

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112519\  
 Data File : VV013775.D  
 Acq On : 25 Nov 2019 19:44  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00549

Quant Time: Nov 26 04:43:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR112219WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Nov 26 04:36:55 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 388426   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 356995   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 206913   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 93003    | 3.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 77.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 87538    | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 85.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 177763   | 4.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 87.80%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 254142   | 50.85    | ug/L | 0.02    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 101.70% |
| 24) Chloroform-d               | 4.40   | 84    | 216568   | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 107646   | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.40%  |
| 32) Benzene-d6                 | 5.10   | 84    | 423380   | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.11   | 67    | 125666   | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.60%  |
| 41) Toluene-d8                 | 7.36   | 98    | 378963   | 4.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 87.60%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 45755    | 4.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 85.60%  |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 195518   | 49.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.24%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 97625    | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 102.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 161736   | 4.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 88.60%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 125339   | 4.845  | ug/L   | 97     |
| 3) Chloromethane               | 1.25 | 50   | 97160    | 4.277  | ug/L   | 99     |
| 5) Vinyl chloride              | 1.32 | 62   | 114329   | 4.927  | ug/L # | 62     |
| 6) Bromomethane                | 1.53 | 94   | 17478    | 1.430  | ug/L   | 96     |
| 8) Chloroethane                | 1.60 | 64   | 73061    | 5.225  | ug/L   | 91     |
| 9) Trichlorofluoromethane      | 1.77 | 101  | 184293   | 5.115  | ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101  | 106889   | 4.992  | ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96   | 94373    | 5.053  | ug/L   | 92     |
| 13) Acetone                    | 2.20 | 43   | 171418   | 49.048 | ug/L # | 57     |
| 14) Carbon disulfide           | 2.32 | 76   | 211755   | 4.912  | ug/L   | 99     |
| 15) Methyl Acetate             | 2.46 | 43   | 39581    | 5.059  | ug/L   | 100    |
| 16) Methylene chloride         | 2.53 | 84   | 111876   | 4.373  | ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 2.80 | 73   | 252329   | 4.937  | ug/L   | 100    |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96   | 106500   | 5.050  | ug/L   | 95     |
| 19) 1,1-Dichloroethane         | 3.23 | 63   | 212742   | 5.053  | ug/L   | 98     |
| 21) 2-Butanone                 | 4.02 | 43   | 277847   | 52.595 | ug/L   | 99     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96   | 123566   | 4.997  | ug/L # | 98     |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 57211    | 5.265  | ug/L  | 93       |
| 25) Chloroform                  | 4.42  | 83   | 230232   | 5.159  | ug/L  | 97       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 128759   | 5.041  | ug/L  | 97       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 193754   | 5.306  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 152249   | 4.990  | ug/L  | 100      |
| 31) Carbon tetrachloride        | 4.87  | 117  | 172292   | 5.362  | ug/L  | 99       |
| 33) Benzene                     | 5.14  | 78   | 460080   | 5.254  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 128568   | 5.322  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.17  | 83   | 162782   | 5.050  | ug/L  | 100      |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 118556   | 5.268  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.55  | 83   | 152917   | 5.149  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 149894   | 4.694  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.27  | 43   | 665263   | 50.659 | ug/L  | 97       |
| 42) Toluene                     | 7.43  | 91   | 478166   | 5.090  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 120583   | 4.824  | ug/L  | 96       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 79980    | 4.986  | ug/L  | 99       |
| 47) Tetrachloroethene           | 8.02  | 164  | 105654   | 5.037  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.18  | 43   | 497265   | 53.050 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 107220   | 5.212  | ug/L  | 100      |
| 50) 1,2-Dibromoethane           | 8.39  | 107  | 74669    | 5.141  | ug/L  | 100      |
| 51) Chlorobenzene               | 8.92  | 112  | 323214   | 4.946  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.05  | 91   | 545944   | 5.350  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.18  | 106  | 213240   | 5.482  | ug/L  | 99       |
| 54) o-xylene                    | 9.58  | 106  | 207421   | 5.462  | ug/L  | 97       |
| 55) Styrene                     | 9.60  | 104  | 363733   | 5.547  | ug/L  | 100      |
| 56) Isopropylbenzene            | 9.97  | 105  | 560005   | 5.411  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.28 | 83   | 98099    | 5.566  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.31 | 75   | 74450    | 5.389  | ug/L  | 100      |
| 61) Bromoform                   | 9.77  | 173  | 68865    | 5.288  | ug/L  | 96       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 301905   | 5.022  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.31 | 146  | 300375   | 4.910  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.68 | 146  | 279349   | 5.007  | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.47 | 75   | 14430    | 4.451  | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 244135   | 4.808  | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 198490   | 4.767  | ug/L  | 99       |
| 69) Naphthalene                 | 13.55 | 128  | 264345   | 4.662  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 192440   | 5.073  | ug/L  | 96       |

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

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