

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032820\  
 Data File : VU037414.D  
 Acq On : 28 Mar 2020 12:05  
 Operator : JC/MD  
 Sample : VSTD02006  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD02006

Quant Time: Mar 28 12:33:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR032820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Mar 28 11:41:38 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 120867   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 113525   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 59405    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.61  | 65  | 173033 | 21.65  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.93  | 69  | 113475 | 17.23  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.59  | 63  | 348568 | 22.20  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 4.67  | 46  | 488669 | 256.91 | ug/L | 0.00 |
| 24) Chloroform-d               | 5.10  | 84  | 347566 | 21.29  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.74  | 65  | 186390 | 19.66  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.76  | 84  | 658339 | 23.92  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.72  | 67  | 212908 | 24.52  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.93  | 98  | 623265 | 22.78  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.20  | 79  | 98364  | 24.83  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.66  | 63  | 411952 | 278.19 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77 | 84  | 175034 | 24.07  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 12.21 | 152 | 226882 | 20.79  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |         |              | Qvalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 195944  | 14.609 ug/L  | 99     |
| 3) Chloromethane               | 1.53 | 50  | 174327  | 12.888 ug/L  | 100    |
| 5) Vinyl chloride              | 1.61 | 62  | 185607  | 15.500 ug/L  | 99     |
| 6) Bromomethane                | 1.87 | 94  | 91312   | 19.009 ug/L  | 99     |
| 8) Chloroethane                | 1.94 | 64  | 82843   | 12.481 ug/L  | 95     |
| 9) Trichlorofluoromethane      | 2.15 | 101 | 254928  | 14.011 ug/L  | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101 | 154330  | 18.297 ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 152330  | 19.497 ug/L  | 97     |
| 13) Acetone                    | 2.67 | 43  | 266832  | 199.882 ug/L | 99     |
| 14) Carbon disulfide           | 2.82 | 76  | 532943  | 19.780 ug/L  | 99     |
| 15) Methyl Acetate             | 2.98 | 43  | 71958   | 20.422 ug/L  | 99     |
| 16) Methylene chloride         | 3.08 | 84  | 165748  | 19.213 ug/L  | 99     |
| 17) Methyl tert-butyl Ether    | 3.40 | 73  | 430044  | 20.819 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 167076  | 20.127 ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 308699  | 19.354 ug/L  | 96     |
| 21) 2-Butanone                 | 4.75 | 43  | 471820  | 208.685 ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96  | 180612  | 19.954 ug/L  | # 98   |
| 23) Bromochloromethane         | 5.02 | 128 | 81880   | 19.692 ug/L  | 94     |
| 25) Chloroform                 | 5.13 | 83  | 311189  | 17.542 ug/L  | 98     |
| 27) 1,2-Dichloroethane         | 5.83 | 62  | 212034  | 17.551 ug/L  | 97     |
| 29) 1,1,1-Trichloroethane      | 5.35 | 97  | 288596  | 19.020 ug/L  | 99     |
| 30) Cyclohexane                | 5.42 | 56  | 287288  | 22.285 ug/L  | 98     |
| 31) Carbon tetrachloride       | 5.56 | 117 | 251343  | 19.102 ug/L  | 99     |
| 33) Benzene                    | 5.81 | 78  | 672204  | 20.717 ug/L  | 100    |
| 34) Trichloroethene            | 6.57 | 95  | 185217  | 20.767 ug/L  | 97     |
| 35) Methylcyclohexane          | 6.79 | 83  | 294931  | 22.322 ug/L  | 98     |
| 37) 1,2-Dichloropropane        | 6.82 | 63  | 175980  | 20.704 ug/L  | 99     |
| 38) Bromodichloromethane       | 7.14 | 83  | 240916  | 20.657 ug/L  | 97     |
| 39) cis-1,3-Dichloropropene    | 7.63 | 75  | 292806  | 23.251 ug/L  | 97     |
| 40) 4-Methyl-2-pentanone       | 7.82 | 43  | 1157781 | 217.248 ug/L | 100    |

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| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                     | 8.00  | 91   | 732019   | 20.851  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 8.23  | 75   | 255281   | 22.181  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 125434   | 20.526  | ug/L  | 95       |
| 47) Tetrachloroethene           | 8.57  | 164  | 136492   | 18.924  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.71  | 43   | 837967   | 220.672 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.84  | 129  | 166385   | 20.810  | ug/L  | 100      |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 127130   | 21.187  | ug/L  | 96       |
| 51) Chlorobenzene               | 9.47  | 112  | 463387   | 20.369  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.59  | 91   | 832263   | 21.236  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.71  | 106  | 316076   | 22.105  | ug/L  | 100      |
| 54) o-Xylene                    | 10.12 | 106  | 308802   | 22.108  | ug/L  | 97       |
| 55) Styrene                     | 10.13 | 104  | 534500   | 22.960  | ug/L  | 98       |
| 56) Isopropylbenzene            | 10.50 | 105  | 820437   | 21.292  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.80 | 83   | 164758   | 21.450  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 10.84 | 75   | 118930   | 20.869  | ug/L  | 96       |
| 61) Bromoform                   | 10.31 | 173  | 103589   | 20.770  | ug/L  | 96       |
| 62) 1,3-Dichlorobenzene         | 11.76 | 146  | 375394   | 19.864  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.85 | 146  | 376551   | 19.715  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 350216   | 19.292  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 34607    | 24.790  | ug/L  | 92       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 294793   | 21.066  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.87 | 180  | 276388   | 26.959  | ug/L  | 99       |
| 69) Naphthalene                 | 14.11 | 128  | 549520   | 39.050  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.36 | 180  | 249300   | 25.721  | ug/L  | 98       |

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

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