

Data File : VV017737.D  
Acq On : 29 Jul 2020 17:53  
Operator : SY/MD  
Sample : VSTDCCC005EC  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00542

Quant Time: Jul 30 04:32:05 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR072320WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Jul 30 04:28:04 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 142711   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 136928   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 78091    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 34704    | 5.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 101.80% |
| 7) Chloroethane-d5             | 1.58   | 69    | 30000    | 5.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 115.00% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 82345    | 5.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 107.80% |
| 20) 2-Butanone-d5              | 3.93   | 46    | 74125    | 45.47    | ug/L | -0.03   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 90.94%  |
| 24) Chloroform-d               | 4.38   | 84    | 85750    | 5.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 104.00% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 47137    | 5.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 110.80% |
| 32) Benzene-d6                 | 5.07   | 84    | 144582   | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 38053    | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 90.60%  |
| 41) Toluene-d8                 | 7.34   | 98    | 143708   | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.20%  |
| 45) trans-1,3-Dichloropropene- | 7.64   | 79    | 17979    | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 94.60%  |
| 48) 2-Hexanone-d5              | 8.11   | 63    | 55198    | 46.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 93.68%  |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 27909    | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 95.60%  |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 57715    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 97.80%  |

#### Target Compounds

|                                |      |     |        |               | Qvalue |
|--------------------------------|------|-----|--------|---------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 75231  | 4.811 ug/L    | 99     |
| 3) Chloromethane               | 1.25 | 50  | 48593  | 4.776 ug/L    | 96     |
| 5) Vinyl chloride              | 1.32 | 62  | 53234  | 5.221 ug/L    | 99     |
| 6) Bromomethane                | 1.53 | 94  | 24276  | 3.705 ug/L    | 98     |
| 8) Chloroethane                | 1.60 | 64  | 32462  | 5.515 ug/L    | 99     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 108707 | 5.961 ug/L    | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 46502  | 5.460 ug/L    | 90     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 43972  | 5.722 ug/L    | 90     |
| 13) Acetone                    | 2.20 | 43  | 65966  | 51.691 ug/L # | 52     |
| 14) Carbon disulfide           | 2.31 | 76  | 127691 | 5.466 ug/L    | 98     |
| 15) Methyl Acetate             | 2.45 | 43  | 13809  | 5.561 ug/L    | 92     |
| 16) Methylene chloride         | 2.52 | 84  | 45430  | 5.313 ug/L    | 96     |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 106039 | 5.383 ug/L    | 99     |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 47705  | 5.697 ug/L    | 99     |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 91437  | 5.193 ug/L    | 98     |
| 21) 2-Butanone                 | 4.02 | 43  | 94447  | 43.829 ug/L   | 97     |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96  | 52783  | 5.005 ug/L    | 96     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.27  | 128  | 24284    | 4.997  | ug/L  | 92       |
| 25) Chloroform                 | 4.40  | 83   | 107775   | 5.453  | ug/L  | 94       |
| 27) 1,2-Dichloroethane         | 5.15  | 62   | 67535    | 5.270  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane      | 4.63  | 97   | 106063   | 5.536  | ug/L  | 99       |
| 30) Cyclohexane                | 4.70  | 56   | 67767    | 4.465  | ug/L  | 93       |
| 31) Carbon tetrachloride       | 4.85  | 117  | 95285    | 5.592  | ug/L  | 100      |
| 33) Benzene                    | 5.13  | 78   | 198097   | 5.111  | ug/L  | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 56959    | 5.261  | ug/L  | 95       |
| 35) Methylcyclohexane          | 6.15  | 83   | 76034    | 4.643  | ug/L  | 96       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 44096    | 4.841  | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.53  | 83   | 71245    | 5.317  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 69776    | 5.079  | ug/L  | 96       |
| 40) 4-Methyl-2-pentanone       | 7.25  | 43   | 225293   | 45.110 | ug/L  | 98       |
| 42) Toluene                    | 7.41  | 91   | 226131   | 5.348  | ug/L  | 99       |
| 43) 1,3,5-Trimethylbenzene     | 10.56 | 105  | 221495   | 5.611  | ug/L  | 99       |
| 44) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 227247   | 5.634  | ug/L  | 100      |
| 46) trans-1,3-Dichloropropene  | 7.67  | 75   | 59772    | 4.846  | ug/L  | 97       |
| 47) 1,1,2-Trichloroethane      | 7.86  | 97   | 33150    | 4.799  | ug/L  | 90       |
| 49) Tetrachloroethene          | 8.00  | 164  | 50471    | 5.288  | ug/L  | 97       |
| 50) 2-Hexanone                 | 8.16  | 43   | 163525   | 46.274 | ug/L  | 98       |
| 51) Dibromochloromethane       | 8.27  | 129  | 47515    | 5.404  | ug/L  | 93       |
| 52) 1,2-Dibromoethane          | 8.38  | 107  | 32063    | 4.918  | ug/L  | 98       |
| 53) Chlorobenzene              | 8.90  | 112  | 146639   | 5.202  | ug/L  | 99       |
| 54) Ethylbenzene               | 9.03  | 91   | 253778   | 5.361  | ug/L  | 99       |
| 55) m,p-xylene                 | 9.16  | 106  | 97863    | 5.489  | ug/L  | 96       |
| 56) o-xylene                   | 9.56  | 106  | 93086    | 5.380  | ug/L  | 97       |
| 57) Styrene                    | 9.58  | 104  | 164261   | 5.690  | ug/L  | 98       |
| 58) Isopropylbenzene           | 9.95  | 105  | 263975   | 5.531  | ug/L  | 99       |
| 60) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 35178    | 4.673  | ug/L  | 99       |
| 62) Bromoform                  | 9.75  | 173  | 25797    | 5.162  | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 11.20 | 146  | 134920   | 5.366  | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 11.29 | 146  | 131832   | 5.225  | ug/L  | 98       |
| 66) 1,2-Dichlorobenzene        | 11.67 | 146  | 119843   | 5.233  | ug/L  | 99       |
| 67) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 7069     | 4.936  | ug/L  | 93       |
| 68) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 107068   | 5.242  | ug/L  | 98       |
| 69) 1,2,4-trichlorobenzene     | 13.28 | 180  | 88490    | 5.180  | ug/L  | 99       |
| 70) Naphthalene                | 13.52 | 128  | 116005   | 4.870  | ug/L  | 99       |
| 71) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 77324    | 5.108  | ug/L  | 99       |

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

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