

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120720\  
 Data File : VU041492.D  
 Acq On : 07 Dec 2020 14:52  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00530

Quant Time: Dec 08 04:34:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR120420WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Dec 08 04:32:02 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 46141    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 51398    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 27151    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 10131    | 4.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 85.60%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 10421    | 5.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 100.20% |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 29154    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 101.60% |
| 20) 2-Butanone-d5              | 4.66   | 46    | 47385    | 53.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 106.64% |
| 24) Chloroform-d               | 5.08   | 84    | 35027    | 5.35     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 107.00% |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 24248    | 5.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 110.40% |
| 32) Benzene-d6                 | 5.74   | 84    | 50587    | 4.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 14033    | 4.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 83.80%  |
| 41) Toluene-d8                 | 7.90   | 98    | 47915    | 4.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.40%  |
| 43) trans-1,3-Dichloropropene- | 8.18   | 79    | 9307     | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.80%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 35834    | 43.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 86.82%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 16793    | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 91.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 23493    | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 101.20% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85   | 20845    | 5.103  | ug/L  | 98     |
| 3) Chloromethane               | 1.53 | 50   | 12682    | 4.803  | ug/L  | 100    |
| 5) Vinyl chloride              | 1.61 | 62   | 15525    | 4.932  | ug/L  | 97     |
| 6) Bromomethane                | 1.87 | 94   | 11951    | 5.491  | ug/L  | 96     |
| 8) Chloroethane                | 1.94 | 64   | 9939     | 4.853  | ug/L  | 96     |
| 9) Trichlorofluoromethane      | 2.15 | 101  | 40041    | 5.709  | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101  | 16462    | 5.237  | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.59 | 96   | 14034    | 5.196  | ug/L  | 88     |
| 13) Acetone                    | 2.67 | 43   | 36050    | 52.105 | ug/L  | 97     |
| 14) Carbon disulfide           | 2.81 | 76   | 40222    | 4.831  | ug/L  | 97     |
| 15) Methyl Acetate             | 2.98 | 43   | 6214     | 4.908  | ug/L  | 96     |
| 16) Methylene chloride         | 3.06 | 84   | 14901    | 4.133  | ug/L  | 94     |
| 17) Methyl tert-butyl Ether    | 3.38 | 73   | 42314    | 5.163  | ug/L  | 98     |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96   | 14056    | 5.152  | ug/L  | 95     |
| 19) 1,1-Dichloroethane         | 3.89 | 63   | 26526    | 5.263  | ug/L  | 97     |
| 21) 2-Butanone                 | 4.74 | 43   | 45733    | 52.827 | ug/L  | 97     |
| 22) cis-1,2-Dichloroethene     | 4.68 | 96   | 16164    | 5.343  | ug/L  | 94     |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 4.99  | 128  | 8774     | 5.549  | ug/L   | 96       |
| 25) Chloroform                  | 5.11  | 83   | 34836    | 5.425  | ug/L   | 99       |
| 27) 1,2-Dichloroethane          | 5.81  | 62   | 29129    | 5.804  | ug/L   | 97       |
| 29) 1,1,1-Trichloroethane       | 5.33  | 97   | 36145    | 4.907  | ug/L   | 98       |
| 30) Cyclohexane                 | 5.40  | 56   | 20217    | 4.365  | ug/L   | 92       |
| 31) Carbon tetrachloride        | 5.54  | 117  | 33465    | 4.906  | ug/L   | 100      |
| 33) Benzene                     | 5.79  | 78   | 58227    | 4.577  | ug/L   | 100      |
| 34) Trichloroethene             | 6.55  | 95   | 17502    | 4.558  | ug/L   | 98       |
| 35) Methylcyclohexane           | 6.77  | 83   | 23727    | 4.530  | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 6.80  | 63   | 13512    | 4.532  | ug/L   | 98       |
| 38) Bromodichloromethane        | 7.11  | 83   | 25023    | 4.594  | ug/L # | 99       |
| 39) cis-1,3-Dichloropropene     | 7.61  | 75   | 24250    | 4.503  | ug/L   | 96       |
| 40) 4-Methyl-2-pentanone        | 7.80  | 43   | 104214   | 43.630 | ug/L   | 98       |
| 42) Toluene                     | 7.98  | 91   | 64912    | 4.533  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 8.21  | 75   | 26073    | 4.847  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane       | 8.40  | 97   | 12696    | 4.416  | ug/L   | 98       |
| 47) Tetrachloroethene           | 8.56  | 164  | 14879    | 4.906  | ug/L   | 96       |
| 48) 2-Hexanone                  | 8.69  | 43   | 79750    | 41.551 | ug/L   | 97       |
| 49) Dibromochloromethane        | 8.81  | 129  | 19375    | 4.946  | ug/L   | 98       |
| 50) 1,2-Dibromoethane           | 8.93  | 107  | 13436    | 4.633  | ug/L   | 93       |
| 51) Chlorobenzene               | 9.45  | 112  | 47414    | 4.969  | ug/L   | 96       |
| 52) Ethylbenzene                | 9.57  | 91   | 78728    | 4.798  | ug/L   | 99       |
| 53) m,p-Xylene                  | 9.69  | 106  | 30036    | 5.043  | ug/L   | 100      |
| 54) o-Xylene                    | 10.10 | 106  | 28404    | 4.919  | ug/L   | 93       |
| 55) Styrene                     | 10.11 | 104  | 50009    | 5.100  | ug/L   | 94       |
| 56) Isopropylbenzene            | 10.48 | 105  | 81285    | 4.986  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.78 | 83   | 16196    | 4.586  | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane      | 10.82 | 75   | 12918    | 4.466  | ug/L   | 100      |
| 61) Bromoform                   | 10.29 | 173  | 12818    | 5.619  | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene         | 11.74 | 146  | 38050    | 4.973  | ug/L   | 96       |
| 63) 1,4-Dichlorobenzene         | 11.83 | 146  | 39662    | 5.056  | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene         | 12.21 | 146  | 37357    | 4.931  | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.99 | 75   | 3899     | 5.254  | ug/L   | 94       |
| 67) 1,3,5-Trichlorobenzene      | 13.21 | 180  | 30446    | 4.980  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.83 | 180  | 24521    | 5.011  | ug/L   | 97       |
| 69) Naphthalene                 | 14.08 | 128  | 37384    | 4.861  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.32 | 180  | 22256    | 5.138  | ug/L   | 98       |

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

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