

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV011020\  
 Data File : VV014274.D  
 Acq On : 10 Jan 2020 17:11  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00553

Quant Time: Jan 11 00:04:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR010220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Jan 11 00:01:14 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 1003951  | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 919660   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 424690   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 299213   | 4.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 85.20%  |
| 7) Chloroethane-d5             | 1.59   | 69    | 241705   | 4.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 89.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 474698   | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 91.60%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 875728   | 51.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.80% |
| 24) Chloroform-d               | 4.40   | 84    | 655729   | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 321257   | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.40%  |
| 32) Benzene-d6                 | 5.10   | 84    | 1333952  | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 421745   | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.20%  |
| 41) Toluene-d8                 | 7.36   | 98    | 1203013  | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.00%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 177304   | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 94.20%  |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 775369   | 48.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 97.30%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 290345   | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 393888   | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.80%  |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 356137 | 4.705  | ug/L 98   |
| 3) Chloromethane               | 1.26 | 50  | 333994 | 4.439  | ug/L 99   |
| 5) Vinyl chloride              | 1.33 | 62  | 314421 | 4.475  | ug/L 97   |
| 6) Bromomethane                | 1.54 | 94  | 176985 | 4.440  | ug/L 98   |
| 8) Chloroethane                | 1.60 | 64  | 169674 | 4.298  | ug/L 96   |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 395581 | 4.769  | ug/L 100  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 220097 | 4.899  | ug/L 94   |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 202952 | 4.525  | ug/L 99   |
| 13) Acetone                    | 2.23 | 43  | 386749 | 33.282 | ug/L 93   |
| 14) Carbon disulfide           | 2.32 | 76  | 912992 | 4.587  | ug/L 99   |
| 15) Methyl Acetate             | 2.47 | 43  | 117317 | 4.337  | ug/L 95   |
| 16) Methylene chloride         | 2.54 | 84  | 313104 | 4.288  | ug/L 93   |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 741932 | 4.470  | ug/L 99   |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 307056 | 4.554  | ug/L 94   |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 605605 | 4.583  | ug/L 98   |
| 21) 2-Butanone                 | 4.04 | 43  | 757903 | 43.480 | ug/L 99   |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 342111 | 4.629  | ug/L # 95 |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 127755   | 4.547  | ug/L  | 91       |
| 25) Chloroform                  | 4.43  | 83   | 576655   | 4.558  | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 342542   | 4.526  | ug/L  | 95       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 518266   | 4.734  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 596483   | 4.935  | ug/L  | 97       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 439566   | 4.689  | ug/L  | 100      |
| 33) Benzene                     | 5.14  | 78   | 1314031  | 4.639  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 336840   | 4.628  | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.17  | 83   | 598477   | 5.029  | ug/L  | 97       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 321639   | 4.499  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.55  | 83   | 414569   | 4.497  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 516928   | 4.466  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.27  | 43   | 1978189  | 43.897 | ug/L  | 99       |
| 42) Toluene                     | 7.43  | 91   | 1382218  | 4.623  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 390627   | 4.395  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 206451   | 4.521  | ug/L  | 98       |
| 47) Tetrachloroethene           | 8.02  | 164  | 236214   | 4.750  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.18  | 43   | 1389406  | 44.575 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 257700   | 4.463  | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.39  | 107  | 196719   | 4.448  | ug/L  | 95       |
| 51) Chlorobenzene               | 8.92  | 112  | 844938   | 4.595  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.05  | 91   | 1574112  | 4.706  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.18  | 106  | 579044   | 4.693  | ug/L  | 100      |
| 54) o-xylene                    | 9.58  | 106  | 558607   | 4.604  | ug/L  | 93       |
| 55) Styrene                     | 9.60  | 104  | 934979   | 4.549  | ug/L  | 96       |
| 56) Isopropylbenzene            | 9.97  | 105  | 1513493  | 4.782  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.28 | 83   | 252664   | 4.487  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 189644   | 4.452  | ug/L  | 97       |
| 61) Bromoform                   | 9.77  | 173  | 128222   | 4.454  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 625767   | 4.713  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene         | 11.31 | 146  | 619149   | 4.690  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 11.68 | 146  | 553597   | 4.617  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.47 | 75   | 45964    | 4.171  | ug/L  | 91       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 446638   | 4.626  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.30 | 180  | 379367   | 4.480  | ug/L  | 97       |
| 69) Naphthalene                 | 13.54 | 128  | 729282   | 4.239  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 334843   | 4.493  | ug/L  | 99       |

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

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