

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111720\  
 Data File : VU041307.D  
 Acq On : 18 Nov 2020 04:11  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00526

Quant Time: Nov 18 06:13:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Nov 18 00:06:52 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 57152    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 56336    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 27101    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 19836    | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 94.40%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 17684    | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 98.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 40547    | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 93.40%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 95668    | 55.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 110.38% |
| 24) Chloroform-d               | 5.08   | 84    | 46223    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.60% |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 30130    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.60% |
| 32) Benzene-d6                 | 5.74   | 84    | 77112    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.60% |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 26784    | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 102.40% |
| 41) Toluene-d8                 | 7.91   | 98    | 68102    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.20%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 9572     | 4.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 85.00%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 66876    | 55.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 111.16% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 25737    | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.40% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 24586    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 93.00%  |

## Target Compounds

|                                |      |     |       |        | Ovalue    |
|--------------------------------|------|-----|-------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 21546 | 4.568  | ug/L 100  |
| 3) Chloromethane               | 1.52 | 50  | 24928 | 4.907  | ug/L 99   |
| 5) Vinyl chloride              | 1.61 | 62  | 23465 | 4.729  | ug/L 100  |
| 6) Bromomethane                | 1.86 | 94  | 10580 | 3.595  | ug/L 99   |
| 8) Chloroethane                | 1.94 | 64  | 15880 | 4.822  | ug/L 95   |
| 9) Trichlorofluoromethane      | 2.15 | 101 | 33949 | 4.393  | ug/L 98   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 19559 | 4.646  | ug/L 98   |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 17470 | 4.696  | ug/L 100  |
| 13) Acetone                    | 2.68 | 43  | 58802 | 51.137 | ug/L # 61 |
| 14) Carbon disulfide           | 2.81 | 76  | 45489 | 4.155  | ug/L 98   |
| 15) Methyl Acetate             | 2.98 | 43  | 7885  | 3.301  | ug/L 99   |
| 16) Methylene chloride         | 3.06 | 84  | 27232 | 5.838  | ug/L 94   |
| 17) Methyl tert-butyl Ether    | 3.38 | 73  | 60943 | 5.984  | ug/L 99   |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96  | 17040 | 4.703  | ug/L 98   |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 41093 | 5.073  | ug/L 98   |
| 21) 2-Butanone                 | 4.74 | 43  | 92701 | 53.099 | ug/L # 73 |
| 22) cis-1,2-Dichloroethene     | 4.68 | 96  | 20620 | 5.039  | ug/L 91   |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 4.99  | 128  | 10788    | 5.317  | ug/L   | 96       |
| 25) Chloroform                  | 5.11  | 83   | 43911    | 4.998  | ug/L   | 99       |
| 27) 1,2-Dichloroethane          | 5.81  | 62   | 34044    | 5.390  | ug/L # | 94       |
| 29) 1,1,1-Trichloroethane       | 5.33  | 97   | 34605    | 5.025  | ug/L   | 96       |
| 30) Cyclohexane                 | 5.40  | 56   | 26503    | 4.658  | ug/L   | 98       |
| 31) Carbon tetrachloride        | 5.54  | 117  | 30157    | 5.051  | ug/L   | 99       |
| 33) Benzene                     | 5.79  | 78   | 80665    | 5.284  | ug/L   | 100      |
| 34) Trichloroethene             | 6.55  | 95   | 20336    | 4.929  | ug/L   | 99       |
| 35) Methylcyclohexane           | 6.77  | 83   | 23717    | 4.327  | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 6.80  | 63   | 25402    | 5.692  | ug/L # | 96       |
| 38) Bromodichloromethane        | 7.12  | 83   | 32063    | 5.497  | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene     | 7.62  | 75   | 24131    | 3.877  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone        | 7.80  | 43   | 217520   | 58.902 | ug/L   | 99       |
| 42) Toluene                     | 7.98  | 91   | 81398    | 4.989  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene   | 8.22  | 75   | 24904    | 4.230  | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane       | 8.40  | 97   | 19249    | 5.578  | ug/L   | 94       |
| 47) Tetrachloroethene           | 8.56  | 164  | 14277    | 4.683  | ug/L   | 94       |
| 48) 2-Hexanone                  | 8.69  | 43   | 155809   | 56.520 | ug/L   | 99       |
| 49) Dibromochloromethane        | 8.82  | 129  | 21973    | 5.373  | ug/L   | 97       |
| 50) 1,2-Dibromoethane           | 8.93  | 107  | 17112    | 5.345  | ug/L   | 94       |
| 51) Chlorobenzene               | 9.45  | 112  | 51936    | 4.806  | ug/L   | 99       |
| 52) Ethylbenzene                | 9.57  | 91   | 82397    | 4.729  | ug/L   | 100      |
| 53) m,p-Xylene                  | 9.70  | 106  | 30852    | 4.900  | ug/L   | 95       |
| 54) o-Xylene                    | 10.10 | 106  | 29869    | 4.924  | ug/L   | 97       |
| 55) Styrene                     | 10.11 | 104  | 22444    | 2.090  | ug/L   | 97       |
| 56) Isopropylbenzene            | 10.48 | 105  | 75920    | 4.725  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.78 | 83   | 24321    | 5.391  | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane      | 10.82 | 75   | 19574    | 5.562  | ug/L   | 100      |
| 61) Bromoform                   | 10.29 | 173  | 13388    | 5.395  | ug/L   | 100      |
| 62) 1,3-Dichlorobenzene         | 11.74 | 146  | 40094    | 4.917  | ug/L   | 100      |
| 63) 1,4-Dichlorobenzene         | 11.83 | 146  | 40023    | 4.763  | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene         | 12.21 | 146  | 40330    | 4.972  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.99 | 75   | 4306     | 5.718  | ug/L   | 92       |
| 67) 1,3,5-Trichlorobenzene      | 13.21 | 180  | 27492    | 4.733  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.83 | 180  | 21405    | 4.437  | ug/L   | 97       |
| 69) Naphthalene                 | 14.08 | 128  | 37473    | 4.797  | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene      | 14.32 | 180  | 20998    | 4.687  | ug/L   | 98       |

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

