

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042419\  
 Data File : VV010490.D  
 Acq On : 25 Apr 2019 03:49  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00546

Quant Time: Apr 25 04:10:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Apr 25 04:02:34 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 244227   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 254805   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 133833   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 58157    | 4.08     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 81.60% |
| 7) Chloroethane-d5             | 1.58   | 69    | 46496    | 4.36     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 87.20% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 122356   | 4.44     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 88.80% |
| 20) 2-Butanone-d5              | 3.96   | 46    | 149944   | 49.67    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.34% |
| 24) Chloroform-d               | 4.40   | 84    | 140232   | 4.75     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.00% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 72135    | 4.90     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.00% |
| 32) Benzene-d6                 | 5.10   | 84    | 282000   | 4.64     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.80% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 82437    | 4.62     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.40% |
| 41) Toluene-d8                 | 7.36   | 98    | 284998   | 4.79     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.80% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 28860    | 4.10     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 82.00% |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 124070   | 46.19    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 92.38% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 64449    | 4.86     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 116501   | 4.71     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.20% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 92847    | 4.874  | ug/L  | 96     |
| 3) Chloromethane               | 1.25 | 50   | 71441    | 4.644  | ug/L  | 99     |
| 5) Vinyl chloride              | 1.32 | 62   | 80152    | 4.815  | ug/L  | 96     |
| 6) Bromomethane                | 1.53 | 94   | 50393    | 4.604  | ug/L  | 91     |
| 8) Chloroethane                | 1.60 | 64   | 45558    | 4.874  | ug/L  | 98     |
| 9) Trichlorofluoromethane      | 1.77 | 101  | 153355   | 4.970  | ug/L  | 97     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101  | 75831    | 4.672  | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.14 | 96   | 67693    | 4.599  | ug/L  | 94     |
| 13) Acetone                    | 2.20 | 43   | 77806    | 42.839 | ug/L  | 95     |
| 14) Carbon disulfide           | 2.32 | 76   | 177007   | 4.450  | ug/L  | 99     |
| 15) Methyl Acetate             | 2.46 | 43   | 19343    | 4.111  | ug/L  | 93     |
| 16) Methylene chloride         | 2.54 | 84   | 69355    | 4.315  | ug/L  | 96     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73   | 154381   | 4.466  | ug/L  | 98     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96   | 73026    | 4.550  | ug/L  | 96     |
| 19) 1,1-Dichloroethane         | 3.23 | 63   | 120477   | 4.709  | ug/L  | 99     |
| 21) 2-Butanone                 | 4.04 | 43   | 163918   | 51.488 | ug/L  | 100    |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96   | 87828    | 5.252  | ug/L  | 98     |

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 QLast Update : Thu Apr 25 04:02:34 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 38645    | 5.300  | ug/L  | 95       |
| 25) Chloroform                  | 4.43  | 83   | 166524   | 5.522  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 92794    | 5.244  | ug/L  | 97       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 143111   | 4.823  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 113207   | 4.523  | ug/L  | 97       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 131159   | 4.862  | ug/L  | 98       |
| 33) Benzene                     | 5.15  | 78   | 327056   | 5.021  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 89864    | 4.781  | ug/L  | 91       |
| 35) Methylcyclohexane           | 6.17  | 83   | 123751   | 4.387  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 76492    | 4.838  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.56  | 83   | 103501   | 4.863  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 97762    | 4.170  | ug/L  | 96       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 414186   | 46.335 | ug/L  | 100      |
| 42) Toluene                     | 7.43  | 91   | 371331   | 5.009  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 77759    | 4.294  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 58851    | 5.082  | ug/L  | 95       |
| 47) Tetrachloroethene           | 8.02  | 164  | 80190    | 4.778  | ug/L  | 96       |
| 48) 2-Hexanone                  | 8.19  | 43   | 291378   | 46.861 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.29  | 129  | 72880    | 4.872  | ug/L  | 96       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 54610    | 4.865  | ug/L  | 98       |
| 51) Chlorobenzene               | 8.93  | 112  | 250233   | 4.969  | ug/L  | 95       |
| 52) Ethylbenzene                | 9.05  | 91   | 390769   | 4.744  | ug/L  | 98       |
| 53) m,p-xylene                  | 9.18  | 106  | 158927   | 4.907  | ug/L  | 96       |
| 54) o-xylene                    | 9.59  | 106  | 152541   | 4.801  | ug/L  | 97       |
| 55) Styrene                     | 9.60  | 104  | 262145   | 5.086  | ug/L  | 97       |
| 56) Isopropylbenzene            | 9.97  | 105  | 413231   | 4.883  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 66910    | 5.023  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 47249    | 4.832  | ug/L  | 97       |
| 61) Bromoform                   | 9.78  | 173  | 38806    | 4.891  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 200971   | 4.820  | ug/L  | 95       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 204879   | 4.878  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 195743   | 4.948  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 9647     | 4.503  | ug/L  | 90       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 160438   | 4.698  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 120266   | 4.654  | ug/L  | 98       |
| 69) Naphthalene                 | 13.55 | 128  | 155282   | 4.050  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 118107   | 4.821  | ug/L  | 98       |

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

