

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070720\  
 Data File : VU039316.D  
 Acq On : 07 Jul 2020 15:14  
 Operator : SY/MD  
 Sample : VSTDICV005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV04

Quant Time: Jul 08 01:32:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR070720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jul 07 15:01:15 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 115617   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 105396   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 50737    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 36690    | 5.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 109.60% |
| 7) Chloroethane-d5             | 1.92   | 69    | 34356    | 5.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 100.20% |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 70453    | 5.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 106.80% |
| 20) 2-Butanone-d5              | 4.66   | 46    | 175321   | 57.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 114.36% |
| 24) Chloroform-d               | 5.08   | 84    | 79845    | 5.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 112.00% |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 48318    | 5.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 107.80% |
| 32) Benzene-d6                 | 5.74   | 84    | 145188   | 5.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 114.40% |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 49887    | 5.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 112.00% |
| 41) Toluene-d8                 | 7.91   | 98    | 121339   | 5.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 110.40% |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 22898    | 5.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 116.40% |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 136639   | 58.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 117.02% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.76  | 84    | 49140    | 5.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 111.20% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 50301    | 5.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 111.00% |

## Target Compounds

|                                |      |     |        |             | Ovalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 36578  | 5.220 ug/L  | 99     |
| 3) Chloromethane               | 1.53 | 50  | 43594  | 5.135 ug/L  | 98     |
| 5) Vinyl chloride              | 1.61 | 62  | 47975  | 5.089 ug/L  | 97     |
| 6) Bromomethane                | 1.87 | 94  | 22432  | 5.525 ug/L  | 96     |
| 8) Chloroethane                | 1.94 | 64  | 30671  | 4.503 ug/L  | 97     |
| 9) Trichlorofluoromethane      | 2.15 | 101 | 79740  | 4.871 ug/L  | 97     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 33969  | 5.057 ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 34075  | 4.956 ug/L  | 92     |
| 13) Acetone                    | 2.66 | 43  | 83012  | 50.159 ug/L | 99     |
| 14) Carbon disulfide           | 2.81 | 76  | 122095 | 5.040 ug/L  | 99     |
| 15) Methyl Acetate             | 2.97 | 43  | 21825  | 4.993 ug/L  | 97     |
| 16) Methylene chloride         | 3.06 | 84  | 42295  | 4.890 ug/L  | 96     |
| 17) Methyl tert-butyl Ether    | 3.38 | 73  | 112189 | 5.178 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96  | 38229  | 5.022 ug/L  | 98     |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 75421  | 5.064 ug/L  | 96     |
| 21) 2-Butanone                 | 4.74 | 43  | 155369 | 52.598 ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 4.68 | 96  | 42701  | 5.003 ug/L  | 91     |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.99  | 128  | 20504    | 5.288  | ug/L  | 96       |
| 25) Chloroform                  | 5.11  | 83   | 76194    | 5.066  | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 5.81  | 62   | 55925    | 5.140  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane       | 5.33  | 97   | 63261    | 5.096  | ug/L  | 98       |
| 30) Cyclohexane                 | 5.40  | 56   | 67204    | 5.142  | ug/L  | 98       |
| 31) Carbon tetrachloride        | 5.54  | 117  | 53239    | 5.027  | ug/L  | 99       |
| 33) Benzene                     | 5.79  | 78   | 165098   | 5.239  | ug/L  | 100      |
| 34) Trichloroethene             | 6.56  | 95   | 42275    | 5.189  | ug/L  | 95       |
| 35) Methylcyclohexane           | 6.77  | 83   | 65632    | 5.029  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.80  | 63   | 44565    | 5.188  | ug/L  | 99       |
| 38) Bromodichloromethane        | 7.12  | 83   | 56927    | 5.190  | ug/L  | 92       |
| 39) cis-1,3-Dichloropropene     | 7.62  | 75   | 67886    | 5.228  | ug/L  | 96       |
| 40) 4-Methyl-2-pentanone        | 7.80  | 43   | 382032   | 53.313 | ug/L  | 99       |
| 42) Toluene                     | 7.98  | 91   | 173009   | 5.127  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 8.22  | 75   | 60195    | 5.225  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 8.41  | 97   | 33261    | 5.391  | ug/L  | 94       |
| 47) Tetrachloroethene           | 8.56  | 164  | 29102    | 5.136  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.69  | 43   | 285939   | 54.118 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.82  | 129  | 40429    | 5.410  | ug/L  | 96       |
| 50) 1,2-Dibromoethane           | 8.93  | 107  | 32917    | 5.251  | ug/L  | 99       |
| 51) Chlorobenzene               | 9.45  | 112  | 105314   | 5.108  | ug/L  | 97       |
| 52) Ethylbenzene                | 9.57  | 91   | 187514   | 5.028  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.70  | 106  | 70577    | 5.023  | ug/L  | 99       |
| 54) o-Xylene                    | 10.10 | 106  | 67223    | 4.914  | ug/L  | 99       |
| 55) Styrene                     | 10.12 | 104  | 119531   | 5.022  | ug/L  | 100      |
| 56) Isopropylbenzene            | 10.48 | 105  | 178056   | 4.813  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.78 | 83   | 43742    | 5.093  | ug/L  | 95       |
| 59) 1,2,3-Trichloropropane      | 10.83 | 75   | 32938    | 5.203  | ug/L  | 97       |
| 61) Bromoform                   | 10.29 | 173  | 22472    | 5.255  | ug/L  | 96       |
| 62) 1,3-Dichlorobenzene         | 11.74 | 146  | 82133    | 5.166  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.83 | 146  | 82758    | 5.189  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 12.21 | 146  | 80933    | 5.078  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.99 | 75   | 8718     | 6.192  | ug/L  | 91       |
| 67) 1,3,5-Trichlorobenzene      | 13.21 | 180  | 62849    | 5.282  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.83 | 180  | 56938    | 5.592  | ug/L  | 96       |
| 69) Naphthalene                 | 14.08 | 128  | 121570   | 5.934  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.32 | 180  | 52796    | 5.596  | ug/L  | 97       |

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

