10:14  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05077

Quant Time: Apr 09 06:24:41 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SOMVLM032321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 08 05:10:43 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) 1,4-Difluorobenzene        | 5.616          | 114  | 628131     | 50.00   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.854          | 117  | 603600     | 50.00   | ug/L   | 0.00     |
| 60) 1,4-Dichlorobenzene-d4    | 11.255         | 152  | 350951     | 50.00   | ug/L   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 4) Vinyl Chloride-d3          | 1.307          | 65   | 191096     | 42.85   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 85.70%  |        |          |
| 7) Chloroethane-d5            | 1.568          | 69   | 147308     | 43.69   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 87.38%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.108          | 63   | 379001     | 45.05   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 90.10%  |        |          |
| 21) 2-Butanone-d5             | 3.892          | 46   | 218013     | 75.14   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 75.14%  |        |          |
| 24) Chloroform-d              | 4.349          | 84   | 424736     | 47.92   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 95.84%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.031          | 65   | 274486     | 47.01   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 94.02%  |        |          |
| 32) Benzene-d6                | 5.050          | 84   | 764228     | 47.50   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 95.00%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.069          | 67   | 208344     | 42.18   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 84.36%  |        |          |
| 41) Toluene-d8                | 7.317          | 98   | 760763     | 50.80   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 101.60% |        |          |
| 43) trans-1,3-Dichloroprop... | 7.622          | 79   | 126419     | 48.10   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 96.20%  |        |          |
| 47) 2-Hexanone-d5             | 8.088          | 63   | 173276     | 83.67   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 83.67%  |        |          |
| 57) 1,1,2,2-Tetrachloroeth... | 10.220         | 84   | 303933     | 42.24   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 84.48%  |        |          |
| 64) 1,2-Dichlorobenzene-d4    | 11.632         | 152  | 347920     | 51.08   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 102.16% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.130          | 85   | 270718     | 46.00   | ug/L   | 99       |
| 3) Chloromethane              | 1.240          | 50   | 169210     | 36.02   | ug/L   | 97       |
| 5) Vinyl chloride             | 1.311          | 62   | 199694     | 41.61   | ug/L   | 98       |
| 6) Bromomethane               | 1.523          | 94   | 156074     | 51.59   | ug/L   | 99       |
| 8) Chloroethane               | 1.587          | 64   | 122438     | 44.16   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.751          | 101  | 440576     | 53.71   | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.118          | 101  | 219456     | 55.66   | ug/L   | 91       |
| 12) 1,1-Dichloroethene        | 2.118          | 96   | 191777     | 52.32   | ug/L   | 87       |
| 13) Acetone                   | 2.185          | 43   | 229660     | 111.01  | ug/L   | 99       |
| 14) Carbon disulfide          | 2.294          | 76   | 554944     | 45.78   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.433          | 43   | 167959     | 38.89   | ug/L # | 90       |
| 16) Methylene chloride        | 2.507          | 84   | 211046     | 47.21   | ug/L   | 85       |
| 17) trans-1,2-Dichloroethene  | 2.761          | 96   | 212530     | 50.56   | ug/L   | 94       |
| 18) Methyl tert-butyl Ether   | 2.767          | 73   | 663456     | 50.91   | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.188          | 63   | 361707     | 46.32   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 3.912          | 96   | 225781     | 50.20   | ug/L   | 90       |
| 22) 2-Butanone                | 3.973          | 43   | 268432     | 88.64   | ug/L   | 88       |
| 23) Bromochloromethane        | 4.249          | 128  | 132510     | 54.74   | ug/L # | 79       |
| 25) Chloroform                | 4.375          | 83   | 429309     | 51.69   | ug/L   | 100      |

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 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 08 05:10:43 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.130  | 62   | 339524   | 51.17 | ug/L   | 100      |
| 29) Cyclohexane               | 4.677  | 56   | 298024   | 43.65 | ug/L   | 88       |
| 30) 1,1,1-Trichloroethane     | 4.609  | 97   | 432399   | 57.92 | ug/L   | 97       |
| 31) Carbon tetrachloride      | 4.828  | 117  | 405525   | 60.82 | ug/L   | 100      |
| 33) Benzene                   | 5.098  | 78   | 817945   | 49.13 | ug/L   | 100      |
| 34) Trichloroethene           | 5.915  | 95   | 248340   | 54.42 | ug/L   | 89       |
| 35) Methylcyclohexane         | 6.133  | 83   | 355354   | 50.75 | ug/L   | 93       |
| 37) 1,2-Dichloropropane       | 6.175  | 63   | 191552   | 43.88 | ug/L # | 96       |
| 38) Bromodichloromethane      | 6.510  | 83   | 327555   | 53.42 | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.027  | 75   | 349831   | 51.90 | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.227  | 43   | 478965   | 81.81 | ug/L # | 92       |
| 42) Toluene                   | 7.391  | 91   | 945705   | 52.26 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 7.651  | 75   | 357033   | 52.60 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 7.841  | 97   | 218939   | 50.98 | ug/L   | 97       |
| 46) Tetrachloroethene         | 7.976  | 164  | 222417   | 58.39 | ug/L   | 98       |
| 48) 2-Hexanone                | 8.140  | 43   | 398809   | 89.23 | ug/L # | 93       |
| 49) Dibromochloromethane      | 8.249  | 129  | 293283   | 58.62 | ug/L   | 100      |
| 50) 1,2-Dibromoethane         | 8.355  | 107  | 248316   | 53.98 | ug/L # | 98       |
| 51) Chlorobenzene             | 8.883  | 112  | 651002   | 53.59 | ug/L   | 97       |
| 52) Ethylbenzene              | 9.014  | 91   | 1085962  | 52.59 | ug/L   | 97       |
| 53) m,p-Xylene                | 9.140  | 106  | 425980   | 55.46 | ug/L   | 93       |
| 54) o-xylene                  | 9.548  | 106  | 414398   | 55.98 | ug/L   | 95       |
| 55) Styrene                   | 9.564  | 104  | 724730   | 55.72 | ug/L   | 97       |
| 56) Isopropylbenzene          | 9.934  | 105  | 1146014  | 56.21 | ug/L   | 98       |
| 58) 1,1,2,2-Tetrachloroethane | 10.246 | 83   | 314337   | 44.87 | ug/L   | 97       |
| 59) 1,2,3-Trichloropropane    | 10.278 | 75   | 282586   | 49.56 | ug/L   | 99       |
| 61) Bromoform                 | 9.735  | 173  | 233835   | 58.69 | ug/L   | 100      |
| 62) 1,3-Dichlorobenzene       | 11.185 | 146  | 572289   | 53.44 | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene       | 11.278 | 146  | 578784   | 51.96 | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene       | 11.648 | 146  | 578024   | 54.76 | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropr... | 12.435 | 75   | 83204    | 46.63 | ug/L # | 80       |
| 67) 1,3,5-Trichlorobenzene    | 12.651 | 180  | 467158   | 56.27 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene    | 13.268 | 180  | 393298   | 55.88 | ug/L   | 100      |
| 69) Naphthalene               | 13.509 | 128  | 1062034  | 52.71 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene    | 13.751 | 180  | 399381   | 56.66 | ug/L   | 98       |

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

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