

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U091618\  
 Data File : VU026792.D  
 Acq On : 15 Sep 2018 21:28  
 Operator : MD/SY  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00545

Quant Time: Sep 15 23:37:39 2018  
 Quant Title :  
 QLast Update : Mon Sep 17 19:07:49 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 123987   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 104696   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 55196    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 45405    | 5.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 102.00% |
| 7) Chloroethane-d5             | 1.68   | 69    | 38125    | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 103.80% |
| 11) 1,1-Dichloroethene-d2      | 2.28   | 63    | 90159    | 5.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 104.60% |
| 20) 2-Butanone-d5              | 4.20   | 46    | 100938   | 48.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 97.12%  |
| 24) Chloroform-d               | 4.65   | 84    | 80444    | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.80% |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 41606    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.20% |
| 32) Benzene-d6                 | 5.34   | 84    | 160586   | 5.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 109.60% |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 51436    | 5.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 109.20% |
| 41) Toluene-d8                 | 7.57   | 98    | 147444   | 5.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 108.80% |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 16813    | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 96.20%  |
| 46) 2-Hexanone-d5              | 8.32   | 63    | 70306    | 50.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 101.98% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 38909    | 5.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 105.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 53867    | 5.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 105.20% |

## Target Compounds

|                                |      |     |        |       |      | Ovalue |
|--------------------------------|------|-----|--------|-------|------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 70303  | 5.24  | ug/L | 100    |
| 3) Chloromethane               | 1.33 | 50  | 70901  | 5.35  | ug/L | 100    |
| 5) Vinyl chloride              | 1.40 | 62  | 70463  | 5.18  | ug/L | 100    |
| 6) Bromomethane                | 1.63 | 94  | 25506  | 3.77  | ug/L | 97     |
| 8) Chloroethane                | 1.70 | 64  | 44291  | 5.15  | ug/L | 96     |
| 9) Trichlorofluoromethane      | 1.89 | 101 | 88474  | 5.21  | ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 51108  | 5.21  | ug/L | 93     |
| 12) 1,1-Dichloroethene         | 2.29 | 96  | 47898  | 5.18  | ug/L | 81     |
| 13) Acetone                    | 2.32 | 43  | 84106  | 45.51 | ug/L | 99     |
| 14) Carbon disulfide           | 2.48 | 76  | 168116 | 5.23  | ug/L | 99     |
| 15) Methyl Acetate             | 2.62 | 43  | 23732  | 4.90  | ug/L | 92     |
| 16) Methylene chloride         | 2.70 | 84  | 53738  | 4.78  | ug/L | 93     |
| 17) Methyl tert-butyl Ether    | 3.01 | 73  | 114215 | 5.12  | ug/L | 98     |
| 18) trans-1,2-Dichloroethene   | 2.98 | 96  | 52593  | 5.18  | ug/L | 85     |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 101283 | 5.35  | ug/L | 97     |
| 21) 2-Butanone                 | 4.28 | 43  | 148801 | 48.73 | ug/L | 94     |
| 22) cis-1,2-Dichloroethene     | 4.23 | 96  | 56925  | 5.19  | ug/L | 98     |
| 23) Bromochloromethane         | 4.55 | 128 | 23927  | 5.13  | ug/L | 97     |

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 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00545

Quant Time: Sep 15 23:37:39 2018  
 Quant Title :  
 QLast Update : Mon Sep 17 19:07:49 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 25) Chloroform                 | 4.68  | 83   | 96430    | 5.28  | ug/L   | 97       |
| 27) 1,2-Dichloroethane         | 5.41  | 62   | 61775    | 5.26  | ug/L   | 98       |
| 29) 1,1,1-Trichloroethane      | 4.91  | 97   | 83446    | 5.54  | ug/L   | 96       |
| 30) Cyclohexane                | 4.99  | 56   | 92440    | 5.44  | ug/L   | 98       |
| 31) Carbon tetrachloride       | 5.13  | 117  | 72300    | 5.45  | ug/L   | 100      |
| 33) Benzene                    | 5.39  | 78   | 214114   | 5.47  | ug/L   | 100      |
| 34) Trichloroethene            | 6.18  | 95   | 54677    | 5.48  | ug/L   | 94       |
| 35) Methylcyclohexane          | 6.41  | 83   | 84147    | 5.18  | ug/L   | 94       |
| 37) 1,2-Dichloropropane        | 6.44  | 63   | 57534    | 5.53  | ug/L # | 97       |
| 38) Bromodichloromethane       | 6.76  | 83   | 68881    | 5.42  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene    | 7.27  | 75   | 67110    | 4.81  | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone       | 7.48  | 43   | 326879   | 53.31 | ug/L # | 96       |
| 42) Toluene                    | 7.64  | 91   | 220719   | 5.57  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 56869    | 5.09  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane      | 8.07  | 97   | 38432    | 5.50  | ug/L   | 98       |
| 47) Tetrachloroethene          | 8.23  | 164  | 47356    | 5.44  | ug/L   | 93       |
| 48) 2-Hexanone                 | 8.37  | 43   | 239593   | 55.29 | ug/L # | 95       |
| 49) Dibromochloromethane       | 8.48  | 129  | 47262    | 5.48  | ug/L   | 98       |
| 50) 1,2-Dibromoethane          | 8.59  | 107  | 35504    | 5.43  | ug/L   | 98       |
| 51) Chlorobenzene              | 9.12  | 112  | 140800   | 5.29  | ug/L   | 97       |
| 52) Ethylbenzene               | 9.25  | 91   | 216333   | 5.45  | ug/L   | 98       |
| 53) m,p-xylene                 | 9.38  | 106  | 86989    | 5.72  | ug/L   | 91       |
| 54) o-xylene                   | 9.78  | 106  | 81698    | 5.62  | ug/L   | 97       |
| 55) Styrene                    | 9.79  | 104  | 152716   | 5.97  | ug/L   | 95       |
| 56) Isopropylbenzene           | 10.17 | 105  | 209698   | 5.53  | ug/L   | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 47291    | 5.40  | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 33653    | 5.50  | ug/L   | 98       |
| 61) Bromoform                  | 9.96  | 173  | 26300    | 5.02  | ug/L # | 98       |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146  | 103178   | 5.19  | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 113248   | 5.02  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146  | 108181   | 5.20  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.66 | 75   | 6825     | 5.17  | ug/L   | 86       |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180  | 83874    | 5.05  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 66045    | 4.87  | ug/L   | 99       |
| 69) Naphthalene                | 13.75 | 128  | 90776    | 4.66  | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 67638    | 5.24  | ug/L   | 98       |

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

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